

Denne rapport
tilhører



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KODE Well 31/3-3 nr. 9

Returneres etter bruk

FINAL WELL REPORT

SAGA PETROLEUM A/S

31/3-3

NORWEGIAN OFFSHORE CONTINENTAL SHELF

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OCTOBER - NOVEMBER 1984

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EXPLORATION LOGGING OVERSEAS

NOVEMBER 1984

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INTRODUCTION

WELL AND RIG DATA

Company: Saga Petroleum A/S
Well Name: 31/3-3
Location: Norwegian Offshore Continental Shelf
Position: 60 deg 50 min 01.93 sec N
03 deg 50 min 38.46 sec E
Field: Troll
Rig: Treasure Saga. Semi-submersible
Contractor: W. Wilhelmsen A/S
RKB-MSL: 26 m
MSL-Seabed: 332 m
Spud Date: 13th October 1984
Completion Date: 18th November 1984
Completion Depth: 2573 m
Completion Status: Abandoned

Exploration Logging Overseas, Inc.

Unit #: 509
GEMDAS Crew: P. Fisher R. Jones
L. Smith K. Amor
Logging Crew: I. Fletcher D. Hone
D. Kane V. Baskerville

PROGNOSIS

31/3-3 was a wildcat well drilled on a structure close to the Troll field. The primary objective was to confirm the Upper Jurassic sandstones and to test for possible hydrocarbons within them.

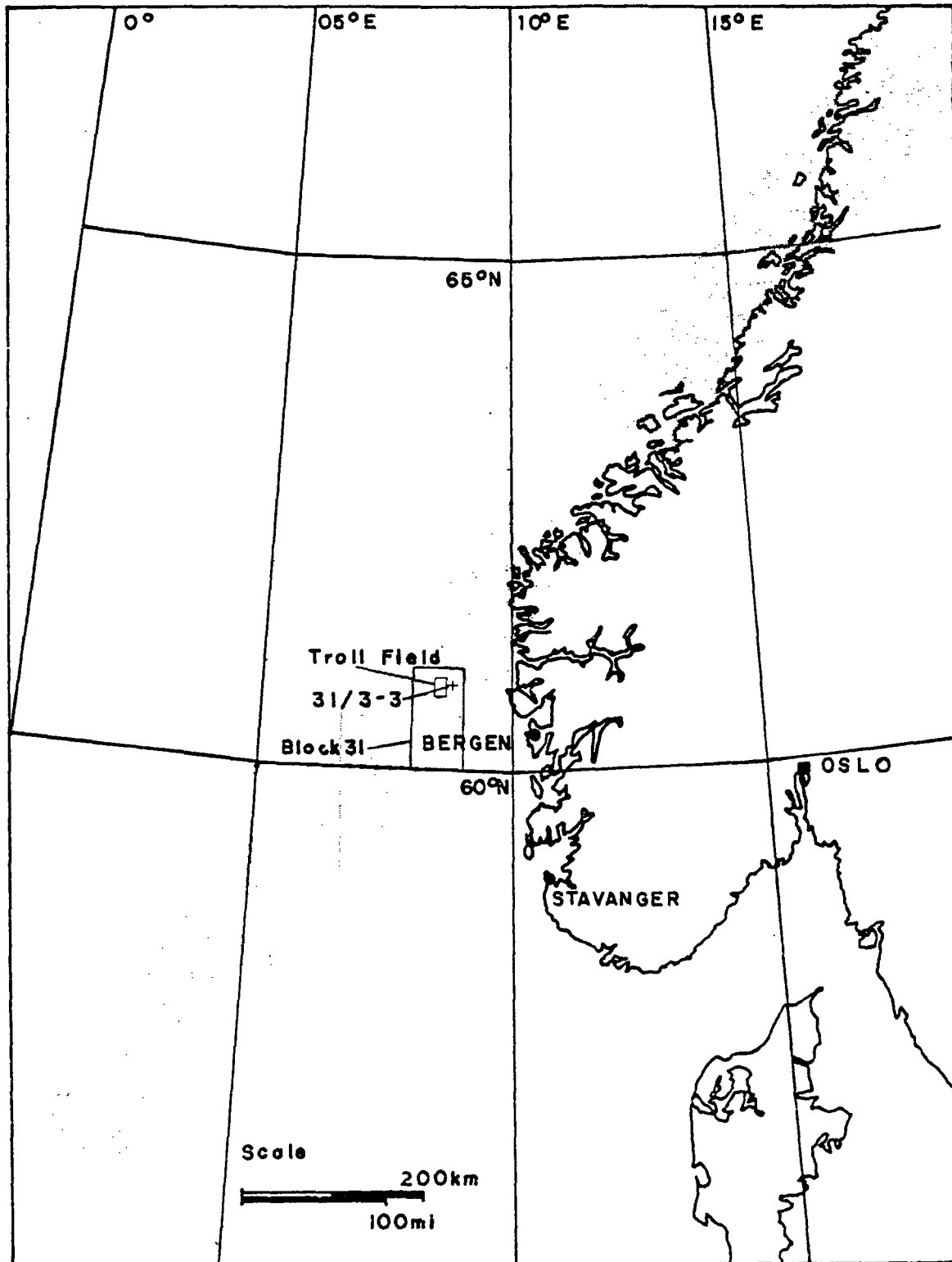
A secondary prospect was within the Lower Cretaceous. The well was planned to reach a total depth of approximately 2525 m, within the Triassic.

The stratigraphic prognosis was derived from the nearest wells 31/3-1 and 31/3-2.

Exploration Logging provided Geological Engineering Monitoring and Data Analysis System (GEMDAS) service on 31/3-3, from 358 m to 2573m total depth. In addition to formation evaluation and conventional mud logging, automatic real-time data monitoring and recording, and pressure analyses were carried out. Continuous evaluation of pressure and drilling progress provided an aid in optimizing drilling costs, and ensuring that drilling continued with maximum safety to personnel, the well and equipment. The operator was continuously advised as to the status of these analyses, and data and results stored on magnetic disk for post-well evaluation. The printouts and plots are contained in the attachments of this report.

For details of the computer programs provided, and the theory of the pressure evaluation methods used, please refer to the Software Information Sheets and Pressure Log Manual MS-156. Both are available from Exploration Logging.

LOCATION MAP TROLL FIELD 31/3-3



SECTION 1

DRILLING AND ENGINEERING

DRILLING AND ENGINEERING36" Hole section : Seabed to 486 m

Well 31/3-3 was spudded on October 13th 1984. A guide base was landed and the seabed was located at 358m RKB. A Varel L3A, 26" bit was run with a 36" hole opener to drill the surface hole, with returns to the seabed. Drillwater was used as the spud fluid, with 15 - 25 bbl mud pill sweeps at connections, to facilitate hole cleaning.

Surveys were run at the first two connections and indicated hole angles of 1-3/4 and 3/4 of a degree at 374 m and 384 m respectively.

At 448 m a trip had to be made due to a fall in the rate of penetration. Bit #2 a Smith DSJ drilled to 486m, whereupon a survey was dropped and a wiper trip made, prior to displacing the hole with a high viscosity mud. The survey indicated that the hole inclination drift had been reduced to 1 degree.

The 30" surface string comprised 10 joints of Vetco HSG and was run then cemented in place with a 12.0 ppg lead slurry and a 16.0 ppg tail. 1060 sacks and 250 sacks of class 'G' cement were used for the lead and tail slurries respectively.

After landing the marine riser a leak was found at the pin connector during testing and so the riser was pulled and repaired. The riser was run for a second time and tested successfully.

26" Hole section : 486 m to 815 m

This section was initially drilled as a 17.5" pilot hole, as a precaution against shallow gas. The interval to 815 m was drilled using one HTC OSC 3AJ bit in 9.1 hours and subsequently under-reamed to 26" with one under-reaming run in 12.3 hours. The dominant lithology was clay with trace amounts of sand throughout. Deviation surveys were taken using an MWD tool while drilling the pilot hole and indicated a gradually increasing hole angle to 2 degrees at 805 m. A seawater gel mud was used for this section, with the mud density being allowed to increase to 9.0 ppg and 9.5 ppg on completion of the pilot and under-reamed sections respectively.

No hole problems were encountered whilst drilling the pilot hole section. Initial rates of penetration of up to 135 m/hr were recorded down to 550 m but remained in the range 30 to 60 m/hr below this depth. Gas readings averaged 0.2% for much of the section with a maximum of 0.89% recorded at 509 m. After completing the pilot hole a wiper trip was made to the 30" shoe, with no overpull recorded. With the bit at the wellhead the riser was displaced with seawater and a flowcheck performed with the riser dump valve open. No flow was observed with 9.0 ppg mud in the hole and the bit was run back to bottom. Returns were circulated and a maximum trip gas of 0.18% was recorded. Dresser Atlas were rigged up and ran the following logs DIFL-ACL-GR.

A Smith SDG bit and 26" Servco under-reamer were used to open up the pilot hole to 815m. Penetration rates and background gas generally mirrored the values recorded during the pilot hole section. The well was again flowchecked on the trip out, with the riser displaced with seawater, and was found to be stable. A Dresser Atlas caliper log was run, but was unable to reach bottom. Consequently the riser was pulled and a check trip made with a 26" bit. Tight hole was encountered all the way to bottom, but the kelly was only used

to ream two sections at 600 m and 650 m.

A total of 35 joints of X-56, 113 lb/ft, 20" casing were run to a shoe depth of 805 m. This was cemented with a lead of 1846 sacks of class G cement mixed to a slurry density of 13.0 ppg, and tailed with a further 500 sacks mixed to a slurry density of 16.0 ppg. A BOP stack and marine riser were then run and successfully tested to Saga specifications.

17.5" Hole section : 815 m to 1630 m

The 17.5" hole section was drilled with 4 bits and a single 12.25" core run. A leak off test was performed at 820 m vertical depth, with a 9.5 ppg mud weight in the hole. The surface gauge pressure at which fracture initiation began was 525 psi, an equivalent fracture gradient of 13.3 ppg EQMW.

NB# 5 a Smith SDGH drilled 328 m in 16.3 hours, with an average ROP of 20 m/hr. Tight hole during connections was encountered and attributed to swelling clays in the formation. The mud weight was subsequently increased to 10.5 ppg at 1035 m. The hole angle continued to build during this bit run. To reduce the build rate, the WOB was reduced from 30 klbs to 7 klbs, although the angle remained the same. At 1143 m the bit was pulled to change the BHA.

NB# 6, HTC X3A drilled 302 m in 21.2 hours at an average ROP of 14 m/hr. During the trip in, 160 bbls of mud were calculated to have been lost to the formation by 733 m. A 10.2 ppg mud was circulated through the riser, to initially reduce the hydrostatic head, followed by circulating a 10.2 ppg mud through the drillstring, to reduce the mud weight throughout the system. The last single had to be reamed in since 80 klbs drag had been recorded on the previous stand. The mud losses were attributed to a 2 m limestone band at 1140 m.

At 1216 m further mud losses were encountered, also associated with a limestone formation. A 40 bbls LCM pill was pumped in an attempt to control the mud losses and the mud weight was gradually reduced to 10.0 ppg.

Prior to a 20 stand wiper trip at 1398 m an LCM pill was spotted at 1145 m to minimise the mud loss during the trip. Losses still occurred as the formation at 1398 m was also a limestone. Overpull of 175 klbs was recorded on the first two stands.

NB# 7 Smith SDGH, drilled 135 m in 20.8 hours with an average ROP of 6.5 m/hr, through a predominantly limestone formation from 1400 m.

At 1545 m, the lithology changed to a claystone, and a stratigraphic core was taken. A Diamant Boart 12.25" core barrel was used with a CB303 bit, to cut core #1 from 1580 m to 1596 m. 100% recovery was made, using a plastic core sleeve.

Bit #7 was rerun and drilled a further 50 m in 6.5 hours, with an average ROP of 7.5 m/hr. From 1580 m to 1596 m the hole was enlarged from 12.25" to 17.5" following the core run. A lithology change was observed at 1604 m, to a different claystone formation. At 1630 m the hole was circulated to condition it prior to running logs. On the trip out, 80 klbs overpull was recorded on the first three stands and 160 klbs between 1267 m to 1238 m. On the first logging run, Dresser Atlas failed to get their tool beyond 1240 m. The hole was subsequently reamed between 1210 m to 1270 m, with 25 - 30 klbs WOB, and the hole circulated clean for over 7 hours. Dresser Atlas ran the following logs, DIFL/ACL/GR, Densilog/CNL/GR and a coregun.

The 13.425" casing was run to a shoe depth of 1616 m and consisted of 115 joints of N-80, 72lb/ft buttress casing. A mud loss of 33 bbls was recorded while running the casing. The lead cement slurry consisted of 1381 sacks of class G cement with a weight of 13.0 ppg with 0.1 gal/sack D31 LM and 2.25% by

weight of cement of Bentonite. The tail consisted of 500 sacks of class G cement at 15.8 ppg, with 0.1 gal/sack D31 LM and 0.2 gal/sack D19 LM.

12.25" Hole section : 1630 m to 2573 m

The 12.25" hole section was drilled with 7 conventional rock bits and 3 core bits, which cut a total 168.5 m in 6 cores.

The section consisted of sandstone and claystone with minor siltstone, coal and limestone horizons. The background gas remained low over most of the section and averaged 0.02%.

A calcium carbonate mud system, with mud weights in the range 9.7 ppg to 10.2 ppg was used to 2112 m. At this depth the mud was replaced by a lignosuphonate mud, and a density of 9.7 ppg was maintained to TD.

NB# 9, a Smith SDGH drilled 5 m of new formation to 1635 m before a leak off test was performed. Fracture initiation occurred at a surface gauge pressure of 850 psi with a 9.7 ppg mud density in the hole, which indicated a fracture gradient of 12.8 ppg EQMW. Drilling was continued through a predominantly claystone section to 1750 m at an average penetration rate of 11.75 m/hr. The well was flow checked at this depth after a drilling break of 30 m/hr, but was found to be static. Bottoms up were circulated before drilling ahead, but no oil shows were evident. At 1764 m the bit was pulled in order to run a core barrel.

Four successive cores were cut, cores 2 to 5, to a depth of 1861m. After core #5 was recovered the core sleeve was found to be damaged and was thought to be due to tight hole. Bit #9 was rerun to ream out the rathole, and reamed from 1802 m to 1861 m. On the trip out with core #6 from 1885.5 m, 6bbl of mud were swabbed while pulling the first two stands, and overpull of upto 90klb recorded. Consequently the bit was run back to bottom and bottoms up

were circulated. On the trip out 7bbl were swabbed on the second and third stands, but the hole began to take mud normally by the fifth stand, and no net gain was recorded for the trip. No problems were encountered on the trip in to cut core #7, but a maximum trip gas for the section of 0.64% was recorded. Tight hole problems were again encountered on the trip out with core #7, 10 bbl of mud being swabbed while pulling the first stand. The kelly was picked up and the hole circulated while pulling the next 11 singles. After core #7 had been recovered a drilling assembly was run with bit #12 a HTC J11. No problems were encountered during the trip in. After reaming the rathole drilling continued through a predominantly sandstone section with occasional claystone stringers to 2022 m at an average ROP of 9.5 m/hr. A short trip to the shoe was made at this depth, and tight hole problems were again experienced with a maximum overpull of 145 klb recorded. The hole was reamed from 1702 m on the trip in, but the bit only took weight on the last two singles from 2003 m. On the trip out with bit #12 at 2070 m, overpull of up to 90 klb was recorded.

In an attempt to reduce the tight hole problems, thought to be due to clay swelling, the mud system was changed from calcium carbonate to lignosulphonate at 2112 m. This appeared to alleviate the problems, and a clean trip out was made with bit #13 at 2141 m. On the trip in with bit #14, a Smith F2 the hole was reamed from 2072 m before drilling ahead through a sandstone sequence at an average penetration rate of 6 m/hr. Two gas peaks of 0.31% and 0.67% were recorded from 2177 m and 2195 m respectively, and were considered to be associated with thin coal beds. Tight hole problems were again experienced when bit #14 was pulled at 2259 m. A maximum overpull of 130 klb was recorded between 2214 m and 2041 m. The same interval was found to be tight on the

trip out with bit #15. A limited amount of swabbing occurred on both occasions but no net mud gain was recorded. No further hole problems were encountered while drilling the remainder of the section. Two further bit runs were made to reach TD at 2573 m through a predominantly claystone section at an average rate of penetration of 3.1 m/hr. Bottoms up were circulated at TD before pulling out to run electric logs.

Dresser Atlas were rigged up and ran the following logs : DIFL/LSBHC/ACBL/GR CDL/CN/SL, ACBL, FMT, Velocity survey and coregun.

Four cement plugs were set from 2450 m to 2250 m, 2150 m to 1920, 1920 m to 1700 m and 1666 m to 1566 m. After pulling the riser and stack, the casing was cut and the well abandoned.

SECTION 2

FORMATION PRESSURES

FORMATION PRESSURES

A value of 8.6 ppg (1.03 g/cc) was assigned to the normal pore pressure gradient based on regional data. This value was used to calculate the normal formation balance gradient, referenced to the flowline. Pressure evaluation commenced at the 30" casing shoe at 486m and continued to TD at 2573m. A summary of estimated formation pressures is contained in, the Pressure Evaluation Log.

A surface 36" hole was drilled to 486m without any visual evidence of shallow gas at the wellhead. After running the 30" casing the marine riser was landed and a 17.5" hole was drilled with returns to the shakers. Drilling data was available for pressure evaluation from this point.

The pilot hole was drilled through a lithological sequence comprising mainly of claystones and siltstones with minor sand stringers. The Dxc data was erratic down to 550m reflecting the relatively uncompacted nature of the formation. Background gas values were relatively high in this section within the range of 0.3-0.7%.

Sonic log data displayed a high degree of scatter in this section, again a reflection of the relatively unconsolidated formation.

From 550m a normal compaction trend could be established for the Dxc data. Background gas values were also reduced from this point falling within the range of 0.18-0.2%. The sonic data developed a compaction trend of 20 msec/ft per 100m, which correlated well with the Dxc trend.

At 770m a steepening of the Dxc plot together with an increase in the ditch gas was interpreted as the start of a possible pressure transition zone. The Dxc indicated a maximum pore pressure of 8.8 ppg (8.51 ppg fbg), however, the well

was flowchecked prior to pulling the riser and no indications of flow occurred with 9.0 ppg mud in the hole.

There were no indications of pore pressure related problems while drilling the 17.5" pilot hole, wiper trips being clean, as was the hole conditioning trip run prior to logging. A sufficient degree of overbalance therefore existed while drilling this section with a mudweight of 8.8 ppg.

The mudweight was increased to 9.5 ppg before drilling out of the 20" casing shoe. The Dxc data was erratic over the following hole section, although an overall subvertical trend could be distinguished from the casing shoe at 805 m to 980m. At this point a negative trend developed in the Dxc plot indicating a possible transition zone. However, the background gas values were actually reduced at this point and so the maximum estimated pore pressure was 8.9 ppg. The mudweight was increased to 10.5 ppg at 1035m, consequently background gas values were further diminished to less than 0.06%.

The Dxc plot from this point was erratic, due in part to the presence of limestone stringers. The overall vertical trend of the Dxc at this point indicated a further increase in pore pressure, however the low background gas and continued absence of connection gases indicated that a considerable degree of overbalance was maintained with 10.5 ppg mud. The pore pressure was therefore considered to be stable.

At 1143m mud losses were sustained while making a bit trip, the mudweight was therefore reduced to 10.1 ppg. Mud loss continued to occur while drilling ahead, and consequently the mudweight was further reduced to 10.0 ppg. The losses were probably due to pre-existent fractures within the limestone units encountered in this section rather than a consequence of hydraulic fracturing.

At 1150m a positive offset in the Dxc plot occurred marking the start of a sub vertical to negative trend. This occurred at the same time as a reduction

in background gas to 0.04% and the occurrence of marl in the cuttings. This formation change was reflected by the sonic log as a reduction in overall transit times and a negative sub vertical trend. However, the gamma ray log indicated that the marl was not a uniform lithology, gamma ray readings increased with depth indicating an increase in the clay fraction and hence an increased transit time and "drillability".

At 1380m the top of a limestone unit was marked by a further offset in the Dxc plot. Dxc data throughout this unit was a reflection of lithological character and possibly variations in fracture porosity rather than an indication of pore pressure. As the background gas remained consistently low the pore pressure was considered to be stable.

At 1550m the Dxc plot was displaced to the left as an argillaceous formation was penetrated. As only 30m of this section was drilled before running a core bit no significant trend was developed. The coring operation caused a further offset in the Dxc plot and effectively invalidated it as a pore pressure indicator.

After drilling out of the 13.425" casing shoe the Dxc was at first erratic but began to follow a very consistent trend from 1650 to 1760m. Background gases were increased over this section, falling within the range of 0.06-0.10%.

At 1760m the top of the potential reservoir sand was penetrated, from this point the Dxc data was invalid as a pore pressure tool, and simply reflected variations in the degree of cementation. As the background gas was consistently low over the entire section from 1760m to 2150m the pore pressure was presumed to be stable. During the coring operation and on successive bit trips swabbing and tight hole became a problem. This was attributed to hydration and swelling of the claystone section from the casing shoe to 1760m. The mud system was changed over from a CaCO_3 system to a gel-lignosulphonate system in

an effort to remedy this problem.

From 2170m a sequence of siltstones with interbeds of claystone and sandstones occurred, together with occasional coal beds. Dxc data within the argillaceous members fell with a high degree of scatter close to a normal trend projected from higher in the hole. This trend was further developed after entering a more massive claystone sequence from 2400m. The consistency of this trend together with the low, in some places total absence of background gas suggested that the pore pressure had regressed and was probably normal at TD. This inference was later supported by FMT data which indicated an almost normal pore pressure of 8.6 to 8.7 ppg over the test interval 1775 m to 2493 m.

Fracture Pressures

Fracture pressures were estimated using the zero tensile stress method. The overburden gradient used in this equation was calculated using wireline CDL data. A mathematical curve solution program was used to process the overburden gradient data and gave an exponential best curve fit of:

$$Y = AE^{BX}$$

$$\text{where } A = 46.4633$$

$$B = 0.2249$$

$$\text{Coefficient of determination } 0.97515$$

The first leak off test was performed after drilling out the 20" casing shoe with a 9.5 ppg mud in the hole. A surface gauge pressure of 525 psi was recorded when fracture initiation began, and gave an equivalent fracture gradient of 13.3 ppg.

At 1143 m mud losses were sustained while making a bit trip and the mud

weight was reduced from 10.5 to 10.2 ppg. The mud loss continued to occur while drilling ahead, and the mud weight was again reduced to 10.0 ppg. The mud loss was thought to be due to pre-existent fractures within the limestone units encountered during this section, rather than a consequence of hydraulic fracturing.

After drilling out the 13 3/8" casing shoe a leak off test was performed at a depth of 1635 m. Fracture initiation occurred at a surface gauge pressure of 850 psi, with a 9.5 ppg mud in the hole, which gave a fracture gradient of 12.8 ppg EQMW. Using this result fracture pressures were estimated for the remainder of the well and ranged from 11.76 ppg for a sandstone formation at 1900 m to 13.44 ppg in claystone at TD.

SECTION 3

GEOLOGY AND SHOWS

N.B. All geological tops and ages quoted were correct at the time of writing, but may have since changed due to subsequent re-evaluation.

GEOLOGY AND SHOWS

Logging commenced at 486 m, returns from the 36" hole section having been returned to the seabed.

Section 1: 468 m - 550 m.

This section was characterised by relatively high gas and calcimetry values.

The dominant lithology was a light grey, soft, rarely sticky, amorphous silty clay, which rarely contained shell fragments. Thin sand beds were also present, the sand being clear, fine to medium, subangular to rounded loose quartz.

Calcimetry values averaged 8% calcite and 2% other carbonates.

The rate of penetration in the upper part of this section, as far as 532 m, averaged 100 m/hr, slowing to an average of 60 m/hr below that depth.

Total gas averaged 0.45% of C1 (methane). Cuttings gas averaged 0.26%, all C1. No shows were observed in this section.

Section 2: 550 m - 860 m

The top of this section was marked by a change in lithology and a decrease in the gas and calcimetry values.

Clay was again the dominant lithology, and was light grey and light grey green, soft, amorphous, hydrated and silty. Traces of glauconite were

present throughout. Below 710 m the clay graded to claystone, which was dominantly medium brown/grey, soft, amorphous to blocky, very silty and occasionally micaceous. With depth the claystone gradually resumed a light greyish green colour and was also soft, blocky to platey, less silty, and glauconitic. Thin limestone and dolomite stringers were present below 740 m. The limestone was white to buff, moderately hard to hard, cryptocrystalline to microcrystalline and blocky. The dolomite was a buff colour, very hard and microcrystalline, forming blocky, angular fragments.

Calcimetry values were very low and intermittent throughout the section, attesting to the non-calcareous nature of the clays and claystones.

The rate of penetration was relatively constant, having an average rate of 36 m/hr.

Total gas averaged 0.18%, totally C1, with maxima of 0.4% at 550 m and 790 m. Cuttings gas averaged 0.1%. No shows were seen in this section.

Section 3: 860 m - 1225 m

The top of this section was marked by the appearance of tuff, together with a decrease in gas values.

Claystone again dominated the sequence and was generally medium to dark greyish brown, soft, silty, amorphous to blocky and hydrated. The claystone was in part glauconitic.

The tuff in the upper part of the section was light to dark grey and medium to dark brown, and commonly showed mottled colouration. It was also firm to hard, blocky, non-calcareous, and in grain size graded to a siltstone.

Traces of limestone, dolomite and marl were seen throughout the sequence,

though a slightly argillaceous limestone was well developed between 1200 m and 1210 m.

Calcimetry values were generally low, though there were small intermittent peaks throughout the section, corresponding to the limestone and dolomite stringers. A peak of 83% calcite was recorded at 1205 m.

The rate of penetration through this section averaged 30 m/hr, with the slower rates of 3 to 6 m/hr clearly marking the calcareous stringers.

Total gas averaged 0.06%; totally Cl. Cuttings gas averaged 0.04%. No oil or gas shows were seen in this section.

Section 4: 1225 m - 1375 m

This section consisted dominantly of marl with occasional claystone and limestone horizons, particularly in the uppermost and lowest parts of the sequence.

The marl was a light grey, soft to moderately firm, silty, blocky, and very occasionally platy. There were traces of glauconite throughout. The claystone was persistently present below 1320 m. It was medium to dark grey brown, firm to hard, variably silty and non-calcareous.

Calcimetry analyses showed that the calcite percentage gradually decreased through this interval, from 55% at the top to 8% at the base. The latter value was due to the presence of some 50% claystone in the samples. Other carbonates averaged 2%.

The rate of penetration averaged 20 m/hr in the marl, with rates of 8 m/hr and 17 m/hr in the limestone and claystone respectively.

Total gas averaged 0.02%; all Cl. There was only a trace of cuttings gas.

No shows were seen in this section.

Section 5: 1375 m - 1545 m

This section was marked at the top by the appearance of an argillaceous limestone and the associated decrease in the rate of penetration.

The limestone was very light grey, moderately soft, very argillaceous, silty, and occasionally found with traces of disseminated glauconite. Marl continued to be present down to 1470 m. Again it was light grey, moderately firm, micro-crystalline and hydrated.

Calcimetry values within the limestone averaged 70% calcite and 1% other carbonates, though with marl present the calcite percentage averaged 55%.

The rate of penetration averaged 7 m/hr.

Total gas averaged 0.01%. Cuttings gas was again only a trace.

Section 6: 1545 m - 1752 m

A relatively uniform medium to dark grey claystone made up the whole of this interval.

The lithology was a medium to dark grey claystone, though occasionally reddish brown, and was generally soft to firm. Other characteristics were its amorphous to blocky nature, occasional sub-fissility and constant silt content. Below 1630 m the claystone commonly contained pyrite.

On analysis, the calcimetry values tended to decrease with depth. Higher values (in the region of 20% to 30% calcite), resulted from the presence of limestone stringers, particularly in the upper part of the section. The

lower half gave figures under 10% calcite, the same maximum value as that for other carbonates throughout.

Until a depth of 1641m was reached, the rate of penetration varied between 6 m/hr and 12 m/hr, and thereafter it stayed between 12 m/hr and 20 m/hr.

Total gas values were low throughout, never above 0.04% in the upper half, and consistently within the range 0.04% to 0.09% in the lower half. It was wholly C1. Cuttings gas increased in the lowest third of the section from a trace to 0.06% of C1. There were no shows.

Section 7: 1752 m - 2133 m.

The top of this section was marked by the presence of sandstone. The interval from 1764 m to 1916.5 m was cored.

Sandstone was the dominant lithology and was interbedded with siltstone and claystone. The sandstone was light grey to white, moderately hard to hard and blocky with a calcite cement. The grains were very fine to very coarse and granule in size and subangular to subrounded, but occurred in moderately well sorted beds. Mica, pyrite and glauconite were common throughout.

The siltstone occurred in beds up to 9 m thick and was generally brownish grey in colour, moderately soft to moderately hard, micaceous and calcareous, often grading into very fine sandstone. The claystone beds occurred in the bottom part of the section, the claystone being dark grey, moderately hard, platy to blocky, subfissile, occasionally silty and non calcareous.

Calcimetry values were low for the whole section, averaging 2% of calcite and 3% other carbonates.

The rate of penetration through this section averaged 3 m/hr in the cored interval and 20 m/hr through the rest of the section. Slower rates were recorded through the siltstone and claystone beds.

The gas was all C1 and averaged 0.02%. Cuttings gas only occurred in trace amounts.

Slight oil shows were seen in cores 3 and 5, and these had a dull yellowish brown fluorescence, with a slow bluish white, cloudy cut, leaving a milky residue.

Section 8: 2133 m - 2155 m.

The top of this section was marked by a rise in the gamma ray reading and the appearance of clay in the samples.

The major lithology was sandstone similar to that in the previous section with traces of pyrite and glauconite. The clay was light to medium grey, very soft, non calcareous, amorphous and very hydrated, much of it washing out of the samples.

Traces of a thin coal seam were observed at 2148 m. The coal was black, hard and brittle.

Calcimetry values averaged 3% calcite and 3% of other carbonates. There were no peaks.

The rate of penetration varied between 2 m/hr and 20 m/hr averaging 7.5 m/hr.

Total gas values averaged 0.02% C1, with only one peak, from the coal at 2148m, which gave 0.08% and included methane (C1) through to propane (C3). Only a trace of cuttings gas was recorded. There were no shows.

Section 9: 2155 m - 2175 m.

This section comprised white to light grey sandstone. This was friable, with a calcareous cement, and angular to subangular grains which varied in size from very fine to very coarse. Traces of pyrite were present.

Calcimetries averaged 5% calcite and 3% other carbonates.

The rate of penetration through this section averaged 13 m/hr.

Total gas values were again low, averaging 0.04%. Down to 2165 m it was all C1, but below this depth small amounts of ethane (C2) were present. There were only small traces of cuttings gas present.

Section 10: 2175 m - 2212 m.

This interval consisted of interbedded coal and sandstone with a few greyish brown siltstone beds. The sandstone was generally light grey, moderately hard, friable and had a slightly calcareous cement. The grains were angular to subrounded and clear to translucent, with some mica present. The coal was black, moderately hard to hard and brittle, with blocky, angular, dull to glossy fragments.

The calcimetry readings were very low, with a mean of 1% for both calcite and other carbonates.

The penetration rate through this section varied with lithology; the coal drilling more rapidly (15 m/hr) than the sandstone (6 m/hr).

Background gas levels were generally around 0.06%, but peaks of 0.26% and 1.34% were seen from coal seams at 2177 m and 2195 m respectively. These peaks were composed of C1 and C2 with traces of C3. Cuttings gas readings

were high, with total gas peaks of 0.56% at 2177 m and 1.92% at 2198 m. Small amounts of petroleum vapours were recorded from these peaks. The coal gave a dull yellowish brown fluorescence, with a weak, diffuse, bluish white cut.

Section 11: 2212 m - 2260 m.

This section was dominated by sandstone with interbeds of siltstone and limestone. The sandstone was white, moderately hard and friable with a calcite cement. It had fine to medium and occasionally coarse grains, which were subangular to subrounded and moderately sorted. The siltstone was brown to greyish brown, firm, friable, blocky, non calcareous, micromicaceous and occasionally slightly sandy. Limestone beds were more frequent in the lower half of the section, the limestone being white, moderately soft to moderately hard, crystalline, blocky and very sandy.

Calcimetry values averaged 2% calcite and 3% other carbonates in the top half of the section, and 12% and 5% respectively in the lower half.

The rate of penetration ranged between 3.5 m/hr and 20 m/hr, averaging 6 m/hr. The faster drill rates occurring through the sandstone beds.

Total gas values were low, the mean being 0.04% of C₁, with no peaks. Cuttings gas averaged 0.02%. There were no shows.

Section 12: 2260 m - 2305 m.

The top of this section was marked by a change in lithology to siltstone with some claystone and a marked increase in the gamma ray reading.

The siltstone was medium grey to medium brownish grey, soft to moderately

soft, blocky, rarely subfissile, micaceous and non calcareous. There were traces of pyrite present. The claystone was light brownish grey, moderately hard, platey, non to slightly calcareous and occasionally silty.

Calcimetry readings averaged 1% for both calcite and other carbonates, with a peak of 14% calcite at 2297 m.

The penetration rate was steady between 6 m/hr and 10 m/hr.

Only a trace of C1 was detected, similarly, only a trace of cuttings gas was recorded.

Section 13: 2305 m - 2399 m.

The top of this section was distinguished by a change in lithology, sandstone becoming predominant again. This was white and moderately hard with occasionally fine, but generally coarse to very coarse, angular to subangular, rarely subrounded, poorly sorted, calcite cemented grains. Locally the grains were fine to medium, subangular to subrounded and well sorted.

The sandstones were interbedded with siltstones which were light and brownish grey, firm to moderately hard, subfissile, micaceous and non calcareous. A thin coal seam occurred at the bottom of the section at 2399 m.

The calcimetry results varied between 1% and 10% of calcite and 0% and 2% of other carbonates, averaging 3% and 1% respectively.

The average penetration rate for this section was 6 m/hr, ranging between 2 m/hr and 40 m/hr, the slower rates occurring through the siltstone beds.

Only traces of gas were present, which was all C1 except for traces of C2 from 2345 m and the coal at 2399 m. There were only traces of cuttings gas.

Section 14: 2399 m - 2435 m.

This section was notable by it's mixed lithologies and the fact that the gamma ray log showed a coarsening upwards sequence in the bottom 25 m.

The top 11 m were of interbedded sandstone and clay. The clay was light grey, very soft, sticky and very hydrated. The sandstone was white to light grey, moderately hard to hard and micaceous with very fine and fine to medium, clear, subrounded, well sorted grains in a calcite cement. It frequently occurred as loose sand, indicating it's friable nature.

The next 10 m were dominated by light grey siltstone, which was moderately hard, tabular, subfissile, micaceous and non calcareous, grading frequently to claystone.

Below 2420 m, clay and claystone were the dominant lithologies, the clay being medium grey, very soft, amorphous, very hydrated and non calcareous. It graded into claystone. There was a trace of limestone at the bottom of the section.

Calcimetry values for this interval were low, averaging 3% of calcite and 1.5% of other carbonates.

The penetration rate ranged between 1.7 m/hr and 15 m/hr.

Total gas values were very low, with an average of 0.01%; all Cl. There were only intermittent traces of cuttings gas. No shows were seen.

Section 15: 2435 m - 2573 m.

The top of this section was marked by a sand bed and an abrupt drop in the gamma ray reading. The major lithologies were claystone and sandstone

with minor limestones.

The claystone was mainly reddish brown, but locally the colour varied to yellowish brown, light grey, medium grey, purplish brown and light bluish grey. The claystone was very soft to hard and amorphous to blocky and splintery. It was frequently silty and generally non calcareous.

The sandstone was white, hard, friable and had a silica, pyrite or rarely calcite cement. It most frequently occurred as loose grains, which were clear, translucent or pink, generally fine to medium, but occasionally coarse, subrounded and moderately sorted. Below 2507 m the sandstone became less well sorted, with very coarse and granule size grains being frequent. These were white, clear, cream, pink and yellow and generally subangular to subrounded.

Limestone beds occurred at several horizons, and were white to pink, soft to moderately soft, cryptocrystalline to microcrystalline and blocky.

Calcimetries were low over the claystone and sandstone intervals, with mean values of 1% for both calcite and other carbonates. In the limestones the calcite figure rose to up to 25%.

The penetration rate reflected the lithology, with average rates of 1 m/hr to 3 m/hr through the claystone and 7 m/hr to 30 m/hr through the sandstone.

Only trace amounts of Cl were detected from this interval. There was no, or very little cuttings gas, and no shows.

SECTION 4

EVALUATION AND TESTING

EVALUATION AND TESTINGLOGGING

The following is a summary of Dresser Atlas electric wireline logs run on the well 31/3-3 :

<u>Depth (driller)</u> <u>metres</u>	<u>Logged Interval</u> <u>metres</u>	<u>Log Run</u>
815	815 - 481	DIFL/ACL/GR
1630	1632 - 805	DIFL/ACL/GR Densilog/CNL/GR COREGUN
2573	2573 - 1616	DIFL/LSBHC/ACBL/GR CDL/CN/SL Velocity survey COREGUN
	1616 - 695	ACBL
	2493 - 1775	FMT

CORING

7 cores were cut with a total recovery of 166.5 m. These were processed and packaged at the wellsite by the Saga Petroleum wellsite geologist, assisted by Exploration Logging personnel. A plastic core sleeve was used inside the core barrel. Upon retrieval at surface, this core sleeve was cut into approximately 90 cm sections. The ends were sealed and the core sections placed in wooden boxes.

The following summarizes intervals cored, footage cut and recovery made for each core :-

<u>Core #</u>	<u>Interval (m)</u>	<u>Cut (m)</u>	<u>Recovery (%)</u>
1	1580.0 - 1596.0	16.0	16.0 m 100%
2	1764.0 - 1782.0	18.0	18.0 m 100%
3	1782.0 - 1810.0	28.0	28.0 m 100%
4	1810.0 - 1837.5	27.5	27.5 m 100%
5	1837.5 - 1861.0	23.5	21.5 m 91.5%
6	1861.0 - 1888.5	27.5	27.5 m 100%
7	1888.5 - 1916.5	28.0	28.0 m 100%

The above information may also be found in Attachment A, the Formation Evaluation Log.

For descriptions of cores recovered, refer to Core Reports appended to the Formation Evaluation Log.

FORMATION TESTS

Formation tests were run as follows, using a Dresser Atlas FMT tool:

<u>Depth(m)</u>	<u>Hydrostatic(psi)</u>	<u>EMW(ppg)</u>	<u>B.H.Pressure(psi)</u>	<u>EMW(ppg)</u>
1775	3044	10.07	2595	8.58
1807	3098	10.06	2643	8.59
1825	3129	10.07	2668	8.58
1864	3196	10.07	2726	8.59
1889	3237	10.06	2762	8.59
1934.5	3315	10.06	2827	8.58
2017	3456	10.06	2948	8.58
2080	3562	10.05	3039	8.58
2131	3649	10.05	3112	8.57
2204.5	3767	10.03	3225	8.59
2311	3946	10.03	3384	8.6
2359	4029	10.03	3450	8.59
2456	4190	10.02	3620	8.65
2456.5	4192	10.02	3608	8.62
2493	4251	10.01	3675	8.65

SECTION 5

BIT AND SURVEY RECORDS

Bit Data , Table 1 : 31/3-3

BIT #	MAKE	TYPE	IADC	DIAM inches	JETS 32nds	DEPTH IN Metres	BIT DIST Metres	HOURS	WOB klbs	RPM	PSI	GRADE
1	Varel	L3A	1112	26	24:24:24	358	88	19.0	5-15	80-90	1250	T1 B1 In
* Run with 36" hole opener												
2	Smith	DSJ	1115	26	24:24:24	446	40	4.5	15	85	1300	T1 B1 In
* Run with 36" hole opener												
3	HTC	OSC 3AJ	1111	17.5	24:24:24	486	329	9.1	8-15	110-150	2600	T2 B6 In
4	Smith	SDGH	1355	17.5	24:24:24	486	Run with 26" under-reamer					
5	Smith	SDGH	1355	17.5	22:22:22	815	328	16.3	10-40	80-150	1600	T3 B4 In
6	HTC	X3A	1131	17.5	22:22:22	1143	302	21.2	15-45	80-120	2500	T2 B4 In
7	Smith	SDGH	1355	17.5	22:22:22	1445	135	20.8	40	120	2500	T2 B2 In
8	D.Boart	CB303	D8214	12.25	TFA 0.4	1580	16	10.5	30	100	1000	10% worn
RRB 7	Smith	SDGH	1355	17.5	22:22:22	1580	50	6.7	40-45	120	2500	T2 B3 In
RRB 7	Smith	SDGH	* Wiper trip during logging run									
RRB 7	Smith	SDGH	* Wiper trip prior to casing run									
9	Smith	SDGH	1355	12.25	16:16:16	1630	134	11.4	30	120	2100	T3 B3 In
10	D. Boart	CB303	9214	12.25	TFA 0.4	1764	18	5.2	10-20	110	850	
11	D.Boart	CD504	9214	12.25	TFA 0.4	1782	28	7.5	10-20	110	800	
RRCB11	D.Boart	CD504	9214	12.25	TFA 0.4	1810	27.5	9.4	10-20	110	800	30% worn
RRCB11	D.Boart	CD504	9214	12.25	TFA 0.4	1837.5	28.5	8.3	20	110	900	60% worn
RRB 9	Smith	SDGH	* Reaming cored section									
RRCB 8	D.Boart	CB303	9214	12.25	TFA 0.4	1861	27.5	8.3	30	110	1100	25% worn
RRCB 8	D.Boart	CB303	9214	12.25	TFA 0.4	1888.5	28.0	7.8	30	110	1200	
12	HTC	J11	4371	12.25	16:16:16	1916.5	153.5	9.7	30	84	3100	T3 B2 1/32
13	Smith	SDGH	1355	12.25	16:16:16	2070	71	8.7	25	150	2440	T7 B3 1/8
14	Smith	F2	5175	12.25	16:16:16	2141	118	17.9	40	76	2670	T5 B8 1/8
15	Smith	SVH	2255	12.25	16:16:16	2259	155	27.8	35-40	104	2800	T8 B5 1/16
16	Smith	SVH	2255	12.25	15:15:15	2414	86	23.5	30-50	120	3180	T4 B4 In
17	SEC	S84	5154	12.25	15:15:15	2500	73	29.7	45-50	85	3180	T2 B4 In

SURVEY RECORD

The following is a list of directional surveys taken by single shot and the Analysts MWD tool during the drilling of well 31/3-3:

SURVEY	COURSE	INCL.	AZIMUTH	VERTICAL	POSITION		DOGLEG
DEPTH	LENGTH	ANGLE	ANGLE	DEPTH	N-S	E-W	/100M
375	0	2.0	0	374.9	6.5	0	0.53
384	15	0.75	0	383.9	6.8	0	13.87
413	29	2.0	0	412.9	7.5	0	4.30
432	19	2.0	0	431.9	8.1	0	0
446	14	1.25	0	445.9	8.5	0	5.34
486	40	1.0	0	485.9	9.3	0	0.6
521	35	1.4	11.5	520.9	10.0	0.1	1.31
615	94	1.6	17.2	614.8	12.4	0.7	0.25
645	30	1.7	18.8	644.8	13.2	1.0	0.28
724	79	1.8	21.1	723.8	15.5	1.8	0.12
805	81	2.0	28.5	804.8	17.9	2.9	0.38
856	51	2.5	24.5	855.7	19.7	3.8	1.02
971	115	3.0	24.6	970.6	24.6	6.3	0.46
1028	57	3.5	27.5	1027.5	27.5	7.8	0.90
1075	47	3.5	30.0	1074.4	30.0	9.1	0.49
1124	49	3.7	28.3	1123.3	32.7	10.6	0.44
1134	10	3.6	28.1	1133.3	33.3	10.9	0.69
1179	45	3.5	27.6	1178.2	35.8	12.2	0.15
1225	46	3.1	27.7	1244.1	38.1	13.4	0.86

SURVEY RECORD (Continued)

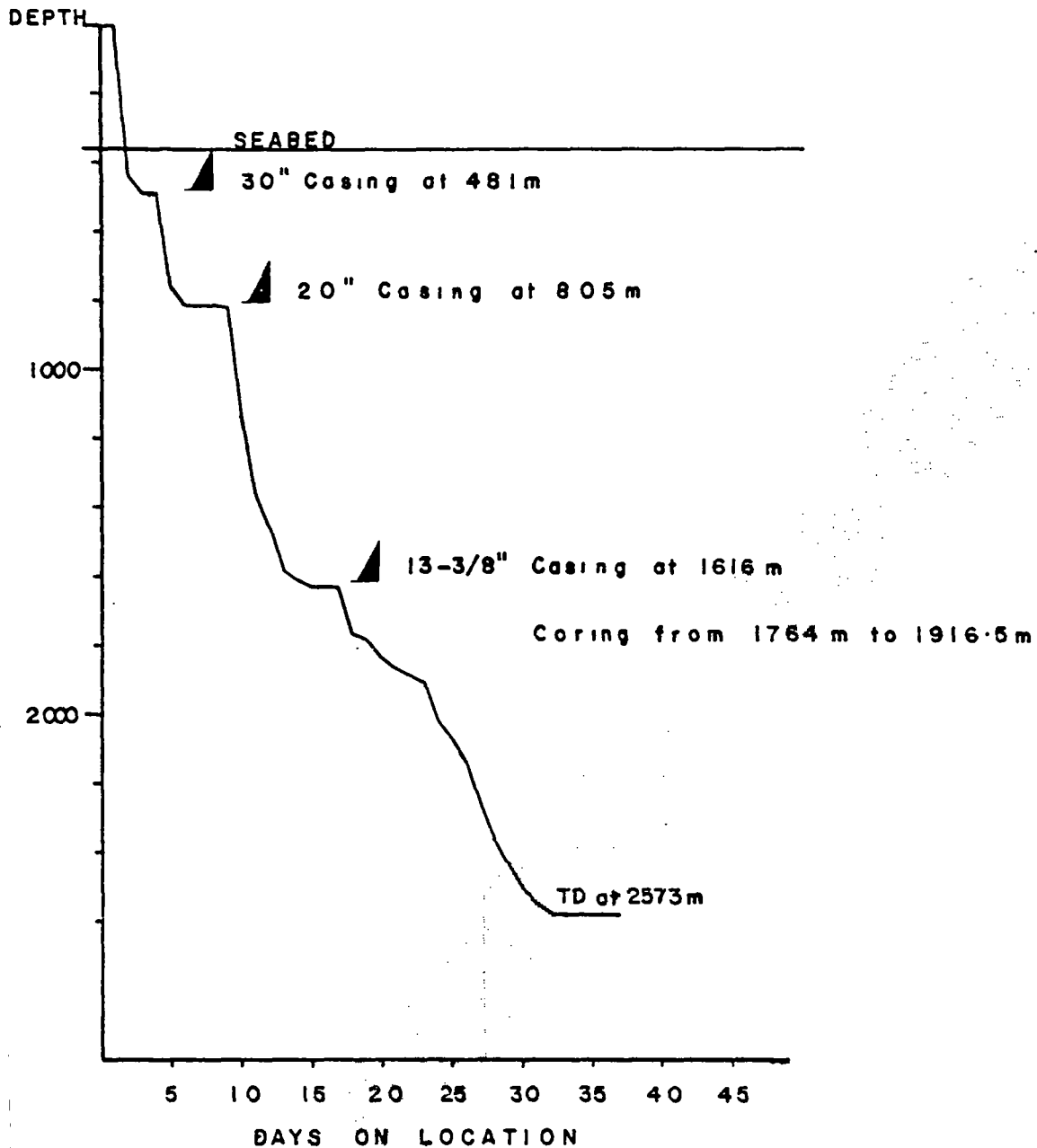
The following is a list of directional surveys taken by single shot and the Analysts MWD tool during the drilling of well 31/3-3:

SURVEY	COURSE	INCL.	AZIMUTH	VERTICAL	POSITION		DOGLEG
DEPTH	LENGTH	ANGLE	ANGLE	DEPTH	N-S	E-W	/100M
1284.6	59.6	2.9	29.2	1283.6	40.8	14.9	0.34
1330.0	45.4	3.0	27.5	1329.0	42.9	16.0	0.25
1381.0	51.0	3.1	29.1	1379.9	45.3	17.3	0.22
1425.0	44.0	3.1	25.0	1423.8	47.4	18.4	0.48
1476.0	51.0	2.8	25.5	1474.8	49.8	19.5	0.57
1526.0	52.0	2.7	20.0	1524.7	52.0	20.4	0.55
1563.0	37.0	2.6	22.9	1561.7	53.6	21.1	0.40
1615.0	52.0	2.4	21.8	1613.6	55.7	21.8	0.62
1668.0	53.0	2.7	20.0	1666.6	58.0	22.6	0.61
1707.0	39.0	2.4	26.4	1705.5	59.5	23.3	1.04
1747.0	40.0	2.2	23.0	1745.5	61.0	23.9	0.58
1840.0	93.0	2.0	29.8	1838.4	64.1	25.4	0.33
1926.0	86.0	1.9	21.7	1924.4	66.7	26.7	0.33
2141.0	215	2.0	21.7	2139.3	73.5	29.4	0.03
2280.0	139	0.6	328.0	2278.2	75.2	30.9	3.27
2327.0	47.0	0.4	318.0	2325.2	75.6	30.7	0.43
2422.0	95.0	0.2	318.0	2420.2	75.9	30.4	0.0
2469.0	47.0	0.3	299.0	2467.2	76.0	30.3	0.2
2563.0	94.0	0.2	299.0	2561.2	76.2	29.9	0.0

SECTION 6

DRILLING PROGRESS RECORD

DRILLING PROGRESS CHART



FT	TIME	DEPTH	ROP	TORQUE	RPM	FO3	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	1b/gal	TEMP	RHS	THUS	BIT	EST	DXC	NX	NXB	ECD	NXMD
		m	m/hr	AVG	MAX	AVG	AVG	CPM	SRM	BDI	DEPTH	%	IN	OUT	IN	OUT	hrs	TM				
Well 31/3-3 spudded 13th October 1984 in 335 m of water 36" hole drilled to 486 m, with returns to seabed. 30" casing set 481 m																						
6	1226	487.0	125	248	273	111	9.29	2270	1116	194	727.0	486.0	0.00	8.60	8.70	20.5	15.8	1.432	.3	.13	.49	.73
7	1227	488.0	75.7	196	274	112	7.72	2270	1114	204	712.0	486.0	0.00	8.60	8.70	20.5	15.7	1.432	.3	.13	.56	.73
8	1228	489.0	101	213	341	112	10.5	2270	1115	196	704.0	486.0	0.00	8.60	8.70	20.4	15.7	1.432	.4	.14	.54	.73
9	1236	490.0	102	261	309	105	11.5	2410	1152	197	704.0	486.0	0.00	8.60	8.70	20.4	15.5	1.432	.4	.15	.53	.73
10	1236	491.0	136	299	332	102	13.1	2410	1154	196	699.0	486.0	0.00	8.60	8.70	20.4	15.5	1.432	.4	.15	.49	.73
11	1230	492.1	155	282	315	103	12.3	2410	1154	197	697.0	486.0	0.00	8.60	8.70	20.4	15.5	1.432	.4	.15	.46	.73
12	1236	493.1	158	291	318	102	12.0	2420	1154	200	693.0	486.0	0.00	8.60	8.70	20.4	15.5	1.432	.4	.15	.45	.73
13	1237	494.0	90.2	302	317	103	12.6	2420	1154	199	691.0	486.0	0.00	8.60	8.70	20.4	15.5	1.432	.4	.15	.56	.73
14	1237	495.0	122	322	362	101	13.0	2420	1153	211	687.0	486.0	0.00	8.60	8.70	20.4	15.5	1.432	.4	.15	.51	.73
15	1237	496.0	117	289	340	102	12.6	2420	1153	202	682.0	486.0	0.00	8.80	8.70	20.4	15.4	1.432	.4	.15	.51	.73
16	1238	497.0	113	274	328	102	11.8	2420	1153	201	678.0	486.0	0.00	8.80	8.72	20.4	15.4	1.432	.4	.16	.51	.73
17	1238	498.0	122	275	308	103	12.1	2420	1153	202	674.0	486.0	0.00	8.80	8.72	20.4	15.1	1.432	.4	.16	.50	.73
18	1239	499.0	125	277	317	102	12.2	2420	1153	211	670.0	486.0	0.00	8.80	8.72	20.4	15.0	1.432	.4	.16	.49	.73
19	1239	500.0	114	273	315	103	12.3	2430	1153	211	665.0	486.0	0.00	8.80	8.73	20.4	14.9	1.432	.4	.16	.51	.74
20	1247	501.0	105	241	289	107	9.70	2420	1145	196	636.0	486.0	0.00	8.80	8.76	20.4	15.9	1.432	.5	.17	.51	.74
21	1247	502.1	113	250	269	113	7.22	2420	1148	198	632.0	486.0	0.00	8.80	8.77	20.4	16.3	1.432	.5	.17	.47	.74
22	1248	503.0	94.5	225	261	112	7.73	2420	1147	200	624.0	486.0	0.00	8.80	8.76	20.4	16.7	1.432	.5	.18	.51	.74
23	1248	504.0	83.1	198	241	113	6.98	2420	1147	210	616.0	486.0	0.01	8.80	8.76	20.4	16.6	1.432	.5	.18	.52	.74
24	1249	505.1	124	238	285	112	10.0	2410	1147	202	612.0	486.0	0.02	8.80	8.78	20.4	16.6	1.432	.5	.18	.49	.74
25	1249	506.0	114	247	272	111	11.7	2420	1146	210	606.0	486.0	0.01	8.80	8.78	20.4	16.6	1.432	.5	.19	.52	.74
26	1250	507.0	117	235	284	112	11.4	2430	1147	198	601.0	486.0	0.01	8.80	8.80	20.4	16.5	1.432	.5	.19	.51	.74
27	1250	508.0	117	243	301	116	11.8	2420	1147	210	595.0	486.0	0.01	8.80	8.82	20.4	16.6	1.432	.5	.19	.52	.74
28	1251	509.1	135	231	268	125	11.8	2420	1147	200	592.0	486.0	0.01	8.80	8.82	20.4	16.6	1.432	.5	.19	.51	.74
29	1251	510.0	118	239	277	125	11.7	2420	1147	210	579.0	486.0	0.01	8.80	8.81	20.4	16.7	1.431	.5	.20	.53	.74
30	1301	511.0	112	237	265	125	11.3	2660	1214	212	570.0	486.0	0.01	8.80	8.84	19.3	20.8	1.025	.6	.21	.54	.74
31	1302	512.1	202	239	309	132	5.30	2660	1213	213	582.0	486.2	0.01	8.80	8.84	19.3	20.8	1.041	.6	.21	.38	.74
32	1302	513.0	160	209	249	132	4.88	2660	1215	223	587.0	486.4	0.01	8.80	8.80	19.3	20.8	1.059	.6	.21	.41	.74
33	1303	514.2	130	208	238	132	5.84	2660	1214	214	590.0	487.5	0.01	8.80	8.81	19.1	20.8	1.052	.6	.21	.46	.74
34	1303	515.0	110	252	303	132	6.97	2650	1214	222	594.0	488.7	0.01	8.80	8.83	19.1	20.9	1.033	.6	.22	.50	.74
35	1304	516.0	110	247	292	131	7.13	2330	1174	206	600.0	490.0	0.01	8.80	8.85	19.0	20.8	1.037	.6	.22	.51	.74
36	1304	517.0	168	223	248	133	6.59	2330	1147	200	602.0	490.5	0.01	8.80	8.85	19.0	20.8	1.038	.6	.22	.43	.74
37	1304	518.0	110	231	261	132	7.21	2330	1130	207	599.0	491.0	0.01	8.80	8.85	19.0	20.9	1.040	.6	.22	.51	.74
38	1305	519.1	138	227	277	132	7.10	2330	1126	194	594.0	491.1	0.01	8.80	8.86	19.0	21.0	1.041	.6	.23	.47	.74
39	1305	520.0	122	228	265	132	7.07	2330	1125	195	598.0	491.2	0.01	8.80	8.84	19.2	20.9	1.042	.6	.23	.49	.74
40	1317	521.0	48.2	153	264	134	6.79	2200	1087	188	709.0	498.0	0.01	8.80	8.86	21.1	20.8	1.056	.7	.25	.66	.74
41	1319	522.0	68.4	150	246	139	4.29	2000	1037	194	736.0	498.0	0.01	8.80	8.87	21.1	20.8	1.159	.7	.25	.56	.74
42	1320	523.0	19.3	118	261	140	2.91	2000	1031	177	743.0	498.3	0.01	8.80	8.89	21.0	20.8	1.148	.7	.26	.72	.75
43	1323	524.0	16.9	114	222	139	2.65	2000	1031	180	775.0	503.5	0.02	8.80	8.88	20.9	21.7	1.201	.8	.28	.73	.75
44	1325	525.0	35.5	145	280	139	4.74	2000	1031	181	764.0	506.7	0.02	8.80	8.85	20.9	22.3	1.203	.8	.29	.70	.75
45	1326	526.1	64.7	166	341	139	6.60	2000	1031	180	758.0	508.3	0.02	8.80	8.86	20.9	22.3	1.248	.8	.30	.63	.75
46	1327	527.0	96.8	225	251	138	9.16	2000	1031	177	755.0	508.6	0.02	8.80	8.89	20.9	22.2	1.278	.8	.30	.60	.75
47	1330	528.0	61.9	197	274	140	6.42	2200	1092	200	750.0	508.8	0.02	8.80	8.90	20.7	22.4	1.351	.9	.32	.65	.75
48	1336	529.0	106	226	321	138	8.46	2200	1093	200	748.0	508.8	0.02	8.80	8.87	20.7	22.4	1.349	.9	.32	.58	.75
49	1337	530.0	121	230	266	138	8.65	2200	1092	200	748.0	508.8	0.02	8.80	8.87	20.7	22.4	1.346	.9	.33	.56	.75
50	1338	531.2	123	210	265	126	10.8	2240	1094	191	750.0	509.0	0.02	8.80	8.87	20.7	22.5	1.352	.9	.33	.56	.75
51	1349	532.1	114	237	269	139	9.00	2420	1153	203	776.0	518.9	0.02	8.80	8.89	20.8	22.5	1.366	.9	.34	.58	.75
52	1349	533.0	94.2	231	279	139	9.24	2430	1154	211	776.0	518.9	0.02	8.80	8.89	20.8	22.4	1.369	.9	.34	.62	.75

F#	TIME	DEPTH	ROP	TORQUE	REM	FCB	PUMP	MUD	FLOW	PVT	RETURNS	GAS MD	IN	OUT	TEMP	(C)	RES	THIS	EST	DXC	NX	NXB	ECD	NXMD
		m	m/hr	AVG	MAX	AVG	AVG	CPM	SRM	DBI	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TW				
53	1350	534.0	76.9	203	253	140	8.00	2430	1156	202	769.0	518.9	.42	8.80	8.63	20.8	22.5	1.370	48.0	1.0	.35	.64	.75	8.90 8.59 D
54	1351	535.0	104	245	283	139	9.20	2430	1156	202	759.0	518.9	.43	8.80	8.59	20.8	22.4	1.370	49.0	1.0	.35	.60	.75	8.90 8.59 D
55	1351	536.1	154	242	282	140	8.99	2430	1157	198	762.0	518.9	.43	8.80	8.59	20.8	22.4	1.372	49.9	1.0	.36	.52	.53	8.90 8.59 D
56	1352	537.0	124	217	276	139	8.42	2430	1157	202	766.0	518.9	.45	8.80	8.60	20.8	22.4	1.373	51.0	1.0	.36	.56	.75	8.90 8.59 D
57	1353	538.0	117	219	291	140	8.27	2430	1156	212	767.0	518.9	.42	8.80	8.60	20.8	22.4	1.377	52.0	1.0	.37	.71	.75	9.11 8.62 D
58	1353	539.0	83.6	231	280	139	9.75	2430	1157	199	766.0	518.9	.37	8.80	8.65	20.9	22.4	1.385	53.0	1.0	.37	.64	.64	7.5 9.12 8.62 D
59	1405	540.0	48.8	209	282	137	7.04	2500	1169	202	780.0	518.9	.43	8.80	8.86	21.0	22.2	1.410	54.0	1.1	.39	.69	.69	7.5* 9.14 8.62 D
60	1406	541.0	56.9	251	312	131	7.89	2500	1175	207	781.0	518.9	.53	8.80	8.86	21.0	22.2	1.410	55.0	1.1	.39	.67	.67	7.5 9.15 8.62 D
61	1407	542.0	50.2	227	281	132	6.74	2500	1176	215	782.0	518.9	.57	8.80	8.99	21.1	22.2	1.412	56.0	1.1	.40	.68	.67	7.5 9.17 8.62 D
62	1408	543.0	61.6	252	296	132	9.08	2500	1174	207	783.0	518.9	.53	8.80	9.09	21.1	22.2	1.413	57.0	1.1	.40	.68	.67	7.5 9.18 8.62 D
63	1409	544.1	63.3	233	282	132	8.50	2230	1119	195	782.0	518.9	.52	8.80	9.20	21.1	22.2	1.415	57.9	1.1	.41	.66	.66	7.5 9.20 8.62 D
64	1410	545.0	56.9	264	308	131	9.91	2230	1101	191	782.0	518.9	.46	8.80	9.11	21.1	22.1	1.415	59.0	1.2	.42	.70	.69	7.5* 9.21 8.64 D
65	1410	546.1	95.7	288	313	131	11.8	2230	1100	189	782.0	518.9	.46	8.80	9.06	21.0	22.1	1.415	59.9	1.2	.42	.62	.62	7.5 9.22 8.64 D
66	1411	547.0	73.2	280	325	131	13.6	2230	1101	189	783.0	518.9	.45	8.80	9.11	21.1	22.1	1.423	61.0	1.2	.42	.69	.69	7.5* 9.24 8.65 D
67	1412	548.0	54.6	229	277	132	10.5	2230	1101	192	774.0	518.9	.25	8.80	8.80	21.1	22.2	1.153	62.0	1.2	.43	.71	.71	7.5* 9.25 8.65 D
68	1413	549.0	44.7	221	274	132	8.93	2240	1100	187	766.0	518.9	.30	8.80	8.80	21.1	22.3	1.205	63.0	1.2	.44	.73	.72	7.5* 9.27 8.65 D
69	1425	550.0	59.3	271	329	122	12.1	2370	1138	208	723.0	518.9	.44	8.80	8.74	21.1	22.4	1.260	64.0	1.3	.45	.70	.70	7.5* 9.28 8.66 DX
70	1426	551.0	89.5	201	333	132	13.6	2100	1103	197	720.0	535.0	.43	8.80	8.74	21.1	22.4	1.258	65.0	1.3	.45	.65	.65	7.5 9.30 8.66 D
71	1427	552.0	59.9	219	260	133	10.4	2120	1068	185	718.0	535.0	.38	8.80	8.71	21.1	22.4	1.254	66.0	1.3	.46	.71	.71	7.5* 9.07 8.66 D
72	1428	553.0	77.3	231	267	134	10.1	2130	1066	195	719.0	535.0	.38	8.80	8.71	21.1	22.4	1.255	67.0	1.3	.46	.66	.65	7.5 9.08 8.66 D
73	1429	554.0	56.3	223	279	133	10.2	2120	1067	182	721.0	535.0	.41	8.80	8.72	21.1	22.4	1.255	68.0	1.3	.47	.72	.71	7.5* 9.09 8.67 D
74	1430	555.0	75.9	239	280	133	10.6	2130	1067	185	722.0	536.7	.45	8.80	8.85	21.1	22.5	1.252	68.9	1.3	.48	.67	.66	7.5 9.09 8.67 D
75	1430	556.1	80.5	256	289	132	14.1	2130	1068	196	729.0	537.3	.35	8.80	9.03	21.1	22.5	1.250	70.0	1.4	.48	.69	.69	7.5* 9.10 8.68 D
76	1431	557.0	50.6	198	267	132	12.1	2130	1068	196	731.0	537.3	.34	8.80	8.90	21.1	22.5	1.251	71.0	1.4	.48	.76	.76	7.5 9.11 8.67 D
77	1432	558.0	71.7	228	259	132	11.9	2130	1068	196	733.0	537.3	.32	8.80	8.90	21.1	22.6	1.251	71.9	1.4	.49	.69	.68	7.5* 9.12 8.68 D
78	1433	559.0	58.5	202	261	132	12.4	2340	1100	201	733.0	537.3	.32	8.80	8.90	21.1	22.6	1.260	73.0	1.4	.49	.73	.73	7.5* 9.14 8.68 D
79	1442	560.0	69.1	236	286	129	12.8	2420	1149	210	742.0	538.6	.28	8.80	8.95	21.3	22.6	1.292	73.9	1.5	.51	.70	.70	7.5* 9.13 8.68 D
80	1443	561.1	67.1	199	275	128	15.9	2420	1148	210	745.0	539.1	.26	8.80	8.95	21.3	22.6	1.433	75.0	1.5	.51	.74	.73	7.5* 9.14 8.69 D
81	1444	562.1	49.3	193	235	129	13.5	2420	1151	199	735.0	539.5	.10	8.80	8.95	21.3	22.6	1.066	76.0	1.5	.52	.78	.77	7.6 9.15 8.68 D
82	1445	563.1	84.9	251	276	128	15.1	2420	1151	199	732.0	539.9	.08	8.80	8.90	21.2	22.7	1.067	77.0	1.5	.52	.68	.68	7.6 9.16 8.68 D
83	1445	564.0	85.7	266	292	128	16.6	2420	1150	194	734.0	540.4	.18	8.80	8.90	21.2	22.7	1.085	78.0	1.5	.52	.69	.69	7.6* 9.17 8.68 D
84	1446	565.0	56.1	211	279	129	13.6	2420	1150	199	735.0	541.1	.24	8.80	8.90	21.3	22.8	1.097	79.0	1.5	.53	.75	.74	7.6* 9.17 8.69 D
85	1447	566.0	65.2	243	280	128	14.9	2420	1151	200	737.0	541.5	.25	8.80	8.90	21.3	22.7	1.127	80.0	1.6	.53	.73	.73	7.6* 9.18 8.69 D
86	1448	567.0	79.0	277	304	127	17.5	2420	1149	199	738.0	541.8	.26	8.80	8.90	21.2	22.7	1.130	81.0	1.6	.54	.72	.71	7.6* 9.18 8.69 D
87	1449	568.1	81.7	289	319	127	20.1	2420	1150	200	741.0	542.2	.27	8.80	8.90	21.2	22.7	1.140	82.0	1.6	.54	.73	.72	7.6* 9.20 8.70 D
88	1450	569.0	62.7	234	300	128	19.7	2420	1151	203	742.0	542.2	.28	8.80	8.90	21.2	22.6	1.157	83.0	1.6	.55	.79	.78	7.6 9.21 8.68 D
89	1500	570.0	67.8	197	234	129	9.93	2310	1116	193	772.0	542.2	.44	8.80	8.90	21.2	22.4	1.221	84.0	1.7	.57	.66	.66	7.6 9.22 8.68 DX
90	1501	571.0	46.4	161	228	130	7.69	2310	1114	204	773.0	542.6	.49	8.80	8.90	21.2	22.3	1.235	85.0	1.7	.57	.70	.69	7.6* 9.24 8.69 D
91	1503	572.0	40.6	150	182	130	6.53	2310	1116	204	773.0	550.0	.48	8.80	8.90	21.2	22.3	1.248	85.9	1.7	.58	.70	.70	7.6* 9.23 8.69 D
92	1505	573.0	36.9	137	195	130	6.13	2310	1115	198	782.0	551.5	.42	8.80	8.90	21.2	22.3	1.252	87.0	1.8	.59	.72	.71	7.6* 9.13 8.70 D
93	1506	574.0	39.8	140	189	130	6.52	2300	1116	193	788.0	552.9	.41	8.80	8.90	21.2	22.3	1.250	88.0	1.8	.59	.71	.71	7.6* 9.13 8.70 D
94	1508	575.0	37.4	158	205	129	7.97	2300	1117	194	797.0	554.3	.35	8.80	8.90	21.2	22.3	1.248	89.0	1.8	.60	.75	.75	7.6* 9.12 8.70 D
95	1509	576.0	44.0	172	208	129	8.00	2300	1115	197	803.0	555.3	.31	8.80	8.90	21.2	22.3	1.248	90.0	1.8	.61	.72	.72	7.6* 9.12 8.71 D
96	1511	577.0	34.3	163	203	130	7.27	2300	1116	204	807.0	555.6	.30	8.80	8.90	21.2	22.3	1.249	90.9	1.9	.61	.75	.75	7.6* 9.13 8.71 D
97	1512	578.0	34.2	160	200	129	6.87	2290	1115	195	811.0	555.6	.26	8.80	8.90	21.2	22.3	1.250	92.0	1.9	.62	.74	.74	7.6* 9.14 8.71 D
98	1516	579.0	39.1	162	219	129	7.47	2310	1115	194	822.0	557.1	.23	8.80	8.90	21.2	22.3	1.274	92.9	1.9	.63	.73	.73	7.6* 9.14 8.72 D
99	1526	580.0	75.0	243	280	127	13.7	2290	1120	197	848.0	561.9	.14	8.80	8.90	21.3	22.5	1.289	94.0	2.0	.65	.70	.69	7.6* 9.08 8.72 DX
100	1527	581.0	88.7	239	266	128	13.6	2290	1121	195	845.0	562.6	.13	8.80	8.90	21.3	22.5	1.289	94.9	2.0	.65	.66	.66	7.6 9.08 8.72 D
101	1528	582.0	71.8	241	274	127	14.2	2290	1121	187	844.0	563.1	.12	8.80	8.90	21.3	22.5	1.288	96.0	2.0	.66	.71	.71	7.6* 9.09 8.73 D
102	1528	583.0	60.4	222	259	127	13.0	2290	1120	197	844.0	563.3	.15	8.80	8.90	21.3	22.6	.873	97.0	2.1	.66	.71	.71	7.6* 9.10 8.73 D

F#	TIME	DEPTH	ROP	TORQUE	RPM	FOB	PUMP	MUD FLOW	GAS MD	TEMP	RES	THIS BIT	EST	DXC	NXB	FCD	NXMD										
		m/hr		AVG	MAX	AVG		GPM	%	IN	OUT	m	hrs	TW													
103	1529	584.0	85.0	221	254	128	12.5	2290	1120	250	841.0	563.3	09	8.80	8.90	21.3	22.7	845	98.0	2.1	66	66	65	76	9.12	8.73	D
104	1530	585.0	63.9	209	255	127	12.5	2290	1120	196	837.0	563.3	12	8.80	8.90	21.3	22.7	843	99.0	2.1	67	71	71	76	9.13	8.74	D
105	1531	586.0	69.9	202	236	128	11.1	2300	1121	196	834.0	563.3	15	8.80	8.90	21.3	22.7	845	100	2.1	67	68	67	76	9.14	8.74	D
106	1532	587.0	58.4	200	248	127	11.6	2290	1121	193	834.0	563.3	15	8.80	8.90	21.3	22.7	862	101	2.1	67	72	71	76	9.15	8.74	D
107	1533	588.1	58.2	201	254	127	12.0	2300	1120	191	834.0	563.3	16	8.80	8.90	21.3	22.7	913	102	2.1	68	72	72	76	9.17	8.75	D
108	1543	589.0	46.2	181	251	126	10.1	2290	1119	205	846.0	566.9	18	8.80	8.90	21.4	22.9	947	103	2.2	69	74	73	76	9.13	8.75	DX
109	1545	590.3	36.8	143	211	125	6.06	2300	1121	205	845.0	568.3	21	8.80	8.90	21.4	23.0	949	104	2.2	70	71	71	76	9.13	8.75	D
110	1547	591.8	37.9	160	229	125	7.38	2290	1121	195	846.0	569.9	21	8.80	8.90	21.5	23.0	953	106	2.3	71	73	73	76	9.13	8.76	D
111	1548	593.0	55.7	189	246	124	9.84	2300	1121	195	847.0	570.6	21	8.80	8.90	21.5	22.9	953	107	2.3	71	70	69	76	9.14	8.76	D
112	1550	594.0	30.6	143	196	124	7.75	2290	1121	192	848.0	571.6	18	8.80	8.90	21.5	22.9	950	108	2.3	72	77	77	76	9.14	8.76	D
113	1551	595.0	52.8	184	239	124	10.0	2300	1120	193	848.0	572.2	20	8.80	8.90	21.5	22.9	949	109	2.4	73	71	71	76	9.14	8.76	D
114	1553	596.0	40.9	168	233	125	9.75	2300	1121	193	849.0	572.5	19	8.80	8.90	21.6	22.9	948	110	2.4	73	75	75	76	9.15	8.76	D
115	1554	597.0	54.4	158	226	125	11.7	2300	1121	194	849.0	572.6	20	8.80	8.90	21.6	22.9	948	111	2.4	74	73	72	76	9.16	8.77	D
116	1556	598.0	34.8	160	223	125	9.96	2300	1121	205	856.0	572.6	19	8.80	8.90	21.7	22.9	947	112	2.4	74	79	78	76	9.18	8.76	D
117	1605	599.0	58.8	201	253	133	11.0	2340	1130	200	859.0	576.4	36	8.80	8.90	21.9	23.0	953	113	2.5	76	72	71	76	9.14	8.76	DX
118	1606	600.0	37.8	148	212	135	7.94	2340	1130	196	857.0	578.2	34	8.80	8.90	21.9	23.0	954	114	2.5	76	76	75	76	9.13	8.76	D
119	1608	601.0	38.5	191	257	135	10.6	2340	1131	198	857.0	579.9	33	8.80	8.90	21.9	23.0	955	115	2.6	77	80	79	77	9.12	8.75	D
120	1609	602.0	56.1	216	256	135	12.0	2340	1131	197	857.0	580.9	31	8.80	8.90	22.0	23.0	955	116	2.6	78	74	74	77	9.12	8.75	D
121	1610	603.0	37.7	172	222	135	9.68	2340	1132	194	858.0	582.0	31	8.80	8.90	22.0	23.0	956	117	2.6	78	79	78	77	9.12	8.74	D
122	1612	604.0	38.4	206	239	135	11.1	2340	1132	197	858.0	582.1	30	8.80	8.90	22.0	23.0	956	118	2.6	79	80	80	77	9.13	8.73	D
123	1613	605.0	37.0	186	227	135	11.2	2340	1131	196	857.0	582.1	29	8.80	8.90	22.1	23.0	957	119	2.6	79	81	81	77	9.14	8.70	D
124	1615	606.0	30.1	168	243	135	11.5	2340	1131	207	859.0	582.3	31	8.80	8.90	22.1	23.0	957	120	2.7	80	86	85	78	9.15	8.67	D
125	1617	607.0	45.5	202	257	135	12.6	2340	1131	207	859.0	583.1	26	8.80	8.90	22.1	23.0	957	121	2.7	81	79	78	78	9.15	8.67	D
126	1618	608.0	30.2	174	223	135	11.0	2340	1131	196	859.0	584.3	24	8.80	8.90	22.2	23.0	958	122	2.7	81	85	84	78	9.15	8.63	D
127	1630	609.0	44.9	167	244	123	10.9	2320	1124	206	852.0	589.6	28	8.80	8.90	22.4	23.1	961	123	2.8	84	76	75	78	9.09	8.64	DX
128	1631	610.0	44.5	176	224	123	9.76	2320	1124	206	852.0	590.4	36	8.80	8.90	22.4	23.1	961	124	2.9	84	74	74	78	9.09	8.64	D
129	1633	611.0	25.7	203	247	123	12.1	2320	1124	195	852.0	591.4	37	8.80	8.90	22.4	23.1	962	125	2.9	85	88	88	78	9.09	8.64	D
130	1635	612.0	40.1	174	244	123	10.3	2320	1124	197	851.0	591.4	32	8.80	8.90	22.5	23.1	962	126	2.9	85	77	76	78	9.11	8.65	D
131	1637	613.1	32.8	166	251	123	9.30	2320	1125	206	852.0	591.4	27	8.80	8.90	22.5	23.1	962	127	3.0	86	79	79	78	9.12	8.64	D
132	1638	614.0	39.6	182	234	123	10.5	2320	1123	195	852.0	592.0	24	8.80	8.90	22.6	23.1	963	128	3.0	86	77	77	78	9.13	8.65	D
133	1640	615.0	29.9	166	235	123	9.81	2320	1123	196	852.0	593.3	16	8.80	8.90	22.6	23.1	963	129	3.0	87	82	81	78	9.12	8.63	D
135	1642	616.0	32.7	169	231	124	11.0	2320	1123	192	852.0	594.6	14	8.80	8.90	22.7	23.1	964	130	3.0	88	82	81	79	9.12	8.61	D
136	1653	617.0	35.5	193	248	126	14.0	2460	1149	202	844.0	598.8	09	8.80	8.90	22.8	23.2	743	131	3.1	89	85	85	79	9.07	8.58	DX
137	1655	618.0	50.6	194	260	127	14.8	2460	1151	201	844.0	599.4	10	8.80	8.90	22.8	23.3	762	132	3.2	90	79	70	79	9.08	8.58	D
138	1656	619.0	54.9	202	245	126	14.9	2470	1150	204	844.0	600.1	10	8.80	8.90	22.8	23.4	765	133	3.2	90	77	77	79	9.08	8.59	D
139	1657	620.0	33.9	168	226	127	13.5	2470	1149	195	846.0	600.7	12	8.80	8.90	22.8	23.4	793	134	3.2	91	85	85	79	9.08	8.55	D
140	1659	621.1	46.6	214	254	127	15.8	2470	1150	200	846.0	600.9	12	8.80	8.90	22.7	23.4	813	135	3.2	91	82	81	79	9.10	8.54	D
141	1703	622.0	12.5	257	384	101	26.2	2470	1150	202	848.0	602.1	14	8.80	8.90	22.7	23.7	886	136	3.3	92	118	117	79	9.09	8.54	D
142	1704	623.0	64.4	280	376	98	28.5	2470	1150	204	849.0	602.8	15	8.80	8.90	22.7	23.6	888	137	3.3	93	80	80	79	9.10	8.54	D
143	1705	624.1	72.4	219	363	112	22.7	2470	1150	197	850.0	603.3	15	8.80	8.90	22.7	23.6	887	138	3.3	93	76	76	80	9.10	8.54	D
144	1707	625.0	32.5	157	289	119	16.4	2470	1149	199	850.0	604.3	14	8.80	8.90	22.7	23.6	892	139	3.4	93	88	88	80	9.10	8.54	D
145	1724	626.0	47.7	196	252	118	13.2	2420	1133	208	853.0	610.3	11	8.80	8.90	22.8	23.4	943	140	3.5	95	77	77	80	9.03	8.55	DX
146	1725	627.1	39.3	173	340	137	9.54	2410	1133	199	853.0	610.4	12	8.80	8.90	22.9	23.5	946	141	3.5	96	79	78	80	9.04	8.55	D
147	1726	628.0	58.0	193	245	151	10.0	2420	1133	196	853.0	610.4</															

F#	TIME	DEPTH	LOGP	TORQUE		RPM	FDB	PUMP	MUD	FLOW	PVT	RETURNS	GAS		MD	lb/gal		TEMP		(C)		RES	THIS	BIT	EST	DXC	NX	NXB	EXD	NXMD
				AVG	MAX								IN	OUT		IN	OUT	IN	OUT	OUT	OUT									
155	1749	636.0	47.9	229	278	150	9.20	2400	1124	206	864.0	619.3	.21	8.80	8.90	23.1	23.7	.938	150	3.8	1.03	.76	.75	.80*	9.04	8.52	DX			
156	1750	637.0	64.5	232	284	151	10.6	2400	1123	206	864.0	619.7	.21	8.80	8.90	23.1	23.7	.939	151	3.8	1.03	.72	.72	.80	9.05	8.52	D			
157	1752	638.0	38.9	167	216	151	7.03	2390	1124	206	866.0	619.7	.20	8.80	8.90	23.2	23.7	.940	152	3.8	1.04	.76	.75	.80*	9.06	8.53	D			
158	1753	639.0	38.1	186	255	151	6.49	2400	1125	206	867.0	619.7	.18	8.80	8.90	23.2	23.7	.942	153	3.8	1.05	.75	.74	.80*	9.08	8.53	D			
159	1755	640.0	40.4	188	245	151	7.06	2400	1125	195	869.0	619.7	.18	8.80	8.90	23.2	23.7	.945	154	3.9	1.05	.75	.74	.80*	9.09	8.53	D			
160	1756	641.0	37.9	186	251	151	6.57	2400	1126	194	868.0	619.7	.17	8.80	8.90	23.2	23.7	.946	155	3.9	1.06	.75	.74	.80*	9.11	8.54	D			
161	1757	642.0	49.1	190	248	151	6.94	2390	1126	198	869.0	619.7	.18	8.80	8.90	23.2	23.6	.948	156	3.9	1.06	.71	.70	.80	9.12	8.54	D			
162	1759	643.0	36.2	178	248	151	7.50	2400	1124	197	873.0	619.8	.18	8.80	8.90	23.2	23.6	.949	157	3.9	1.07	.77	.77	.80*	9.13	8.54	D			
163	1800	644.0	47.5	182	229	151	8.36	2390	1124	194	873.0	620.3	.16	8.80	8.90	23.2	23.7	.950	158	4.0	1.08	.74	.73	.80*	9.14	8.55	D			
164	1802	645.0	52.8	169	249	143	6.81	2400	1124	190	875.0	622.0	.14	8.80	8.90	23.2	23.6	.952	159	4.0	1.08	.69	.68	.80	9.13	8.55	DX			
165	1804	646.0	52.3	206	207	150	10.1	2440	1133	194	864.0	625.4	.10	8.80	8.90	23.2	24.5	.951	160	4.1	1.09	.75	.74	.80*	9.10	8.55	DX			
166	1810	647.0	36.7	158	207	153	7.92	2440	1135	201	868.0	626.7	.10	8.80	8.90	23.2	24.3	.952	161	4.1	1.10	.82	.81	.80	9.09	8.55	D			
167	1813	648.1	77.1	225	285	151	10.6	2440	1134	208	869.0	627.3	.10	8.80	8.90	23.2	24.2	.953	162	4.1	1.11	.69	.68	.81	9.10	8.55	D			
168	1814	649.0	44.2	183	243	152	9.41	2440	1135	208	872.0	628.1	.11	8.80	8.90	23.2	24.1	.954	163	4.1	1.11	.78	.77	.81*	9.10	8.56	D			
169	1815	650.0	59.6	204	234	152	9.16	2440	1134	196	875.0	628.7	.11	8.80	8.90	23.2	23.9	.955	164	4.1	1.11	.72	.71	.81	9.11	8.56	D			
170	1817	651.0	40.8	170	226	152	8.33	2440	1135	208	877.0	629.3	.11	8.80	8.90	23.2	23.7	.956	165	4.2	1.12	.77	.76	.81*	9.11	8.56	D			
171	1819	652.0	23.4	175	239	152	8.50	2440	1134	208	883.0	629.3	.11	8.80	8.90	23.2	24.0	.957	166	4.2	1.13	.88	.87	.81	9.12	8.53	D			
172	1820	653.0	51.4	192	236	151	10.1	2440	1133	194	884.0	629.3	.11	8.80	8.90	23.2	24.2	.958	167	4.2	1.14	.75	.75	.81*	9.14	8.53	D			
173	1822	654.0	34.6	164	237	152	8.74	2430	1134	199	888.0	629.3	.11	8.80	8.90	23.2	24.4	.959	168	4.2	1.14	.81	.80	.81*	9.15	8.54	D			
174	1823	655.0	76.4	231	275	151	11.9	2430	1132	199	888.0	629.7	.11	8.80	8.90	23.2	24.5	.960	169	4.3	1.15	.70	.69	.81	9.16	8.54	D			
Circulate bottoms up and pull wiper trip at 653.7m.																														
179	1938	656.0	54.9	215	258	151	8.94	2430	1134	199	877.0	653.5	.07	8.80	8.90	23.8	22.5	.658	171	4.8	1.17	.75	.74	.81*	8.86	8.54	D			
180	1938	657.0	56.0	174	219	152	7.02	2430	1134	199	879.0	653.5	.07	8.80	8.90	23.8	22.5	.663	171	4.8	1.17	.71	.70	.81	8.86	8.54	D			
181	1940	658.0	36.1	185	238	152	7.84	2430	1134	198	879.0	653.5	.07	8.80	8.90	23.8	22.7	.655	172	4.8	1.18	.80	.80	.81*	8.88	8.55	D			
182	1940	659.0	75.4	224	286	151	11.0	2420	1133	196	879.0	653.5	.07	8.80	8.90	23.8	22.6	.664	173	4.8	1.18	.71	.70	.81	8.89	8.55	D			
183	1942	660.0	32.4	164	227	152	7.21	2430	1132	207	881.0	653.5	.07	8.80	8.90	23.7	22.9	.653	174	4.9	1.19	.81	.80	.81*	8.90	8.56	D			
184	1944	661.0	28.7	160	204	152	6.38	2430	1134	195	884.0	653.5	.08	8.80	8.90	23.5	23.8	.645	175	4.9	1.19	.81	.80	.81*	8.92	8.56	D			
185	1945	662.1	50.3	196	267	151	9.75	2430	1134	198	884.0	653.5	.09	8.80	8.90	23.5	24.3	.647	176	4.9	1.20	.77	.76	.81*	8.93	8.56	D			
186	1946	663.0	41.3	218	255	150	14.3	2430	1133	195	884.0	653.5	.10	8.80	8.90	23.5	24.3	.655	177	4.9	1.20	.87	.86	.81	8.94	8.54	D			
187	1955	664.0	59.7	216	258	151	13.7	2430	1131	197	872.0	653.5	.30	8.80	8.90	23.1	24.3	.643	178	5.0	1.21	.79	.78	.81*	8.95	8.54	DX			
188	1956	665.1	45.9	180	239	151	9.94	2430	1133	195	868.0	653.5	.32	8.80	8.90	23.1	24.6	.658	179	5.0	1.21	.79	.78	.81*	8.96	8.54	D			
189	1957	666.1	51.5	184	229	153	8.67	2440	1133	202	867.0	653.5	.27	8.80	8.90	23.1	24.8	.688	180	5.0	1.22	.75	.74	.81*	8.98	8.55	D			
190	1959	667.0	38.1	179	258	152	9.13	2430	1133	200	868.0	653.5	.27	8.80	8.90	23.1	24.6	.711	181	5.0	1.22	.81	.80	.81*	9.00	8.55	D			
191	2000	668.0	43.7	190	261	152	11.2	2430	1133	198	868.0	653.5	.32	8.80	8.90	23.1	24.5	.732	182	5.1	1.23	.81	.81	.81*	9.01	8.55	D			
192	2002	669.0	43.9	193	241	152	10.3	2440	1134	201	871.0	653.5	.30	8.80	8.90	23.0	23.9	.750	183	5.1	1.23	.80	.79	.81*	9.02	8.56	D			
193	2003	670.0	50.5	183	249	152	10.2	2430	1133	208	871.0	653.5	.25	8.80	8.90	23.0	23.9	.746	184	5.1	1.24	.77	.76	.81*	9.03	8.56	D			
194	2004	671.0	45.6	188	244	152	11.0	2440	1134	201	872.0	653.5	.23	8.80	8.90	23.1	23.9	.748	185	5.1	1.24	.80	.79	.82*	9.05	8.56	D			
195	2005	672.0	51.7	201	267	151	12.1	2440	1133	196	873.0	653.5	.22	8.80	8.90	23.1	24.2	.750	186	5.1	1.25	.79	.78	.82*	9.06	8.57	D			
196	2007	673.0	28.1	230	330	124	18.7	2440	1134	194	874.0	653.5	.25	8.80	8.90	23.1	24.5	.769	187	5.2	1.26	.96	.95	.82	9.07	8.57	DX			
198	2016	674.0	49.2	238	307	132	15.8	2430	1121	198	856.0	657.0	.21	8.80	8.90	23.3	24.7	.623	188	5.2	1.27	.82	.81	.82*	9.04	8.57	DX			
199	2017	675.0	55.8	213	272	150	10.7	2440	1125	194	852.0	658.2	.19	8.80	8.90	23.3	24.5	.627	189	5.3	1.27	.75	.75	.82*	9.04	8.57	D			
200	2019	676.0	32.9	209	269	150	11.0	2430	1125	197	851.0	660.5	.18	8.80	8.90	23.3	24.2	.641	190	5.3	1.28	.86	.85	.82	9.02	8.55	D			
201	2020	677.1	62.2	224	306	150	11.4	2430	1125	195	852.0	661.3	.18	8.80	8.90	23.4	24.2	.648	191	5.3	1.28	.74	.74	.82	9.02	8.55	D			
202	2021	678.0	45.5	191	255																									

F#	TIME	DEPTH	KOP	TORQUE	RPM	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	(C)	RES	THIS BIT	EST	DXC	NX	NXB	RCD	NXMD						
		m	m/hr	AVG	MAX	AVG	GPM	SDI	DEPTH	%	IN	OUT	IN	OUT	m	hrs	TW										
209	2038	685.0	47.8	192	251	153	8.17	2420	1120	205	848.0	668.2	.21	8.80	8.90	23.6	24.2	.627	199	5.5	1.33	.75	.74	.82*	9.04	8.58	D
210	2039	686.1	42.4	182	241	154	8.40	2420	1121	197	848.0	669.1	.22	8.80	8.90	23.6	24.2	.640	200	5.6	1.34	.77	.77	.82*	9.04	8.58	D
211	2040	687.0	46.6	202	281	153	10.0	2430	1121	205	848.0	670.0	.22	8.80	8.90	23.6	24.1	.668	201	5.6	1.34	.78	.77	.82*	9.04	8.59	D
212	2041	688.0	44.2	204	256	153	10.7	2430	1122	192	849.0	670.9	.22	8.80	8.90	23.6	24.1	.695	202	5.6	1.34	.80	.80	.82*	9.04	8.59	D
213	2043	689.0	48.6	207	271	153	10.6	2430	1123	206	850.0	671.5	.17	8.80	8.90	23.6	24.0	.700	203	5.6	1.35	.78	.77	.82*	9.04	8.59	D
214	2044	690.0	43.4	190	254	154	10.4	2430	1123	198	850.0	672.6	.16	8.80	8.90	23.6	24.2	.705	204	5.6	1.35	.80	.79	.82*	9.04	8.59	D
215	2046	691.0	41.6	218	279	153	11.7	2430	1124	195	852.0	673.1	.16	8.80	8.90	23.6	24.2	.715	205	5.7	1.36	.83	.82	.82*	9.05	8.60	D
216	2047	692.1	39.7	198	264	153	10.2	2430	1121	196	853.0	673.1	.17	8.80	8.90	23.6	24.4	.722	206	5.7	1.37	.81	.81	.82*	9.06	8.60	D
217	2050	693.1	50.6	190	257	144	7.09	2500	1139	200	840.0	675.0	.16	8.80	8.90	23.7	24.6	.611	207	5.7	1.38	.70	.70	.82	9.05	8.60	DX
218	2100	694.4	50.0	242	272	150	5.12	2500	1139	209	839.0	676.9	.17	8.80	8.90	23.7	24.4	.616	208	5.8	1.38	.81	.75	.82*	9.04	8.61	D
219	2100	695.0	50.0	261	274	150	5.16	2500	1139	199	838.0	677.4	.17	8.80	8.90	23.7	24.4	.620	209	5.8	1.38	.75	.67	.82	9.04	8.61	D
220	2102	696.2	67.0	218	288	150	6.23	2500	1141	195	839.0	678.6	.16	8.80	8.90	23.7	24.1	.639	210	5.8	1.38	.76	.64	.82	9.04	8.61	D
221	2104	697.0	26.2	173	233	151	6.61	2510	1141	201	841.0	680.3	.17	8.80	8.90	23.7	23.6	.686	211	5.8	1.39	.82	.81	.82*	9.03	8.62	D
222	2107	698.0	25.0	154	211	151	6.08	2510	1139	197	843.0	682.2	.19	8.80	8.90	23.8	24.2	.743	212	5.8	1.40	.82	.81	.82*	9.03	8.62	D
223	2110	699.1	23.6	148	197	151	6.30	2510	1140	198	845.0	682.7	.19	8.80	8.90	23.8	24.7	.758	213	5.9	1.40	.83	.83	.82	9.03	8.62	D
224	2114	700.0	13.1	142	201	151	6.50	2510	1143	199	847.0	684.7	.23	8.80	8.90	23.8	24.6	.769	214	6.0	1.42	.04	.94	.82	9.02	8.62	D
225	2118	701.0	18.3	152	198	151	6.42	2500	1142	199	852.0	687.2	.23	8.80	8.90	23.8	24.5	.778	215	6.0	1.43	.88	.88	.83	9.00	8.59	D
227	2120	702.0	23.6	157	195	151	6.55	2510	1141	198	856.0	689.3	.25	8.80	8.90	23.8	24.4	.779	216	6.0	1.44	.84	.84	.83	8.98	8.58	D
228	2135	703.0	30.0	167	216	145	7.44	2490	1133	198	842.0	692.4	.16	8.80	8.90	23.8	24.7	.744	217	6.1	1.45	.82	.81	.83*	8.95	8.59	DX
229	2137	704.0	28.3	163	236	145	7.30	2490	1132	207	843.0	693.7	.16	8.80	8.90	23.8	24.7	.729	218	6.2	1.46	.82	.82	.83*	8.95	8.59	D
230	2138	705.0	43.6	197	268	143	15.2	2490	1132	207	845.0	694.7	.15	8.80	8.90	23.8	24.2	.714	219	6.2	1.46	.86	.85	.83	8.95	8.58	D
231	2140	706.0	35.1	194	247	144	11.3	2490	1133	208	846.0	696.0	.15	8.80	8.90	23.8	23.9	.722	220	6.2	1.47	.85	.85	.83	8.94	8.57	D
232	2141	707.0	50.2	197	257	144	11.9	2500	1134	194	847.0	696.5	.15	8.80	8.90	23.8	24.1	.732	221	6.2	1.47	.79	.78	.83*	8.95	8.57	D
233	2143	708.1	37.2	188	253	144	11.3	2490	1132	195	847.0	697.1	.16	8.80	8.90	23.8	24.2	.738	222	6.3	1.48	.84	.83	.83	8.96	8.57	D
234	2144	709.1	35.9	189	242	143	13.4	2500	1132	191	849.0	697.6	.17	8.80	8.90	23.8	24.2	.741	223	6.3	1.48	.86	.85	.83	8.96	8.56	D
235	2145	710.0	41.2	200	262	144	13.0	2490	1133	208	850.0	697.9	.18	8.80	8.90	23.8	24.2	.744	224	6.3	1.49	.85	.84	.83	8.97	8.56	D
236	2147	711.0	39.5	205	243	143	13.1	2490	1133	195	851.0	698.2	.20	8.80	8.90	23.8	24.2	.749	225	6.3	1.49	.85	.85	.83	8.98	8.55	D
237	2148	712.0	43.9	198	254	143	12.6	2490	1132	207	852.0	698.7	.19	8.80	8.90	23.8	24.1	.753	226	6.4	1.50	.83	.82	.84*	8.98	8.56	D
238	2159	713.0	50.4	218	273	144	13.9	2460	1122	200	840.0	700.7	.16	8.80	8.90	23.8	24.1	.643	227	6.4	1.51	.81	.81	.84*	8.97	8.56	DX
239	2201	714.1	48.9	223	263	146	12.2	2460	1122	197	840.0	701.0	.15	8.80	8.90	23.8	24.1	.643	228	6.4	1.51	.80	.79	.84*	8.98	8.56	D
240	2202	715.0	42.2	202	271	146	11.3	2450	1123	192	841.0	701.6	.17	8.80	8.90	23.7	24.2	.650	229	6.4	1.51	.82	.81	.84*	8.99	8.57	D
241	2203	716.0	37.0	219	309	145	11.8	2450	1121	193	843.0	701.7	.18	8.80	8.90	23.7	24.3	.656	230	6.5	1.52	.85	.84	.84	9.00	8.56	D
242	2204	717.0	75.6	277	340	145	14.8	2450	1121	205	845.0	701.7	.19	8.80	8.90	23.7	24.5	.661	231	6.5	1.52	.74	.73	.84	9.01	8.56	D
243	2205	718.0	52.9	229	297	146	13.4	2450	1121	205	846.0	701.7	.16	8.80	8.90	23.7	24.0	.671	232	6.5	1.52	.80	.79	.84*	9.02	8.57	D
244	2207	719.1	37.4	231	316	145	12.8	2440	1120	193	848.0	701.7	.17	8.80	8.90	23.7	23.8	.712	233	6.5	1.53	.86	.85	.84	9.03	8.56	D
245	2208	720.0	56.1	257	311	145	15.9	2460	1121	196	850.0	701.7	.16	8.80	8.90	23.7	23.9	.715	234	6.5	1.53	.81	.80	.84*	9.04	8.57	D
246	2209	721.0	48.6	229	282	145	12.7	2450	1120	188	851.0	701.7	.17	8.80	8.90	23.7	24.0	.720	235	6.6	1.54	.80	.79	.84*	9.06	8.57	D
249	2221	722.1	42.5	208	265	149	11.9	2520	1136	194	853.0	704.9	.19	8.80	8.90	23.7	24.5	.591	236	6.6	1.55	.82	.82	.84*	9.03	8.57	DX
250	2224	723.0	42.2	232	286	146	12.9	2540	1142	198	845.0	707.2	.15	8.80	8.90	23.7	24.8	.585	237	6.6	1.55	.84	.83	.84*	9.02	8.58	D
251	2225	724.0	56.9	219	209	146	13.3	2550	1141	200	846.0	707.8	.14	8.80	8.90	23.7	24.8	.584	238	6.6	1.55	.78	.77	.84*	9.02	8.58	D
252	2226	725.1	50.6	230	277	145	13.6	2540	1142	198	848.0	708.7	.14	8.80	8.90	23.7	24.5	.594	239	6.7	1.56	.81	.80	.84*	9.02	8.58	D
253	2228	726.1	50.3	244	296	145	14.8	2550	1143	201	847.0	709.5	.14	8.80	8.90	23.7	23.7	.598	240	6.7	1.56	.82	.81	.84*	9.03	8.59	D
255	2230	726.0	50.7	221	302	145	14.1	2550	1143	209	849.0	710.5	.13	8.80	8.90	23.7	24.1	.592	241	6.7	1.57	.90	.89	.84	9.03	8.56	D
255	2230	726.0	50.7	218	281	145	13.9	2550	1142	202	850.0	711.5	.14	8.80	8.90	23.7	24.3	.610	242	6.7	1.57	.81	.80	.84*	9.02	8.57	D
256	2232	729.0	43.3	226	275	145	14.3	2560	1142	209	850.0	712.2	.16	8.80	8.90	23.8	24.2	.596	243	6.8	1.57	.85	.84	.84*	9.02	8.57	D
257	2233	730.1	44.7	233	292	145	15.3	2560	1141	203	851.0	712.4	.16	8.80	8.90	23.8	23.9	.621	244	6.8	1.58	.85	.84	.84	9.03	8.57	D
258	2234	731.1	46.6	232	291	145	16.2	2560	1142	200	851.0	712.4	.17	8.80	8.90	23.8	24.5	.637	245	6.8	1.58	.85	.85	.84	9.05	8.57	D
259	2244	732.0	38.4	215	290	149	14.3	2490	1124	195	841.0	715.2	.20	8.80	8.90	23.8	24.5	.633	246	6.9	1.59	.88	.87	.84	9.03	8.55	D
260	2245	733.0	69.4	268	322	151	16.2	2490	1125	206	834.0	715.9	.19	8.80	8.90	23.8	24.6	.654	247	6.9	1.60	.78	.77	.85*	9.03	8.56	D
261	2246	734.0	43.3	201	301	152	12.9	2490	1125	194	836.0	717.3	.19	8.80	8.90	23.8	24.9	.698	248	6.9	1.60						

F#	TIME	DEPTH	ROP	TORQUE	RPM	FOI	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	(C)	RES	THIS BIT	EST	DXC	NXB	ECD	NMXD			
		m	m/hr	AVG	MAX	AVG	PRES	GPM	SRH	bbt	DEPTH	%	IN	OUT	OUT	m	hrs	TW						
262	2249	735.1	27.5	163	225	153	7.87	2500	1126	194	838.0	718.8	16	8.80	8.90	23.8	24.7	729	.84	.85*	9.02	8.56	D	
263	2250	736.0	35.2	177	258	153	9.38	2500	1126	199	839.0	720.3	16	8.80	8.90	23.8	24.2	740	.83	.85*	9.01	8.57	D	
264	2253	737.0	33.7	162	237	153	8.86	2500	1124	192	842.0	721.2	14	8.80	8.90	23.8	24.5	757	.89	.88	.85	9.01	8.55	D
265	2256	738.0	21.1	162	238	153	9.56	2490	1123	196	849.0	721.2	17	8.80	8.90	23.8	24.6	770	.93	.92	.85*	9.03	8.52	D
266	2258	739.0	25.5	169	221	153	10.2	2490	1125	194	849.0	721.4	18	8.80	8.90	23.9	24.8	779	.90	.89	.85	9.03	8.49	D
267	2300	740.0	24.3	170	250	153	10.4	2500	1124	190	852.0	721.9	18	8.80	8.90	23.9	24.8	785	.91	.91	.86	9.04	8.46	D
268	2302	741.0	35.3	177	238	153	12.7	2500	1125	197	853.0	723.3	17	8.80	8.90	23.9	24.8	785	.88	.87	.86	9.04	8.46	D
269	2313	742.1	32.9	181	275	151	11.1	2550	1140	198	845.0	729.3	13	8.80	8.90	23.9	24.7	570	.87	.86	.86	8.97	8.46	D
270	2315	743.1	43.9	177	252	151	8.21	2560	1142	209	842.0	730.3	13	8.80	8.90	24.0	24.6	572	.77	.76	.86	8.98	8.46	D
271	2316	744.0	30.3	176	225	151	8.01	2560	1140	209	842.0	731.1	11	8.80	8.90	24.0	24.6	570	.83	.82	.86*	8.98	8.46	D
272	2318	745.0	34.1	182	238	151	8.69	2560	1142	200	841.0	731.1	11	8.80	8.90	24.0	24.4	574	.82	.81	.86*	8.99	8.47	D
273	2320	746.0	30.5	169	230	151	7.78	2560	1142	198	844.0	731.1	11	8.80	8.90	24.0	24.1	584	.82	.81	.86*	9.00	8.47	D
274	2322	747.0	26.2	166	221	151	8.01	2560	1141	195	848.0	732.0	13	8.80	8.90	24.0	24.6	571	.85	.85	.86*	9.01	8.47	D
275	2324	748.0	34.6	174	246	151	8.71	2560	1141	209	852.0	733.3	13	8.80	8.90	24.0	24.8	582	.82	.81	.86*	9.00	8.48	D
276	2325	749.0	41.0	183	265	151	10.2	2560	1139	200	850.0	734.1	13	8.80	8.90	24.0	24.9	594	.81	.80	.86*	9.00	8.48	D
277	2327	750.0	37.3	160	230	151	9.00	2560	1140	197	857.0	734.8	11	8.98	8.90	24.0	24.9	595	.81	.80	.86*	9.00	8.48	D
278	2328	751.0	38.6	179	231	151	10.0	2560	1139	209	857.0	735.7	12	8.95	8.90	24.0	24.9	607	.82	.81	.86*	9.01	8.49	D
279	2340	752.0	26.9	166	237	153	9.19	2510	1128	207	842.0	738.7	09	8.95	8.86	24.0	24.7	564	.88	.87	.86	8.98	8.48	DX
280	2341	753.0	41.2	165	239	154	11.2	2510	1128	194	834.0	739.3	10	8.95	9.00	24.0	24.7	565	.83	.82	.86*	8.99	8.49	D
281	2343	754.1	33.6	185	240	154	12.2	2520	1128	197	833.0	740.4	14	8.95	9.05	24.1	24.7	564	.86	.85	.86*	9.01	8.48	D
282	2344	755.1	39.6	183	255	154	13.0	2520	1126	194	836.0	741.1	14	8.95	9.03	24.1	24.4	569	.86	.85	.86*	9.02	8.48	D
283	2346	756.0	49.5	190	246	154	13.2	2520	1130	196	836.0	741.2	14	8.95	8.96	24.1	24.2	572	.82	.81	.86*	9.05	8.49	D
284	2347	757.0	39.5	185	265	154	13.5	2520	1128	193	835.0	741.2	13	8.95	8.99	24.1	24.5	568	.86	.85	.86*	9.07	8.49	D
285	2348	758.0	65.1	234	310	153	18.2	2520	1128	191	836.0	741.2	13	8.95	8.99	24.1	24.7	567	.81	.80	.86*	9.08	8.49	D
286	2349	759.0	68.3	239	312	153	20.0	2530	1128	194	837.0	741.2	13	8.95	9.01	24.1	24.9	564	.82	.81	.86*	9.10	8.50	D
287	2350	760.0	57.8	232	288	153	19.3	2530	1128	188	836.0	741.2	14	8.95	8.99	24.1	24.9	573	.85	.84	.86*	9.11	8.50	D
Date Oct 17 '84																								
288	0002	761.0	50.0	201	289	154	16.2	2400	1095	189	838.0	744.4	14	8.98	8.98	24.2	24.9	605	.84	.83	.86*	9.17	8.50	DX
289	0003	762.0	50.4	193	252	156	13.4	2410	1095	192	840.0	745.0	15	8.92	9.06	24.2	25.0	599	.80	.80	.86*	9.19	8.51	D
290	0005	763.0	33.6	191	243	156	13.7	2420	1096	192	838.0	745.9	14	8.89	9.03	24.2	24.8	588	.89	.88	.87	9.21	8.50	D
291	0007	764.0	26.6	191	248	156	12.7	2410	1095	189	840.0	746.9	14	8.88	9.04	24.2	24.0	615	.92	.91	.87	9.23	8.48	D
292	0009	765.0	23.9	195	244	156	12.3	2410	1098	192	840.0	748.4	12	8.92	8.99	24.2	23.8	603	.93	.92	.87	9.24	8.45	D
293	0011	766.0	51.5	240	317	155	16.8	2410	1096	189	835.0	749.0	13	8.92	8.99	24.2	24.2	604	.83	.82	.87*	9.27	8.45	D
294	0011	767.0	67.2	243	294	155	17.3	2410	1096	201	833.0	749.5	14	8.84	9.04	24.3	24.3	603	.78	.77	.87	9.28	8.45	D
295	0013	768.0	53.0	223	273	155	16.6	2420	1096	194	839.0	750.1	15	8.84	9.04	24.3	24.6	606	.82	.81	.87*	9.29	8.46	D
296	0014	769.0	43.6	201	283	155	15.5	2410	1096	194	841.0	750.7	16	8.85	9.09	24.3	24.7	607	.85	.84	.87*	9.29	8.46	D
297	0015	770.0	49.6	224	286	155	18.4	2420	1095	190	843.0	750.9	18	8.91	9.11	24.2	24.7	620	.86	.85	.87*	9.30	8.47	D
298	0025	771.1	55.2	218	279	153	15.4	2560	1131	195	826.0	751.4	19	8.94	8.80	24.2	24.9	557	.80	.79	.87*	9.33	8.47	DX
299	0026	772.1	34.7	187	250	151	10.9	2560	1131	207	812.0	752.3	18	8.89	9.06	24.1	25.0	557	.82	.82	.87*	9.33	8.47	D
300	0028	773.0	29.5	198	259	152	11.8	2560	1132	192	815.0	753.5	17	8.87	9.10	24.1	24.6	568	.87	.86	.87*	9.32	8.48	D
301	0029	774.0	41.3	201	262	152	12.9	2560	1132	198	816.0	754.5	17	8.86	9.07	24.2	24.7	569	.82	.81	.87*	9.31	8.48	D
302	0031	775.0	37.0	218	281	152	13.9	2560	1132	195	818.0	755.5	17	8.95	9.01	24.2	24.1	580	.86	.85	.87*	9.31	8.48	D
303	0033	776.0	30.8	175	244	152	12.4	2570	1133	208	816.0	756.9	16	8.90	9.10	24.2	24.4	581	.87	.87	.87*	9.30	8.49	D
304	0034	777.0	42.4	182	235	152	12.3	2570	1134	208	816.0	758.5	17	8.86	9.10	24.2	24.8	573	.80	.80	.87*	9.29	8.49	D
305	0036	778.0	30.3	171	259	153	11.8	2560	1135	196	817.0	760.2	17	8.88	9.15	24.2	24.9	573	.87	.86	.87*	9.26	8.49	D
306	0037	779.1	52.4	193	263	152	13.9	2570	1130	199	818.0	760.2	17	8.88	9.15	24.2	24.9	576	.79	.78	.87	9.27	8.49	D
307	0047	780.0	32.2	181	227	152	11.9	2490	1107	193	807.0	762.1	18	9.05	8.10	24.2	24.8	556	.87	.86	.87*	9.21	8.50	DX
308	0049	781.1	54.9	221	273	151	13.4	2490	1108	203	795.0	762.8	17	9.04	9.05	24.2	25.0	554	.78	.77	.87	9.20	8.50	D
309	0050	782.0	44.0	194	252	150	12.4	2490	1108	193	794.0	763.2	17	8.85	9.10	24.2	25.0	560	.81	.80	.87*	9.18	8.51	D
310	0051	783.0	37.2	179	231	151	11.4	2490	1109	197	794.0	763.9	16	8.88	9.13	24.2	24.9	563	.83	.82	.87*	9.19	8.51	D

FW	TIME	DEPTH	RUP	TORQUE	RPM	FOB	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	(C)	RES	THIS BIT	EST	DXC	NX	NXB	ECD	NXMD	
		m	in/hr	AVG	MAX	AVG	PRES	QPM	SPM	DBI	DEPTH	%	IN	OUT	OUT	m	hrs	TW					
311	0053	784.0	42.7	168	235	151	10.4	1109	192	795.0	764.6	.16	8.88	9.14	24.3	24.6	8.4	1.88	.79	.78	.88	9.18 8.51 D	
312	0055	785.0	31.0	180	278	151	10.4	1108	203	797.0	766.1	.15	8.90	9.14	24.3	24.1	8.4	1.89	.85	.84	.87	9.16 8.52 D	
313	0056	786.0	59.6	216	291	151	12.9	1109	203	798.0	767.2	.15	8.90	9.14	24.3	24.3	8.4	1.89	.76	.75	.88	9.14 8.52 D	
314	0057	787.1	52.5	224	285	150	15.1	1109	203	798.0	768.1	.15	8.84	9.16	24.3	24.4	8.4	1.89	.81	.81	.88	9.14 8.52 D	
315	0059	788.0	26.1	211	300	151	13.9	1108	194	799.0	769.7	.16	8.78	9.17	24.3	24.6	8.5	1.90	.94	.93	.88	9.15 8.49 D	
316	0100	789.0	80.8	265	344	150	18.7	1108	194	799.0	769.9	.16	8.78	9.17	24.3	24.6	8.5	1.90	.74	.73	.88	9.15 8.49 D	
317	0100	790.1	63.9	258	327	149	18.5	1108	195	799.0	770.2	.16	8.88	9.14	24.3	24.7	8.5	1.90	.81	.80	.88	9.17 8.50 D	
318	0109	791.0	60.3	218	284	149	14.3	1104	202	796.0	771.4	.17	9.00	9.17	24.3	24.9	8.6	1.91	.77	.76	.88	9.16 8.50 DX	
319	0111	792.0	51.6	220	279	149	14.7	1104	190	795.0	772.0	.16	8.97	9.14	24.3	25.0	8.6	1.91	.81	.80	.88	9.17 8.51 D	
320	0112	793.0	44.2	233	287	148	15.2	1105	187	795.0	772.7	.15	9.00	9.12	24.3	24.9	8.6	1.92	.85	.84	.88	9.17 8.51 D	
321	0113	794.0	58.7	243	296	148	16.1	1106	189	798.0	773.4	.14	9.00	9.12	24.3	24.8	8.6	1.92	.80	.79	.88	9.17 8.51 D	
322	0114	795.0	54.0	234	299	148	14.8	1106	192	799.0	774.0	.15	9.00	9.15	24.3	24.7	8.6	1.92	.80	.79	.88	9.18 8.51 D	
323	0116	796.0	35.7	189	276	149	13.0	1105	194	800.0	774.9	.16	8.97	9.15	24.3	24.1	8.7	1.93	.86	.85	.88	9.17 8.52 D	
324	0117	797.0	45.4	201	266	149	13.4	1106	194	799.0	775.7	.15	8.97	9.15	24.3	24.1	8.7	1.93	.82	.81	.88	9.17 8.52 D	
325	0118	798.0	43.0	188	253	149	13.9	1105	196	801.0	776.4	.16	8.90	9.14	24.3	24.3	8.7	1.94	.83	.82	.88	9.18 8.53 D	
326	0119	799.0	54.9	207	275	149	15.0	1106	203	800.0	777.0	.15	8.90	9.14	24.3	24.5	8.7	1.94	.80	.79	.88	9.18 8.53 D	
327	0128	800.0	53.1	203	283	147	15.1	1124	206	797.0	779.4	.18	9.00	9.10	24.3	24.7	8.8	1.95	.80	.80	.88	9.17 8.53 DX	
328	0129	801.0	54.1	221	307	146	14.9	1126	191	795.0	779.4	.18	9.00	9.10	24.3	24.8	8.8	1.95	.80	.79	.88	9.19 8.53 D	
329	0130	802.1	57.7	221	284	146	14.8	1125	198	797.0	779.4	.18	9.03	9.06	24.3	24.7	8.8	1.95	.78	.77	.88	9.20 8.53 D	
330	0131	803.0	40.5	209	301	147	14.1	1126	200	798.0	779.9	.18	8.99	9.04	24.3	24.6	8.8	1.96	.84	.84	.88	9.22 8.54 D	
331	0133	804.1	43.9	192	258	147	13.7	1125	196	799.0	780.8	.18	8.93	9.01	24.3	24.3	8.9	1.96	.82	.81	.88	9.22 8.55 D	
332	0134	805.0	48.2	207	269	147	14.7	1126	206	800.0	781.6	.19	8.94	8.96	24.3	24.1	8.9	1.96	.82	.81	.88	9.22 8.55 D	
333	0135	806.0	50.1	228	277	147	14.6	1124	196	801.0	782.4	.20	8.94	8.96	24.3	23.8	8.9	1.97	.81	.80	.88	9.22 8.55 D	
334	0136	807.1	49.1	257	312	146	16.9	1125	206	802.0	783.2	.24	8.93	8.80	24.3	23.6	8.9	1.97	.83	.83	.88	9.23 8.56 D	
335	0137	808.1	56.7	244	291	146	16.0	1124	193	801.0	783.9	.25	8.91	8.72	24.3	23.6	8.9	1.97	.79	.79	.88	9.24 8.56 D	
336	0144	809.0	51.4	215	288	147	15.8	1105	202	799.0	786.5	.31	8.92	8.90	24.3	23.6	9.0	1.98	.82	.81	.88	9.22 8.56 DX	
337	0145	810.0	60.3	232	314	146	19.6	1106	192	798.0	787.0	.32	9.02	8.95	24.2	23.8	9.0	1.98	.82	.81	.88	9.23 8.57 D	
338	0147	811.0	46.7	197	267	148	15.0	1107	194	797.0	787.8	.35	8.92	8.85	24.2	24.2	9.0	1.98	.83	.82	.88	9.23 8.57 D	
339	0148	812.0	35.1	216	286	147	15.9	1108	195	797.0	789.2	.31	8.92	8.86	24.2	24.3	9.0	1.99	.90	.89	.88	9.22 8.57 D	
340	0151	814.0	42.8	242	297	146	18.4	1109	191	801.0	789.2	.28	8.96	8.73	24.1	24.3	9.1	2.00	.88	.87	.88	9.24 8.57 D	
341	0152	815.0	48.3	243	291	146	17.3	1108	203	799.0	789.5	.27	8.91	8.85	24.1	24.5	9.1	2.00	.84	.83	.88	9.25 8.58 D	
Pump viscous pill and circulate bottoms up at 815 m																							
NB#5 SM1111 SXCH 17.5" : Jets 22:22:22, drill cement from 786 m, new formation from 815 m																							
Date Oct 20 '84																							
348	2318	816.0	19.5	165	350	60	5.32	1108	201	754.0	804.0	.01	9.29	9.04	18.4	18.5	1.7	1.4	0.00	.65	.66	.88	9.46 8.58 DX
349	2328	817.0	23.1	169	259	79	14.6	1119	195	752.0	804.6	.01	9.39	9.61	18.2	18.5	2.0	1.5	.01	.82	.82	.88	9.47 8.58 DX
350	2328	818.0	3.20	169	240	79	14.6	1119	205	752.0	804.6	.01	9.39	9.61	18.2	18.5	3.0	1.5	.01	1.27	1.28	.88	9.47 8.58 D
352	2345	819.2	5.47	204	381	70	22.9	1119	194	734.0	807.5	.05	9.32	9.70	17.7	18.8	3.9	1.8	.06	1.19	1.20	.89	9.50 8.58 D
354	2354	820.0	7.47	243	394	64	22.8	1116	190	727.0	816.6	.11	9.39	9.61	17.7	18.7	4.9	1.9	.08	1.11	1.12	.89	9.45 8.58 D
Date Oct 21 '84																							
358	0145	821.0	8.23	203	360	68	22.4	1105	179	689.0	820.1	.04	9.28	9.52	18.8	14.7	5.5	2.0	.09	1.09	1.11	.89	9.46 8.58 D
359	0151	822.0	19.3	223	412	68	23.3	1106	176	685.0	820.1	.04	9.26	9.49	18.5	14.2	7.0	2.1	.11	.92	.93	.89	9.44 8.56 D
360	0158	823.1	12.7	253	417	73	24.8	1106	175	679.0	820.1	.06	9.29	9.54	17.7	18.3	7.9	2.2	.12	1.04	1.05	.89	9.42 8.56 D
361	0200	824.1	27.1	277	407	80	22.9	1106	175	680.0	820.1	.07	9.40	9.50	17.3	18.8	8.9	2.3	.13	.87	.88	.89	9.43 8.57 D
362	0202	825.0	32.5	336	415	79	22.7	1106	176	680.0	820.1	.06	9.42	9.50	17.0	18.9	10.0	2.3	.13	.83	.84	.89	9.44 8.57 D
363	0204	826.1	35.6	323	416	78	23.3	1107	175	681.0	820.1	.05	9.43	9.45	16.7	19.1	10.9	2.3	.14	.81	.82	.89	9.45 8.58 D
364	0206	827.1	20.9	319	413	79	24.2	1104	173	680.0	820.1	.04	9.40	9.50	16.4	19.5	11.9	2.4	.15	.94	.95	.89	9.46 8.55 D
365	0209	828.0	22.4	291	410	80	23.1	1106	175	681.0	820.1	.03	9.39	9.47	16.3	19.7	12.9	2.4	.15	.92	.92	.89	9.47 8.53 D
366	0223	829.3	41.3	259	407	86	23.3	1102	174	673.0	820.2	.02	9.40	9.57	17.1	18.8	13.9	2.5	.18	.80	.80	.90	9.49 8.53 DX

F#	TIME	DEPTH	ROP	TORQUE	RPM	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	(C)	RES	THIS BIT	EST	DXC	NX	NXB	EC	NWD		
		m	m/hr	AVG	MAX	AVG	GPM	SPR	BDI	DEPTH	%	IN	OUT	IN	OUT	hrs	TW						
367	0225	830.1	44.7	283	344	88	23.1	1840	1002	175	673.0	820.4	.02	9.40	9.51	17.2	18.6	.085	.78	.79	.90	9.50	8.53
368	0226	831.1	61.0	238	337	86	21.2	1840	1003	173	673.0	820.4	.02	9.42	9.56	17.2	18.3	.085	.70	.70	.90	9.51	8.53
369	0227	832.1	32.2	230	323	84	21.0	1840	1004	175	673.0	820.5	.02	9.41	9.59	17.3	17.2	.087	.83	.83	.90*	9.53	8.55
370	0228	833.2	61.6	240	313	86	21.7	1830	1003	177	672.0	820.8	.01	9.44	9.63	17.4	17.6	.086	.70	.70	.90	9.54	8.55
371	0230	834.0	56.9	260	343	84	21.5	1830	1003	177	670.0	821.2	.01	9.40	9.62	17.5	18.1	.085	.71	.71	.90	9.55	8.55
372	0231	835.1	64.6	279	343	84	25.3	1830	1003	184	674.0	821.5	.01	9.47	9.59	17.5	18.3	.085	.70	.71	.90	9.56	8.55
373	0233	836.1	41.4	274	359	84	25.3	1830	1002	172	675.0	821.7	.01	9.49	9.55	17.6	18.4	.084	.81	.81	.90	9.58	8.55
374	0302	837.3	76.1	257	346	83	19.3	1870	947	174	682.0	822.2	.02	9.36	9.66	17.7	17.0	.088	.63	.63	.90	9.61	8.55
375	0304	838.1	36.2	329	415	83	20.7	1860	1002	179	670.0	823.2	.03	9.33	9.59	17.8	16.9	.093	.78	.79	.90	9.63	8.55
376	0306	839.0	34.7	269	389	86	18.7	1860	1003	179	667.0	823.7	.05	9.36	9.66	17.8	16.7	.091	.79	.79	.90	9.64	8.55
377	0308	840.0	32.0	254	328	85	19.2	1870	1005	173	666.0	824.6	.03	9.41	9.60	17.8	16.5	.093	.81	.81	.90	9.64	8.55
379	0309	841.0	65.5	257	345	86	19.7	1870	1005	176	662.0	824.8	.03	9.41	9.60	17.8	16.7	.104	.66	.66	.90	9.64	8.55
380	0310	842.0	39.2	242	328	84	20.0	1870	1005	172	662.0	825.4	.03	9.65	9.58	17.7	16.9	.101	.77	.77	.90	9.64	8.55
381	0312	843.2	34.1	241	331	85	20.3	1870	1004	170	662.0	826.2	.03	9.56	9.54	17.7	16.6	.098	.80	.80	.90	9.64	8.55
382	0315	844.0	25.3	229	317	87	19.2	1870	1004	172	663.0	826.9	.01	9.60	9.48	17.5	16.6	.095	.86	.86	.90*	9.66	8.59
383	0315	845.0	17.1	234	339	85	20.2	1880	1005	172	663.0	827.0	.01	9.60	9.48	17.5	16.8	.091	.46	.46	.90	9.66	8.59
384	0318	846.2	26.7	224	331	85	19.2	1880	1003	184	664.0	827.1	.03	9.60	9.47	17.3	18.2	.088	.84	.84	.90*	9.70	8.59
385	0331	847.1	57.5	259	381	105	20.0	1890	1004	175	675.0	828.8	.07	9.48	9.50	16.9	18.1	.108	.72	.72	.90	9.71	8.59
386	0333	848.2	34.4	283	373	120	23.4	1890	1020	176	667.0	830.3	.09	9.34	9.58	16.9	18.2	.111	.88	.88	.90*	9.73	8.60
387	0334	849.2	61.2	263	361	119	21.7	1890	1019	177	664.0	831.0	.08	9.39	9.63	16.9	18.1	.099	.74	.74	.90	9.73	8.60
388	0335	850.0	30.8	258	363	120	19.2	1890	1020	172	663.0	832.2	.08	9.47	9.61	16.9	18.1	.106	.86	.86	.90*	9.73	8.61
389	0337	851.1	52.4	261	336	121	20.6	1890	1020	180	660.0	833.5	.08	9.64	9.57	16.9	18.1	.106	.77	.77	.90	9.73	8.61
390	0339	852.0	27.2	254	346	121	18.6	1900	1020	174	662.0	835.1	.09	9.72	9.56	17.0	17.8	.096	.89	.89	.90*	9.72	8.61
391	0341	853.1	35.9	268	341	120	20.3	1900	1021	174	659.0	835.8	.09	9.68	9.57	17.0	16.9	.114	.84	.84	.90*	9.73	8.62
393	0343	854.0	30.1	272	354	120	19.9	1900	1020	181	656.0	835.9	.06	9.69	9.59	17.1	17.8	.117	.87	.87	.90*	9.75	8.62
394	0345	855.2	27.3	241	325	119	17.8	1900	1021	181	655.0	835.9	.08	9.68	9.59	17.1	18.3	.111	.81	.81	.90	9.76	8.62
397	0355	856.0	26.7	253	345	118	19.0	1870	1004	184	654.0	839.4	.08	9.50	9.60	17.2	17.9	.086	.88	.88	.90*	9.77	8.62
398	0358	857.0	19.5	249	348	112	20.8	1860	1005	172	641.0	841.2	.08	9.05	9.46	17.2	17.8	.088	.96	.96	.90	9.77	8.60
399	0402	858.0	18.4	308	405	112	20.3	1870	1005	178	636.0	843.5	.10	9.21	9.48	17.3	17.7	.110	.97	.97	.91*	9.73	8.57
400	0404	859.1	31.8	255	405	118	19.6	1870	1006	177	637.0	845.0	.09	9.30	9.50	17.3	17.7	.129	.86	.86	.91*	9.68	8.57
401	0405	860.0	75.8	241	317	119	16.9	1870	1007	177	633.0	845.0	.07	9.30	9.50	17.3	17.7	.130	.66	.66	.91	9.69	8.57
402	0408	861.1	25.2	248	346	120	18.3	1870	1007	178	635.0	846.3	.08	9.34	9.46	17.3	17.7	.156	.91	.91	.91*	9.66	8.58
403	0409	862.1	70.1	235	321	121	18.3	1870	1008	174	634.0	846.3	.08	9.39	9.58	17.3	17.8	.159	.70	.70	.91	9.66	8.58
404	0412	863.1	25.1	250	321	120	17.4	1870	1007	172	634.0	846.3	.10	9.43	9.59	17.3	18.3	.163	.89	.89	.91*	9.65	8.58
405	0414	864.0	39.5	225	332	119	17.9	1870	1007	174	634.0	847.8	.13	9.44	9.51	17.3	18.4	.164	.81	.81	.91	9.62	8.58
406	0416	865.1	34.6	240	330	120	20.0	1870	1004	169	631.0	848.2	.11	9.40	9.56	17.3	18.3	.165	.86	.86	.91*	9.61	8.59
407	0427	866.0	36.3	241	342	118	17.3	1880	1005	179	620.0	852.1	.12	9.64	9.70	17.4	18.2	.167	.83	.82	.91*	9.59	8.59
408	0428	867.4	3.9	266	338	116	18.7	1870	1006	177	612.0	853.0	.14	9.73	9.80	16.6	18.4	.167	.80	.80	.91	9.58	8.59
409	0433	869.1	26.1	227	335	117	16.6	1870	1006	174	605.0	855.3	.17	9.69	9.68	15.4	16.6	.167	.88	.88	.91*	9.56	8.60
410	0436	870.0	32.3	250	345	117	16.8	1880	1006	184	599.0	855.5	.14	9.82	9.70	15.3	16.8	.168	.84	.84	.91*	9.58	8.60
411	0437	871.0	35.2	242	316	119	17.4	1880	1005	174	598.0	855.5	.15	9.82	9.68	15.3	16.8	.167	.83	.83	.91*	9.58	8.61
412	0438	872.0	84.8	239	327	117	16.1	1880	1006	184	599.0	855.7	.10	9.87	9.70	15.3	17.4	.167	.64	.64	.91	9.59	8.61
413	0439	874.1	33.7	263	361	117	20.9	1880	1006	184	598.0	856.0	.06	9.73	9.68	15.4	18.3	.167	.87	.87	.91*	9.61	8.61
414	0440	874.0	57.2	258	331	116	19.5	1880	1006	177	597.0	856.2	.07	9.80	9.74	15.3	18.4	.166	.91	.91	.91	9.61	8.61
415	0457	875.0	47.0	229	344	113	12.9	1900	997	183	581.0	860.8	.07	9.58	9.60	15.6	18.3	.087	.71	.70	.91	9.76	8.61
416	0500	876.0	30.5	249	350	120	19.2	1890	999	176	578.0	861.6	.06	9.50	9.79	15.3	18.3	.087	.86	.86	.91*	9.79	8.62
417	0502	877.0	32.0	266	367	120	18.0	1890	998	177	576.0	862.7	.07	9.50	9.71	14.8	18.7	.087	.84	.84	.91*	9.82	8.63
418	0504	878.0	38.2	251	325	120	17.1	1890	999	177	575.0	863.7	.07	9.50	9.70	14.6	18.7	.088	.79	.79	.91	9.82	8.63
419	0505	879.2	54.9	252	341	121	18.2	1890	999	176	574.0	863.9	.07	9.50	9.70	14.8	18.6	.088	.74	.73	.91	9.85	8.63
420	0507	880.0	27.7	231	389	132	15.0	1870	1000	179	582.0	864.8	.06	9.50	9.68	15.2	18.4	.088	.85	.85	.91*	9.80	8.64

FW	TIME	DEPTH	KOP	TORQUE		RPM	FOB	PUMP	MUD	FLOW	PVT	RETURNS		GAS		TEMP		RES	THIS	BIT	EST	DXC	NX	NXB	FCD	NXMD
				AVG	MAX							DEPTH	IN	OUT	IN	OUT	OUT									
421	0509	881.0	29.3	254	352	136	17.8	1890	1000	171	575.0	865.1	0.07	9.50	9.58	17.1	18.4	0.088	65.9	4.2	62	.91	.90	.91*	9.84 8.64 D	
422	0511	882.1	27.0	246	341	137	16.5	1890	1001	172	575.0	866.2	0.09	9.70	9.48	17.8	18.6	0.088	66.9	4.3	63	.94	.93	.91	9.83 8.63 D	
423	0514	883.0	16.3	249	315	136	17.4	1900	999	183	578.0	867.5	0.08	9.70	9.48	17.8	18.6	0.088	68.0	4.3	65	1.07	1.06	.91	9.83 8.63 D	
424	0528	884.2	52.1	266	342	137	14.4	1940	1009	180	604.0	872.2	0.09	9.87	9.65	18.0	18.3	0.093	69.0	4.3	66	.82	.81	.91	9.82 8.63 DX	
425	0530	885.2	43.5	267	351	139	19.9	1940	1011	176	601.0	872.8	0.08	9.82	9.42	18.0	18.3	0.095	69.9	4.4	67	.92	.91	.91*	9.80 8.64 D	
426	0532	886.0	28.3	276	377	140	18.3	1940	1012	179	601.0	873.9	0.08	9.84	9.50	18.0	18.2	0.104	71.0	4.4	68	1.00	.99	.92*	9.82 8.62 D	
427	0533	887.0	62.7	267	342	141	16.9	1940	1011	185	601.0	874.1	0.08	9.84	9.50	18.0	18.2	0.098	72.0	4.4	69	.81	.80	.92	9.82 8.62 D	
428	0534	888.1	49.7	260	362	140	18.3	1940	1012	179	601.0	874.1	0.07	9.85	9.50	18.0	18.2	0.102	73.0	4.5	70	.87	.86	.92*	9.87 8.62 D	
429	0536	889.1	42.5	268	343	142	18.2	1940	1012	176	602.0	874.1	0.05	9.85	9.51	18.0	18.0	0.104	74.0	4.5	71	.91	.90	.92*	9.87 8.63 D	
430	0538	890.3	34.2	251	340	142	17.0	1950	1011	175	600.0	874.5	0.05	9.93	9.52	18.0	17.6	0.123	75.0	4.5	72	.94	.93	.92	9.87 8.62 D	
431	0542	892.0	34.2	284	360	134	20.2	1960	1011	176	600.0	874.8	0.07	9.85	9.55	17.9	18.7	0.119	76.9	4.6	74	.97	.96	.92	9.84 8.60 D	
432	0551	893.0	41.3	236	311	128	16.9	1940	1002	177	601.0	877.1	0.09	9.86	9.46	17.8	18.6	0.128	77.8	4.6	75	.88	.87	.92*	9.84 8.61 DX	
433	0553	894.1	38.6	250	310	126	18.7	1940	1004	172	599.0	878.2	0.11	9.89	9.53	17.8	18.6	0.115	78.9	4.6	75	.91	.90	.92*	9.84 8.61 D	
434	0553	895.0	66.9	232	298	127	16.8	1940	1005	172	597.0	878.8	0.12	9.91	9.52	17.9	18.6	0.108	79.8	4.7	76	.77	.76	.92	9.81 8.61 D	
435	0555	896.2	39.7	259	330	127	17.3	1940	1005	174	596.0	879.8	0.08	9.50	9.57	17.9	18.6	0.122	80.9	4.7	77	.88	.87	.92*	9.83 8.62 D	
436	0556	897.1	59.6	238	320	127	16.6	1940	1003	175	595.0	880.4	0.08	9.50	9.57	17.9	18.5	0.125	81.9	4.7	77	.78	.77	.92	9.86 8.62 D	
437	0559	898.0	18.8	215	340	128	18.1	1940	1005	184	596.0	881.8	0.09	9.50	9.63	17.9	18.5	0.146	83.0	4.8	78	1.01	1.00	.93	9.81 8.58 D	
438	0600	899.2	83.5	262	355	127	18.5	1950	1005	179	594.0	882.4	0.09	9.50	9.60	17.9	18.2	0.157	83.9	4.8	79	.68	.68	.93	9.84 8.58 D	
439	0603	900.0	25.6	243	356	128	17.6	1940	1006	178	591.0	883.1	0.08	9.50	9.69	17.9	18.2	0.168	84.9	4.8	80	.88	.88	.93*	9.95 8.59 D	
440	0604	901.3	74.6	267	348	138	16.5	1960	1005	171	590.0	883.5	0.07	9.50	9.62	17.9	18.5	0.178	85.9	4.8	81	.67	.66	.93	10.0 8.59 D	
441	0606	902.1	28.5	232	361	138	14.6	1940	1005	184	587.0	883.5	0.07	9.50	9.57	17.9	18.6	0.154	87.0	4.9	82	.83	.82	.93	10.1 8.59 D	
442	0620	903.2	32.1	253	368	140	14.5	1980	1009	174	586.0	885.4	0.09	9.50	9.62	17.9	18.7	0.159	88.0	4.9	83	.82	.81	.93	9.99 8.59 DX	
443	0621	904.5	76.6	275	343	142	17.3	1980	1011	179	579.0	885.9	0.10	9.50	9.61	18.0	18.6	0.155	88.9	4.9	84	.68	.67	.93	9.98 8.59 D	
444	0623	906.2	44.3	237	325	142	12.8	1980	1011	176	580.0	887.4	0.09	9.50	9.72	18.0	18.5	0.144	91.0	5.0	85	.74	.73	.93	9.98 8.59 D	
445	0624	907.1	87.1	258	341	142	15.0	1980	1012	176	581.0	887.9	0.11	9.50	9.72	18.0	18.5	0.143	92.0	5.0	85	.64	.63	.93	9.97 8.59 D	
446	0625	908.0	56.1	252	329	141	13.8	1980	1012	185	580.0	888.6	0.09	9.50	9.66	18.0	18.4	0.143	92.6	5.0	86	.71	.70	.93	9.96 8.59 D	
447	0627	909.2	44.5	240	321	141	14.0	1980	1012	173	579.0	889.6	0.12	9.50	9.76	18.0	18.2	0.154	93.8	5.0	87	.75	.74	.93	9.96 8.59 D	
448	0629	910.2	31.9	239	332	141	14.9	2120	1007	177	578.0	890.9	0.11	9.50	9.80	18.0	17.3	0.148	95.0	5.1	88	.83	.82	.93	9.95 8.59 D	
449	0630	911.0	39.7	235	310	139	13.5	2120	1004	173	577.0	891.6	0.06	9.50	9.69	18.0	18.2	0.152	95.9	5.1	88	.77	.76	.93	9.94 8.59 D	
450	0643	912.1	53.5	237	315	139	13.2	2130	982	180	570.0	894.6	0.05	9.50	9.74	17.9	18.8	0.090	96.8	5.1	89	.72	.71	.93	9.86 8.59 DX	
451	0644	913.2	59.9	266	340	138	16.3	2120	994	172	564.0	895.9	0.09	9.50	9.69	17.9	18.7	0.089	98.0	5.1	90	.73	.72	.93	9.82 8.59 D	
452	0645	914.0	61.0	289	369	138	18.4	2100	996	175	561.0	896.6	0.08	9.50	9.55	18.0	18.7	0.091	98.9	5.2	91	.75	.74	.93	9.83 8.59 D	
453	0648	915.1	34.7	242	322	139	16.5	1950	997	183	561.0	897.6	0.08	9.50	9.55	18.0	18.7	0.090	100	5.2	92	.84	.83	.94	9.81 8.59 D	
454	0649	916.1	48.5	259	334	139	15.8	2100	996	170	557.0	898.0	0.07	9.50	9.55	18.0	18.7	0.090	101	5.2	93	.77	.76	.94	9.81 8.59 D	
455	0652	917.1	19.4	225	318	140	12.6	2090	996	182	556.0	899.8	0.10	9.50	9.61	18.0	18.6	0.092	102	5.3	94	.90	.89	.93*	9.78 8.64 D	
456	0653	918.1	67.7	232	314	140	14.5	2110	997	173	557.0	900.3	0.11	9.50	9.69	18.0	18.6	0.093	103	5.3	94	.69	.68	.93	9.78 8.64 D	
457	0654	919.0	25.0	266	339	140	18.4	2100	997	172	556.0	901.4	0.10	9.50	9.70	18.0	18.8	0.098	104	5.3	95	.93	.92	.93*	9.77 8.65 D	
458	0656	920.1	45.2	242	360	139	19.1	1950	997	171	555.0	901.9	0.09	9.50	9.69	18.1	18.8	0.102	105	5.3	96	.82	.81	.93	9.78 8.65 D	
459	0657	921.0	52.2	277	354	139	20.2	1990	997	171	555.0	902.2	0.08	9.50	9.69	18.1	18.7	0.115	106	5.4	97	.80	.79	.93	9.78 8.65 D	
460	0659	922.0	43.6	270	346	139	18.4	1950	995	182	555.0	902.3	0.10	9.50	9.59	18.1	18.7	0.103	107	5.4	98	.82	.81	.93	9.79 8.65 D	
461	0707	923.0	67.5	259	351	137	16.7	2150	999	176	552.0	902.8	0.08	9.50	9.54	18.1	18.8	0.132	108	5.4	98	.71	.70	.93	9.79 8.65 DX	
462	0708	924.0	50.7	282	342	136	19.1	2130	1000	176	550.0	904.4	0.11	9.50	9.56	18.1	18.8	0.143	109	5.4	99	.79	.78	.93	9.79 8.65 D	
463	0711	925.1	25.3	265	343	137	18.0	2130	1002	176	551.0	906.5	0.10	9.50	9.70	18.2	18.7	0.152	110	5.5	1.00	.92	.91	.93*	9.78 8.67 D	
464	0712	926.0	61.8	279	345	137	19.9	2050	1001	179	551.0	907.4	0.09	9.50	9.69	18.2	18.8	0.157	111	5.5	1.01	.76	.75	.93	9.78 8	

F#	TIME	DEPTH	ROP	AVG	TORQUE	RPM	PCB	PUMP	MUD	FLOW	PVT	RETURNS	GAS	MUD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DXC	NX	NXB	ECG	NXND	
		m	m/hr				AVG		GPM	SRM	bbt	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	min						
472	0732	933.0	58.2	264	344	136	21.5	3010	1161	201	418.0	913.2	.07	9.50	9.68	17.3	18.7	.090	118	5.7	1.07	.75	.74	.94	9.79	8.67	DX
473	0735	934.2	29.6	265	335	136	17.7	2130	1012	171	549.0	914.9	.08	9.50	9.47	17.2	18.8	.090	119	5.8	1.08	.88	.74	.93*	9.78	8.69	D
474	0736	935.2	51.2	269	344	135	16.7	2120	1003	184	560.0	915.9	.09	9.50	9.49	16.9	18.8	.090	120	5.8	1.09	.76	.75	.93	9.78	8.69	D
475	0738	936.2	40.2	286	396	135	18.9	2070	1002	184	580.0	916.8	.08	9.50	9.52	16.5	18.7	.090	121	5.8	1.10	.83	.82	.94	9.77	8.69	D
476	0740	937.0	23.0	286	359	135	20.3	2030	1003	177	576.0	917.9	.07	9.50	9.59	16.3	18.7	.093	122	5.9	1.10	.86	.95	.94	9.76	8.68	D
477	0742	938.2	52.6	280	351	135	23.0	2020	1002	177	600.0	919.3	.08	9.50	9.62	15.9	18.8	.096	123	5.9	1.11	.82	.81	.94	9.76	8.68	DX
478	0743	939.0	26.4	285	370	135	22.3	2010	1003	176	617.0	920.0	.08	9.50	9.57	15.5	18.9	.113	124	5.9	1.12	.79	.78	.94	9.76	8.68	DX
479	0746	940.0	28.9	288	371	136	20.9	1990	1004	174	655.0	921.6	.06	9.50	9.63	15.1	18.9	.119	125	5.9	1.13	.94	.93	.94*	9.75	8.69	D
480	0746	941.1	97.8	289	374	135	23.6	1990	1005	184	681.0	922.0	.06	9.50	9.63	15.1	18.9	.120	126	6.0	1.14	.69	.68	.94	9.76	8.69	D
481	0756	942.5	39.0	281	386	136	20.1	2030	1005	176	760.0	924.2	.07	9.50	9.87	15.2	18.5	.154	127	6.0	1.15	.85	.84	.94	9.73	8.69	DX
482	0800	944.0	29.4	289	373	135	22.2	2030	1006	174	758.0	926.1	.08	9.50	9.94	16.0	18.4	.163	129	6.1	1.16	.94	.93	.94*	9.71	8.70	D
483	0802	945.2	33.0	276	348	136	23.1	2030	1008	185	758.0	926.9	.06	9.50	9.84	16.0	18.4	.168	130	6.1	1.17	.92	.91	.94*	9.70	8.71	D
484	0808	946.1	12.8	253	365	136	25.0	2090	1006	184	749.0	930.1	.06	9.50	8.91	16.8	18.1	.173	131	6.2	1.20	1.16	1.14	.94	9.65	8.71	D
485	0810	947.0	36.0	303	418	136	22.5	2100	1007	173	747.0	931.0	.06	9.50	9.28	16.9	18.4	.173	132	6.3	1.21	.90	.89	.94*	9.64	8.71	D
486	0812	948.1	46.0	283	398	136	20.7	2020	1007	177	750.0	931.7	.05	9.50	9.47	17.0	18.4	.174	133	6.3	1.22	.84	.83	.94	9.63	8.71	D
487	0814	949.1	29.4	246	353	136	16.8	2100	1007	177	751.0	932.2	.06	9.50	9.64	17.1	18.5	.174	134	6.3	1.23	.89	.88	.94*	9.64	8.72	D
488	0816	950.2	34.7	279	379	136	19.3	1290	779	136	751.0	932.6	.06	9.50	9.76	17.2	18.5	.175	135	6.4	1.24	.88	.87	.94*	9.64	8.72	D
489	0819	951.3	25.7	233	419	136	22.2	1290	779	134	751.0	933.6	.05	9.50	9.33	17.2	18.5	.175	136	6.4	1.25	.97	.96	.94	9.64	8.71	D
490	0841	952.2	75.5	247	360	130	19.5	2170	959	170	710.0	939.8	.04	9.50	9.47	17.4	17.3	.120	137	6.4	1.26	.72	.71	.94	9.57	8.71	DX
491	0843	953.0	26.5	314	385	138	27.8	2140	1014	186	710.0	941.0	.01	9.50	9.51	17.3	17.7	.134	138	6.5	1.27	1.03	1.02	.95	9.57	8.67	D
492	0845	954.1	51.0	328	384	138	26.0	2140	1016	174	709.0	941.3	.02	9.50	9.51	17.2	18.0	.132	139	6.5	1.28	.87	.86	.95*	9.58	8.68	DX
493	0846	955.1	46.4	286	371	140	23.5	2130	1017	186	711.0	941.3	.06	9.50	9.51	17.1	18.0	.132	140	6.5	1.28	.87	.86	.95*	9.59	8.68	D
494	0847	956.2	42.5	294	364	138	22.5	2130	1016	177	709.0	941.5	.06	9.50	9.57	17.0	18.0	.129	141	6.6	1.29	.88	.86	.95*	9.60	8.68	D
495	0849	957.0	31.1	292	372	139	22.9	2070	1016	186	709.0	942.5	.06	9.50	9.61	17.0	17.9	.129	142	6.6	1.30	.95	.94	.95*	9.61	8.69	D
496	0851	958.3	49.0	280	384	139	21.5	2100	1017	186	708.0	943.5	.05	9.50	9.66	17.0	18.0	.140	143	6.6	1.31	.84	.83	.95	9.62	8.69	D
497	0853	959.0	24.5	280	362	139	22.1	2130	1017	174	708.0	944.7	.06	9.50	9.63	17.1	18.1	.142	144	6.6	1.31	.99	.98	.95	9.63	8.67	D
498	0855	960.0	41.2	285	413	139	20.6	2130	1017	175	709.0	945.3	.05	9.50	9.69	17.1	18.3	.147	145	6.7	1.32	.86	.85	.95	9.64	8.67	D
500	0917	962.0	35.4	282	369	140	19.4	2030	1000	169	668.0	950.3	.05	9.50	9.60	17.2	17.6	.083	147	6.8	1.35	.88	.87	.95*	9.66	8.68	DX
501	0919	963.2	53.0	323	391	140	21.7	2040	1001	173	668.0	950.9	.05	9.50	9.55	17.3	17.3	.084	148	6.8	1.36	.82	.81	.95	9.66	8.68	DX
502	0920	964.1	33.7	303	376	141	20.7	2110	1001	172	666.0	950.9	.03	9.50	9.56	17.4	17.7	.086	149	6.8	1.36	.91	.90	.95*	9.67	8.69	D
503	0922	965.0	32.2	277	369	140	17.6	2090	1000	173	667.0	951.2	.04	9.50	9.61	17.4	18.0	.084	150	6.9	1.37	.88	.87	.95*	9.69	8.69	D
504	0925	966.0	19.0	295	385	142	18.0	2080	1002	184	667.0	951.3	.04	9.50	9.60	17.4	18.0	.086	151	6.9	1.38	.99	.98	.95	9.70	8.68	D
505	0926	967.0	43.3	281	343	142	17.4	2100	1000	177	669.0	951.3	.04	9.50	9.60	17.4	18.0	.091	152	6.9	1.39	.82	.81	.95	9.71	8.68	D
506	0927	968.0	91.9	287	374	141	19.1	2100	1000	176	663.0	951.3	.04	9.50	9.61	17.4	18.1	.089	153	6.9	1.39	.68	.67	.95	9.72	8.68	D
507	0929	969.0	18.9	284	358	142	17.8	2100	1001	175	673.0	951.3	.04	9.50	9.59	17.4	18.2	.109	154	7.0	1.40	.99	.98	.95	9.73	8.67	D
508	0943	970.0	132	243	372	141	19.3	1970	853	156	680.0	955.6	.04	9.50	9.58	17.5	18.3	.144	155	7.0	1.41	.61	.60	.96	9.71	8.67	DX
509	0946	971.0	22.6	298	360	137	20.7	2110	1003	174	676.0	957.1	.07	9.50	9.73	17.5	18.2	.146	156	7.1	1.42	.98	.97	.96	9.71	8.66	D
510	0947	972.1	53.8	311	379	140	20.9	2110	1002	176	676.0	957.6	.07	9.50	9.77	17.6	18.2	.146	157	7.1	1.42	.80	.79	.96	9.72	8.66	D
511	0948	973.0	72.8	318	387	140	22.4	2100	1003	176	672.0	958.3	.07	9.50	9.77	17.6	18.2	.147	158	7.1	1.43	.75	.74	.96	9.72	8.66	D
512	0949	974.0	42.6	303	381	139	23.5	2100	1002	175	674.0	959.0	.06	9.50	9.76	17.6	18.1	.147	159	7.1	1.44	.88	.87	.96*	9.72	8.66	D
513	0951	975.2	28.4	316	391	140	24.0	2080	1002	178	674.0	959.7	.05	9.50	9.78	17.6	18.1	.147	160	7.1	1.44	.97	.96	.96*	9.73	8.68	D
514	0953	976.1	37.0	292	374	139	22.8	2040	1002	172	673.0	960.0	.05	9.50	9.72	17.6	18.1	.148	161	7.2	1.45	.90	.89	.96*	9.74	8.68	D
515	0954	977.1	51.0	289	359	140	22.1	2100	1002	175	674.0	960.0	.05	9.50	9.67	17.6	18.1	.148	162	7.2	1.46	.82	.81	.96	9.74	8.68	D
516	0955	978.1	43.3	302	365	140	24.6	2090	1002	179	674.0	960.0	.04	9.50	9.63	17.6	18.0	.148	163	7.2	1.46	.80	.80	.96*	9.75	8.69	D
517	0957	979.1	38.1	294	370	141	22.0	2090	1002	173	675.0	960.0	.04	9.50	9.47	17.6	18.1	.148	164	7.2	1.47	.88	.87	.96*	9.77	8.69	D
518	1010	986.3	134	211	362	138	17.7	2220	896	157	678.0	962.0	.05	9.50	9.70	17.5	18.1	.150	165	7.3	1.48	.59	.57	.96	9.76	8.69	DX
519	1013	981.0	20.4	279	344	137	15.1	2180	1012	178	670.0	963.3	.06	9.50	9.70	17.5	18.1	.150	166	7.3	1.49	.93	.92	.96*	9.78	8.70	D
520	1014	982.2	94.4	244	333	135	15.6	2190	1011	173	671.0	963.8	.07	9.50	9.70	17.5	18.1	.150	167	7.3	1.49	.63	.62	.96	9.79	8.70	DX
521	1016	983.2	30.4	249	320	141	14.5	2170	1013	178	669.0	965.3	.07	9.50	9.70	17.5	18.1	.150	168	7.4	1.50	.85	.84	.96	9.79	8.70	DX
522	1019	985.0	50.9	263	335	140	14.2	2170	1013	176																	

FW TIME	DEPTH	ROP	TORQUE	RPM	FOB	PUMP	MUD FLOW	PVT	RETURNIS	GAS MD	lb/gal	TEMP	(C)	RES	THIS BIT	EST	DXC	NX	NXB	ECT	NXMD	
m	m/hr		AVG	MAX	AVG	PRES	CM	lb/l	DEPTH	%	IN	OUT	IN	OUT	m	hrs	TM					
523	1021	986.4	56.9	245	324	140	11.9	2110	1011	178	671.0	968.1	.08	9.50	9.70	17.6	18.1	.150				
524	1024	988.0	38.0	241	315	140	13.0	2170	1012	178	670.0	969.8	.12	9.50	9.70	17.6	18.1	.151	.68	.96	9.82	8.70 D
525	1029	989.0	51.0	243	314	139	12.3	2160	1012	5	684.0	969.9	.05	9.50	9.70	17.6	18.1	.151	.77	.96	9.83	8.70 D
526	1034	990.1	41.5	241	313	131	12.5	2000	977	172	679.0	970.0	.05	9.50	9.70	17.8	18.1	.151	.73	.96	9.86	8.70 D
527	1036	991.0	32.1	236	329	135	14.0	2010	977	170	679.0	970.7	.06	9.50	9.70	17.8	18.1	.151	.81	.96	9.87	8.70 D
528	1038	992.0	32.2	235	315	136	13.9	2140	977	171	676.0	971.5	.06	9.50	9.70	17.8	18.1	.151	.80	.96	9.88	8.70 D
529	1039	993.0	57.0	243	308	140	12.7	2120	984	166	677.0	972.4	.06	9.50	9.70	17.8	18.1	.151	.69	.97	9.88	8.70 D
530	1040	994.0	64.2	256	329	139	15.4	2130	984	174	676.0	973.3	.06	9.50	9.70	17.8	18.1	.151	.70	.97	9.89	8.70 D
531	1042	995.1	31.1	269	373	138	17.3	2130	984	180	675.0	974.6	.07	9.50	9.70	17.8	18.1	.151	.85	.97	9.89	8.70 D
532	1043	996.1	38.5	275	345	138	17.2	2140	984	171	675.0	975.2	.07	9.50	9.61	17.8	18.1	.151	.81	.97	9.90	8.70 D
533	1045	998.3	64.5	263	342	138	15.6	2140	985	180	674.0	976.4	.07	9.50	9.70	17.9	18.1	.151	.69	.97	9.91	8.70 D
534	1054	999.0	25.8	243	345	140	12.5	2160	985	175	683.0	979.3	.07	9.50	9.63	17.9	18.2	.152	.84	.97	9.90	8.70 DX
535	1055	1000.1	71.1	242	318	143	11.1	2150	984	170	681.0	979.4	.07	9.50	9.70	17.9	18.2	.152	.63	.97	9.90	8.70 D
536	1056	1001.0	63.7	263	318	143	12.8	2160	984	180	679.0	979.4	.06	9.50	9.70	17.9	18.2	.152	.67	.97	9.92	8.70 D
537	1059	1002.1	24.1	241	341	143	12.4	2160	984	172	671.0	979.6	.06	9.50	9.70	18.0	18.2	.152	.85	.97	9.93	8.70 D
538	1100	1003.0	43.6	221	303	143	12.4	2120	984	174	669.0	979.6	.05	9.50	9.76	18.0	18.2	.152	.74	.97	9.94	8.70 D
540	1101	1004.0	38.3	232	319	142	13.3	2160	985	172	668.0	980.6	.06	9.50	9.76	18.0	18.2	.152	.77	.97	9.94	8.70 D
541	1107	1005.0	14.4	205	302	143	13.7	2150	985	171	668.0	983.2	.06	9.50	9.70	18.0	18.2	.152	.96	.96*	9.91	8.77 D
543	1110	1006.0	8.61	206	446	138	22.3	2180	985	175	665.0	988.9	.09	9.60	9.62	18.0	18.3	.152	1.18	.96	9.93	8.77 D
544	1119	1007.0	45.7	249	467	132	16.7	2300	985	170	661.0	989.2	.07	9.60	9.62	18.0	18.3	.152	.78	.96	9.92	8.77 D
545	1122	1008.2	29.7	240	303	136	13.3	2290	985	180	660.0	990.0	.07	9.60	9.70	18.0	18.3	.152	.81	.97	9.93	8.77 DX
546	1133	1009.1	38.8	241	327	135	13.5	2190	985	180	657.0	993.8	.05	9.60	9.70	18.1	18.6	.078	.77	.97	9.79	8.77 DX
547	1134	1010.0	74.2	251	317	136	11.7	2210	985	171	654.0	994.5	.06	9.60	9.70	18.1	18.5	.079	.63	.97	9.79	8.77 D
548	1136	1011.0	28.6	239	311	135	12.4	2210	985	174	649.0	995.7	.07	9.60	9.70	18.2	18.5	.081	.81	.97	9.78	8.77 D
549	1137	1012.4	61.2	243	309	136	12.1	2200	985	180	642.0	996.9	.07	9.60	9.70	18.2	18.5	.083	.67	.97	9.78	8.77 D
550	1140	1013.1	37.3	233	332	135	10.9	2190	985	178	634.0	998.6	.08	9.60	9.70	18.1	18.5	.130	.74	.97	9.78	8.77 D
551	1142	1015.0	34.5	230	311	135	11.9	2210	986	181	635.0	998.8	.07	9.60	9.72	17.7	18.5	.140	.77	.97	9.79	8.77 D
552	1144	1016.2	33.6	215	322	135	10.9	2190	986	177	635.0	999.5	.07	9.60	9.75	17.0	18.4	.149	.76	.97	9.83	8.77 D
553	1146	1018.0	41.1	231	310	136	13.2	2170	985	174	636.0	1001.1	.08	9.60	9.79	17.4	18.5	.152	.75	.97	9.80	8.77 D
554	1159	1019.4	36.3	220	310	130	8.92	2210	1003	172	631.0	1004.9	.05	9.60	9.70	18.2	18.8	.081	.71	.97	9.79	8.77 DX
555	1204	1021.2	28.3	204	300	118	9.49	2240	1004	184	628.0	1005.1	.04	9.60	9.71	18.2	18.9	.143	.75	.97	9.85	8.77 D
556	1206	1022.2	23.7	187	281	118	8.48	2240	1004	176	628.0	1005.2	.04	9.60	9.83	18.3	19.0	.151	.76	.97	9.85	8.77 D
557	1210	1024.1	28.9	177	261	118	6.77	2240	1002	176	627.0	1006.0	.04	9.60	9.69	18.3	19.1	.153	.69	.97	9.88	8.77 D
558	1212	1025.1	33.2	234	439	146	6.88	2220	1003	184	632.0	1006.5	.06	9.60	9.48	18.3	19.1	.155	.71	.97	9.89	8.77 D
559	1214	1026.2	27.0	217	288	146	7.59	2240	1003	177	628.0	1007.6	.07	9.60	9.70	18.3	19.1	.155	.75	.98	9.89	8.77 D
560	1216	1027.0	29.4	219	295	146	7.03	2230	1006	173	628.0	1008.2	.06	9.60	9.70	18.3	19.1	.156	.73	.98	9.89	8.77 D
561	1235	1029.1	25.8	239	305	145	8.06	2390	1021	187	621.0	1014.7	.06	9.60	9.70	18.7	19.1	.082	.77	.98	9.83	8.77 DX
562	1238	1030.7	47.6	232	310	145	6.90	2400	1021	175	616.0	1015.9	.07	9.60	9.70	18.7	19.0	.099	.65	.98	9.82	8.77 D
563	1242	1032.0	20.7	227	326	146	6.44	2410	1020	178	617.0	1018.4	.09	9.60	9.70	18.7	19.0	.137	.77	.98	9.82	8.77 D
564	1244	1033.2	37.6	207	304	146	4.81	2350	1019	180	617.0	1018.4	.05	9.60	9.70	18.7	19.0	.149	.64	.98	9.84	8.77 D
565	1247	1034.0	13.6	219	296	145	6.49	2430	1020	177	616.0	1018.8	.04	9.60	9.70	18.6	19.3	.155	.84	.98	9.93	8.77 D
566	1250	1035.0	22.9	209	278	146	5.91	2420	1020	187	619.0	1019.5	.04	9.65	9.70	18.6	19.4	.157	.74	.98	9.94	8.77 D
567	1253	1036.2	25.6	220	302	146	5.22	2420	1021	179	617.0	1020.7	.04	9.69	9.70	18.6	19.3	.158	.70	.98	9.94	8.77 D
568	1255	1037.0	22.4	218	309	146	7.18	2410	1020	180	619.0	1021.8	.04	9.73	9.70	18.6	19.3	.159	.77	.98	9.96	8.77 D
569	1310	1038.1	49.0	219	333	139	8.58	2420	1013	177	620.0	1026.1	.06	9.79	9.70	18.9	19.4	.162	.65	.98	10.1	8.77 DX
571	1314	1039.3	23.4	214	309	139	8.74	2420	1016	180	616.0	1027.5	.06	9.83	9.70	18.9	19.4	.162	.78	.98	10.1	8.77 D
572	1316	1040.2	20.5	226	295	139	5.65	2430	1017	186	616.0	1027.5	.05	9.89	9.70	18.9	19.4	.162	.73	.98	10.1	8.77 D
573	1319	1041.1	30.9	205	287	140	5.28	2430	1016	178	614.0	1027.5	.04	9.92	9.70	18.9	19.4	.162	.65	.98	10.2	8.77 D
574	1321	1042.0	29.7	222	302	139	7.12	2410	1016	179	615.0	1027.5	.04	9.98	9.70	18.9	19.4	.163	.69	.98	10.2	8.77 D
575	1325	1043.2	21.4	225	343	153	5.68	2410	1018	178	615.0	1029.6	.04	10.1	9.70	18.9	19.4	.163	.72	.98	10.3	8.77 D

FW	TIME	DEPTH	KOP	TORQUE	RPM	FQ	PUMP	MUD	FLOW	PVT	RETURNS	GAS	MD	lb/gal	TEMP	(C)	RES	THIS	RTT	EST	DXC	NX	NXB	ECD	NXMD		
		m	m/hr	AVG	MAX	AVG	AVG	CHM	SPM	BDI	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TM							
576	1329	1044.0	13.5	230	296	153	6.82	2410	1015	173	612.0	1031.4	.05	10.1	9.70	18.9	19.4	.163	229	9.6	1.97	.81	.80	.99	10.3	8.77	D
577	1330	1045.2	48.8	220	300	154	5.23	2390	1016	178	612.0	1031.9	.05	10.2	9.70	18.9	19.4	.163	230	9.6	1.98	.60	.59	.99	10.3	8.77	D
578	1333	1046.1	21.8	231	315	154	6.46	2410	1016	176	612.0	1032.9	.06	10.3	9.70	18.8	19.4	.163	231	9.7	1.99	.75	.74	.99	10.3	8.77	D
579	1345	1047.0	29.6	240	307	152	6.70	2390	986	173	614.0	1035.4	.04	10.3	9.90	19.0	19.4	.164	232	9.8	2.00	.71	.70	.99	10.2	8.77	DX
580	1346	1048.0	40.8	239	328	152	6.34	2380	986	175	612.0	1036.0	.04	10.3	9.90	19.0	19.4	.164	233	9.8	2.01	.65	.64	.99	10.2	8.77	D
581	1348	1049.0	37.4	244	315	152	6.92	2410	985	180	610.0	1036.7	.04	10.2	9.90	19.1	19.4	.164	234	9.8	2.02	.68	.67	.99	10.2	8.77	D
582	1350	1050.0	35.8	247	297	151	6.30	2400	985	173	610.0	1037.5	.05	10.3	9.90	19.1	19.4	.164	235	9.8	2.03	.67	.66	.99	10.2	8.77	D
583	1354	1051.3	31.3	245	339	152	6.51	2390	985	175	609.0	1037.7	.03	10.3	9.90	19.1	19.4	.164	236	9.9	2.04	.70	.69	.99	10.1	8.77	D
584	1356	1052.1	17.1	216	309	152	4.46	2380	985	175	608.0	1037.7	.03	10.2	9.95	19.2	19.4	.164	237	9.9	2.05	.75	.74	.99	10.1	8.77	D
585	1358	1053.0	40.3	212	296	151	2.97	2370	985	177	607.0	1037.7	.03	10.2	10.0	19.2	19.4	.164	238	10.0	2.05	.58	.57	.99	10.1	8.77	D
586	1402	1054.1	18.0	218	304	153	3.78	2380	985	179	607.0	1039.0	.03	10.2	10.0	19.2	19.4	.164	239	10.0	2.07	.72	.70	.99	10.3	8.77	D
587	1403	1055.1	50.2	246	326	152	7.23	2400	985	175	608.0	1039.2	.03	10.2	10.0	19.2	19.4	.164	240	10.1	2.07	.64	.62	.99	10.3	8.77	D
588	1405	1056.0	19.2	224	315	151	5.55	2410	985	176	607.0	1040.0	.03	10.2	10.0	19.2	19.5	.164	241	10.1	2.08	.76	.73	.99	10.3	8.77	D
589	1410	1057.2	29.6	234	317	150	6.34	2420	1011	178	598.0	1042.4	.04	10.4	10.0	19.4	19.8	.083	242	10.1	2.09	.71	.69	.99	10.3	8.77	DX
590	1417	1058.0	53.4	237	314	153	5.40	2490	1011	176	593.0	1042.7	.03	10.4	10.2	19.4	19.7	.083	243	10.2	2.09	.60	.59	.99	10.1	8.77	D
591	1420	1059.2	42.9	251	317	153	6.11	2480	1013	176	584.0	1043.3	.03	10.3	10.0	19.4	19.7	.084	244	10.2	2.10	.65	.64	.99	10.1	8.77	DX
592	1423	1060.1	18.3	227	290	154	5.86	2470	1011	174	575.0	1044.3	.04	10.2	10.0	19.4	19.6	.085	245	10.2	2.11	.77	.76	.99	10.2	8.77	D
593	1424	1061.3	56.4	228	306	151	4.17	2480	1011	175	573.0	1045.1	.04	10.2	10.0	19.4	19.6	.085	246	10.3	2.12	.56	.55	.99	10.2	8.77	D
594	1427	1062.1	20.3	232	340	152	6.37	2470	1013	176	566.0	1045.9	.04	10.4	10.0	19.4	19.7	.089	247	10.3	2.13	.76	.75	1.00	10.2	8.77	D
595	1429	1063.0	28.7	231	309	153	6.44	2460	1011	178	565.0	1046.5	.05	10.2	10.0	19.4	19.6	.103	248	10.4	2.14	.71	.70	1.00	10.2	8.77	D
596	1431	1064.1	36.6	236	316	151	7.02	2480	1012	179	567.0	1046.5	.04	10.2	10.0	19.4	19.6	.111	249	10.4	2.14	.68	.67	1.00	10.2	8.77	D
597	1433	1065.0	23.4	254	315	153	7.31	2500	1013	178	564.0	1046.6	.04	10.3	10.0	19.4	19.8	.119	250	10.4	2.15	.76	.75	1.00	10.3	8.77	D
598	1444	1066.1	28.0	223	280	152	5.71	2510	1012	180	563.0	1050.2	.06	10.6	10.7	19.4	20.0	.163	251	10.5	2.16	.69	.68	1.00	10.4	8.77	DX
599	1446	1067.1	26.0	220	283	150	5.93	2500	1012	178	561.0	1050.9	.06	10.4	10.5	19.3	20.1	.170	252	10.5	2.17	.70	.69	1.00	10.4	8.77	D
600	1448	1068.2	27.1	221	282	149	6.31	2490	1013	178	558.0	1051.7	.05	10.2	10.2	19.4	20.1	.171	253	10.6	2.18	.70	.69	1.00	10.4	8.77	D
601	1452	1069.2	20.6	215	307	149	5.68	2490	1012	176	553.0	1053.2	.05	10.2	10.4	19.3	20.1	.172	254	10.6	2.19	.73	.72	1.00	10.4	8.77	D
602	1454	1070.2	34.4	226	301	150	5.58	2500	1011	177	556.0	1054.0	.04	10.4	10.4	19.3	20.1	.173	255	10.7	2.20	.65	.64	1.00	10.4	8.77	D
603	1458	1072.1	18.3	238	312	149	7.45	2490	1011	179	383.0	1055.8	.05	10.4	10.4	19.5	20.1	.173	257	10.7	2.21	.71	.70	1.00	10.4	8.77	D
604	1501	1073.1	18.1	229	302	149	7.10	2510	1013	179	403.0	1056.2	.05	10.6	10.4	19.5	20.1	.174	258	10.8	2.22	.78	.77	1.00	10.5	8.77	D
605	1504	1074.0	17.0	218	295	149	7.50	2480	1013	186	424.0	1057.3	.04	10.6	10.5	19.5	20.1	.175	259	10.8	2.24	.79	.78	1.00	10.5	8.77	D
606	1518	1075.2	38.2	230	306	147	7.67	2520	993	182	498.0	1060.0	.04	10.6	10.5	19.6	20.2	.178	260	10.9	2.24	.67	.66	1.00	10.5	8.77	DX
607	1520	1076.1	23.7	236	306	149	8.28	2520	1004	177	488.0	1061.0	.04	10.6	10.5	19.7	20.2	.178	261	10.9	2.25	.75	.74	1.00	10.5	8.77	D
608	1522	1077.1	21.6	236	291	150	6.81	2520	1005	172	485.0	1062.0	.05	10.6	10.5	19.7	20.2	.178	262	11.0	2.26	.74	.73	1.00	10.5	8.77	D
609	1526	1078.2	18.1	234	324	149	7.61	2520	1005	175	484.0	1063.8	.06	10.4	10.5	19.7	20.2	.178	263	11.0	2.27	.78	.77	1.00	10.5	8.77	D
610	1529	1079.2	23.8	237	311	149	4.42	2480	1006	179	482.0	1064.9	.07	10.4	10.5	19.7	20.2	.178	264	11.1	2.28	.67	.66	1.01	10.5	8.77	D
611	1531	1080.0	23.0	231	307	150	5.59	2500	1006	173	483.0	1065.4	.06	10.5	10.4	19.7	20.2	.178	265	11.1	2.29	.70	.69	1.01	10.5	8.77	D
612	1533	1081.0	38.6	228	325	150	5.16	2510	1005	181	497.0	1065.4	.05	10.4	10.4	19.7	20.2	.178	266	11.1	2.30	.62	.61	1.01	10.5	8.77	D
613	1537	1082.2	16.9	223	324	150	5.76	2380	1006	178	526.0	1066.1	.04	10.4	10.4	19.3	20.2	.178	267	11.2	2.31	.75	.74	1.01	10.6	8.77	D
614	1540	1083.0	15.2	249	326	150	4.88	2370	1008	176	526.0	1067.4	.05	10.3	10.4	19.1	20.2	.179	268	11.2	2.32	.74	.73	1.01	10.6	8.77	D
615	1542	1084.2	31.2	228	308	150	4.54	2330	1000	173	526.0	1068.2	.05	10.4	10.4	19.1	20.2	.179	269	11.3	2.33	.63	.62	1.01	10.6	8.77	D
616	1558	1085.1	23.9	219	299	147	6.70	2140	910	152	529.0	1071.8	.04	10.5	10.5	19.5	20.2	.180	270	11.3	2.33	.71	.70	1.01	10.6	8.77	DX
617	1602	1086.1	15.2	242	317	145	9.51	2400	985	175	519.0	1073.3	.06	10.5	10.5	19.6	20.2	.180	271	11.4	2.35	.83</					

F#	TIME	DEPTH	ROP	TORQUE	RPM	FCS	PUMP	MUD FLOW	SWM	PVT	RETURNS	GAS MD	lb/gal	TEMP	(C)	RES	THIS BIT	EST	DXC	HIX	NXB	ECD	NABD			
		m	m/hr	AVG	AVG	AVG	PRES	GPM		bbl	DEPTH	%	IN	IN	OUT	OUT	m	hrs	TW							
627	1634	1095.1	32.4	219	284	147	3.39	2440	985	175	493.0	1081.5	.04	10.5	10.5	20.4	.087	280	11.8	2.42	.59	.58	1.01	10.6	8.77	DX
628	1638	1096.2	20.3	227	312	153	2.58	2490	985	178	485.0	1082.8	.06	10.5	10.5	20.1	.091	281	11.8	2.43	.63	.62	1.02	10.6	8.77	D
629	1700	1097.1	3.34	142	357	107	12.0	2470	986	179	480.0	1087.8	.04	10.4	10.5	20.1	.158	282	12.2	2.48	1.08	1.07	1.02	10.6	8.75	D
630	1704	1098.2	16.0	202	341	116	14.5	2470	986	174	478.0	1089.5	.04	10.6	10.5	20.2	.178	283	12.2	2.48	.86	.86	1.02	10.6	8.75	D
631	1706	1099.0	25.7	221	330	148	14.8	2470	985	180	474.0	1090.2	.04	10.6	10.5	21.4	.180	284	12.3	2.49	.82	.81	1.02	10.6	8.75	D
632	1709	1100.0	21.8	206	301	149	13.5	2480	986	181	474.0	1091.5	.05	10.4	10.5	20.4	.185	285	12.3	2.50	.84	.83	1.02	10.6	8.75	D
633	1713	1101.1	17.9	227	309	150	14.5	2480	1011	181	471.0	1093.3	.06	10.4	10.5	20.5	.189	286	12.4	2.52	.89	.88	1.02	10.6	8.75	D
634	1720	1102.0	9.46	226	308	148	14.6	2480	1011	173	469.0	1094.9	.04	10.4	10.5	20.7	.191	287	12.5	2.54	1.00	.99	1.02	10.6	8.77	D
635	1723	1103.2	23.7	228	356	149	13.5	2500	1011	172	467.0	1095.4	.05	10.4	10.4	20.8	.193	288	12.6	2.55	.82	.81	1.02	10.6	8.77	D
636	1725	1104.1	20.3	213	325	149	12.4	2500	1012	171	466.0	1096.3	.04	10.4	10.4	20.9	.194	289	12.6	2.56	.84	.83	1.02	10.6	8.77	D
637	1739	1105.2	33.3	197	300	145	10.9	2450	985	177	471.0	1096.4	.02	10.4	10.4	21.0	.197	290	12.7	2.57	.73	.72	1.02	10.5	8.77	D
638	1744	1106.1	13.5	216	302	148	12.9	2490	985	177	462.0	1096.4	.02	10.4	10.4	21.0	.197	291	12.8	2.59	.91	.90	1.02	10.5	8.77	D
639	1747	1107.1	21.0	224	320	147	13.7	2470	985	175	463.0	1096.4	.02	10.5	10.4	21.0	.196	292	12.8	2.60	.85	.84	1.02	10.5	8.77	D
641	1751	1108.0	15.7	201	288	147	10.9	2480	986	173	462.0	1096.6	.02	10.5	10.4	20.9	.195	293	12.9	2.61	.86	.85	1.02	10.5	8.77	D
642	1759	1109.0	8.59	195	333	148	15.1	2460	985	176	465.0	1098.4	.04	10.4	10.5	20.8	.184	294	13.0	2.64	1.03	1.02	1.02	10.5	8.79	D
643	1804	1110.1	13.4	216	341	148	14.6	2490	985	173	465.0	1099.9	.05	10.4	10.5	21.6	.182	295	13.1	2.65	.94	.93	1.02	10.5	8.79	D
644	1807	1111.1	20.4	215	314	147	13.6	2460	986	181	465.0	1101.0	.04	10.4	10.5	21.7	.186	296	13.2	2.66	.84	.83	1.02	10.5	8.79	D
645	1813	1112.1	9.50	181	291	148	10.6	2430	985	180	464.0	1101.6	.04	10.4	10.5	21.0	.191	297	13.3	2.68	.93	.92	1.02	10.6	8.80	D
646	1816	1113.2	18.4	222	322	147	14.0	2460	985	174	468.0	1102.2	.05	10.4	10.4	21.0	.194	298	13.3	2.69	.87	.86	1.02	10.6	8.80	D
647	1829	1115.1	19.1	218	323	151	9.72	2550	1017	179	432.0	1104.3	.04	10.6	10.5	21.2	.091	300	13.4	2.71	.81	.80	1.02	10.6	8.80	DX
648	1832	1116.1	26.3	224	337	151	10.0	2550	1018	178	426.0	1105.1	.04	10.5	10.5	21.3	.091	301	13.5	2.72	.75	.75	1.02	10.6	8.80	D
649	1836	1117.0	16.8	232	327	151	11.2	2550	1019	177	424.0	1106.2	.04	10.4	10.5	21.3	.089	302	13.5	2.73	.85	.84	1.02	10.6	8.80	D
650	1838	1118.0	31.4	222	309	151	10.3	2550	1017	178	423.0	1106.6	.03	10.4	10.5	21.2	.090	303	13.6	2.74	.73	.72	1.03	10.6	8.80	D
651	1846	1120.0	24.0	225	308	150	12.1	2540	1016	186	421.0	1108.4	.03	10.4	10.5	21.2	.090	305	13.7	2.76	.80	.79	1.03	10.6	8.80	D
652	1849	1121.1	23.9	221	313	151	10.9	2550	1019	180	420.0	1108.6	.02	10.4	10.5	21.2	.089	306	13.7	2.77	.79	.78	1.03	10.6	8.80	D
653	1851	1122.2	29.3	233	305	151	11.0	2570	1018	180	424.0	1109.0	.02	10.4	10.5	21.2	.090	307	13.8	2.78	.75	.74	1.03	10.6	8.80	D
654	1854	1123.1	16.3	204	288	151	9.26	2550	1018	179	420.0	1109.2	.03	10.3	10.5	21.2	.090	308	13.8	2.79	.82	.81	1.03	10.6	8.80	DX
655	1907	1124.2	16.2	219	306	149	10.1	2600	1024	188	422.0	1111.6	.04	10.6	10.5	21.5	.691	309	13.9	2.80	.84	.83	1.03	10.6	8.80	DX
656	1908	1125.1	32.2	227	295	148	11.0	2610	1025	178	417.0	1112.0	.04	10.6	10.5	21.6	.092	310	14.0	2.81	.74	.72	1.03	10.6	8.80	D
657	1911	1126.0	21.6	205	292	146	9.98	2610	1025	177	408.0	1112.8	.04	10.3	10.5	21.5	.093	311	14.0	2.82	.78	.77	1.03	10.6	8.80	D
658	1914	1127.0	25.4	226	295	147	11.2	2640	1025	182	408.0	1113.5	.04	10.6	10.5	21.6	.100	312	14.0	2.82	.78	.77	1.03	10.6	8.80	D
659	1917	1128.2	20.4	233	316	147	11.5	2610	1025	188	409.0	1113.5	.04	10.6	10.5	21.5	.110	313	14.1	2.84	.82	.81	1.03	10.6	8.80	D
660	1921	1129.0	13.4	210	298	147	10.8	2570	1026	181	409.0	1114.8	.04	10.5	10.5	21.4	.122	314	14.2	2.85	.88	.87	1.03	10.6	8.80	D
661	1924	1130.0	25.5	219	296	147	10.9	2620	1026	177	411.0	1115.8	.04	10.6	10.5	21.4	.108	315	14.2	2.85	.77	.76	1.03	10.6	8.80	D
662	1926	1131.0	22.8	215	302	148	11.3	2610	1025	178	411.0	1116.5	.04	10.6	10.5	21.3	.109	316	14.3	2.86	.80	.79	1.03	10.6	8.80	D
663	1931	1132.0	13.8	202	282	149	10.2	2620	1027	178	415.0	1118.0	.04	10.4	10.5	21.3	.130	317	14.3	2.88	.86	.85	1.03	10.6	8.80	D
664	1933	1133.0	26.1	203	279	148	8.37	2610	1026	181	419.0	1118.5	.04	10.4	10.5	21.3	.132	318	14.4	2.88	.73	.72	1.03	10.6	8.80	D
665	1950	1134.0	12.1	207	307	147	9.42	2460	1010	176	429.0	1122.1	.05	10.5	10.5	21.4	.162	319	14.5	2.90	.87	.86	1.03	10.6	8.80	DX
667	1952	1135.1	20.2	197	269	149	6.76	2460	1010	178	430.0	1123.1	.05	10.4	10.5	21.4	.163	320	14.5	2.91	.74	.73	1.04	10.6	8.80	D
668	1955	1136.1	18.4	217	260	149	9.25	2490	1008	182	433.0	1123.5	.05	10.5	10.5	21.4	.169	321	14.6	2.92	.80	.79	1.04	10.6	8.80	D
669	1957	1137.0	23.8	209	281	147	9.94	2480	1009	178	438.0	1123.6	.05	10.7	10.5	21.4	.170	322	14.6	2.92	.77	.76	1.04	10.6	8.80	D
671	2000	1138.0	22.0	203	280	148	12.4	2510	1008	176	440.0	1124.4	.05	10.7	10.5	21.3	.179	323	14.7	2.93	.82	.81	1.04	10.6	8.80	D
672	2003	1139.1	19.6	211	293	148	13.1	2520	1009	177	439.0	1126.0	.04	10.6	10.5	21.4	.187	324	14.7	2.94	.85	.84	1.04	10.6	8.80	D
673	2007	1140.1	19.7	219	298	148	13.8	2550	1009	178	439.0	1126.9	.04	10.6	10.5	21.4	.187	325	14.8	2.95	.86	.84	1.04	10.6	8.80	D
674	2008	1141.0	34.5	216	290	148	13.4	2560	1008	179	439.0	1127.3	.04	10.6	10.5	21.5	.188	326	14.8	2.96	.75	.74	1.04	10.6	8.80	D
675	2014	1142.0	11.5	203	279	148	1																			

FOOT at 1143 m, NB#5 drilled 328 m in 15.9 hours

NAB# MWX X3A 17.5", Jets 22:22:22, in at 1143 m

Return to 1143, 80 mbars excess required to get to bottom.

L#	TIME	DEPTH m	ROP m/hr	TORQUE		RPM	FCS AVG	PUMP PRES	MUD FLOW GPM	PVT DBI	RETURNS		GAS MD %	lb/gal IN	OUT	TEMP (C)		RES OUT	THIS BIT		EST TW	DNC	NX	NXB	ECD	NXMD
				AVG	MAX						DEPTH	IN				OUT	IN		OUT	m						
Reduce mud weight to 10.2 ppg																										
688	0746	1144.0	14.7	263	482	117	23.9	1790	854	144	511.0	1143.2	0.00	10.4	10.1	14.9	16.5	.067	.9	.1	0.00	.99	1.03*	10.5	8.90	10.1
689	0754	1145.1	9.84	334	514	108	17.4	1770	854	149	525.0	1143.2	0.00	10.1	10.1	14.9	17.3	.072	2.0	.2	.04	.98	1.03*	10.5	8.91	10.1
690	0802	1146.0	8.97	268	517	113	17.9	1750	854	148	572.0	1143.2	.09	9.84	10.2	15.1	20.0	.082	3.0	.3	.07	1.04	1.03	10.5	8.90	10.1
691	0804	1147.1	31.4	338	515	111	19.8	1760	854	156	572.0	1143.2	.16	9.83	10.3	15.1	20.2	.085	4.0	.3	.08	.80	1.03	10.4	8.90	10.1
692	0807	1148.1	19.6	324	496	112	19.5	1750	855	149	579.0	1143.2	.27	10.3	10.3	14.2	20.4	.087	5.0	.4	.10	.89	1.03	10.4	8.90	10.1
693	0808	1149.0	33.6	325	471	111	20.0	1750	854	151	580.0	1143.2	.29	10.3	10.3	12.4	20.6	.087	6.0	.4	.10	.79	1.03	10.4	8.90	10.1
694	0823	1150.0	38.5	338	451	111	19.2	1750	855	146	557.0	1143.2	.26	10.3	10.3	15.0	20.2	.080	6.9	.5	.12	.75	1.03	10.4	8.90	10.1
695	0824	1151.2	50.4	355	473	110	20.6	1760	855	157	558.0	1143.2	.26	10.3	10.3	14.8	20.0	.078	7.9	.5	.12	.71	1.03	10.4	8.90	10.1
696	0827	1152.1	25.0	308	468	111	16.7	1780	856	157	566.0	1143.2	.23	10.3	10.3	15.0	19.8	.076	8.9	.5	.13	.81	1.03	10.4	8.90	10.1
697	0829	1153.0	21.5	301	495	119	12.7	1790	854	149	570.0	1143.2	.18	10.3	10.3	15.0	18.7	.076	10.0	.6	.14	.80	1.03	10.5	8.90	10.1
698	0834	1154.0	12.1	287	513	114	17.6	1830	853	156	575.0	1143.2	.07	10.5	10.3	17.6	17.2	.074	10.9	.7	.16	.96	1.03*	10.4	8.93	10.1
699	0836	1155.3	37.1	344	496	110	18.8	1830	853	150	577.0	1143.2	.06	10.4	10.3	17.8	17.8	.071	12.0	.7	.17	.76	1.03	10.4	8.93	10.1
700	0839	1156.1	19.6	318	450	110	17.8	1800	853	156	581.0	1143.2	.05	10.3	10.3	18.0	18.0	.069	13.0	.7	.18	.87	1.03	10.4	8.93	10.1
701	0841	1157.1	21.3	280	456	110	16.1	1830	854	149	584.0	1143.2	.04	10.3	10.3	18.0	18.0	.069	14.0	.8	.18	.83	1.03	10.4	8.93	10.1
702	0843	1158.0	25.2	262	401	112	14.6	1840	854	156	590.0	1143.2	.04	10.3	10.3	18.0	18.1	.069	14.8	.8	.19	.79	1.03	10.4	8.93	10.1
703	0846	1159.0	20.5	281	417	117	15.2	1840	853	150	600.0	1144.2	.03	10.3	10.3	17.8	18.6	.068	15.9	.9	.20	.84	1.03	10.4	8.93	10.1
704	0857	1160.0	41.6	306	494	117	18.0	2000	903	165	619.0	1144.2	.03	9.93	10.3	17.3	18.6	.068	16.7	.9	.21	.74	1.03	10.4	8.93	10.1
705	0900	1161.2	24.0	258	440	132	11.2	1990	904	166	619.0	1144.3	.02	10.1	10.2	17.2	18.5	.068	18.0	.9	.22	.78	1.04	10.4	8.93	10.1
706	0904	1162.0	16.0	266	433	133	9.31	1980	905	155	620.0	1145.4	.02	10.2	10.2	17.0	18.5	.070	19.0	1.0	.24	.82	1.04	10.4	8.93	10.1
707	0906	1163.1	25.9	293	410	127	12.8	1980	905	166	621.0	1145.8	.02	10.2	10.2	17.1	18.6	.070	19.9	1.0	.24	.79	1.04	10.4	8.93	10.1
708	0909	1164.0	17.6	298	420	122	13.1	1970	905	150	624.0	1146.0	.03	10.2	10.2	17.2	18.6	.077	21.0	1.1	.26	.85	1.04	10.4	8.93	10.1
709	0912	1165.2	26.5	286	436	124	11.4	1970	906	159	627.0	1146.8	.03	10.2	10.1	17.2	18.8	.087	21.9	1.1	.27	.76	1.04	10.4	8.93	10.1
710	0915	1166.0	22.7	284	416	122	12.6	1980	905	160	629.0	1147.5	.04	10.2	10.1	17.3	18.9	.102	23.0	1.2	.27	.80	1.04	10.4	8.93	10.1
711	0916	1167.0	26.9	286	403	123	13.6	1980	905	157	631.0	1148.7	.05	10.1	10.1	17.3	19.0	.113	24.0	1.2	.28	.78	1.04	10.4	8.93	10.1
712	0919	1168.1	21.0	280	418	123	13.3	1960	904	166	639.0	1149.6	.06	9.90	10.1	17.3	19.0	.119	24.9	1.3	.29	.82	1.04	10.4	8.93	10.1
713	0936	1169.1	22.4	271	455	118	13.4	1980	914	166	652.0	1152.4	.08	9.90	10.2	17.5	18.6	.144	25.6	1.4	.31	.81	1.04	10.4	8.93	10.1
714	0938	1170.1	22.4	290	404	117	13.0	1970	916	168	645.0	1153.3	.09	10.0	10.3	17.5	18.7	.148	26.9	1.4	.32	.80	1.04	10.4	8.93	10.1
715	0940	1171.1	27.9	298	406	117	15.7	1970	915	157	650.0	1153.5	.09	10.0	10.3	17.5	18.7	.149	28.0	1.4	.32	.79	1.04	10.4	8.93	10.1
716	0942	1172.1	24.0	277	390	117	16.5	1970	915	161	653.0	1154.0	.09	10.0	10.3	17.1	18.8	.151	29.0	1.5	.33	.83	1.04	10.3	8.93	10.1
717	0944	1173.1	24.6	253	361	117	13.0	1970	916	155	655.0	1155.4	.09	10.0	10.4	15.6	18.8	.153	29.9	1.5	.34	.79	1.04	10.3	8.93	10.1
718	0947	1174.0	21.3	234	373	119	9.65	1970	915	168	656.0	1156.6	.08	10.0	10.3	14.6	19.0	.153	30.9	1.6	.35	.77	1.04	10.3	8.93	10.1
719	0949	1175.1	30.5	237	378	121	10.9	1970	915	161	658.0	1157.4	.06	9.97	10.4	15.2	19.1	.153	32.0	1.6	.35	.69	1.04	10.3	8.93	10.1
720	0951	1176.0	23.8	247	372	121	10.7	1980	917	162	662.0	1158.1	.07	10.0	10.4	16.8	19.3	.153	33.0	1.6	.36	.77	1.04	10.3	8.93	10.1
721	0955	1177.0	15.8	276	393	120	14.6	1980	916	159	673.0	1158.7	.08	10.0	10.4	17.7	19.4	.153	33.9	1.7	.37	.90	1.04	10.3	8.93	10.1
722	1006	1178.1	30.9	293	427	120	14.1	2030	917	168	684.0	1160.7	.09	10.4	10.4	17.8	19.4	.155	34.9	1.7	.38	.77	1.05	10.2	8.93	10.1
723	1007	1179.1	39.4	310	439	119	14.5	2030	918	168	684.0	1161.1	.09	10.4	10.4	17.8	19.4	.155	35.8	1.8	.38	.73	1.05	10.3	8.93	10.1
724	1008	1180.0	77.1	309	492	119	13.3	2040	919	161	685.0	1161.5	.09	10.4	10.4	17.8	19.4	.155	37.0	1.8	.38	.60	1.05	10.3	8.93	10.1
725	1012	1181.1	15.9	291	453	119	10.4	2030	918	157	687.0	1162.8	.06	10.5	10.4	17.9	19.4	.155	38.0	1.9	.40	.83	1.05	10.3	8.93	10.1
726	1016	1182.1	26.4	276	399	119	11.5	2040	918	168	688.0	1163.5	.06	10.5	10.4	17.8	19.4	.155	39.0	1.9	.40	.76	1.05	10.3	8.93	10.1
727	1018	1183.1	26.4	294	414	118	12.5	2030	918	159	688.0	1164.2	.03	10.5	10.4	17.6	19.5	.155	39.9	1.9	.41	.77	1.05	10.3	8.93	10.1
728	1020	1184.0	13.3	310	419	119	13.9	2040	919	160	689.0	1165.4	.03	10.5	10.4	17.4	19.7	.155	41.0	2.0	.42	.91	1.05	10.3	8.93	10.1
729	1026	1185.0	78.4	296	428	119	13.1	2050	917	161	689.0	1165.8	.03	10.5	10.4	17.4	19.7	.155	41.9	2.0	.42	.59	1.05	10.3	8.93	10.1
730	1028	1186.0	19.8	299	438	119	12.6	2060	917	159	689.0	1166.8	.07	10.5	10.4	17.5	19.7	.156	43.0	2.0	.43	.82	1.05	10.3	8.93	10.1
731	1032	1187.0	22.9	293	423	120	12.0	2070	918	158	689.0	1167.8	.08	10.5	10.4	17.7	19.7	.156	43.4							

FW	TOTAL DEPTH	ROP	TORQUE	KRM	FOB	PUMP	MUD FLOW	PWT	RETURNS	GAS MD	IN	OUT	TEMP	(C)	RES	THIS BIT	EST	DNC	NX	NXB	ECD	NXMD		
	m	m/hr	AVG	MAX	AVG	PRES	GPM	bbl	DEPTH	%			IN	OUT	OUT	m	hrs							
737	1048	1193.0	43.1	349	464	119	18.5	2100	920	168	673.0	1173.1	.10	10.5	10.2	17.6	19.6	.076	.73	1.05	10.5	8.93	D	
738	1051	1194.0	17.7	365	493	119	19.4	2100	920	161	673.0	1174.1	.09	10.4	10.1	17.6	19.6	.076	.91	1.06	10.5	8.93	D	
739	1054	1195.0	19.4	339	493	119	19.5	2100	921	169	673.0	1175.3	.14	10.4	10.2	17.8	19.7	.077	.89	1.06	10.6	8.93	D	
741	1118	1196.0	16.8	273	385	118	18.4	2080	924	164	652.0	1180.7	.12	10.2	10.3	18.2	19.5	.136	.98	1.04	10.6	9.07	DX	
742	1122	1197.1	13.9	280	397	117	18.1	2080	925	163	651.0	1182.8	.11	10.2	10.3	18.4	19.6	.142	.93	1.04	10.6	9.07	D	
743	1127	1198.0	11.4	312	429	117	18.1	2080	924	169	650.0	1184.6	.12	10.2	10.4	18.7	20.0	.143	.97	1.04	10.6	9.08	D	
744	1131	1199.0	16.3	335	437	116	17.3	2090	923	160	650.0	1185.7	.10	10.2	10.4	18.7	20.0	.144	.89	1.04	10.6	9.08	D	
745	1134	1200.0	17.6	361	404	117	19.5	2090	924	169	649.0	1186.2	.10	10.2	10.2	18.8	20.0	.144	.91	1.04	10.6	9.08	D	
746	1140	1201.0	10.8	296	435	117	22.0	2100	922	169	647.0	1187.5	.08	10.2	9.84	19.0	20.0	.145	1.03	1.04	10.5	9.08	D	
747	1145	1202.0	12.4	281	408	118	26.1	2110	923	169	647.0	1190.0	.07	10.2	9.59	19.0	20.0	.146	1.05	1.04	10.5	9.08	D	
748	1147	1203.0	29.4	309	450	116	26.4	2110	923	161	648.0	1190.8	.05	10.2	9.57	19.1	20.0	.146	.87	1.04	10.5	9.08	D	
749	1150	1204.0	16.4	357	456	117	26.6	2120	923	157	648.0	1192.5	.10	10.2	9.54	19.1	20.1	.146	1.00	1.04	10.4	9.09	D	
750	1153	1205.0	19.2	342	488	118	24.7	2090	922	169	648.0	1193.6	.04	10.3	9.49	19.2	20.1	.147	.96	1.04	10.4	9.09	D	
751	1211	1206.1	15.3	324	430	120	21.3	2130	919	168	631.0	1194.8	.06	10.3	10.2	19.5	20.2	.068	.97	1.04	10.4	9.10	DX	
752	1213	1207.1	24.1	290	401	121	19.3	2120	919	162	633.0	1194.8	.05	10.3	10.2	19.5	20.3	.069	.87	1.04	10.4	9.10	D	
753	1216	1208.2	18.5	284	430	123	19.5	2140	920	168	633.0	1195.3	.05	10.3	10.2	19.6	20.3	.069	.92	1.04	10.4	9.10	D	
754	1218	1209.1	28.8	306	434	121	19.3	2140	919	156	633.0	1195.5	.04	10.3	10.2	19.6	20.3	.070	.83	1.04	10.4	9.10	D	
755	1222	1210.1	16.0	267	464	121	18.9	2130	919	168	633.0	1196.6	.04	10.3	10.2	19.6	20.4	.075	.94	1.05	10.4	9.10	D	
756	1225	1211.1	18.8	261	377	122	18.9	2110	919	160	633.0	1197.2	.02	10.3	10.1	19.7	20.4	.085	.91	1.05	10.4	9.10	D	
757	1228	1212.1	17.0	271	388	122	18.7	2140	919	159	631.0	1197.7	.05	10.3	10.2	19.7	20.6	.111	.93	1.05	10.4	9.10	D	
758	1230	1213.0	26.6	272	375	122	18.7	2150	919	160	631.0	1198.5	.02	10.3	10.2	19.7	20.6	.119	.84	1.05	10.4	9.10	D	
759	1232	1214.0	39.3	276	368	122	19.7	2140	919	159	629.0	1198.8	.02	10.3	10.2	19.7	20.6	.128	.77	1.05	10.4	9.10	D	
760	1245	1215.0	23.5	263	405	122	19.0	2140	919	168	625.0	1199.6	.05	10.2	10.1	19.8	20.5	.134	.87	1.05	10.4	9.10	D	
761	1245	1216.1	30.7	272	402	120	19.1	2160	925	163	621.0	1201.0	.04	10.2	10.2	19.8	20.4	.136	.81	1.05	10.4	9.10	DX	
762	1303	1217.1	23.0	284	481	120	19.2	1860	831	152	631.0	1202.0	.00	10.2	9.46	19.9	20.1	.073	.87	1.05	10.4	9.10	D	
763	1306	1218.1	16.0	314	440	120	21.7	1850	845	143	980.0	1202.7	.03	10.1	9.95	19.9	19.5	.075	.96	1.05	10.4	9.13	D	
764	1309	1219.1	27.9	276	395	121	20.6	1850	847	145	962.0	1203.5	.08	10.2	9.96	19.9	19.6	.076	.87	1.05	10.4	9.13	D	
765	1310	1220.0	27.4	277	407	121	20.2	1850	848	147	961.0	1204.2	.09	10.3	10.2	19.9	19.5	.076	.85	1.05	10.4	9.13	D	
766	1313	1221.1	24.1	271	408	121	21.9	1850	846	148	959.0	1204.7	.10	10.3	10.2	19.9	19.4	.077	.89	1.05	10.4	9.13	D	
767	1316	1222.0	26.2	280	419	121	21.5	1870	845	155	958.0	1204.7	.07	10.4	10.2	19.8	19.5	.075	.92	1.05	10.4	9.13	D	
768	1320	1223.7	23.2	277	425	120	21.8	1860	847	147	962.0	1204.7	.08	10.3	10.2	19.7	19.5	.075	.89	1.05	10.4	9.13	D	
Loss mud to formation, pump LCM material decrease mud density to 10.0 ppg																								
770	1406	1225.0	31.3	251	379	120	19.9	1970	876	153	994.0	1212.0	.05	10.4	10.3	19.3	20.4	.095	.82	1.05	10.4	9.13	DX	
771	1409	1226.0	15.9	289	439	120	20.1	1960	878	161	993.0	1213.5	.06	10.5	10.4	19.3	20.4	.087	.94	1.05	10.4	9.13	D	
772	1414	1227.0	14.2	262	363	120	20.9	1960	877	161	994.0	1214.3	.06	10.5	10.4	19.3	20.5	.096	.98	1.05	10.4	9.16	D	
773	1425	1228.2	6.59	278	450	114	28.9	1970	879	161	990.0	1217.1	.03	10.2	10.4	19.4	20.9	.114	1.21	1.20	1.05	10.5	9.16	D
774	1429	1229.0	11.5	374	487	97	39.9	1970	878	161	995.0	1219.0	.03	10.2	10.4	19.4	21.1	.124	1.15	1.15	1.05	10.5	9.12	D
775	1433	1230.9	16.0	377	483	96	39.0	1980	877	161	996.0	1220.7	.02	10.2	10.4	19.5	21.2	.132	1.07	1.07	1.06	10.5	9.11	D
776	1434	1231.0	54.5	345	491	96	35.4	1980	879	161	996.0	1221.1	.02	10.2	10.4	19.5	21.2	.136	.77	1.06	10.5	9.11	D	
777	1442	1232.0	31.2	327	506	107	30.0	2070	902	165	998.0	1222.4	.06	10.2	10.4	19.6	21.0	.141	.88	1.06	10.5	9.11	D	
778	1444	1233.1	29.1	316	424	124	24.6	2070	904	161	996.0	1223.3	.03	10.2	10.4	19.6	20.9	.139	.87	1.06	10.5	9.11	D	
779	1454	1234.1	27.6	352	438	121	29.3	2120	921	161	975.0	1224.1	.10	10.2	10.1	19.7	20.3	.089	.92	1.06	10.4	9.11	DX	
780	1455	1235.1	58.2	322	422	120	32.2	2110	921	162	975.0	1224.1	.07	10.2	10.1	19.7	20.3	.089	.87	1.06	10.5	9.11	D	
781	1503	1236.0	7.39	328	437	120	38.4	2120	922	163	971.0	1224.1	.05	10.1	10.1	19.8	20.5	.080	1.29	1.28	1.06	10.4	9.11	D
782	1507	1237.0	12.4	323	472	119	36.5	2130	922	169	970.0	1224.1	.06	10.1	10.2	19.8	20.5	.080	1.15	1.15	1.06	10.4	9.07	D
783	1515	1238.0	8.09	311	462	121	34.2	2130	923	161	968.0	1225.3	.07	10.2	10.2	19.8	20.7	.082	1.24	1.23	1.07	10.4	9.07	D
784	1520	1239.1	13.0	323	477	120	32.8	2140	922	160	957.0	1226.6	.02	10.1	10.3	19.8	20.9	.101	1.12	1.12	1.07	10.4	9.05	D
785	1535	1240.0	6.81	316	428	119	33.7	2000	873	150	960.0	1227.5	.03	10.1	10.3	19.8	20.7	.139	1.28	1.27	1.07	10.3	9.05	DX
786	1544	1241.1	6.55	298	412	114	35.5	1980	888	155	961.0	1230.9	.02	10.1	10.3	19.8	20.8	.150	1.30	1.29	1.07	10.3	9.05	D
787	1550	1242.0	9.35	302	468	95	44.3	1980	887	162	959.0	1232.7	.07	10.2	10.4	19.8	20.9	.152	1.25	1.25	1.07	10.3	9.05	D

FT	TIME	DEPTH	ROP	IN/HR	AVG	MAX	RPM	FO3	PUMP	GRM	MUD FLOW	SPM	PVT	RETURNS	GAS MD	1b/gal	TEMP	(C)	RES	OUT	IN	OUT	THIS BIT	EST	FW	DXC	NX	NXB	ECD	NXMD		
									PRES				DDI	DEPTH	%	IN	OUT		OUT	OUT		m	hrs									
768	1557	1243.0	7.05		309	502	104	39.0	1990	887	162	958.0	1234.1	.01	10.3	10.3	19.9	20.9	.153				100	6.0	.94	1.28	1.28	1.00	1.07	10.2	9.05	D
795	1623	1247.3	22.8		359	473	118	32.0	1990	892	156	961.0	1237.6	.02	10.3	10.3	20.1	21.0	.155				104	6.3	.98	1.10	1.00	1.07	1.07	10.3	9.07	DX
796	1625	1248.0	15.1		338	414	119	33.2	1990	892	155	960.0	1237.9	.02	10.3	10.3	20.1	21.1	.155				105	6.3	.98	1.10	1.09	1.07	1.07	10.3	9.07	D
797	1628	1249.0	25.7		348	447	119	33.5	1990	892	156	960.0	1238.3	.02	10.3	10.3	20.1	21.1	.155				106	6.3	.99	.98	.98	1.07	1.07	10.3	9.07	D
799	1631	1250.0	10.4		319	473	118	33.0	1990	892	160	960.0	1238.7	.02	10.3	10.1	20.2	21.1	.155				107	6.4	1.00	1.05	1.05	1.07	1.07	10.3	9.07	D
799	1634	1251.0	17.8		345	476	119	33.2	1990	891	163	959.0	1238.7	.02	10.3	10.2	20.2	21.2	.155				108	6.5	1.00	1.06	1.06	1.07	1.07	10.3	9.08	D
800	1638	1252.1	17.7		332	440	119	33.6	2000	893	156	953.0	1239.2	.03	10.3	10.2	20.2	21.2	.155				109	6.5	1.01	1.06	1.06	1.07	1.07	10.3	9.08	D
801	1640	1253.0	27.1		329	461	119	33.7	2000	892	156	950.0	1239.6	.02	10.3	10.2	20.2	21.2	.155				110	6.6	1.01	.97	.96	1.07	1.07	10.3	9.08	D
802	1651	1254.1	15.2		334	444	116	32.2	2020	899	156	957.0	1240.2	.04	10.1	10.2	20.3	21.2	.156				111	6.6	1.02	1.08	1.07	1.07	1.07	10.4	9.09	DX
803	1653	1255.0	28.2		346	475	116	33.4	2020	898	157	955.0	1240.6	.05	10.1	10.2	20.4	21.2	.156				112	6.7	1.03	.95	.95	1.07	1.07	10.4	9.09	D
804	1655	1256.0	21.1		370	476	115	31.7	2030	900	165	954.0	1241.0	.05	10.1	10.2	20.4	21.2	.156				113	6.7	1.03	1.00	.99	1.07	1.07	10.4	9.09	D
805	1657	1257.0	29.2		389	499	115	32.9	2030	899	165	952.0	1241.2	.05	10.1	10.2	20.4	21.3	.156				114	6.7	1.03	.93	.93	1.07	1.07	10.4	9.09	D
806	1700	1258.2	23.7		364	502	115	31.4	2030	899	158	952.0	1241.3	.05	10.2	10.2	20.4	21.3	.156				115	6.8	1.04	.97	.96	1.08	1.08	10.4	9.09	D
807	1706	1259.0	8.43		329	498	117	31.0	2030	900	158	950.0	1242.1	.04	10.2	10.2	20.4	21.4	.156				116	6.9	1.05	1.19	1.19	1.08	1.08	10.4	9.09	D
808	1709	1260.0	17.3		362	511	115	32.7	2020	899	165	950.0	1242.9	.05	10.1	10.1	20.4	21.4	.156				117	6.9	1.06	1.05	1.04	1.07	1.07	10.4	9.10	D
809	1712	1261.2	26.1		360	459	116	31.6	2020	898	157	952.0	1243.5	.04	10.2	10.1	20.5	21.5	.156				118	7.0	1.06	.95	.95	1.08	1.08	10.4	9.10	D
810	1713	1262.0	25.0		339	452	116	32.0	2020	898	156	953.0	1243.6	.04	10.2	10.1	20.5	21.5	.156				119	7.0	1.07	.96	.96	1.08	1.08	10.4	9.10	D
811	1716	1263.0	19.9		340	478	116	31.6	2030	900	155	955.0	1243.8	.03	10.2	10.2	20.5	21.5	.156				120	7.1	1.07	1.01	1.00	1.08	1.08	10.4	9.11	D
812	1737	1264.0	16.9		257	446	110	29.6	2010	895	164	842.0	1247.6	.01	10.1	10.2	20.6	21.0	.083				121	7.2	1.08	1.02	1.01	1.08	1.08	10.4	9.12	DX
813	1739	1265.0	20.8		341	486	117	28.6	2010	894	153	842.0	1248.6	.01	10.1	10.2	20.6	21.0	.085				122	7.3	1.09	.98	.97	1.08	1.08	10.4	9.12	D
814	1742	1266.1	29.7		335	464	119	28.4	2000	894	164	841.0	1249.5	.01	10.1	10.2	20.6	21.1	.098				123	7.3	1.09	.90	.90	1.08	1.08	10.4	9.12	D
815	1745	1267.1	19.3		349	477	118	28.7	1770	846	143	835.0	1250.4	.02	10.1	10.2	20.6	21.0	.103				124	7.4	1.10	1.00	.99	1.08	1.08	10.4	9.13	D
816	1746	1268.1	17.4		325	488	117	27.9	2120	922	156	836.0	1251.6	.01	10.1	10.2	20.6	21.3	.120				125	7.4	1.10	1.01	1.01	1.08	1.08	10.3	9.13	D
817	1752	1269.0	15.0		306	424	118	28.6	2020	897	158	835.0	1252.6	.01	10.1	10.2	20.6	21.3	.115				126	7.5	1.11	1.05	1.05	1.08	1.08	10.3	9.13	D
818	1759	1270.0	7.96		338	462	118	29.6	2030	897	164	834.0	1253.6	.01	10.1	10.3	20.7	21.5	.143				127	7.6	1.12	1.20	1.20	1.08	1.08	10.3	9.13	D
819	1802	1271.1	24.1		355	478	117	29.8	2030	897	164	834.0	1254.8	.01	10.1	10.3	20.7	21.6	.147				128	7.6	1.13	.96	.96	1.08	1.08	10.3	9.13	D
820	1809	1272.0	7.09		333	489	118	31.6	2040	895	157	832.0	1257.9	.01	10.1	10.3	20.7	21.7	.157				129	7.8	1.14	1.25	1.24	1.08	1.08	10.3	9.13	D
821	1814	1273.0	14.0		329	483	118	31.1	2040	896	152	828.0	1258.5	.01	10.2	10.3	20.8	21.7	.160				130	7.8	1.15	1.09	1.09	1.08	1.08	10.3	9.13	D
822	1825	1274.1	45.5		311	470	109	29.2	2060	883	157	833.0	1261.6	.01	10.1	10.2	20.9	21.7	.160				131	7.9	1.16	.81	.81	1.08	1.08	10.3	9.13	DX
823	1826	1275.0	18.4		380	484	115	31.4	2080	899	156	825.0	1262.6	.01	10.1	10.1	21.0	21.7	.160				132	8.0	1.16	1.03	1.03	1.08	1.08	10.3	9.14	D
824	1832	1276.0	17.9		380	507	115	32.9	2080	899	165	822.0	1263.2	.01	10.1	10.2	21.0	21.6	.161				133	8.0	1.17	1.05	1.05	1.08	1.08	10.3	9.14	D
825	1834	1277.0	18.8		363	491	116	32.5	2040	900	158	822.0	1263.2	.01	10.2	10.1	21.0	21.6	.161				134	8.1	1.17	1.04	1.04	1.08	1.08	10.3	9.14	D
826	1840	1278.0	11.0		341	501	116	31.9	2080	898	164	820.0	1263.8	.01	10.2	9.95	21.1	21.6	.162				135	8.1	1.18	1.15	1.15	1.08	1.08	10.3	9.14	D
827	1841	1279.2	52.1		358	494	116	32.8	2040	899	165	820.0	1264.2	.01	10.2	9.78	21.1	21.6	.162				136	8.2	1.18	.82	.81	1.09	1.09	10.3	9.14	D
828	1845	1280.0	13.9		366	508	116	32.3	2060	899	165	819.0	1265.6	.00	10.2	10.1	21.2	21.6	.163				137	8.2	1.19	1.11	1.10	1.09	1.09	10.3	9.14	D
830	1847	1281.0	20.5		386	499	115	31.3	2090	899	158	821.0	1266.3	.01	10.2	10.1	21.2	21.6	.163				138	8.3	1.20	1.01	1.01	1.09	1.09	10.3	9.14	D
832	1850	1282.0	19.6		379	485	115	32.6	2070	895	156	820.0	1267.4	.04	10.2	10.1	21.2	21.6	.164				139	8.3	1.20	1.03	1.03	1.09	1.09	10.3	9.14	D
833	1906	1283.1	15.5		334	488	116	28.6	2120	910	162	804.0	1269.1	.00	10.1	10.1	20.9	21.5	.087				140	8.4	1.21	1.05	1.04	1.09	1.09	10.3	9.14	DX
836	1909	1284.1	16.8		357	471	119	30.7	2150	912	155	804.0	1269.9	.01	10.1	10.1	20.9	21.6	.086				141	8.5	1.21	1.05	1.05	1.09	1.09	10.3	9.12	D
837	1916	1285.1	15.1		346	487	116	31.0	2140	906	155	801.0	1270.9	.01	10.2	10.1	20.8	21.3	.086				142	8.5	1.22	1.07	1.07	1.09	1.09	10.3	9.12	DX
838	1921	1286.1	15.5		343	503	116	32.5	2130	907	157	802.0	1271.5	.01	10.0	10.1	20.6	21.4	.086				143	8.6	1.23	1.08	1.08	1.09	1.09	10.3	9.13	D
839	1924	1287.1	22.1		361	503	116	31.4	2110	908	166	798.0	1272.0	.01	10.0	10.1	20.6	21.6	.086				144	8.7	1.23	.99	.99	1.09	1.09	10.3	9.13	D
840	1927	1288.1	15.9		350	471	117	30.5	2140	907	160	796.0	1272.8	.01	10.0	10.1	20.5	21.7	.086				145	8.7	1.24	1.06	1.05	1.09	1.09	10.3	9.13	D
841	1929	1289.0	26.3		354	505	116	31.4	2140	907	157	1167	1273.1	.01	10.0	10.1	20.4	21.7	.101				146	8.7	1.24	.95	.95	1.09	1.09	10.3</		

FH	TIME	DEPTH	ROP	TORQUE		RPM	FOU	PUMP	MUD FLOW	FVT	RETURNS		CAS	ND		TEMP	RES		THIS BIT	EST	DWC	NX	NXB	ECD	NXMD
				AVG	MAX						IN	OUT		IN	OUT		m	hrs							
848	1955	1290.0	21.2	366	485	123	30.6	2060	892	155	1155	1278.7	.01	10.0	10.2	20.0	21.7	.160	1.01	1.00	1.09*	10.3	9.16	D	
849	1957	1297.2	33.2	341	463	123	29.5	2050	894	164	1155	1279.6	.01	10.1	10.2	20.0	21.7	.160	.90	.90	1.09	10.3	9.16	D	
851	2001	1290.0	13.4	338	472	123	30.6	2070	894	157	1152	1280.5	.01	10.1	10.2	20.1	21.7	.161	1.11	1.10	1.09	10.3	9.15	D	
852	2004	1299.1	18.9	369	501	123	32.6	2060	892	155	1151	1281.5	.01	10.1	10.2	20.2	21.8	.161	1.05	1.05	1.09*	10.3	9.16	D	
853	2013	1301.0	16.7	328	502	123	31.2	2080	893	154	1151	1282.2	.02	10.1	10.2	20.3	21.8	.162	1.06	1.06	1.09*	10.3	9.16	D	
854	2021	1302.0	47.3	343	478	115	29.3	2030	890	163	1154	1283.8	.02	10.1	10.1	20.4	21.8	.163	.81	.81	1.09	10.3	9.16	DX	
855	2026	1303.1	15.1	351	472	115	32.4	2060	890	154	1144	1285.0	.02	10.1	10.3	20.5	21.8	.163	1.12	1.12	1.10	10.2	9.16	D	
856	2028	1304.0	27.1	373	499	115	32.0	2030	891	163	1145	1285.5	.02	10.1	10.3	20.5	21.8	.163	.96	.95	1.10	10.2	9.16	D	
857	2031	1305.0	23.4	386	509	114	32.3	2040	889	163	1140	1286.4	.03	10.1	10.0	20.6	21.8	.164	.99	.99	1.10	10.2	9.16	D	
858	2033	1306.0	24.8	378	503	113	32.5	2020	890	154	1142	1287.2	.03	10.1	10.1	20.6	21.8	.164	.97	.97	1.10	10.2	9.16	D	
859	2036	1307.0	17.7	362	496	114	32.6	2060	890	151	1141	1288.4	.04	10.1	10.1	20.6	21.8	.164	1.05	1.05	1.10*	10.2	9.17	D	
860	2039	1308.0	21.9	355	473	115	32.1	2050	890	155	1140	1289.5	.04	10.1	10.1	20.6	21.8	.164	1.00	1.00	1.10*	10.2	9.17	D	
861	2042	1309.2	25.8	393	491	115	33.8	2030	890	153	1140	1290.6	.05	10.1	10.1	20.7	21.8	.164	.98	.98	1.10	10.2	9.17	D	
862	2044	1310.0	23.5	351	487	114	31.3	2060	890	157	1139	1291.2	.05	10.1	10.1	20.7	21.8	.164	.98	.98	1.10	10.2	9.17	D	
863	2048	1311.0	18.6	352	468	115	32.5	2050	889	157	1139	1291.4	.05	10.1	10.1	20.7	21.8	.164	1.04	1.04	1.10*	10.2	9.18	D	
864	2050	1312.0	25.1	306	407	115	28.3	2050	889	151	1140	1291.5	.05	10.1	10.1	20.7	21.8	.164	.94	.94	1.10	10.2	9.18	D	
865	2107	1313.0	16.4	309	409	115	25.5	2110	903	159	1139	1297.3	.05	9.97	10.1	20.8	21.8	.165	1.01	1.01	1.10*	10.2	9.19	DX	
866	2111	1314.0	18.9	311	414	115	24.4	2100	903	165	1135	1297.9	.03	10.0	10.1	20.8	21.8	.165	.97	.96	1.10	10.2	9.19	D	
867	2114	1315.0	18.4	320	462	117	25.7	2100	902	157	1134	1298.9	.02	10.0	10.1	20.8	21.8	.165	.99	.99	1.10	10.2	9.19	D	
868	2117	1316.2	21.8	312	413	120	25.5	2100	902	152	1132	1299.8	.02	10.0	10.1	20.8	21.8	.165	.96	.95	1.10	10.2	9.19	D	
869	2120	1317.0	13.9	320	423	121	28.0	2100	903	165	1131	1300.9	.03	9.97	10.1	20.9	21.8	.166	1.08	1.07	1.10*	10.2	9.20	D	
870	2123	1318.0	24.6	320	433	121	28.6	2110	902	157	1131	1300.9	.01	9.94	10.1	20.9	21.8	.166	.94	.94	1.10	10.3	9.20	D	
871	2126	1319.0	18.4	335	432	120	28.0	2100	903	165	1130	1301.3	.01	9.94	10.1	20.9	21.8	.166	1.01	1.01	1.10*	10.3	9.21	D	
872	2128	1320.1	24.0	314	429	120	27.7	2110	903	165	1129	1302.1	.01	9.94	10.1	20.9	21.8	.166	.96	.95	1.10	10.2	9.21	D	
873	2139	1321.0	16.4	328	444	118	28.4	2100	889	156	1116	1304.3	.02	9.95	10.2	20.9	21.6	.088	1.04	1.04	1.10*	10.2	9.21	DX	
874	2142	1322.0	18.7	346	435	124	29.2	2100	902	165	1112	1305.4	.02	9.95	10.2	21.0	21.6	.089	1.03	1.03	1.10*	10.2	9.22	D	
875	2145	1323.1	21.1	348	428	124	29.3	2100	901	158	1109	1306.4	.03	9.97	10.2	20.9	21.6	.088	1.01	1.00	1.10*	10.2	9.22	D	
876	2147	1324.0	29.0	331	420	124	27.5	2100	902	165	1106	1307.0	.03	9.97	10.2	20.9	21.7	.089	.92	.92	1.10	10.2	9.22	D	
877	2149	1325.0	29.8	348	438	124	29.1	2100	902	165	1106	1308.9	.03	9.96	10.2	20.9	21.7	.090	.93	.93	1.10	10.2	9.22	D	
878	2152	1326.1	23.9	326	439	123	29.3	2090	901	156	1106	1308.9	.03	9.97	10.2	20.9	21.7	.117	.98	.98	1.10	10.2	9.22	D	
879	2155	1327.1	17.0	355	445	124	29.0	2090	903	160	1105	1310.0	.03	9.98	10.2	20.9	21.7	.150	1.05	1.05	1.10*	10.2	9.23	D	
880	2157	1328.0	21.1	342	448	124	28.5	2100	903	161	1105	1310.9	.03	9.96	10.2	20.9	21.9	.162	1.00	1.00	1.10*	10.2	9.24	D	
881	2201	1329.1	19.2	337	467	123	30.5	2100	902	157	1105	1311.7	.03	10.0	10.2	20.9	21.9	.166	1.04	1.03	1.10*	10.2	9.24	D	
882	2204	1330.1	15.6	319	440	123	28.8	2100	901	158	1105	1311.7	.02	10.0	10.2	20.9	21.8	.167	1.07	1.07	1.10*	10.2	9.24	D	
883	2215	1331.1	27.4	318	402	123	25.5	2100	903	165	1112	1312.2	.01	10.0	10.2	20.9	21.8	.169	.92	.92	1.10	10.2	9.24	DX	
884	2218	1332.1	22.1	333	435	119	27.0	2110	901	165	1106	1312.9	.02	9.99	10.2	21.0	21.8	.169	.97	.97	1.10	10.2	9.24	D	
885	2221	1333.0	18.5	315	436	120	26.7	2110	903	156	1103	1314.0	.01	9.96	10.2	21.1	21.8	.169	1.01	1.01	1.10*	10.2	9.25	D	
886	2223	1334.0	27.6	353	433	120	27.8	2110	903	159	1102	1314.9	.02	9.96	10.2	21.1	21.9	.170	.93	.93	1.10	10.2	9.25	D	
887	2225	1335.1	27.8	343	434	119	26.8	2110	902	165	1102	1315.5	.02	9.99	10.2	21.1	21.9	.170	.92	.92	1.10	10.2	9.25	D	
888	2228	1336.0	22.5	340	424	120	28.8	2110	902	157	1102	1316.3	.02	10.0	10.2	21.1	21.9	.170	.98	.98	1.10	10.2	9.25	D	
889	2230	1337.0	23.7	339	435	120	27.5	2120	903	163	1099	1317.2	.03	10.0	10.2	21.1	21.8	.171	.97	.96	1.11	10.2	9.25	D	
890	2233	1338.0	18.2	338	448	120	28.7	2130	903	156	1095	1318.3	.03	10.0	10.2	21.1	21.8	.171	1.03	1.03	1.10*	10.2	9.25	D	
891	2236	1339.0	22.3	327	424	121	26.0	2130	903	151	1027	1319.3	.03	10.0	10.2	21.1	21.8	.171	.96	.96	1.10	10.2	9.27	D	
892	2246	1340.1	30.0	316	425	121	26.9	2150	907	158	1033	1320.2	.02	10.1	10.2	21.2	21.8	.172	.91	.91	1.11	10.2	9.27	DX	
893	2248	1341.1	17.0	333	441	123	24.9	2150	908	156	1034	1320.8	.02	10.1	10.2	21.2	21.8	.172	.92	.92	1.11	10.2	9.27	D	
894	2252	1342.0	17.9	351	446	123	27.2	2150	909	156	1038	1322.1	.01	10.1	10.2	21.2	21.8	.172	1.02	1.02	1.10*	10.2	9.28	D	
895	2254	1343.0	24.5	345	424	123	26.5	2150	908	159	1040	1323.0	.01	10.1	10.2	21.2	21.8	.172	.95	.95	1.11	10.2	9.28	D	
896	2256	1344.0	27.0	347	431	123	27.2	2160	908	156	1042	1324.0	.01	10.1	10.2	21.3	21.8	.172	.94	.94	1.11	10.2	9.28	D	
897	2258	1345.1	34.9	325	431	124	26.5	2150	905	157	1043	1324.8	.01	10.1	10.2	21.3	21.8	.172	.88	.88	1.11	10.2	9.28	D	
898	2301	1346.0	18.5	338	440	124	27.2	2160	907	160	1045	1325.8	.01	10.1	10.2	21.3	21.0	.172	1.02	1.02	1.11*	10.2	9.30	D	

F#	TIME	DEPTH	ROP	TORQUE	RPM	FOB	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	TEMP	RIS	THIS BIT	EST	DXC	NX	NXB	BCD	NBXD							
		m	m/hr	AWG	MAX	AVG	PRES	GPM	STRI	BB1	DEPTII	% IN	OUT	m	hrs	TR											
899	2304	1347.1	22.7	319	423	124	26.6	2150	907	166	1044	1326.6	.01	10.1	10.2	21.3	21.8	.172	204	11.5	1.44	.97	.97	1.11	10.2	9.30	D
900	2307	1348.0	17.0	318	426	124	25.7	2160	908	166	1043	1327.7	.01	10.1	10.2	21.3	21.8	.172	205	11.6	1.44	1.02	1.02	1.11*	10.2	9.30	D
901	2309	1349.0	24.6	313	416	124	24.8	2160	907	166	1042	1328.7	.01	10.1	10.2	21.3	21.8	.172	206	11.6	1.44	.94	.93	1.11	10.2	9.30	D
902	2321	1350.0	39.5	280	406	123	23.2	2190	911	161	1042	1330.3	.01	10.1	10.2	21.5	21.8	.173	207	11.7	1.45	.82	.82	1.11	10.2	9.30	D
903	2323	1351.1	29.6	332	424	124	26.5	2190	912	157	1039	1330.4	.01	10.1	10.2	21.5	21.8	.173	208	11.7	1.45	.91	.91	1.11	10.2	9.30	D
904	2325	1352.0	20.6	321	423	123	26.4	2190	912	167	1037	1331.1	.01	10.1	10.2	21.5	21.8	.173	209	11.8	1.45	.98	.98	1.11	10.2	9.30	D
905	2327	1353.0	27.0	331	431	123	27.5	2200	913	159	1035	1331.9	.01	10.1	10.2	21.6	21.8	.173	210	11.8	1.45	.94	.93	1.11	10.2	9.30	D
906	2330	1354.1	22.2	333	439	124	27.1	2200	912	161	1034	1332.9	.01	10.1	10.2	21.6	21.8	.173	211	11.8	1.46	.97	.97	1.11	10.2	9.30	D
907	2332	1355.0	23.5	347	485	123	28.7	2200	912	160	1032	1333.8	.01	10.1	10.2	21.7	21.8	.173	212	11.9	1.46	.98	.97	1.11	10.2	9.30	D
908	2334	1356.0	26.1	322	444	124	25.0	2200	912	152	1030	1334.8	.01	10.1	10.2	21.7	21.8	.173	213	11.9	1.46	.92	.92	1.11	10.2	9.30	D
909	2337	1357.0	21.5	330	427	124	27.2	2210	913	160	1028	1335.9	.01	10.1	10.2	21.7	21.8	.173	214	12.0	1.46	.98	.98	1.11	10.2	9.30	D
910	2340	1358.0	23.3	346	435	123	28.2	2210	911	160	1027	1336.8	.01	10.1	10.2	21.7	21.8	.173	215	12.0	1.47	.97	.97	1.11	10.2	9.30	D
911	2342	1359.0	22.3	332	416	124	26.7	2220	912	167	1025	1337.6	.01	10.1	10.2	21.8	21.8	.173	216	12.1	1.47	.97	.96	1.11	10.2	9.30	D
Date Oct 23 '84																											
912	0001	1360.2	20.1	314	421	122	24.9	2200	904	159	1019	1341.0	.01	10.1	10.2	21.9	21.8	.173	217	12.1	1.48	.97	.97	1.11	10.2	9.30	D
913	0004	1361.0	17.8	308	392	111	22.0	2200	904	166	1011	1342.1	.01	10.0	10.2	22.0	21.8	.174	218	12.2	1.48	.95	.95	1.11	10.3	9.30	D
914	0016	1362.0	13.5	302	434	118	22.8	2300	923	161	984.0	1346.2	.01	10.1	10.2	22.1	21.6	.105	219	12.2	1.48	1.02	1.02	1.11*	10.2	9.35	D
915	0026	1364.0	17.4	315	409	120	20.1	2290	923	169	970.0	1349.3	.02	10.3	10.2	22.2	22.1	.178	221	12.3	1.49	.95	.95	1.11	10.2	9.35	D
916	0029	1365.0	19.3	316	401	120	21.1	2300	923	162	969.0	1349.4	.01	10.3	10.2	22.2	22.1	.180	222	12.4	1.49	.94	.94	1.11	10.2	9.35	D
917	0031	1366.1	20.9	324	417	120	21.0	2290	923	159	968.0	1349.5	.01	10.3	10.2	22.2	22.1	.180	223	12.4	1.49	.87	.87	1.11	10.2	9.35	D
918	0034	1367.1	20.6	303	409	120	21.6	2300	924	161	968.0	1350.9	.02	10.3	10.2	22.2	22.1	.181	224	12.5	1.50	.93	.93	1.11	10.2	9.35	D
919	0038	1368.0	14.0	323	426	121	22.5	2300	922	160	967.0	1352.4	.02	10.3	10.2	22.2	22.1	.181	225	12.5	1.50	1.02	1.01	1.11*	10.2	9.37	D
920	0042	1369.1	14.7	321	451	121	22.8	2300	924	160	965.0	1354.4	.03	10.2	10.2	22.2	22.1	.182	226	12.6	1.50	1.01	1.01	1.11*	10.2	9.37	D
921	0057	1370.0	13.6	288	379	116	24.7	2250	908	166	940.0	1357.8	.02	10.1	10.2	22.3	21.7	.092	227	12.7	1.51	1.04	1.04	1.11*	10.2	9.38	D
922	0104	1371.0	9.24	309	389	119	30.0	2250	908	166	943.0	1359.5	.02	10.2	10.2	22.3	21.7	.095	228	12.8	1.52	1.18	1.17	1.12	10.3	9.35	D
923	0107	1372.1	19.1	293	382	120	27.9	2260	911	162	943.0	1359.5	.02	10.0	10.2	22.4	21.6	.143	229	12.9	1.52	1.00	1.00	1.12	10.3	9.35	D
924	0111	1373.0	14.5	317	407	120	29.7	2260	910	160	942.0	1359.5	.01	10.0	10.0	22.4	22.0	.167	230	12.9	1.52	1.08	1.07	1.12*	10.3	9.36	D
925	0113	1374.0	28.1	288	391	120	28.5	2250	909	166	940.0	1359.9	.01	10.0	10.0	22.4	22.1	.169	231	13.0	1.53	.92	.92	1.12	10.3	9.36	D
926	0116	1375.0	18.8	342	435	119	33.4	2260	908	166	938.0	1361.5	.01	10.0	10.1	22.3	22.2	.172	233	13.1	1.54	1.27	1.27	1.12	10.3	9.36	D
927	0123	1376.1	8.19	298	412	120	37.6	2270	908	166	936.0	1362.5	.01	10.1	10.1	22.3	22.1	.174	234	13.3	1.55	1.32	1.32	1.12	10.3	9.36	D
928	0131	1377.1	7.29	326	457	119	40.1	2270	907	157	938.0	1364.5	.02	10.0	10.1	22.3	22.1	.175	235	13.4	1.55	1.29	1.28	1.12	10.3	9.36	D
929	0138	1378.0	9.07	338	448	119	41.6	2270	907	157	938.0	1364.5	.02	10.0	10.1	22.3	22.1	.175	235	13.4	1.55	1.29	1.28	1.12	10.3	9.36	D
930	0155	1379.0	11.5	332	467	119	41.2	2250	903	153	929.0	1368.3	.01	10.0	10.1	22.4	22.1	.176	236	13.5	1.57	1.23	1.23	1.12	10.3	9.32	D
931	0202	1380.0	8.90	329	425	120	38.1	2250	902	165	929.0	1368.9	.01	10.0	10.1	22.5	22.1	.176	237	13.7	1.57	1.27	1.27	1.13	10.2	9.32	D
932	0206	1381.1	13.9	319	417	119	37.8	2250	902	165	929.0	1369.5	.01	10.1	10.1	22.5	22.1	.176	238	13.7	1.58	1.16	1.16	1.13	10.2	9.30	D
933	0216	1382.0	5.74	315	431	120	39.5	2260	902	151	928.0	1371.7	.01	10.1	10.1	22.6	22.1	.177	239	13.9	1.59	1.39	1.39	1.13	10.2	9.30	D
934	0226	1383.0	6.35	331	427	119	39.5	2260	902	155	925.0	1374.8	.02	10.1	10.1	22.5	22.1	.177	240	14.1	1.60	1.37	1.36	1.13	10.2	9.30	D
935	0238	1385.1	7.87	351	487	120	41.0	2270	903	156	917.0	1376.4	.01	10.0	10.1	22.5	22.0	.177	242	14.3	1.62	1.34	1.33	1.13	10.1	9.30	D
936	0243	1386.0	9.44	354	488	119	41.3	2270	902	160	909.0	1377.2	.01	10.1	10.1	22.5	22.0	.177	243	14.4	1.62	1.29	1.29	1.13	10.2	9.30	D
937	0250	1387.0	8.24	330	487	119	39.5	2270	901	155	915.0	1378.4	.01	10.1	10.1	22.4	22.0	.177	244	14.5	1.63	1.31	1.30	1.13	10.2	9.30	D
938	0256	1388.0	10.6	344	489	120	40.0	2270	901	153	912.0	1378.4	.02	10.1	10.1	22.4	22.0	.177	245	14.6	1.64	1.25	1.25	1.13	10.2	9.30	D
939	0317	1389.1	7.21	336	462	113	35.8	2020	840	145	906.0	1380.4	.01	10.1	10.1	22.4	22.0	.178	246	14.8	1.65	1.29	1.29	1.13	10.2		

F#	TIME	DEPTH	HOP	TORQUE	RPM	EQS	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	TEMP	RES	THIS BIT	EST	DMC	NX	NXB	ECD	NXND							
		m	m/hr	AVG	MAX	AVG	PRES	GPM	SPM	DBI	%	IN	OUT	OUT	m	hrs	TW										
949	0405	1398.1	16.0	343	508	116	40.1	2240	891	154	887.0	1386.9	.01	10.1	10.1	22.2	22.0	.179	255	15.6	1.70	1.15	1.14	1.15*	10.2	9.20	D
952	0702	1399.0	14.0	267	368	113	26.7	2330	928	170	744.0	1390.2	.01	10.2	10.1	21.7	16.6	.093	256	15.7	1.71	1.05	1.05	1.15*	10.2	9.20	D
953	0706	1400.0	12.4	344	445	114	35.0	2330	925	169	736.0	1390.2	.01	10.3	10.1	21.3	19.3	.089	257	15.8	1.71	1.16	1.15	1.15*	10.2	9.20	D
954	0711	1401.0	13.7	346	437	115	37.4	2310	926	160	734.0	1390.2	.01	10.2	10.1	20.5	21.5	.088	258	15.9	1.71	1.15	1.15	1.15*	10.2	9.21	D
Wiper trip at 1198 m																											
956	0715	1402.0	13.8	368	480	115	39.0	2300	927	163	734.0	1390.2	.01	10.2	10.1	19.9	22.4	.090	259	15.9	1.72	1.16	1.16	1.15	10.3	9.20	D
957	0719	1403.0	13.0	361	485	115	40.0	2330	927	157	733.0	1390.2	.02	10.1	10.1	19.5	22.7	.091	260	16.0	1.72	1.19	1.18	1.16	10.3	9.19	D
958	0723	1404.0	14.8	370	460	115	38.2	2350	927	154	734.0	1390.2	.02	10.1	10.1	19.0	22.8	.092	261	16.1	1.73	1.14	1.14	1.16*	10.3	9.20	D
959	0726	1405.0	19.4	374	459	116	39.8	2330	925	157	734.0	1390.2	.02	10.1	10.1	18.9	22.8	.093	262	16.1	1.73	1.09	1.09	1.16*	10.3	9.20	D
960	0732	1406.0	11.6	324	442	115	36.3	2320	926	163	736.0	1390.2	.05	10.1	10.1	19.0	22.7	.094	263	16.2	1.74	1.18	1.17	1.16	10.3	9.19	D
961	0737	1407.0	10.1	309	409	116	33.4	2340	925	162	736.0	1394.5	.06	10.1	10.1	19.7	22.9	.094	264	16.3	1.74	1.19	1.18	1.16	10.3	9.18	D
964	0752	1408.0	13.6	333	441	120	31.2	2270	904	156	724.0	1396.6	.08	10.1	10.1	20.8	22.2	.104	265	16.5	1.75	1.11	1.10	1.16*	10.3	9.19	DX
965	0801	1409.1	12.4	304	405	122	29.6	2230	880	152	720.0	1398.8	.07	10.1	10.1	21.1	22.2	.103	266	16.6	1.76	1.12	1.11	1.16*	10.3	9.19	D
966	0806	1410.1	13.9	321	490	127	33.8	1980	884	153	711.0	1398.9	.09	10.1	10.3	21.3	21.9	.102	267	16.6	1.76	1.14	1.13	1.16*	10.3	9.19	D
968	0813	1411.0	7.41	329	436	127	32.8	2310	897	154	695.0	1399.6	.02	10.1	10.1	21.6	22.2	.153	268	16.8	1.77	1.27	1.26	1.16*	10.3	9.16	D
969	0820	1412.0	9.46	328	413	127	32.6	2330	896	164	653.0	1400.7	.01	10.0	10.1	21.6	22.4	.206	269	16.9	1.78	1.22	1.22	1.17	10.2	9.14	D
970	0823	1413.0	20.9	327	409	127	31.6	2340	897	153	654.0	1401.1	.01	10.0	10.1	21.6	22.4	.209	270	16.9	1.78	1.23	1.23	1.17	10.2	9.14	D
971	0829	1414.0	8.96	343	435	126	32.8	2340	896	164	656.0	1402.1	.01	10.1	10.1	21.1	22.5	.216	271	17.0	1.79	1.23	1.23	1.17	10.2	9.12	D
972	0835	1415.2	13.1	334	447	123	32.7	2340	895	164	655.0	1403.1	.01	10.1	10.2	20.9	22.5	.221	272	17.1	1.79	1.14	1.14	1.17*	10.2	9.12	D
973	0840	1416.0	7.91	320	436	114	33.6	2320	897	150	651.0	1403.8	.01	9.99	10.2	21.8	22.6	.223	273	17.2	1.80	1.25	1.24	1.18*	10.2	9.09	D
974	0900	1417.0	5.38	297	429	115	32.9	2290	890	163	651.0	1404.8	.01	10.0	10.1	21.9	22.4	.227	274	17.4	1.81	1.33	1.32	1.18	10.2	9.08	DX
975	0907	1418.0	8.78	342	452	117	32.2	2270	891	155	642.0	1405.6	.02	10.1	10.1	22.0	22.5	.227	275	17.5	1.82	1.22	1.21	1.18	10.2	9.08	D
976	0914	1419.0	8.07	344	435	116	31.7	2280	890	155	650.0	1407.8	.01	10.1	10.2	22.0	22.5	.228	276	17.7	1.82	1.23	1.23	1.18	10.2	9.06	D
977	0921	1420.0	9.91	321	434	117	32.4	2290	889	154	657.0	1408.7	.01	10.1	10.2	22.0	22.6	.228	277	17.8	1.83	1.19	1.19	1.18	10.2	9.06	D
978	0927	1421.0	8.95	353	474	117	33.9	2300	889	163	656.0	1408.8	.02	10.2	10.0	22.0	22.7	.228	278	17.9	1.83	1.23	1.22	1.19	10.2	9.04	D
979	0934	1422.0	9.27	336	448	117	31.1	2260	890	154	653.0	1411.2	.01	10.1	9.63	22.0	22.8	.228	279	18.0	1.84	1.19	1.19	1.19	10.2	9.04	D
980	0941	1423.0	7.36	326	452	117	31.0	2310	891	163	653.0	1412.5	.02	10.2	9.69	22.1	22.9	.229	280	18.1	1.85	1.24	1.24	1.19	10.2	9.01	D
981	0945	1424.1	17.2	325	422	117	30.3	2320	891	155	652.0	1413.1	.01	10.2	9.72	22.1	22.9	.229	281	18.2	1.85	1.24	1.24	1.19	10.2	9.01	D
982	0953	1425.0	7.13	320	440	118	31.7	2330	889	157	653.0	1414.4	.01	10.1	9.40	22.2	23.0	.229	282	18.3	1.86	1.25	1.25	1.20	10.2	8.98	D
983	0959	1426.0	9.85	322	436	117	30.0	2350	890	163	651.0	1414.9	.01	10.1	9.37	22.3	23.0	.229	283	18.4	1.86	1.16	1.16	1.20*	10.2	8.99	D
984	1011	1427.0	13.4	334	463	117	30.3	2340	876	152	632.0	1415.3	.01	10.1	9.93	22.5	23.1	.090	284	18.5	1.87	1.10	1.10	1.20*	10.2	8.99	DX
985	1020	1428.0	6.83	337	419	117	33.3	2330	878	153	622.0	1416.7	.01	10.2	10.1	20.8	23.0	.089	285	18.6	1.88	1.28	1.27	1.20*	10.2	8.96	D
986	1025	1429.0	12.9	342	430	117	30.4	2360	878	151	624.0	1417.1	.01	10.3	10.1	22.3	23.1	.088	286	18.7	1.88	1.11	1.11	1.20*	10.2	8.96	D
987	1031	1430.0	9.20	331	421	117	31.0	2360	877	152	622.0	1418.2	.01	10.3	10.1	22.7	23.2	.088	287	18.8	1.89	1.19	1.18	1.20*	10.3	8.96	D
988	1036	1431.0	12.6	323	409	117	29.9	2350	878	161	620.0	1418.8	.01	10.3	10.1	22.7	23.4	.088	288	18.9	1.89	1.11	1.10	1.20*	10.3	8.97	D
989	1045	1432.0	6.22	325	441	118	33.0	2360	879	161	617.0	1420.8	.01	10.2	10.1	22.8	23.5	.089	289	19.1	1.90	1.29	1.29	1.21*	10.3	8.93	D
990	1051	1433.0	10.9	322	411	119	31.5	2350	877	157	614.0	1420.9	.01	10.2	10.1	22.9	23.5	.090	290	19.2	1.90	1.15	1.15	1.21*	10.3	8.94	D
991	1101	1434.0	5.61	305	412	119	31.2	2350	879	152	593.0	1423.0	.02	10.1	10.1	22.9	23.6	.091	291	19.3	1.91	1.29	1.29	1.21*	10.3	8.91	D
992	1111	1435.0	6.52	308	410	118	32.5	2340	879	155	588.0	1424.5	.01	10.0	10.1	23.0	23.6	.094	292	19.5	1.92	1.27	1.27	1.22	10.3	8.88	D
993	1122	1436.0	4.95	289	419	117	30.9	2350	878	151	577.0	1427.9	.02	10.0	10.2	23.1	23.5	.105	293	19.7	1.93	1.32	1.32	1.22*	10.3	8.85	D
998	1144	1437.1	6.38	298	395	110	29.5	2410	886	153	591.0	1430.0	.01	10.3	10.2	21.5	23.4	.154	294	19.9	1.94	1.24	1.24	1.22	10.2	8.84	DX
999	1155	1438.0	4.97	313	425	107	30.3	2430	887	159																	

Date Printed at time 12:32 Date Nov 17 '84
Data Recorded at time 19:58 Date Oct 23 '84

F#	TIME	DEPTH	ROP	TORQUE		RPM	ROB	RUMP	GPM	MLD	FLOW	PVT	RETURNS		GAS	MD		TEMP (C)		RES	THIS BIT		EST	DXC	NX	NXB	ECD	NXMD
				AVG	MAX								AVG	SPM		BDI	DEPTH	%	IN		OUT	IN						
5	1958	1447.0	4.47	298	414	117	33.8	2570	916	160	465.0	1445.6	0.00	9.88	10.0	18.4	21.6	0.87	2.0	.2	.06	1.39	1.38	1.23	10.2	8.84	D	
7	2010	1448.0	5.01	346	440	117	43.8	2580	918	162	460.0	1445.6	0.01	9.93	10.0	19.2	22.4	0.90	3.0	.4	.11	1.47	1.46	1.23	10.1	8.84	D	
8	2023	1449.0	4.69	343	435	117	42.8	2590	918	161	459.0	1445.7	0.04	9.99	10.1	20.5	23.0	0.92	4.0	.6	.16	1.48	1.47	1.23	10.1	8.84	D	
9	2033	1450.0	5.65	335	414	117	39.7	2590	917	168	461.0	1445.7	0.05	10.00	10.2	21.2	23.3	0.95	5.0	.8	.19	1.41	1.40	1.23	10.1	8.84	D	
10	2042	1451.0	6.57	347	429	116	41.9	2700	916	168	436.0	1445.7	0.06	10.00	10.2	21.5	22.6	0.94	5.9	1.0	.22	1.39	1.39	1.24	10.0	8.84	D	
11	2052	1452.0	6.33	342	442	117	41.3	2720	917	158	424.0	1446.2	0.02	10.1	10.1	21.5	22.6	0.91	6.9	1.1	.25	1.40	1.39	1.24	10.0	8.84	D	
13	2104	1453.0	4.85	336	418	117	40.2	2780	915	160	420.0	1447.0	0.01	10.1	10.1	21.8	22.5	0.93	8.0	1.3	.29	1.45	1.44	1.24	10.1	8.84	D	
14	2112	1454.0	7.83	347	406	116	39.9	2810	914	161	424.0	1447.5	0.01	10.0	10.1	21.9	22.6	0.93	9.0	1.5	.31	1.33	1.32	1.24	10.1	8.84	D	
15	2122	1455.1	5.95	320	399	117	41.8	2510	898	164	425.0	1448.4	0.01	10.1	10.1	21.7	22.6	0.93	10.0	1.6	.34	1.41	1.40	1.24	10.1	8.84	D	
16	2134	1456.1	5.25	327	393	117	42.2	2500	897	153	419.0	1449.6	0.01	10.2	10.0	21.6	22.7	0.95	11.0	1.8	.37	1.44	1.44	1.24	10.1	8.84	D	
17	2149	1457.0	12.0	308	384	118	35.4	2480	897	153	782.0	1450.6	0.01	10.2	9.99	21.4	22.4	0.92	12.0	2.0	.39	1.18	1.18	1.24	10.2	8.84	D	
18	2159	1458.1	6.35	321	403	116	36.3	2480	894	156	776.0	1451.6	0.01	10.1	10.0	21.4	22.5	0.92	12.9	2.1	.42	1.33	1.32	1.24	10.2	8.84	D	
19	2213	1459.1	4.42	308	397	116	37.6	2480	895	164	783.0	1452.7	0.01	10.2	10.1	21.3	22.5	0.95	14.0	2.4	.45	1.42	1.42	1.24	10.2	8.84	D	
20	2222	1460.0	5.51	333	418	116	38.3	2510	895	164	780.0	1454.0	0.01	10.2	10.1	21.4	22.3	0.98	14.9	2.5	.47	1.38	1.37	1.24	10.2	8.84	D	
21	2233	1461.1	5.96	312	401	116	36.9	2540	895	156	781.0	1454.9	0.01	10.1	10.1	21.2	22.4	0.97	16.0	2.7	.50	1.34	1.34	1.24	10.2	8.84	D	
22	2248	1462.0	3.29	306	378	116	36.2	2540	894	164	781.0	1456.2	0.01	10.1	10.0	21.2	22.4	0.94	17.0	3.0	.53	1.47	1.46	1.24	10.2	8.84	D	
23	2300	1463.0	5.29	303	378	116	35.6	2530	895	153	782.0	1457.3	0.01	10.1	10.0	21.2	22.4	0.94	18.0	3.2	.56	1.36	1.35	1.24	10.2	8.84	D	
24	2313	1464.0	4.53	301	379	116	35.3	2530	895	156	781.0	1458.5	0.01	10.1	10.0	21.2	22.2	0.94	19.0	3.4	.59	1.39	1.39	1.24	10.2	8.84	D	
25	2324	1465.0	5.61	316	392	116	36.8	2500	895	156	777.0	1459.5	0.01	9.95	10.1	21.6	22.2	0.94	20.0	3.6	.61	1.36	1.35	1.25	10.2	8.84	D	
DATE OCT 24 '84																												
26	0009	1466.0	4.93	323	406	116	35.8	2490	889	160	754.0	1462.0	0.00	9.96	10.2	21.0	21.7	0.99	21.0	4.0	.67	1.39	1.38	1.25	10.1	8.84	D	
27	0019	1467.0	5.76	309	387	117	33.6	2510	890	155	756.0	1462.6	0.00	10.0	10.0	20.3	22.1	0.98	21.9	4.2	.69	1.34	1.33	1.25	10.1	8.84	D	
28	0041	1468.0	2.74	300	382	116	36.0	2930	882	156	760.0	1464.2	0.00	10.0	10.0	19.6	21.9	0.99	23.0	4.6	.73	1.54	1.53	1.25	10.1	8.84	D	
29	0100	1469.1	3.56	287	376	117	39.5	2710	863	153	769.0	1465.1	0.01	9.91	10.2	20.7	21.8	0.98	24.0	4.9	.76	1.51	1.51	1.25	10.1	8.84	D	
30	0112	1470.0	4.68	292	381	118	40.8	2650	865	158	768.0	1465.6	0.00	9.96	10.2	21.2	21.8	0.98	25.0	5.1	.78	1.46	1.46	1.25	10.1	8.84	D	
32	0132	1471.0	3.03	295	416	118	40.0	2550	865	149	768.0	1467.1	0.00	10.0	10.2	21.4	21.7	0.93	26.0	5.4	.82	1.56	1.55	1.25	10.1	8.84	D	
33	0145	1472.0	4.64	306	388	118	38.9	2530	864	147	763.0	1467.6	0.00	10.2	10.5	21.5	21.8	0.93	27.0	5.6	.84	1.45	1.44	1.25	10.1	8.84	D	
34	0202	1473.0	3.53	293	360	118	38.7	2610	891	163	766.0	1468.5	0.00	10.2	10.6	21.7	21.8	0.93	28.0	5.9	.87	1.51	1.50	1.25	10.1	8.84	D	
35	0217	1474.0	3.95	297	357	118	39.8	2610	888	159	771.0	1469.8	0.00	10.3	10.5	21.9	22.1	0.93	29.0	6.2	.90	1.48	1.48	1.25	10.1	8.84	D	
36	0236	1475.0	3.08	288	375	117	40.0	2340	894	158	714.0	1471.5	0.00	9.75	10.2	22.6	20.9	0.93	30.0	6.6	.93	1.53	1.53	1.25	10.2	8.84	D	
37	0306	1476.0	6.26	341	466	116	42.1	2270	894	156	761.0	1472.1	0.00	10.1	10.1	22.5	22.0	0.93	31.0	6.7	.95	1.39	1.38	1.25	10.2	8.84	D	
38	0316	1477.0	5.88	295	372	117	40.5	2340	893	164	769.0	1472.6	0.01	10.3	10.0	22.1	22.4	0.93	32.0	6.9	.97	1.39	1.38	1.25	10.2	8.84	D	
39	0331	1478.1	4.02	306	401	116	40.7	2430	891	156	772.0	1473.7	0.01	10.2	10.0	21.9	22.1	0.92	33.0	7.2	.99	1.48	1.48	1.25	10.2	8.84	D	
40	0344	1479.0	4.64	306	368	116	40.2	2460	890	159	777.0	1474.4	0.00	10.2	9.94	21.9	22.4	0.92	33.9	7.4	1.01	1.44	1.44	1.26	10.2	8.84	D	
41	0357	1480.0	4.85	296	382	116	40.3	2490	891	153	783.0	1474.7	0.00	10.2	10.1	21.9	22.5	0.92	35.0	7.6	1.03	1.43	1.43	1.26	10.2	8.84	D	
42	0410	1481.0	4.52	308	372	116	40.5	2510	890	159	784.0	1475.3	0.00	10.2	9.94	21.9	22.6	0.92	36.0	7.8	1.05	1.45	1.44	1.26	10.2	8.84	D	
43	0422	1482.1	4.80	312	372	116	39.4	2510	890	152	786.0	1476.7	0.02	10.2	9.95	22.0	22.8	0.93	37.0	8.0	1.07	1.42	1.41	1.26	10.2	8.84	D	
44	0435	1483.0	3.92	300	399	116	40.3	2480	891	154	786.0	1477.7	0.03	10.1	9.91	22.1	22.4	0.93	38.0	8.2	1.09	1.47	1.47	1.26	10.2	8.84	D	
45	0446	1484.0	5.46	313	382	116	40.4	2430	891	152	787.0	1478.5	0.02	9.99	9.78	22.2	22.4	0.93	39.0	8.4	1.10	1.40	1.39	1.26	10.2	8.84	D	
46	0512	1485.0	6.95	292	366	115	40.4	2420	887	153	785.0	1480.0	0.00	10.1	9.75	22.1	21.9	0.93	40.0	8.7	1.13	1.34	1.34	1.26	10.2	8.84	D	
47	0522	1486.1	6.09	326	423	114	40.1	2420	887	162	788.0	1480.7	0.00	10.1	9.81	21.9	22.3	0.93	41.0	8.8	1.14	1.37	1.37	1.26	10.2	8.84	D	
48	0532	1487.0	5.49	313	396	114	39.6	2450	888	157	791.0	1481.6	0.00	10.2	9.86	21.7	22.5	0.96	42.0	9.0	1.15	1.39	1.39	1.26	10.2	8.84	D	
49	0544	1488.1	5.59	332	422	113	41.8	2470	887	153	790.0	1482.6	0.00	10.2	9.84	21.7	22.4	0.95	43.0	9.2	1.17	1.41						

F#	TIME	DEPTH	ROP	TORQUE		RPM	FOB	PUMP	MUD	FLOW	PVT	RETURNS	GAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DXC	NX	NXB	ECD	NMMD	
		m	m/hr	AVG	MAX		AVG	PRES	GPM	SPM	bbl	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TW						
58	0741	1496.0	4.57	350	441	117	47.2	2490	890	163	835.0	1491.6	0.00	10.2	10.1	21.6	22.3	135	50.9	11.0	1.31	1.50	1.50	1.27	10.3	8.84	D
59	0752	1497.0	5.39	320	400	117	44.7	2510	892	155	835.0	1492.3	0.00	10.2	10.1	21.7	22.4	138	52.0	11.2	1.33	1.44	1.43	1.27	10.3	8.84	D
60	0803	1498.1	5.86	335	420	117	44.0	2510	890	156	838.0	1493.0	0.00	10.2	10.1	21.8	22.4	139	53.0	11.4	1.34	1.41	1.40	1.27	10.3	8.84	D
61	0813	1499.0	5.38	333	416	117	44.3	2510	891	163	840.0	1493.7	0.00	10.2	10.1	22.0	22.3	140	54.0	11.5	1.36	1.43	1.43	1.27	10.3	8.84	D
62	0822	1500.0	7.00	344	426	117	44.6	2510	892	158	844.0	1494.2	0.00	10.3	10.1	22.0	22.3	160	54.9	11.7	1.37	1.43	1.37	1.27	10.3	8.84	D
63	0834	1501.0	4.85	320	404	117	43.6	2500	892	163	853.0	1494.4	0.00	10.1	10.0	22.1	22.2	164	56.0	11.9	1.38	1.45	1.45	1.27	10.3	8.84	D
64	0846	1502.0	4.82	331	411	117	44.9	2480	892	163	859.0	1495.6	0.00	10.1	10.1	22.1	22.4	167	56.9	12.1	1.40	1.47	1.46	1.27	10.3	8.84	D
65	0855	1503.0	6.81	341	412	117	44.5	2480	892	157	862.0	1496.2	0.00	10.1	10.2	22.1	22.4	167	58.0	12.2	1.41	1.38	1.38	1.27	10.2	8.84	D
66	0922	1505.0	8.79	346	435	116	42.5	2480	895	164	859.0	1498.5	0.00	10.0	9.95	22.1	22.2	081	59.9	12.5	1.44	1.31	1.30	1.27	10.2	8.84	D
67	0931	1506.0	6.14	352	445	116	42.8	2480	894	157	865.0	1499.6	0.00	10.0	9.98	22.0	22.6	081	61.0	12.7	1.45	1.40	1.39	1.27	10.2	8.84	D
68	0938	1507.0	8.46	347	435	116	42.4	2490	896	155	869.0	1500.1	0.00	10.1	9.98	22.0	22.7	080	62.0	12.8	1.46	1.32	1.31	1.28	10.2	8.83	D
69	0947	1508.0	6.40	348	425	116	42.4	2480	896	158	879.0	1500.9	0.00	10.1	9.99	22.1	22.8	079	63.0	13.0	1.47	1.39	1.38	1.28	10.2	8.83	D
70	0954	1509.0	9.77	346	465	116	41.5	2470	896	156	882.0	1501.5	0.00	10.1	9.98	22.1	22.8	078	63.9	13.1	1.48	1.28	1.28	1.28	10.1	8.83	D
71	1003	1510.0	6.16	355	446	116	42.8	2470	895	155	887.0	1502.3	0.00	10.1	9.96	22.2	22.9	078	65.0	13.2	1.49	1.40	1.40	1.28	10.1	8.83	D
72	1013	1511.0	6.14	342	410	116	42.5	2470	895	158	893.0	1503.5	0.00	10.1	9.96	22.3	22.9	078	66.0	13.4	1.50	1.40	1.40	1.28	10.1	8.83	D
73	1023	1512.0	6.10	349	427	116	42.8	2460	896	164	899.0	1503.9	0.00	10.0	9.99	22.4	22.8	080	67.0	13.6	1.51	1.41	1.40	1.28	10.1	8.83	D
74	1033	1513.0	7.62	338	416	116	41.3	2460	895	156	904.0	1505.2	0.00	10.1	9.99	22.5	22.8	081	68.0	13.7	1.52	1.34	1.33	1.28	10.1	8.81	DX
75	1053	1514.0	6.68	368	462	115	43.9	2420	891	156	870.0	1507.1	0.00	10.0	9.90	22.6	22.4	083	68.9	13.9	1.54	1.39	1.39	1.28	10.1	8.81	DX
76	1103	1515.0	5.98	345	446	114	42.1	2410	890	155	877.0	1508.4	0.00	10.1	9.99	22.6	22.7	083	70.0	14.1	1.55	1.40	1.40	1.29	10.1	8.81	D
77	1111	1516.0	7.76	358	464	114	42.5	2410	889	155	883.0	1509.3	0.00	10.1	10.0	22.6	22.8	084	70.9	14.2	1.56	1.34	1.34	1.29	10.1	8.79	D
78	1117	1517.0	10.3	377	450	114	41.9	2390	892	157	887.0	1510.0	0.00	10.1	10.0	22.6	22.8	083	72.0	14.3	1.57	1.27	1.26	1.29	10.1	8.80	D
79	1124	1518.0	8.24	368	452	114	41.1	2410	891	156	891.0	1510.7	0.00	10.1	10.0	22.6	22.7	084	73.0	14.5	1.57	1.32	1.31	1.29	10.1	8.79	D
81	1129	1519.0	11.5	363	442	114	42.3	2410	891	163	894.0	1511.3	0.00	10.1	10.0	22.6	22.8	084	74.0	14.5	1.58	1.25	1.24	1.29	10.1	8.81	D
82	1137	1520.0	7.79	359	412	114	41.1	2410	891	157	900.0	1512.1	0.00	10.1	10.0	22.6	22.8	084	75.0	14.7	1.59	1.33	1.32	1.29	10.1	8.80	D
83	1144	1521.0	8.53	355	422	115	42.1	2410	892	163	905.0	1511.2	0.00	10.1	10.0	22.7	22.9	084	75.9	14.8	1.60	1.31	1.31	1.29	10.2	8.79	D
84	1153	1522.0	6.70	365	442	114	42.4	2410	891	154	911.0	1512.3	0.00	10.1	10.1	22.6	22.9	089	77.0	14.9	1.61	1.37	1.37	1.29	10.2	8.79	D
86	1200	1523.0	8.34	356	427	115	43.0	2410	890	154	915.0	1512.7	0.00	9.90	10.0	22.6	22.9	116	78.0	15.1	1.62	1.33	1.32	1.30	10.2	8.78	DX
87	1220	1524.0	6.72	366	442	119	41.1	2500	908	166	913.0	1514.5	0.00	9.82	10.0	22.6	22.7	144	79.0	15.3	1.63	1.37	1.36	1.30	10.2	8.78	DX
88	1228	1525.0	7.27	360	441	120	38.5	2490	909	159	916.0	1516.1	0.00	9.98	10.0	22.6	23.0	162	80.0	15.4	1.64	1.33	1.32	1.30	10.1	8.77	D
89	1236	1526.0	6.93	356	445	120	39.5	2470	909	166	919.0	1517.7	0.00	9.97	10.1	22.6	23.0	166	81.0	15.6	1.65	1.36	1.35	1.30	10.1	8.75	D
90	1246	1527.0	6.19	366	430	120	41.4	2470	909	157	922.0	1519.6	0.01	10.0	10.2	22.6	23.0	168	82.0	15.7	1.66	1.41	1.40	1.30	10.1	8.75	D
91	1251	1528.0	11.1	368	416	121	40.5	2490	911	160	922.0	1520.3	0.01	10.0	10.2	22.6	22.9	168	83.0	15.8	1.67	1.26	1.25	1.30	10.1	8.77	D
92	1258	1529.0	8.05	356	428	120	38.8	2480	911	155	923.0	1521.3	0.01	10.0	10.3	22.6	23.0	170	84.0	15.9	1.68	1.32	1.31	1.30	10.1	8.76	D
93	1300	1530.0	6.48	354	418	120	38.6	2470	909	158	926.0	1521.3	0.01	10.0	10.3	22.7	23.0	171	85.0	16.1	1.69	1.37	1.37	1.31	10.0	8.74	D
94	1316	1531.0	7.68	345	410	121	40.6	2480	909	156	930.0	1523.2	0.01	10.0	10.1	22.7	23.0	172	86.0	16.2	1.70	1.35	1.35	1.31	10.0	8.72	D
95	1325	1532.0	6.65	351	406	120	42.0	2480	909	160	936.0	1523.7	0.00	10.0	10.1	22.7	23.0	173	87.0	16.4	1.71	1.40	1.39	1.31	10.0	8.72	D
96	1344	1533.1	5.24	355	435	119	41.5	2490	912	158	862.0	1525.3	0.00	10.0	10.1	22.7	22.5	086	88.0	16.6	1.73	1.45	1.44	1.31	10.1	8.72	DX
97	1354	1534.1	6.18	345	412	119	40.3	2480	911	161	863.0	1526.6	0.00	10.1	10.1	22.7	22.6	086	89.0	16.8	1.74	1.39	1.39	1.31	10.1	8.72	D
98	1404	1535.0	5.04	341	403	120	39.8	2480	911	162	870.0	1527.9	0.01	10.1	10.1	22.7	23.1	086	90.0	16.9	1.75	1.44	1.43	1.31	10.1	8.72	D
99	1412	1536.0	7.85	366	462	119	41.1	2480	914	157	873.0	1528.8	0.00	10.1	10.1	22.6	23.0	086	91.0	17.1	1.76	1.34	1.33	1.32	10.1	8.71	D
100	1419	1537.0	8.75	354	423	119	39.5	2480	912	157	877.0	1529.8	0.00	10.1	10.1	22.6	23.0	087	92.0	17.2	1.77	1.30	1.29				

Date 12:40 Nov 17 '84
Date 15:43 Oct 24 '84

Date 12:40 Nov 17 '84
Date 15:43 Oct 24 '84

TORQUE										PUMP										MUD FLOW										RETURNS										GAS MD										TEMP (C)										RES										THIS BIT										EST										DXC										NX										NXB										ECD										NMD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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F#	TIME	DEPTH	ROP	TORQUE	RPM	FOB	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	(C)	RES	THIS BIT	EST	DXC	NX	NXB	ECD	NXND					
		m	m/hr	AVG	MAX	AVG	PRES	GPM	SPM	bbbl	DEPTH	%	IN	OUT	OUT	m	hrs	TW									
171	1314	1596.0	1.34	192	275	106	29.2	1090	338	58	799.0	1591.7	.01	9.96	9.96	17.0	17.1	.144	16.0	9.2	.00	1.76	1.75	1.36	10.0	8.75	D
RWB #7 SMITH SIXTH 17.5", 22:22:22 in at 1580 m																											
Reamed 16 m, Cored Formation																											
Drill new formation from 1596 m																											
175	2227	1597.0	15.9	345	452	119	28.0	2600	893	153	703.0	1582.7	.02	10.1	10.1	18.9	19.2	.091	17.0	1.2	.11	1.01	1.00	1.36	10.1	8.75	D
176	2235	1598.0	5.34	370	471	118	31.8	2590	892	158	701.0	1583.7	.01	10.1	10.1	19.2	19.8	.175	18.0	1.3	.13	1.33	1.33	1.36	10.1	8.77	D
177	2245	1599.0	6.39	352	470	119	37.0	2580	893	154	700.0	1584.9	.01	10.1	10.1	19.4	20.6	.184	19.0	1.5	.17	1.35	1.34	1.35	10.1	8.77	D
178	2253	1600.0	7.19	411	483	119	37.9	2560	894	154	699.0	1585.8	.01	10.1	10.1	19.5	20.3	.186	20.0	1.6	.19	1.32	1.32	1.35	10.2	8.79	D
179	2302	1601.0	6.50	390	483	119	39.5	2550	892	163	697.0	1586.8	.02	10.1	10.1	19.7	20.1	.188	21.0	1.8	.22	1.36	1.35	1.35	10.2	8.79	D
180	2307	1602.0	3.80	410	461	117	38.7	2550	893	156	695.0	1601.8	.02	10.1	10.1	19.9	20.1	.189	22.0	2.3	.22	1.48	1.47	1.35	10.2	8.79	D
181	2318	1603.0	6.53	391	483	119	37.0	2570	894	152	693.0	1596.8	.02	10.1	10.1	20.1	20.1	.191	23.0	2.4	.25	1.34	1.33	1.35	10.2	8.80	D
183	2326	1604.1	8.41	377	481	119	38.7	2570	892	156	699.0	1596.8	.02	10.1	10.0	20.3	20.2	.191	24.0	2.5	.28	1.30	1.29	1.35	10.2	8.83	D
184	2332	1605.0	9.24	371	478	119	38.3	2590	893	153	694.0	1597.0	.02	10.1	9.90	20.4	20.3	.192	25.0	2.6	.30	1.27	1.26	1.35	10.2	8.83	D
185	2350	1606.0	7.02	368	479	119	38.9	2540	872	152	686.0	1597.1	.02	10.1	10.0	20.5	20.8	.088	26.0	2.8	.34	1.33	1.33	1.35	10.2	8.84	DX
Date Oct 26 '84																											
186	0000	1607.0	5.83	360	454	115	34.1	2550	879	155	667.0	1597.1	.01	10.2	10.0	20.6	21.0	.090	26.9	3.0	.37	1.32	1.32	1.35	10.2	8.86	D
188	0008	1608.0	7.15	358	479	115	36.0	2560	877	161	669.0	1597.1	.01	10.2	10.1	20.6	21.4	.090	28.0	3.1	.40	1.29	1.29	1.34*	10.2	8.89	D
189	0018	1609.0	5.72	381	482	115	36.7	2560	879	157	666.0	1597.1	.01	10.1	10.0	20.7	21.8	.090	29.0	3.3	.43	1.35	1.34	1.34	10.2	8.89	D
190	0031	1610.0	4.48	353	484	116	36.0	2440	858	151	669.0	1601.4	.01	10.1	10.1	20.9	22.0	.088	30.0	3.5	.40	1.40	1.39	1.35	10.2	8.88	D
191	0039	1611.0	8.14	372	482	115	40.6	2420	859	147	666.0	1602.3	.01	10.1	10.1	20.9	22.0	.088	31.0	3.6	.50	1.31	1.30	1.34	10.2	8.90	D
192	0048	1612.0	6.38	394	484	115	43.6	2400	858	152	659.0	1603.5	.01	10.1	10.1	20.5	21.9	.086	32.0	3.8	.53	1.39	1.38	1.35	10.2	8.89	D
193	0056	1613.0	7.90	413	485	114	44.1	2400	859	152	665.0	1604.4	.01	10.1	10.1	20.3	22.1	.091	33.0	3.9	.56	1.34	1.34	1.35	10.2	8.90	D
194	0107	1614.0	5.42	394	483	115	42.4	2400	860	158	670.0	1605.2	.02	10.1	10.1	19.9	21.8	.122	34.0	4.1	.59	1.42	1.41	1.35	10.2	8.88	D
195	0115	1615.0	7.13	391	482	115	41.5	2380	860	148	669.0	1605.8	.02	10.1	10.1	20.2	21.7	.140	34.9	4.2	.62	1.34	1.34	1.35	10.2	8.88	D
196	0134	1616.0	8.12	400	483	115	42.6	2420	857	157	670.0	1607.4	.01	10.1	10.1	21.0	21.9	.132	36.0	4.4	.65	1.32	1.32	1.35	10.2	8.90	DX
197	0143	1617.0	6.71	395	483	115	43.8	2470	864	148	675.0	1608.2	.01	10.1	10.1	21.1	21.8	.128	37.0	4.5	.68	1.38	1.38	1.35	10.2	8.89	D
198	0153	1618.1	6.27	415	486	113	44.5	2470	864	150	669.0	1609.0	.01	10.1	10.1	21.3	21.8	.124	38.0	4.7	.71	1.40	1.40	1.35	10.2	8.88	D
199	0201	1619.0	6.51	407	486	119	44.0	2490	863	158	667.0	1610.0	.01	10.1	10.1	21.3	22.0	.130	39.0	4.9	.74	1.40	1.39	1.36	10.2	8.86	D
200	0210	1620.0	6.60	409	485	119	44.0	2510	863	153	670.0	1611.0	.01	10.1	10.1	21.4	22.0	.127	40.0	5.0	.77	1.40	1.39	1.36	10.2	8.85	D
201	0218	1621.0	8.46	410	485	119	46.6	2500	862	158	675.0	1612.0	.01	10.1	10.1	21.1	22.1	.132	40.9	5.1	.79	1.36	1.35	1.36	10.2	8.85	D
202	0226	1622.0	6.45	420	486	118	45.1	2460	863	148	687.0	1612.7	.01	10.1	10.2	20.7	22.2	.146	42.0	5.3	.82	1.41	1.41	1.36	10.2	8.84	D
203	0234	1623.0	7.33	409	485	117	43.9	2450	858	150	698.0	1613.6	.01	10.1	10.2	20.4	22.2	.143	43.0	5.4	.84	1.37	1.36	1.36	10.2	8.84	D
204	0243	1624.0	6.94	409	490	118	42.8	2430	859	154	703.0	1614.5	.01	10.1	10.2	20.8	22.1	.144	44.0	5.6	.87	1.38	1.37	1.36	10.2	8.84	D
205	0256	1625.0	4.69	386	490	119	42.9	2420	859	151	723.0	1615.6	.02	10.1	10.2	20.3	21.9	.147	45.0	5.8	.91	1.47	1.47	1.37	10.2	8.84	D
206	0327	1626.2	6.71	386	491	110	40.1	2620	893	154	758.0	1618.1	.02	9.98	10.1	21.0	21.7	.157	46.0	6.1	.96	1.35	1.34	1.36	10.1	8.84	DX
207	0338	1627.0	4.33	380	486	110	42.0	2590	893	158	763.0	1619.4	.02	10.0	10.1	21.1	22.1	.159	47.0	6.3	.98	1.47	1.47	1.37	10.1	8.84	D
208	0345	1628.1	9.03	404	487	116	42.8	2610	893	156	768.0	1620.3	.02	10.1	10.2	21.2	22.1	.160	48.0	6.4	1.00	1.32	1.31	1.36	10.1	8.87	D
209	0353	1629.0	6.88	382	485	116	41.3	2630	893	156	772.0	1621.2	.01	10.1	10.2	21.3	22.1	.161	49.0	6.5	1.03	1.37	1.36	1.36	10.1	8.87	D
210	0400	1630.0	8.22	369	485	116	40.8	2650	893	157	778.0	1622.1	.01	10.0	10.2	21.4	22.1	.161	49.9	6.6	1.04	1.32	1.32	1.36	10.1	8.89	D
RWB SMITH SIXTH 12.25", Jets 16:16:16.																											
Tag cement at 1590 m. Drill new formation from 1630 m.																											
Displace hole with new mud.																											
Date Oct 29 '84																											
217	0600	1631.0	7.50	224	345	71	16.1	2050	622	109	622.0	1630.0	.00	9.77	9.83	20.7	21.5	.096	1.0	1.5	.19	1.36	1.38	1.36	10.1	8.88	DX
218	0609	1632.4	7.50	230	355	75	17.1	2060	621	108	622.0	1630.0	.00	9.77	9.83	20.7	21.6	.096	2.0	1.5	.19	1.46	1.48	1.36	10.1	8.88	D
219	0614	1633.0	15.8	230	369	65	17.9	2080	621	109	617.0	1612.3	.00	9.74	9.87	20.6	21.7	.096	3.0	1.6	.20	1.59	1.61	1.37	10.1	8.88	D
220	0701	1635.0	1.75	267	415	68	24.5	2050	622	110	622.0	1620.8	.02	9.74	9.78	21.5	21.8	.095	5.0	2.3	.32	1.39	1.39	1.37	9.97	8.88	D
Leak off test at 1635 m 12.8 ppg EPMW																											
224	0934	1636.0	10.3	270	385	76	15.1	2040	617	107	619.0	1635.3	.03	9.72	9.75	21.3	21.4	.188	6.0	2.4	.33	1.00	1.00	1.37	9.98	8.88	D
225	0939	1637.1	12.4	292	347	81	22.2	2020	616	108	622.0	1635.3	.03	9.71	9.75	21.2	21.4	.188	7.0	2.5	.36	1.08	1.08	1.37	9.98	8.88	D
226	0945	1638.0	9.65	291	356	81	23.9	2030	617	109	617.0	1635.3	.03	9.68	9.75	20.9	21.4	.188	8.0	2.6	.38	1.16	1.15	1.37	9.97	8.88	D

#	TIME DEPTH	ROP	TORQUE		RPM	FOB	PUMP	MUD	FLOW	PVT	DEPTH	GAS MD	lb/gal		TEMP	RES	THIS BIT	EST	DXC	NX	NXB	ECD	NMO	
			AVG	MAX									IN	OUT										IN
227	0950	1639.0	9.94	274	331	82	22.1	2040	616	105	619.0	1635.3	.02	9.70	9.75	20.6	21.4	.40	1.13	1.13	1.37	9.95	8.88	D
231	1139	1640.1	4.83	218	453	75	25.1	2050	620	110	601.0	1639.7	.02	9.67	9.77	20.6	21.2	.61	1.32	1.31	1.37	9.95	8.90	DX
232	1156	1641.0	3.71	285	454	86	27.8	2040	620	108	603.0	1639.7	.02	9.71	9.75	20.7	21.0	.67	1.46	1.44	1.37	9.91	8.90	D
233	1159	1642.0	15.8	312	353	88	28.1	2040	619	106	604.0	1639.7	.02	9.74	9.78	20.7	21.0	.68	1.12	1.10	1.37	9.91	8.90	D
234	1203	1643.0	15.0	331	398	88	28.7	2060	619	105	604.0	1639.7	.01	9.76	9.77	20.7	21.0	.70	1.14	1.12	1.37	9.91	8.90	D
235	1208	1644.0	13.8	299	345	88	27.8	2050	619	108	604.0	1639.7	.01	9.74	9.75	20.7	21.1	.72	1.15	1.13	1.37	9.91	8.90	D
236	1212	1645.0	13.5	301	361	88	27.7	2050	619	108	605.0	1639.7	.01	9.72	9.74	20.7	21.1	.74	1.15	1.13	1.37	9.91	8.90	D
237	1215	1646.0	18.5	308	356	88	27.8	2040	620	114	605.0	1639.7	.01	9.74	9.76	20.7	21.1	.75	1.08	1.06	1.37	9.91	8.90	D
238	1219	1647.0	14.9	306	365	88	28.6	2060	620	108	605.0	1639.7	.01	9.77	9.74	20.7	21.2	.77	1.14	1.12	1.37	9.91	8.90	D
239	1223	1648.0	17.2	299	349	88	27.4	2060	619	106	605.0	1639.7	.01	9.75	9.74	20.7	21.0	.79	1.09	1.07	1.37	9.91	8.90	D
240	1227	1649.0	14.5	290	348	89	27.4	2060	619	110	605.0	1639.7	.02	9.72	9.71	20.7	21.0	.81	1.13	1.11	1.37	9.92	8.90	D
241	1239	1650.0	13.3	294	339	86	26.4	2130	629	107	603.0	1639.7	.02	9.71	9.77	20.7	20.8	.83	1.13	1.11	1.38	9.93	8.90	DX
242	1244	1651.1	12.6	295	345	84	27.6	2140	631	109	599.0	1639.9	.02	9.72	9.74	20.7	20.7	.85	1.15	1.13	1.38	9.93	8.90	D
243	1249	1652.0	11.7	290	347	84	27.7	2150	629	112	599.0	1640.2	.02	9.74	9.74	20.7	20.7	.87	1.17	1.15	1.38	9.94	8.90	D
245	1253	1653.0	13.0	287	341	84	27.0	2120	630	109	599.0	1640.3	.02	9.74	9.71	20.7	20.8	.88	1.14	1.12	1.38	9.95	8.90	D
246	1257	1654.0	16.1	286	335	84	26.7	2130	630	110	599.0	1640.3	.02	9.75	9.82	20.6	20.8	.90	1.08	1.06	1.38	9.95	8.90	D
247	1301	1655.0	14.6	293	353	89	27.5	2130	630	111	599.0	1640.9	.02	9.75	9.75	20.6	20.9	.91	1.12	1.10	1.38	9.96	8.90	D
248	1304	1656.0	17.5	297	363	113	27.5	2120	630	108	599.0	1641.6	.02	9.77	9.75	20.6	20.9	.93	1.10	1.07	1.38	9.97	8.90	D
249	1307	1657.0	18.3	303	352	118	27.9	2130	630	108	599.0	1642.6	.02	9.71	9.75	20.6	20.8	.96	1.15	1.12	1.38	9.97	8.90	D
250	1311	1658.1	18.5	291	344	118	26.7	2140	630	111	599.0	1643.4	.03	9.71	9.75	20.5	20.8	.98	1.13	1.09	1.38	9.97	8.90	D
251	1314	1659.1	20.8	278	327	118	25.2	2130	630	110	599.0	1644.1	.03	9.71	9.75	20.5	20.8	1.00	1.10	1.05	1.38	9.98	8.90	D
252	1325	1660.0	21.4	302	367	115	28.2	2090	622	110	599.0	1645.9	.03	9.71	9.75	20.5	20.6	1.03	1.10	1.06	1.38	9.98	8.90	DX
253	1328	1661.0	18.6	293	349	117	28.5	2080	622	106	597.0	1646.8	.03	9.71	9.75	20.5	20.5	1.06	1.07	1.03	1.38	10.0	8.90	D
254	1330	1662.0	23.9	309	369	117	27.3	2090	622	106	597.0	1647.4	.03	9.71	9.75	20.5	20.5	1.08	1.10	1.06	1.39	10.0	8.90	D
255	1333	1663.0	24.0	305	354	121	29.4	2100	623	110	597.0	1648.1	.03	9.71	9.75	20.5	20.5	1.10	1.10	1.06	1.39	10.0	8.90	D
256	1336	1664.0	20.6	294	358	121	28.2	2090	622	109	597.0	1648.6	.03	9.71	9.75	20.5	20.5	1.12	1.12	1.08	1.39	10.0	8.90	D
257	1339	1665.0	17.3	269	355	121	26.7	2090	622	109	598.0	1649.3	.03	9.71	9.75	20.4	20.5	1.13	1.14	1.10	1.39	10.0	8.90	D
258	1343	1666.0	16.2	298	350	121	28.1	2090	623	108	598.0	1649.6	.04	9.71	9.75	20.4	20.5	1.15	1.17	1.13	1.39	10.0	8.90	D
259	1345	1667.0	20.5	305	350	121	29.6	2090	622	106	598.0	1650.0	.03	9.71	9.75	20.4	20.5	1.17	1.13	1.09	1.39	10.0	8.90	D
260	1348	1668.0	19.7	308	360	120	29.5	2090	622	108	598.0	1650.7	.03	9.71	9.75	20.3	20.5	1.19	1.14	1.09	1.39	10.1	8.90	D
261	1359	1669.0	22.7	306	376	120	28.8	2110	632	113	601.0	1652.1	.03	9.79	9.75	20.2	20.5	1.22	1.09	1.05	1.39	10.1	8.90	DX
262	1402	1670.0	20.1	317	358	118	27.9	2120	625	107	597.0	1652.8	.03	9.71	9.75	20.2	20.5	1.24	1.11	1.07	1.39	10.1	8.90	D
263	1405	1671.1	19.1	295	362	118	27.5	2120	626	109	596.0	1653.5	.04	9.71	9.75	20.2	20.5	1.26	1.11	1.07	1.39	10.1	8.90	D
264	1408	1672.0	19.7	312	376	117	27.8	2140	626	107	596.0	1654.2	.05	9.71	9.75	20.1	20.5	1.28	1.11	1.07	1.39	10.1	8.90	D
265	1411	1673.0	18.6	299	346	118	28.7	2150	625	107	597.0	1655.0	.05	9.71	9.75	20.1	20.5	1.30	1.13	1.09	1.39	10.1	8.90	D
266	1414	1674.0	18.7	297	375	118	28.1	2140	626	112	597.0	1656.0	.05	9.71	9.75	20.0	20.5	1.32	1.13	1.08	1.39	10.1	8.90	D
267	1418	1675.1	16.0	287	344	119	27.5	2150	624	107	596.0	1657.3	.06	9.71	9.75	20.0	20.5	1.34	1.16	1.11	1.40	10.1	8.90	D
268	1422	1676.0	15.7	285	348	118	27.3	2150	625	110	597.0	1658.4	.06	9.71	9.86	19.9	20.5	1.37	1.16	1.11	1.40	10.1	8.90	D
269	1425	1677.0	17.8	289	335	119	27.7	2140	625	110	597.0	1658.5	.06	9.71	9.71	19.9	20.5	1.38	1.13	1.09	1.40	10.1	8.90	D
270	1428	1678.0	18.0	279	322	119	26.5	2160	625	108	481.0	1658.6	.07	9.71	9.83	19.9	20.5	1.41	1.12	1.07	1.40	10.1	8.90	D
271	1442	1679.0	16.1	269	327	117	21.8	2130	622	109	479.0	1662.3	.08	9.71	9.80	19.8	20.4	1.44	1.08	1.04	1.40	10.1	8.90	DX
272	1446	1680.0	17.7	278	325	120	21.5	2130	622	110	480.0	1663.5	.08	9.71	9.90	19.8	20.4	1.45	1.06	1.04	1.40	10.1	8.90	D
273	1449	1681.0	18.8	300	353	120	25.7	2130	622	114	480.0	1664.4	.07	9.71	9.75	19.8	20.4	1.47	1.10	1.05	1.40	10.1	8.90	D
274	1452	1682.0	19.4	287	354	120	24.1	2140	622	107	479.0	1665.4	.07	9.71	9.75	19.7	20.4	1.49	1.07	1.03	1.40	10.1	8.90	D
275	1455	1683.0	16.9	295	349	120	25.1	2130	621	114	479.0	1666.7	.07	9.71	9.90	19.7	20.4	1.51	1.12	1.07	1.40	10.1	8.90	D
276	1458	1684.1	20.6	290	339	120	24.7	2120	622	108	479.0	1667.8	.07	9.71	9.90	19.7	20.4	1.53	1.07	1.02	1.40	10.1	8.90	D
277	1502	16																						

F#	TIME	DEPTH	HOP	TORQUE	RPM	FOB	PUMP	MUD	FLOW	PVT	RETURNS	GAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DXC	NX	NXB	ECO	NXMD
		m	m/hr	AVG	MAX	AVG	PRES	GPM	SPM	db1	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TW					
284	1523	1689.0	18.6	284	338	120	24.6	2140	621	109	475.0	1673.0	.09	9.71	9.75	19.7	20.5	59.0	6.8	1.62	1.09	1.04	1.41	10.1	8.90 D
285	1525	1690.0	22.1	290	335	120	25.2	2140	621	109	476.0	1673.0	.07	9.71	9.75	19.7	20.5	60.0	6.9	1.64	1.06	1.00	1.41	10.1	8.90 D
287	1529	1691.0	15.3	273	336	121	23.3	2140	621	109	475.0	1677.6	.07	9.71	9.85	19.7	20.5	60.9	6.9	1.66	1.12	1.07	1.41	10.1	8.90 D
288	1533	1692.0	16.5	283	337	120	23.9	2140	620	107	475.0	1678.4	.08	9.71	9.88	19.6	20.5	62.0	7.0	1.68	1.11	1.05	1.41	10.1	8.90 D
289	1536	1693.0	16.7	279	345	120	23.4	2150	622	106	474.0	1679.2	.08	9.71	9.70	19.6	20.5	63.0	7.0	1.70	1.10	1.05	1.41	10.1	8.90 D
290	1541	1694.0	13.8	270	316	121	23.0	2170	621	111	474.0	1680.1	.08	9.71	9.69	19.6	20.5	64.0	7.1	1.72	1.14	1.08	1.41	10.1	8.90 D
291	1544	1695.0	15.1	262	320	121	20.7	2150	623	107	474.0	1680.2	.08	9.71	9.70	19.6	20.5	65.0	7.2	1.74	1.09	1.03	1.41	10.1	8.90 D
292	1548	1696.0	17.1	278	327	121	23.1	2160	621	108	474.0	1680.5	.08	9.71	9.70	19.6	20.5	66.0	7.2	1.76	1.09	1.03	1.41	10.1	8.90 D
293	1551	1697.0	17.1	278	320	121	24.0	2160	621	105	474.0	1682.3	.08	9.71	9.69	19.5	20.5	67.0	7.3	1.78	1.10	1.04	1.41	10.1	8.90 D
294	1601	1698.0	20.9	294	361	118	26.2	2160	623	107	472.0	1683.8	.08	9.71	9.69	19.5	20.5	68.0	7.4	1.80	1.08	1.02	1.41	10.1	8.90 DX
295	1604	1699.0	21.3	300	346	116	27.1	2160	624	114	473.0	1684.3	.09	9.71	9.70	19.4	20.5	69.0	7.4	1.82	1.08	1.02	1.41	10.1	8.90 D
296	1607	1700.0	22.2	303	342	116	27.6	2160	624	106	474.0	1685.0	.09	9.71	9.71	19.4	20.5	70.0	7.5	1.83	1.07	1.01	1.42	10.1	8.90 D
297	1610	1701.0	18.1	301	356	117	27.0	2160	624	110	472.0	1685.7	.05	9.71	9.72	19.4	20.5	71.0	7.5	1.85	1.12	1.06	1.42	10.1	8.90 D
298	1613	1702.0	20.4	291	355	121	26.5	2160	623	114	472.0	1686.5	.06	9.71	9.72	19.4	20.5	72.0	7.6	1.87	1.09	1.03	1.42	10.1	8.90 D
299	1616	1703.0	19.5	291	337	121	26.9	2160	624	112	472.0	1687.2	.07	9.71	9.72	19.4	20.5	73.0	7.6	1.88	1.11	1.04	1.42	10.1	8.90 D
300	1620	1704.0	12.9	292	365	121	28.6	2180	624	112	471.0	1688.3	.07	9.71	9.72	19.4	20.5	74.0	7.7	1.91	1.22	1.16	1.42	10.1	8.90 D
301	1624	1705.0	18.2	294	360	121	29.0	2170	623	104	472.0	1688.7	.07	9.71	9.72	19.4	20.5	75.0	7.7	1.93	1.15	1.08	1.42	10.1	8.90 D
302	1627	1706.0	19.3	300	395	121	26.1	2170	625	110	472.0	1688.9	.07	9.71	9.72	19.4	20.4	76.0	7.8	1.95	1.10	1.03	1.42	10.1	8.90 D
303	1630	1707.1	17.8	289	361	121	26.6	2180	623	104	474.0	1689.6	.07	9.71	9.72	19.4	20.5	77.0	7.8	1.97	1.12	1.06	1.42	10.1	8.90 D
304	1641	1708.0	18.0	306	364	113	27.7	2220	632	111	455.0	1691.5	.08	9.71	9.82	19.3	19.8	78.0	7.9	1.99	1.12	1.05	1.42	10.1	8.90 DX
305	1644	1709.0	20.8	311	387	113	28.9	2250	631	111	446.0	1692.3	.07	9.71	9.75	19.3	19.8	79.0	8.0	2.00	1.10	1.03	1.42	10.1	8.90 D
306	1646	1710.0	22.8	315	364	119	28.4	2230	632	108	447.0	1693.1	.08	9.71	9.75	19.4	19.8	80.0	8.0	2.02	1.08	1.01	1.42	10.1	8.90 D
307	1649	1711.0	23.0	323	393	118	28.5	2250	632	107	447.0	1693.7	.08	9.71	9.75	19.4	19.8	81.0	8.1	2.03	1.08	1.01	1.42	10.1	8.90 D
308	1653	1712.0	13.7	302	475	119	28.8	2220	633	112	447.0	1694.6	.07	9.71	9.75	19.4	19.8	82.0	8.1	2.06	1.21	1.14	1.43	10.1	8.90 D
309	1657	1713.0	16.7	307	355	119	29.3	2260	633	108	447.0	1695.5	.07	9.71	9.75	19.3	19.8	83.0	8.2	2.08	1.17	1.10	1.43	10.1	8.90 D
310	1701	1714.0	14.3	307	355	119	29.1	2240	633	109	446.0	1696.5	.08	9.71	9.75	19.3	19.8	84.0	8.3	2.10	1.20	1.13	1.43	10.1	8.90 D
311	1705	1715.0	17.0	297	351	119	28.4	2240	632	107	447.0	1697.0	.09	9.71	9.75	19.3	19.8	85.0	8.3	2.12	1.15	1.08	1.43	10.1	8.90 D
312	1708	1716.0	15.4	287	349	119	28.1	2250	632	116	446.0	1697.6	.09	9.71	9.75	19.3	19.9	86.0	8.4	2.14	1.17	1.10	1.43	10.1	8.90 D
313	1731	1717.0	16.3	258	332	114	26.4	2170	618	108	445.0	1702.8	.07	9.71	9.75	19.3	19.7	87.0	8.5	2.17	1.13	1.06	1.43	10.1	8.90 DX
314	1735	1718.0	13.8	288	392	113	24.9	2170	619	110	444.0	1703.8	.09	9.71	9.75	19.3	19.7	88.0	8.6	2.19	1.15	1.08	1.43	10.1	8.90 D
315	1739	1719.0	17.5	292	349	120	26.6	2180	619	107	445.0	1704.9	.09	9.71	9.75	19.3	19.7	89.0	8.6	2.20	1.13	1.06	1.43	10.1	8.90 D
316	1742	1720.0	18.9	285	330	120	26.4	2180	619	109	445.0	1705.7	.09	9.71	9.75	19.3	19.7	90.0	8.7	2.22	1.11	1.04	1.43	10.1	8.90 D
317	1746	1721.0	15.7	301	335	120	27.6	2180	619	111	446.0	1706.7	.05	9.71	9.75	19.3	19.7	91.0	8.7	2.24	1.17	1.09	1.43	10.1	8.90 D
318	1749	1722.0	15.9	305	358	120	28.8	2170	619	105	445.0	1707.1	.09	9.71	9.75	19.2	19.8	92.0	8.8	2.26	1.18	1.10	1.43	10.1	8.90 D
319	1753	1723.0	17.9	308	355	119	28.8	2180	620	114	446.0	1707.8	.09	9.71	9.75	19.2	19.8	93.0	8.8	2.28	1.15	1.08	1.43	10.1	8.90 D
320	1756	1724.0	17.4	296	335	120	28.8	2180	619	110	446.0	1709.0	.09	9.71	9.75	19.2	19.8	94.0	8.9	2.29	1.16	1.08	1.44	10.1	8.90 D
321	1759	1725.0	19.7	294	341	120	29.0	2200	619	110	446.0	1710.1	.10	9.71	9.75	19.2	19.8	95.0	9.0	2.31	1.13	1.05	1.44	10.1	8.90 D
322	1803	1726.0	14.8	300	350	120	30.2	2210	618	109	446.0	1711.3	.10	9.71	9.75	19.1	19.8	96.0	9.0	2.33	1.21	1.14	1.44	10.1	8.90 D
323	1822	1727.0	14.4	288	348	125	27.6	2250	628	109	449.0	1714.5	.08	9.69	9.75	19.1	19.7	97.0	9.1	2.36	1.20	1.12	1.44	10.0	8.90 DX
324	1825	1728.0	18.3	295	347	121	28.0	2250	627	109	449.0	1715.3	.08	9.68	9.75	19.1	19.7	98.0	9.2	2.38	1.14	1.07	1.44	10.0	8.90 D
325	1828	1729.0	18.8	298	350	121	28.4	2250	627	110	449.0	1715.9	.09	9.71	9.75	19.1	19.7	99.0	9.2	2.40	1.14	1.06	1.44	10.0	8.90 D
326	1832	1730.0	16.1	303	359	121	29.8	2220	628	110	449.0	1716.4	.09	9.71	9.83	19.1	19.7	100	9.3	2.42	1.19	1.11	1.44	10.0	8.90 D
327	1835	1731.0	19.9	307	383	121	29.4	2230	630	105	449.0	1716.4	.09	9.73	9.75	19.1	19.7	101	9.3	2.43	1.14	1.06	1.44	10.0	8.90 D
328	1839	1732.0	14.9	317	364	121	30.9	2240	628	115	449.0	1716.4	.07	9.71	9.75	19.1	19.8	102	9.4	2.45	1.23	1.14	1.44	10.0	8.90 D
329	1842	1733.0	17.9	316	354	121	30.0	2240	629	111	449.0	1716.7	.08	9.78	9.75	19.1	19.8	103	9.5	2.47	1.17	1.09	1.44	10.0	8.90 D
330	1845	1734.0	20.7	314	359	121	30.8	2250	629	111	449.0	1717.4	.08	9.75	9.68	19.1	19.8	104	9.5	2.49	1.14	1.06	1.44	10.0	8.90 D
331	1849	1735.0	14.9	314	373	121	29.9	2240	628	111	449.0	1718.6	.09	9.77	9.75	19.0	19.8	105	9.6	2.51	1.22	1.13	1.44	10.0	8.90 D
332	1852	1736.0	18.1	312	384	121	30.1	2260	628	111	449.0	1719.4	.09	9.79	9.75	19.0	19.8	106	9.6	2.52	1.17	1.09	1.45	10.0	8.90 D
333	1909	1737.0	16.4	307	368	118	29.3	2180	618	107	431.0	1723.3	.06	9.71	9.73	19.1	19.9	107	9.7	2.55	1.18	1.10	1.45	9.98	8.90 DX
334	1913	1738.1	26.1	312	368	120	29.5	2180	619	109	428.0	1724.4	.07	9.71	9.77	19.1	19.8	108	9.8	2.57	1.14	1.05	1.45	9.99	8.90 D

F#	TIME DEPTH m	ROP m/hr	TORQUE		RPM	FOB	PUMP PRES	MUD FLOW GPM	FLOW SPM	PVT bbl	RETURNS DEPTH	GAS MD %	IN	OUT	TEMP (C)	RES OUT	THIS BIT m	EST TW	DXC	NX	NXB	BCD	NWD		
			AVG	MAX																					
335	1916	1739.1	15.1	303	356	120	28.8	2170	619	110	428.0	1725.2	.09	9.71	9.76	19.1	19.7	.103	1.20	1.12	1.45	10.0	8.90	D	
336	1920	1740.0	14.1	303	360	120	29.5	2180	618	105	428.0	1726.0	.10	9.71	9.77	19.1	19.6	.104	1.23	1.14	1.45	10.0	8.90	D	
337	1924	1741.0	14.4	303	343	120	28.0	2190	618	110	428.0	1726.0	.10	9.71	9.77	19.1	19.7	.103	1.20	1.12	1.45	10.0	8.90	D	
338	1928	1742.0	13.6	304	374	120	28.2	2200	618	109	428.0	1726.3	.08	9.71	9.73	19.2	19.8	.104	1.22	1.13	1.45	10.0	8.90	D	
339	1933	1743.0	14.8	296	358	120	28.0	2180	617	107	428.0	1727.5	.09	9.71	9.76	19.2	19.9	.104	1.19	1.11	1.45	10.0	8.90	D	
340	1937	1744.0	13.7	298	344	120	28.6	2170	619	107	428.0	1728.6	.08	9.71	9.81	19.2	19.9	.122	1.22	1.13	1.45	10.0	8.90	D	
341	1941	1745.0	14.3	294	394	120	29.4	2160	618	113	429.0	1729.8	.09	9.71	9.85	19.2	19.9	.161	1.22	1.13	1.45	10.0	8.90	DX	
344	1954	1746.0	11.4	284	401	119	28.2	2190	624	108	429.0	1732.7	.07	9.71	9.84	19.2	19.6	.183	1.25	1.17	1.45	10.0	8.90	DX	
345	1956	1747.1	22.7	300	362	121	28.2	2190	623	110	429.0	1733.4	.07	9.71	9.84	19.2	19.6	.185	1.09	1.00	1.45	10.0	8.90	D	
346	1959	1748.0	23.7	297	346	121	25.5	2190	622	110	425.0	1734.0	.07	9.71	9.84	19.2	19.6	.186	1.05	.97	1.46	10.0	8.90	D	
347	2001	1749.1	32.9	319	374	121	27.3	2210	624	108	423.0	1734.5	.08	9.71	9.84	19.2	19.6	.187	1.00	.91	1.46	10.0	8.90	D	
348	2003	1750.0	22.6	321	375	120	28.6	2200	624	109	423.0	1735.2	.09	9.71	9.85	19.3	19.6	.189	1.09	1.00	1.46	10.0	8.90	D	
Circulate bottoms up at 1750 m																									
350	2121	1751.1	24.5	285	363	112	21.0	2220	632	102	412.0	1749.7	.06	9.73	9.85	20.0	19.6	.208	.99	.91	1.46	9.91	8.90	D	
351	2124	1752.0	19.6	295	364	113	29.2	2220	632	110	412.0	1749.7	.05	9.69	9.85	20.1	19.6	.208	1.21	1.05	1.46	9.91	8.90	D	
352	2128	1753.1	16.0	277	342	119	28.7	2220	631	109	412.0	1749.7	.06	9.73	9.84	20.2	19.6	.209	1.23	1.07	1.46	9.90	8.90	D	
353	2131	1754.0	17.1	299	376	119	30.1	2220	632	110	412.0	1749.7	.05	9.73	9.84	20.2	19.6	.209	1.20	1.10	1.46	9.90	8.90	D	
354	2137	1755.0	9.10	268	369	119	30.1	2220	633	116	411.0	1749.7	.05	9.69	9.85	20.2	19.7	.210	1.35	1.26	1.46	9.89	8.90	D	
355	2156	1756.0	7.69	272	369	108	31.1	2260	639	114	410.0	1749.7	.04	9.71	9.75	20.1	19.6	.212	1.26	1.10	1.29	1.46	9.90	8.90	DX
356	2200	1757.1	15.0	289	365	117	31.6	2270	639	110	413.0	1749.7	.04	9.71	9.90	19.9	19.6	.212	1.24	1.14	1.46	9.90	8.90	D	
357	2203	1758.0	22.6	291	354	117	28.9	2270	638	111	412.0	1749.7	.04	9.72	9.75	19.9	19.6	.213	1.11	1.01	1.46	9.92	8.90	D	
358	2204	1759.1	42.1	303	379	116	29.3	2270	639	109	411.0	1749.7	.04	9.69	9.89	19.8	19.7	.213	.96	.86	1.47	9.92	8.90	D	
Flow check at 1759.9 m																									
360	2212	1760.0	35.4	273	527	91	27.5	2230	632	108	413.0	1749.7	.05	9.78	9.77	19.7	19.7	.214	.92	.84	1.47	9.94	8.90	D	
361	2220	1761.0	14.7	408	568	114	10.6	2230	634	111	410.0	1749.7	.04	9.79	9.84	19.4	19.7	.214	.94	.87	1.47	9.94	8.90	D	
362	2229	1762.0	11.5	431	569	94	15.5	2250	634	108	410.0	1749.7	.05	9.71	9.75	19.2	19.7	.215	1.03	.96	1.47	9.95	8.90	D	
363	2240	1763.0	19.9	281	535	116	17.7	2220	637	109	410.0	1752.6	.07	9.68	9.75	19.0	19.7	.215	1.00	.91	1.47	9.95	8.90	D	
364	2245	1764.1	15.0	367	534	105	13.1	2220	635	109	414.0	1754.2	.07	9.71	9.70	18.9	19.7	.216	.96	.89	1.47	9.94	8.90	D	
High torque and rotary cut out when back on bottom																									
Circulate bottoms up																									
CB #10 Diamant Board CB303 12.25", In at 1861 m																									
Date Oct 30 '84																									
370	0952	1765.0	3.61	239	535	86	9.47	870	348	60	357.0	1764.0	.02	9.58	9.68	15.8	18.3	.107	1.13	1.14	1.47	9.88	8.90	D	
371	1038	1766.1	2.67	272	499	109	21.0	870	348	62	374.0	1764.0	.02	9.74	9.78	17.5	16.8	.109	1.54	1.53	1.47	9.88	8.88	D	
372	1119	1767.2	2.02	276	468	110	21.2	830	350	60	400.0	1764.0	.02	9.75	9.72	16.9	16.4	.111	1.49	1.48	1.47	9.91	8.88	D	
373	1202	1768.1	1.89	236	464	110	20.7	850	349	60	418.0	1765.3	.02	9.79	9.77	16.4	16.7	.109	1.55	1.54	1.48	9.92	8.86	D	
374	1252	1769.1	1.77	255	631	108	18.5	770	349	61	432.0	1766.5	.02	9.84	9.78	16.4	16.5	.107	1.51	1.50	1.48	9.97	8.85	D	
375	1302	1770.0	5.91	224	541	111	10.2	910	348	60	436.0	1766.7	.02	9.83	9.79	16.3	16.5	.107	1.09	1.08	1.48	9.98	8.85	D	
376	1331	1771.0	2.32	252	561	111	19.9	830	349	62	451.0	1767.5	.02	9.86	9.71	16.3	16.3	.109	1.48	1.47	1.48	10.0	8.86	D	
377	1407	1772.1	2.51	293	575	112	19.0	920	349	62	461.0	1768.3	.02	9.87	9.84	16.2	16.3	.109	1.44	1.43	1.48	10.0	8.88	D	
378	1434	1773.0	2.70	218	547	112	20.3	880	348	59	467.0	1768.5	.02	9.82	9.83	16.1	16.3	.109	1.45	1.44	1.48	10.1	8.89	D	
381	1513	1776.0	8.49	243	545	110	9.88	770	348	63	484.0	1770.5	.02	9.87	9.84	16.0	16.2	.108	1.01	1.00	1.48	10.1	8.89	D	
382	1529	1777.1	26.5	405	574	105	13.2	810	360	63	405.0	1770.7	.02	9.85	9.83	16.0	16.1	.109	1.29	.84	.84	10.1	8.89	DX	
383	1535	1778.0	7.73	378	572	104	14.7	810	359	64	484.0	1770.8	.02	9.84	9.81	16.0	16.0	.109	1.11	1.11	1.48	10.1	8.89	D	
384	1542	1779.1	9.81	319	565	108	12.8	810	359	63	486.0	1771.1	.02	9.84	9.80	15.9	16.0	.109	1.49	1.03	1.48	10.1	8.89	D	
385	1550	1780.0	7.17	366	565	108	16.1	810	358	64	487.0	1771.3	.02	9.84	9.80	15.8	15.9	.109	1.60	1.16	1.48	10.1	8.89	D	
386	1602	1781.1	5.90	310	560	109	16.0	830	358	63	489.0	1771.7	.02	10.0	9.81	15.7	15.9	.109	1.20	1.19	1.48	10.1	8.89	D	
387	1615	1782.0	4.72	291	563	109	17.3	840	359	64	488.0	1772.0	.02	9.75	9.81	15.6	16.0	.111	1.26	1.25	1.49	10.1	8.89	D	
CB #11 Diamant Board CB303, In at 1782 m																									
Date Oct 31 '84																									

井号	TIME	DEPTH	ROP	TORQUE	RPM	FOB	PUMP	MUD	FLOW	SPM	PVT	RETURNS	GAS	MD	lb/gal	TEMP. (C)		RES	THIS BIT		EST	DXC	NX	NXB	ECD	NXND	
																IN	OUT		m	hrs							
392	0108	1783.0	15.0	302	425	94	3.60	760	347	64	495.0	1782.0	.01	9.76	9.74	13.7	15.2	.107	1.0	.1	.10	.73	.73	1.49	9.90	8.89	D
393	0116	1784.1	8.00	362	427	99	4.83	760	347	64	498.0	1782.0	.01	9.78	9.73	13.3	16.4	.108	2.0	.2	.10	.88	.88	1.49	9.91	8.89	D
394	0126	1785.0	5.69	293	429	100	5.99	740	347	60	498.0	1782.0	.01	9.77	9.70	13.2	17.2	.108	3.0	.4	.10	.97	.97	1.49	9.92	8.89	D
395	0132	1786.0	10.1	319	434	99	5.77	760	347	57	499.0	1782.0	.01	9.78	9.68	13.2	17.4	.108	4.0	.5	.10	.87	.87	1.49	9.92	8.89	D
396	0147	1787.0	4.46	313	433	103	7.08	780	347	64	499.0	1782.0	.01	9.80	9.67	13.9	17.4	.109	5.0	.7	.10	1.05	1.05	1.49	9.94	8.89	D
397	0158	1788.0	5.83	263	425	104	6.62	790	347	62	499.0	1782.0	.02	9.63	9.66	14.5	17.3	.110	5.9	.9	.10	.99	.99	1.49	9.94	8.89	D
398	0219	1789.0	3.26	253	425	107	10.6	780	346	62	500.0	1782.0	.04	9.64	9.76	15.3	17.0	.112	7.0	1.2	.10	1.21	1.20	1.49	9.95	8.89	D
399	0244	1790.0	2.62	220	425	109	13.3	860	346	59	496.0	1782.0	.02	9.65	9.72	15.9	16.3	.111	8.0	1.6	.10	1.32	1.31	1.49	9.93	8.89	D
400	0318	1791.0	2.23	231	417	109	19.4	820	346	62	498.0	1783.9	.02	9.66	9.72	16.0	16.2	.111	9.0	2.0	.10	1.49	1.48	1.49	9.89	8.90	D
401	0407	1792.0	1.36	260	432	104	20.3	800	346	60	504.0	1788.1	.02	9.60	9.66	15.9	16.3	.111	10.0	2.7	.11	1.62	1.61	1.49	9.82	8.90	D
402	0421	1793.0	4.63	352	437	96	17.3	770	348	60	505.0	1788.8	.03	9.63	9.67	15.8	16.3	.110	10.9	2.9	.11	1.28	1.28	1.49	9.82	8.90	D
403	0452	1794.0	4.51	326	438	105	15.4	780	346	60	508.0	1789.9	.03	9.67	9.71	15.9	16.3	.110	11.9	3.2	.11	1.27	1.26	1.49	9.82	8.90	DX
404	0458	1795.0	9.13	275	433	114	9.59	790	346	59	509.0	1790.1	.03	9.66	9.73	15.9	16.3	.110	13.0	3.3	.11	1.02	1.00	1.50	9.82	8.90	D
405	0521	1796.0	2.97	296	436	113	13.6	820	345	61	597.0	1790.6	.02	9.51	9.74	15.9	16.3	.112	13.9	3.7	.11	1.33	1.31	1.50	9.83	8.90	D
406	0560	1797.0	1.58	338	433	111	16.1	790	347	61	612.0	1791.5	.02	9.64	9.71	15.7	16.1	.119	15.0	4.3	.11	1.51	1.50	1.50	9.82	8.90	D
407	0616	1798.1	4.04	258	440	112	8.13	790	347	60	614.0	1791.9	.02	9.69	9.72	15.7	16.1	.129	16.0	4.5	.11	1.13	1.12	1.50	9.83	8.90	D
408	0638	1799.0	2.80	328	444	113	13.5	780	348	62	618.0	1793.1	.02	9.72	9.72	15.8	16.0	.144	17.0	4.9	.11	1.33	1.32	1.50	9.84	8.90	D
409	0721	1800.0	1.37	338	496	110	19.4	770	347	61	626.0	1795.7	.01	9.75	9.73	15.7	15.9	.184	18.0	5.6	.11	1.60	1.59	1.50	9.86	8.90	D
410	0748	1801.0	2.48	326	500	111	16.4	800	347	62	629.0	1796.5	.01	9.75	9.72	15.7	15.9	.208	19.0	6.0	.11	1.41	1.40	1.50	9.89	8.90	D
411	0801	1802.0	5.09	337	499	112	14.3	790	346	63	631.0	1796.8	.01	9.76	9.72	15.8	15.9	.217	20.0	6.2	.11	1.22	1.21	1.50	9.90	8.90	D
412	0811	1803.0	6.17	315	484	113	9.62	800	346	59	633.0	1797.1	.01	9.78	9.73	15.8	15.8	.219	20.9	6.3	.11	1.08	1.07	1.50	9.91	8.90	D
413	0839	1804.1	7.46	328	496	103	8.66	800	354	59	632.0	1798.4	.01	9.80	9.74	15.7	15.7	.222	22.0	6.6	.11	1.01	1.00	1.50	9.92	8.90	DX
414	0846	1805.0	7.44	359	494	103	8.68	810	354	62	635.0	1798.5	.01	9.81	9.74	15.8	15.7	.223	23.0	6.8	.11	1.00	1.00	1.50	9.94	8.90	D
415	0853	1806.0	8.46	329	487	108	7.15	820	354	59	638.0	1798.7	.01	9.81	9.73	15.8	15.7	.223	23.9	6.9	.11	.95	.94	1.51	9.94	8.90	D
416	0902	1807.1	7.19	330	487	107	6.89	830	354	63	641.0	1798.9	.01	9.83	9.73	15.8	15.8	.224	25.0	7.0	.11	.97	.96	1.51	9.96	8.90	D
417	0912	1808.0	5.70	308	487	108	7.38	820	354	63	644.0	1799.1	.01	9.83	9.74	15.8	15.9	.224	26.0	7.2	.11	1.02	1.01	1.51	9.97	8.90	D
418	0921	1809.0	7.15	327	489	107	8.21	820	355	59	646.0	1799.3	.01	9.83	9.74	15.8	16.0	.224	27.0	7.3	.11	1.00	.99	1.51	9.98	8.90	D
↑ RKB #11 Diamond Boat CD504 12.25", In at 1810 m																											
422	1012	1810.1	5.32	245	552	68	5.90	880	444	79	639.0	1799.6	.01	9.72	9.58	16.2	12.1	.115	.1	.0	.00	.98	1.02	1.51	10.1	8.90	DI
423	1030	1811.1	4.66	259	552	67	8.62	940	444	80	639.0	1782.2	.01	9.72	9.58	14.4	16.9	.115	1.0	.6	.00	.96	.96	1.51	10.1	8.90	D
424	1041	1812.0	5.13	296	552	68	8.23	910	444	81	640.0	1782.9	.01	9.72	9.58	14.4	12.0	.116	2.0	.7	.00	.99	1.00	1.51	10.1	8.90	D
425	1059	1813.0	4.76	292	553	68	8.92	930	444	78	640.0	1809.2	.01	9.72	9.58	14.6	12.0	.115	3.0	1.1	.00	1.08	1.10	1.51	10.1	8.90	D
426	1714	1814.0	4.58	286	554	67	8.95	930	444	81	641.0	1811.1	.01	9.72	9.60	15.0	12.0	.115	4.0	1.3	.00	1.10	1.11	1.51	10.1	8.90	D
427	1815	1815.1	4.23	286	552	67	10.2	910	445	82	643.0	1812.3	.01	9.72	9.60	15.6	12.0	.115	5.1	1.6	.00	1.16	1.16	1.51	10.1	8.90	DI
428	1754	1816.0	4.27	285	552	106	12.0	810	350	64	730.0	1812.0	.02	9.72	9.71	15.9	16.2	.114	6.0	1.8	.00	1.18	1.17	1.51	10.1	8.90	DI
429	1823	1817.0	2.13	244	539	111	18.9	850	351	64	729.0	1812.3	.02	9.77	9.67	16.2	16.1	.114	7.0	2.2	.00	1.47	1.46	1.51	10.0	8.92	D
430	1845	1818.0	4.37	295	515	110	20.1	880	350	64	731.0	1812.8	.02	9.81	9.71	16.2	16.1	.115	8.0	2.5	.00	1.34	1.33	1.51	10.0	8.92	D
431	1915	1819.0	1.11	221	252	112	23.8	860	350	61	731.0	1814.0	.02	9.72	9.71	16.1	16.1	.114	9.0	2.9	.01	1.71	1.70	1.51	10.0	8.92	D
432	1945	1820.0	1.69	211	511	112	21.7	850	350	56	729.0	1815.6	.02	9.72	9.73	16.1	16.1	.114	10.0	3.4	.01	1.58	1.57	1.52	10.0	8.90	D
433	2014	1821.1	2.21	229	433	112	20.4	870	349	60	730.0	1816.8	.02	9.83	9.71	16.0	16.1	.114	11.1	3.8	.01	1.50	1.48	1.52	10.0	8.91	D
434	2036	1822.0	2.83	300	539	109	20.7	790	350	57	731.0	1817.3	.02	9.72	9.74	15.9	16.0	.114	12.0	4.2	.01	1.44	1.43	1.52	10.0	8.91	D
435	2054	1823.0	6.80	340	554	104	13.1	770	352	58	730.0	1818.0	.02	9.72	9.76	15.9	15.9	.114	13.0	4.4	.01	1.11	1.10	1.52	10.0	8.91	DX
436	2101	1824.0	8.33	318	544	103	10.0	770	352	60	732.0	1818.4	.02	9.72	9.77	15.9	16.0	.114	14.0								

F#	TIME	DEPTH	ROP	TORQUE	RPM	FOB	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	IN	OUT	RES	THIS BIT	EST	DWC	NX	NXB	ECD	NXND	
		m	m/hr	AVG	MAX	AVG	PRES	GPM	SPM	bbi	DEPTH	%	IN	OUT	OUT	OUT	m	hrs	TW					
444	0015	1832.0	5.59	253	532	109	14.7	790	62	753.0	1827.3	.01	9.76	9.73	15.6	15.4	.135	22.0	7.2	.01	1.20	1.19	1.52	9.94 8.91 DX
445	0020	1833.0	4.79	344	541	105	11.3	750	63	753.0	1827.7	.01	9.78	9.72	15.7	15.4	.146	23.0	7.4	.02	1.15	1.15	1.53	9.94 8.91 D
446	0043	1834.0	4.32	309	531	106	8.47	740	62	750.0	1828.1	.01	9.74	9.73	15.7	15.3	.160	24.0	7.6	.02	1.10	1.10	1.53	9.94 8.91 D
447	0112	1835.0	2.71	269	523	107	10.5	810	59	748.0	1829.2	.01	9.71	9.73	15.8	15.3	.190	25.0	8.0	.02	1.25	1.24	1.53	9.94 8.91 D
448	0134	1836.0	3.49	303	523	106	16.6	810	61	745.0	1830.3	.02	9.70	9.72	15.8	15.2	.209	26.0	8.2	.02	1.33	1.32	1.53	9.94 8.91 D
449	0205	1837.0	2.63	277	531	107	20.1	850	59	748.0	1832.0	.02	9.72	9.73	15.8	15.1	.226	27.0	8.7	.02	1.46	1.45	1.53	9.92 8.91 D
450	0236	1838.0	2.09	237	528	109	22.2	880	61	744.0	1833.8	.01	9.69	9.73	15.8	15.1	.231	28.0	9.2	.02	1.56	1.55	1.53	9.90 8.91 D
RKB #11 Diamant Boart CD504 12.25", In at 1837.5 m																								
457	1227	1838.0	3.21	217	528	85	9.64	820	61	705.0	1837.5	.03	9.70	9.72	15.2	15.9	.120	.5	.4	.20	1.16	1.17	1.53	9.85 8.91 D
458	1240	1839.1	3.68	244	505	110	17.5	890	63	705.0	1837.5	.02	9.70	9.68	15.5	15.8	.118	1.5	.6	.20	1.35	1.34	1.53	9.85 8.91 D
459	1256	1840.0	3.67	241	285	111	20.1	890	60	705.0	1837.5	.02	9.72	9.70	15.7	15.5	.117	2.2	.9	.20	1.40	1.39	1.53	9.84 8.91 D
460	1324	1841.1	2.66	284	534	110	21.2	930	62	705.0	1837.5	.02	9.72	9.72	15.8	15.2	.118	3.5	1.3	.20	1.49	1.48	1.53	9.85 8.93 D
461	1342	1842.0	3.78	363	552	104	16.4	750	63	708.0	1837.5	.02	9.72	9.73	15.7	15.2	.119	4.5	1.6	.20	1.31	1.30	1.53	9.86 8.93 D
462	1347	1843.0	8.07	336	549	107	11.0	760	60	708.0	1837.5	.02	9.72	9.73	15.7	15.2	.118	5.5	1.7	.20	1.06	1.04	1.53	9.87 8.93 D
463	1354	1844.0	8.96	351	543	104	10.2	780	66	708.0	1837.5	.01	9.72	9.70	15.7	15.2	.118	6.5	1.8	.20	1.01	1.01	1.53	9.87 8.93 D
464	1404	1845.0	6.83	322	545	105	12.2	780	60	709.0	1837.5	.01	9.72	9.69	15.7	15.1	.118	7.5	2.0	.20	1.11	1.10	1.53	9.88 8.93 D
465	1414	1846.0	6.21	359	550	104	10.0	770	63	708.0	1837.9	.02	9.72	9.70	15.7	15.1	.118	8.4	2.1	.20	1.08	1.07	1.53	9.89 8.93 D
466	1422	1847.0	8.46	325	537	109	9.73	770	64	708.0	1838.2	.02	9.72	9.73	15.7	15.1	.118	9.4	2.3	.20	1.02	1.01	1.54	9.89 8.93 D
467	1444	1848.0	2.79	337	535	109	19.7	800	60	707.0	1839.1	.02	9.72	9.72	15.6	15.1	.117	10.5	2.6	.21	1.45	1.43	1.54	9.90 8.93 D
468	1511	1849.0	6.68	234	528	110	18.5	870	65	709.0	1840.0	.02	9.72	9.74	15.5	14.9	.117	11.5	2.8	.21	1.24	1.22	1.54	9.92 8.93 DX
469	1520	1850.0	6.78	187	503	111	19.6	920	62	711.0	1840.4	.02	9.72	9.75	15.5	14.9	.117	12.5	3.0	.21	1.25	1.23	1.54	9.92 8.93 D
470	1541	1851.0	3.02	232	508	111	20.6	950	61	711.0	1841.3	.03	9.72	9.77	15.5	14.9	.118	13.5	3.3	.21	1.45	1.43	1.54	9.92 8.93 D
471	1606	1852.0	2.60	227	435	111	20.4	940	60	710.0	1844.3	.02	9.72	9.78	15.5	15.1	.118	14.5	3.7	.21	1.48	1.46	1.54	9.91 8.93 D
472	1626	1853.0	2.89	226	297	111	19.9	960	65	705.0	1846.2	.01	9.72	9.75	15.4	15.0	.119	15.5	4.1	.21	1.45	1.43	1.54	9.91 8.93 D
473	1653	1854.0	2.34	215	310	110	19.9	920	60	698.0	1847.8	.01	9.72	9.81	15.3	15.3	.124	16.3	4.5	.21	1.49	1.47	1.54	9.90 8.96 D
474	1745	1855.0	1.22	218	293	106	20.7	930	63	696.0	1850.9	.02	9.83	9.93	15.4	15.4	.140	17.5	5.4	.21	1.64	1.62	1.54	9.93 8.96 D
475	1812	1856.0	2.29	211	297	107	20.7	960	61	693.0	1852.1	.02	9.81	9.93	15.4	15.4	.166	18.5	5.8	.21	1.50	1.48	1.53	9.96 8.98 D
476	1848	1857.1	1.91	220	330	107	19.5	920	63	692.0	1853.6	.01	9.84	9.86	15.4	15.2	.210	19.4	6.4	.21	1.51	1.50	1.53	9.98 9.00 D
477	1909	1858.0	2.62	214	302	108	20.4	940	65	694.0	1854.3	.01	9.76	9.87	15.4	15.2	.236	20.3	6.8	.21	1.46	1.44	1.53	9.99 9.00 D
478	1943	1859.1	2.56	233	543	107	19.0	820	61	697.0	1854.8	.01	9.85	9.90	15.4	15.3	.245	21.4	7.3	.22	1.44	1.43	1.53	9.96 9.00 D
479	2017	1860.0	9.20	311	552	95	12.5	800	62	694.0	1855.9	.01	9.81	9.92	15.4	15.3	.248	22.5	7.7	.22	1.03	1.03	1.54	9.95 9.00 D
480	2026	1861.0	6.31	291	550	108	12.8	820	63	693.0	1856.2	.01	9.80	9.93	15.4	15.4	.248	23.4	7.9	.22	1.13	1.12	1.54	9.96 9.00 D
Core #5 cut 23.5 m in 8.3 hrs, recovered 21.5 m																								
RNCB #8 Diamant Boart CB303 12.25", In at 1861 m																								
488	1445	1862.0	4.72	211	393	76	12.9	1170	350	61	668.0	1861.0	0.00	9.74	9.83	17.1	15.8	.120	1.0	.3	1.12	1.14	1.54	10.0 9.00 D
489	1500	1863.0	4.15	246	463	101	20.5	1200	350	60	669.0	1861.0	0.00	9.72	9.77	16.0	16.7	.121	2.0	.5	1.34	1.34	1.54	10.0 9.00 D
490	1518	1864.0	3.38	302	406	100	23.1	1160	350	60	686.0	1861.0	0.00	9.81	9.72	15.4	16.9	.120	3.0	.8	1.43	1.43	1.54	10.0 9.00 D
491	1547	1865.0	2.01	302	524	99	28.5	1190	350	59	690.0	1861.0	0.00	9.65	9.80	15.6	16.9	.120	4.0	1.3	1.64	1.64	1.54	9.99 9.00 D
492	1610	1866.0	2.71	274	529	99	32.1	1230	351	59	690.0	1861.0	0.00	9.74	9.87	16.0	16.8	.125	5.0	1.7	1.62	1.63	1.54	9.95 9.00 D
493	1628	1867.0	3.16	221	534	99	33.6	1180	316	57	691.0	1861.0	0.00	9.75	9.84	16.3	16.5	.124	6.0	2.0	1.61	1.61	1.54	9.93 9.00 D
494	1641	1868.0	4.72	262	527	100	35.8	1190	315	58	695.0	1861.6	0.00	9.77	9.81	16.4	16.4	.124	7.0	2.2	1.54	1.54	1.54	9.92 9.00 D
495	1656	1869.0	3.91	225	477	101	36.2	1200	316	56	695.0	1862.3	0.00	9.71	9.82	16.6	16.3	.124	8.0	2.5	1.60	1.60	1.54	9.89 9.00 D
496	1712	1870.0	3.90	228	527	100	34.8	1100	316	56	696.0	1863.3	0.00	9.75	9.82	16.6	16.2	.123	9.0	2.7	1.58	1.58	1.54	9.89 8.99 D
497	1733	1871.0	2.77	282	541	99	33.8	1150	322	56	692.0	1864.1	0.00	9.73	9.83	16.6	16.3	.123	10.0	3.1	1.66	1.66	1.54	9.88 8.99 D
498	1818	1872.0	2.53	299	546	95	33.7	1080	319	56	694.0	1865.2	0.00	9.72	9.82	16.4	16.7	.123	11.0	3.5	1.67	1.67	1.54	9.87 8.99 DX
499	1837	1873.0	2.99	318	555	93	27.4	1190	319	58	694.0	1866.0	0.00	9.72	9.82	16.3	16.5	.123	12.0	3.8	1.52	1.53	1.54	9.89 8.99 D
500	1855	1874.0	3.10	275	537	109	34.7	1180	318	57	693.0	1866.8	0.00	9.72	10.0	16.3	16.6	.124	13.0	4.1	1.66	1.65	1.54	9.89 8.99 D
501	1914	1875.0	3.21	225	534	109	35.4	1170	319	54	694.0	1868.2	0.00	9.72	9.91	16.3	16.6	.124	14.0	4.4	1.67	1.65	1.54	9.88 8.99 D
502	1932	1876.0	3.35	220	521	110	32.5	1170	319	57	700.0	1869.5	0.00	9.72	9.91	16.3	16.4	.124	15.0	4.7	1.62	1.60	1.54	9.88 8.99 D

F#	TIME	DEPTH	ROP	TORQUE	RPM	EQB	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	TEMP	RES	THIS BIT	EST	DNC	NX	NXB	ECD	NXMD																			
		m	m/hr	AVG	MAX	AVG	FRES	GPM	SPM	BDI	%	IN	OUT	m	hrs	TW																							
503	1947	1877.0	3.95	246	509	110	30.5	1160	320	55	702.0	1870.3	.02	9.72	9.91	16.4	16.3	.124	16.0	5.0	.01	1.55	1.53	1.54	9.88	8.99	D												
504	2004	1878.0	3.49	210	527	110	30.3	1200	319	56	703.0	1871.2	.02	9.72	9.91	16.6	16.3	.124	17.0	5.3	.01	1.58	1.56	1.55	9.87	8.99	D												
505	2018	1879.0	4.32	199	462	111	29.7	1210	319	58	702.0	1871.7	.02	9.72	9.91	16.7	16.3	.124	18.0	5.5	.01	1.51	1.50	1.55	9.89	8.99	D												
506	2043	1880.0	2.51	176	532	110	33.0	1190	320	56	705.0	1872.6	.01	9.72	9.91	16.7	16.2	.124	19.0	5.9	.02	1.70	1.68	1.55	9.88	8.99	D												
507	2100	1881.0	3.43	236	472	111	31.5	1180	319	57	705.0	1873.5	.02	9.72	9.91	16.7	16.2	.124	20.0	6.2	.02	1.60	1.58	1.55	9.88	8.98	D												
508	2116	1882.0	3.64	226	287	111	27.3	1120	320	56	706.0	1874.4	.02	9.72	9.91	16.6	16.2	.124	21.0	6.5	.02	1.52	1.51	1.55	9.88	8.99	D												
509	2159	1883.1	3.86	235	362	110	29.3	1270	317	55	710.0	1876.6	.02	9.71	9.76	16.6	16.3	.128	22.0	7.0	.02	1.53	1.52	1.55	9.88	8.99	DX												
510	2211	1884.0	4.63	245	296	110	32.2	1200	317	57	710.0	1877.4	.03	9.67	9.76	16.6	16.3	.131	23.0	7.2	.02	1.53	1.52	1.55	9.88	9.00	D												
511	2222	1885.0	5.14	239	344	110	30.8	1260	318	57	712.0	1878.0	.03	9.70	9.71	16.5	16.4	.140	24.0	7.4	.02	1.48	1.47	1.55	9.88	9.00	D												
512	2239	1886.0	3.54	267	536	108	31.7	1090	319	54	714.0	1879.2	.03	9.66	9.70	16.5	16.4	.151	25.0	7.7	.02	1.59	1.58	1.55	9.87	9.00	D												
513	2259	1887.0	2.97	344	533	108	30.4	1140	318	55	716.0	1879.9	.02	9.68	9.70	16.5	16.5	.157	26.0	8.1	.02	1.61	1.60	1.55	9.87	9.00	D												
514	2321	1888.0	3.02	323	513	108	27.4	1150	318	55	756.0	1881.0	.01	9.70	9.70	16.5	16.6	.159	27.0	8.3	.02	1.58	1.57	1.55	9.74	8.99	Df												
RRCB#3 Diamond Beart CD504 12.25"																																							
Cut core #7 : 1888.5 m to 1916.5 m.																																							
Date Nov 3 '84																																							
520	1029	1889.0	3.33	330	498	101	18.2	1210	337	60	712.0	1888.5	.28	9.92	9.87	15.7	17.3	.128	.5	1.3	.00	1.34	1.34	1.55	10.1	8.99	Df												
521	1054	1890.0	3.30	367	511	109	28.0	1110	337	60	721.0	1888.5	.22	9.86	9.81	16.2	16.6	.132	1.5	1.7	.00	1.52	1.51	1.55	10.0	9.00	D												
522	1102	1891.0	2.31	297	511	108	27.3	1130	337	61	724.0	1888.5	.11	9.84	9.81	16.3	16.4	.131	2.5	1.8	.00	1.60	1.59	1.55	10.0	8.99	D												
523	1117	1892.0	2.34	251	510	109	27.9	1080	338	59	723.0	1888.5	.04	9.87	9.82	16.6	16.1	.127	3.5	2.1	.00	1.66	1.65	1.55	9.71	8.99	D												
524	1134	1893.0	3.58	309	510	109	28.0	1230	338	59	731.0	1888.5	.03	9.89	9.82	16.6	16.0	.127	4.5	2.4	.00	1.56	1.54	1.55	9.72	8.99	D												
525	1146	1894.0	5.17	293	509	110	27.5	1250	337	57	737.0	1888.5	.03	9.87	9.81	16.6	15.9	.128	5.5	2.5	.01	1.46	1.45	1.55	9.73	8.99	D												
526	1159	1895.0	4.58	265	535	110	31.2	1230	338	57	738.0	1888.5	.03	9.85	9.84	16.5	15.8	.128	6.5	2.8	.01	1.54	1.53	1.55	9.74	9.00	D												
527	1210	1896.0	5.40	287	533	111	31.4	1270	337	60	740.0	1888.5	.04	9.85	9.88	16.5	15.8	.129	7.5	3.0	.01	1.50	1.49	1.55	9.75	9.00	D												
528	1225	1897.0	4.99	235	532	111	32.2	1230	338	59	729.0	1888.8	.02	9.81	9.88	16.4	15.8	.129	8.5	3.2	.01	1.53	1.52	1.55	9.75	9.00	D												
529	1233	1898.1	6.02	281	518	111	34.1	1270	338	58	730.0	1889.4	.03	9.82	9.86	16.4	15.7	.129	9.5	3.3	.01	1.51	1.50	1.55	9.75	9.00	D												
530	1256	1899.0	6.71	268	350	111	27.9	1340	337	61	730.0	1889.8	.02	9.82	9.92	16.3	15.6	.129	10.5	3.5	.02	1.38	1.36	1.55	9.91	9.00	D												
531	1302	1900.0	7.32	341	545	110	31.5	1100	340	59	730.0	1890.1	.02	9.82	9.90	16.3	15.7	.129	11.5	3.6	.02	1.40	1.39	1.55	9.91	9.00	D												
532	1316	1901.0	4.25	327	552	109	31.5	1270	339	61	732.0	1891.1	.03	9.82	9.89	16.2	15.6	.128	12.5	3.8	.02	1.53	1.52	1.55	9.91	9.01	D												
533	1330	1902.0	4.30	349	546	110	32.3	1280	338	60	732.0	1892.1	.03	9.82	9.87	16.2	15.7	.128	13.5	4.1	.02	1.54	1.53	1.55	9.92	9.02	D												
534	1344	1903.0	4.51	351	548	109	32.3	1160	338	58	733.0	1893.1	.03	9.82	9.89	16.1	15.7	.126	14.5	4.3	.02	1.53	1.52	1.55	9.92	9.02	D												
535	1400	1904.0	3.61	268	542	110	32.4	1270	339	60	738.0	1894.2	.03	9.82	9.91	15.9	15.7	.125	15.5	4.6	.02	1.59	1.58	1.55	9.93	9.02	D												
536	1418	1905.0	3.30	235	468	111	32.0	1290	338	58	744.0	1895.5	.03	9.84	9.89	15.8	15.7	.123	16.5	4.9	.02	1.61	1.59	1.56	9.94	9.01	D												
537	1435	1906.0	3.60	260	536	111	31.9	1220	338	58	749.0	1896.8	.04	9.84	9.87	15.7	15.6	.123	17.5	5.1	.02	1.58	1.57	1.56	9.95	9.01	D												
538	1450	1907.0	4.00	253	554	110	32.9	1200	340	60	752.0	1897.8	.04	9.81	9.83	15.6	15.6	.123	18.5	5.4	.02	1.56	1.55	1.56	9.97	9.01	D												
539	1457	1908.0	8.39	311	542	110	32.6	1270	338	60	749.0	1898.3	.04	9.81	9.81	15.6	15.6	.123	19.5	5.5	.02	1.37	1.36	1.56	9.98	9.01	D												
540	1521	1909.0	4.51	254	531	110	30.3	1140	331	61	765.0	1900.2	.04	9.82	9.80	15.5	15.4	.126	20.5	5.8	.03	1.50	1.48	1.56	9.98	9.01	Df												
541	1536	1910.0	3.92	295	479	111	30.4	1240	331	56	772.0	1901.2	.03	9.84	9.81	15.5	15.4	.124	21.5	6.0	.03	1.53	1.52	1.56	9.99	9.02	D												
542	1548	1911.0	4.76	261	467	112	32.0	1290	330	59	772.0	1902.0	.02	9.81	9.82	15.5	15.4	.125	22.4	6.2	.03	1.51	1.49	1.56	9.99	9.02	D												
543	1608	1912.1	3.19	232	477	111	32.8	1280	330	60	776.0	1903.4	.02	9.82	9.82	15.4	15.5	.126	23.4	6.5	.03	1.62	1.60	1.56	9.99	9.01	D												
544	1626	1913.0	2.96	201	484	112	32.9	1230	330	60	779.0	1904.3	.02	9.81	9.83	15.3	15.5	.125	24.5	6.9	.03	1.64	1.62	1.56	9.98	9.01	D												
545	1651	1914.0	2.46	225	462	110	32.0	1260	331	60	783.0	1905.8	.03	9.82	9.88	15.3	15.6	.126	25.5	7.3	.03	1.67	1.66	1.56	9.98	9.01	D												
546	1709	1915.0	3.25	251	348	108	30.6	1230	331	61	788.0	1907.1	.03	9.85	9.87	15.3	15.6	.123	26.5	7.6	.03	1.58	1.57	1.56	9.97	9.01	D												
547	1725	1916.0	3.77	177	508	108	29.6	1180	332	56	791.0	1908.4	.03	9.86	9.87	15.3	15.6	.124	27.5	7.8	.03	1.53	1.51	1.56	9.97	9.01	D												
NB #12 ITC J11 12.25", Jets 16:16:16 in at 1916.5 m.																																							
Date Nov 4 '84																																							
555	1127	1918.1	6.59	331	474	80	27.0	2600	676	124	804.0	1915.2	.03	10.0	10.0	13.9	19.4	.115	1.5	.6	.33	1.26	1.26	1.56	10.2	9.01	Df												
556	1131	1919.0	12.8	352	438	79	33.8	2590	676	120	805.0	1916.1	.04	9.99	10.1	14.0	19.6	.117	2.5	.7	.38	1.17	1.18	1.56	10.2	9.01	D												
557	1137	1920.0	9.82	339	403	79	33.0	2590	675	116	807.0	1916.4	.13	10.1	10.1	14.2	20.0	.121	3.5	.8	.44	1.23	1.23	1.56	10.2	9.01	D												
558	1142	1921.0	11.2	334	411	79	32.7																																

F#	TIME	DEPTH	ROP	TORQUE	RPM	FCB	PUMP	MUD	FLOW	PVT	RETURNS	CAS	MO	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DXC	NX	NXB	ECD	NXND	
		m	m/hr	AVG	MAX	AVG	PRIS	GRM	SPM	bbl	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TM						
560	1147	1924.0	19.2	333	436	79	29.7	2600	675	118	811.0	1917.0	.13	10.0	10.1	14.9	20.0	6.5	.9	.55	1.03	1.03	1.57	10.2	9.01	
561	1150	1924.0	19.5	345	427	79	30.9	2600	674	112	811.0	1917.1	.11	10.0	10.1	15.1	20.2	7.4	1.0	.58	1.03	1.04	1.57	10.3	9.01	
562	1155	1925.0	12.3	337	435	79	30.7	2600	675	119	813.0	1917.1	.06	10.0	10.1	15.5	20.7	8.5	1.1	.64	1.14	1.14	1.57	10.3	9.01	
563	1210	1926.0	8.09	331	426	79	31.7	2660	677	118	811.0	1917.1	.03	10.0	9.99	16.8	20.6	11.7	9.5	1.2	.71	1.24	1.24	1.57	10.4	9.01
564	1217	1927.0	19.3	344	497	75	32.6	2630	678	117	811.0	1917.1	.03	10.0	10.0	17.1	20.4	11.8	10.5	1.2	.74	1.02	1.03	1.57	10.4	9.01
565	1226	1928.0	6.02	315	428	78	31.4	2630	679	120	815.0	1917.4	.03	10.1	9.99	17.7	20.4	11.8	11.5	1.4	.84	1.29	1.29	1.57	10.5	9.01
566	1230	1929.0	16.1	349	455	79	35.8	2630	678	122	818.0	1917.5	.03	10.1	9.97	18.0	20.4	11.8	12.5	1.5	.88	1.10	1.11	1.57	10.5	9.01
567	1233	1930.1	23.3	344	458	79	34.2	2610	678	117	819.0	1917.6	.03	10.1	9.97	18.1	20.5	11.9	13.5	1.5	.91	1.00	1.00	1.57	10.5	9.01
568	1236	1931.0	14.5	354	454	79	34.4	2630	679	117	821.0	1918.0	.03	10.1	10.0	18.4	20.5	12.0	14.5	1.6	.95	1.08	1.09	1.57	10.5	9.01
569	1238	1932.0	25.7	353	467	79	32.5	2630	679	121	822.0	1918.2	.03	10.1	10.0	18.5	20.6	11.9	15.5	1.6	.97	.96	.96	1.57	10.5	9.01
570	1242	1933.0	19.1	384	482	79	32.4	2640	678	119	823.0	1918.7	.04	10.1	10.0	18.6	20.7	12.0	16.5	1.7	1.01	1.03	1.03	1.57	10.5	9.01
571	1248	1934.0	12.1	330	550	80	27.1	2640	680	118	826.0	1919.9	.04	10.1	10.0	18.9	20.7	14.7	17.5	1.7	1.05	1.08	1.08	1.57	10.5	9.01
572	1250	1935.0	22.3	315	430	82	26.2	2650	679	118	827.0	1920.4	.04	10.1	10.0	18.9	20.8	16.6	18.5	1.8	1.07	.94	.94	1.57	10.5	9.01
573	1314	1936.1	21.7	316	434	82	27.0	2680	664	116	839.0	1924.1	.03	10.0	10.1	19.3	20.2	22.1	19.5	1.8	1.10	.96	.96	1.57	10.5	9.01
574	1318	1937.0	15.0	326	403	83	27.6	2630	672	117	839.0	1924.5	.04	10.0	10.1	19.4	19.9	23.3	20.5	1.9	1.14	1.05	1.05	1.57	10.5	9.01
575	1322	1938.1	15.6	309	376	83	27.5	2620	674	120	844.0	1925.1	.04	10.1	10.1	19.5	19.9	23.8	21.5	1.9	1.18	1.04	1.04	1.57	10.5	9.01
576	1325	1939.0	19.3	348	448	83	29.8	2620	673	123	846.0	1925.3	.04	10.1	10.1	19.5	19.9	24.1	22.5	2.0	1.21	1.01	1.02	1.57	10.5	9.01
577	1328	1940.0	18.2	340	448	82	30.2	2630	673	117	846.0	1925.5	.03	10.0	10.1	19.6	19.9	24.4	23.5	2.0	1.24	1.03	1.04	1.57	10.5	9.01
578	1332	1941.1	16.6	337	447	83	32.4	2620	673	118	850.0	1926.2	.03	10.1	10.1	19.6	20.0	24.7	24.5	2.1	1.29	1.08	1.08	1.57	10.4	9.01
579	1335	1942.0	16.0	350	433	82	33.0	2620	673	117	852.0	1927.0	.04	10.1	10.0	19.6	20.1	24.8	25.5	2.2	1.32	1.09	1.09	1.58	10.4	9.01
580	1340	1943.0	11.6	341	452	81	33.6	2610	673	114	857.0	1927.3	.03	10.0	10.1	19.7	20.6	25.0	26.5	2.2	1.38	1.18	1.18	1.58	10.4	9.01
581	1343	1944.1	22.4	348	535	82	30.6	2620	672	123	857.0	1927.6	.03	10.0	10.1	19.7	20.6	25.1	27.5	2.3	1.40	.99	1.00	1.58	10.4	9.01
582	1345	1945.0	25.6	319	407	83	24.8	2610	673	118	857.0	1928.2	.03	10.0	10.1	19.7	20.8	25.2	28.4	2.3	1.43	.91	.91	1.58	10.4	9.01
583	1357	1946.1	16.2	353	443	79	29.1	2600	671	115	860.0	1931.0	.04	9.93	10.1	19.7	20.6	25.6	29.5	2.4	1.46	1.05	1.05	1.58	10.4	9.01
584	1400	1947.0	17.3	346	452	80	32.4	2600	671	118	859.0	1932.1	.04	9.96	10.1	19.7	20.5	25.6	30.5	2.5	1.50	1.07	1.07	1.58	10.4	9.01
585	1403	1948.1	24.4	351	418	80	31.6	2610	671	118	859.0	1932.7	.04	9.98	10.1	19.7	20.5	25.7	31.4	2.5	1.52	.98	.98	1.58	10.4	9.01
586	1406	1949.0	16.8	316	430	81	31.5	2590	671	119	863.0	1933.4	.03	10.0	10.1	19.7	20.5	25.8	32.5	2.5	1.55	1.07	1.07	1.58	10.4	9.01
587	1408	1950.0	24.5	349	441	80	29.9	2610	671	116	863.0	1934.1	.03	10.0	10.1	19.8	20.4	25.8	33.5	2.6	1.58	.96	.97	1.58	10.3	9.01
588	1411	1951.0	23.5	344	428	80	29.1	2600	671	115	863.0	1934.8	.03	10.0	10.1	19.8	20.4	25.8	34.5	2.6	1.58	.97	.97	1.58	10.3	9.01
589	1414	1952.0	17.6	354	420	79	32.7	2590	670	119	865.0	1935.0	.04	10.0	10.2	19.8	20.5	25.8	35.5	2.7	1.64	1.07	1.07	1.58	10.3	9.01
590	1418	1953.0	15.7	334	415	81	34.0	2590	671	123	867.0	1935.2	.03	10.0	10.1	19.8	20.6	25.9	36.5	2.8	1.68	1.11	1.12	1.58	10.3	9.01
591	1424	1954.0	9.67	331	405	80	34.4	2600	670	123	867.0	1935.7	.02	10.0	10.1	19.9	20.7	26.0	37.4	2.8	1.73	1.23	1.24	1.58	10.3	9.01
592	1432	1955.0	7.16	326	409	81	36.2	2600	670	117	870.0	1937.9	.03	10.0	10.1	19.9	20.8	26.0	38.5	3.0	1.82	1.33	1.33	1.58	10.3	9.01
593	1448	1956.0	8.33	295	379	74	34.1	2640	677	124	875.0	1941.5	.04	9.95	10.1	20.0	20.7	26.1	39.5	3.1	1.89	1.26	1.26	1.58	10.3	9.01
594	1453	1957.0	14.2	345	452	80	32.2	2650	676	124	873.0	1942.5	.04	10.0	10.1	20.1	20.7	26.1	40.5	3.2	1.94	1.13	1.13	1.58	10.2	9.01
595	1458	1958.0	10.4	340	452	80	31.6	2650	678	116	874.0	1944.2	.04	10.1	10.2	20.1	20.7	26.1	41.5	3.3	1.99	1.20	1.20	1.58	10.2	9.01
596	1503	1959.1	13.2	313	390	80	31.6	2660	678	119	874.0	1944.6	.04	10.0	10.2	20.2	20.8	26.1	42.5	3.4	2.04	1.14	1.14	1.58	10.2	9.01
597	1508	1960.1	11.6	364	479	80	34.9	2660	677	121	873.0	1946.0	.03	10.1	10.2	20.2	20.8	26.1	43.5	3.4	2.09	1.20	1.21	1.58	10.2	9.01
598	1512	1961.0	14.3	347	462	81	34.1	2650	678	120	872.0	1947.3	.03	10.1	10.1	20.3	20.9	26.1	44.5	3.5	2.12	1.15	1.15	1.59	10.2	9.01
599	1516	1962.0	13.6	349	489	80	33.9	2660	678	117	872.0	1949.0	.03	10.0	10.1	20.3	20.9	26.2	45.4	3.6	2.16	1.15	1.16	1.59	10.2	9.01
600	1521	1963.0	14.1	335	473	80	34.1	2650	677	124	871.0	1950.6	.05	10.0	10.1	20.4	21.0	26.2	46.5	3.7	2.21	1.15	1.15	1.59	10.2	9.01
602	1523	1964.0	20.8	366	434	80	30.6	2660	677	115	871.0	1951.3	.05	10.0	10.1	20.4	21.0	26.2	47.5	3.7	2.23	1.02	1.02	1.59	10.2	9.01
603	1535	1965.0	21.3	340	429	80	31.1	2624	669	119	867.0	1952.9	.04	9.96	10.1	20.5	21.0	26.3	48.5	3.7	2.26	1.02	1.02	1.59	10.2	9.01
604	1538	1966.0	18.5	339	456	83	33.9	2620	673	123	862.0	1953.5	.03	9.98	10.1	20.5	21.0	26.3	49.5	3.8	2.29	1.09	1.09	1.59	10.2	9.01
605	1542	1967.1	15.6	312	400	80	32.4	2630	672	116	864.0	1954.1	.03	10.0	10.1	20.6	21.0	26.3	50.4	3.9	2.33	1.10	1.11	1.59	10.2	9.01
606	1545	1968.1	21.0	340	414	78	30.1	2620	671	117	862.0	1954.3	.03	10.0	10.1	20.6	20.9	26.3	51.5	3.9	2.36	1.00	1.01	1.59	10.3	9.01
607	1549	1969.1	18.6	357	535	77	25.6	2610	671	119	862.0	1954.5	.03	10.0	10.1	20.7	20.9	26.4	52.5	4.0	2.38	.99	.99	1.59	10.3	9.01
608	1552	1970.0	22.8	331	426	85	24.7	2620	671	117	862.0	1954.6	.03	10.0	10.1	20.7	21.0	26.4	53.5	4.0	2.41	.95	.95	1.59	10.3	9.01
609	1554	1971.0	22.7	348	448	83	28.9	2630	671	119	861.0	1954.9	.03	10.0	10.2	20.7	20.9	26.4	54.5	4.1	2.43	.99	.99	1.59	10.3	9.01
610	1557	1972.0	21.1	350	437	81	29.7	2620	670	118	862															

F#	TIME	DEPTH	ROP	TORQUE	RPM	FCS	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	(C)	RES	THIS BIT	EST	DXC	NX	NXB	ECD	NXWD	
		m	m/hr	AVG	MAX	AVG	PRES	GPM	SRM	BDI	%	IN	OUT		OUT	m	hrs	TW					
6011	1606	1973.0	21.6	344	434	82	30.0	2630	671	123	862.0	1955.8	.03	10.0	10.1	20.7	21.0	.264	1.01	1.01	1.59	10.3	9.01 D
6012	1605	1974.1	13.7	321	394	82	29.8	2630	671	117	873.0	1956.8	.03	9.97	10.1	20.8	21.0	.265	1.11	1.12	1.59	10.3	9.01 D
6013	1617	1975.2	17.6	323	427	81	23.9	2610	666	115	856.0	1958.5	.03	9.95	10.1	20.8	21.0	.113	.99	.99	1.59	10.3	9.01 DX
6014	1626	1976.2	8.87	325	530	82	25.0	2660	674	119	842.0	1960.6	.03	10.1	10.0	20.9	21.0	.113	1.16	1.16	1.59	10.3	9.01 D
6015	1632	1977.1	17.7	331	551	80	24.0	2640	675	113	842.0	1961.8	.03	10.1	10.0	20.9	21.1	.113	.99	.99	1.59	10.2	9.01 D
6016	1635	1978.1	17.8	291	544	83	20.0	2650	674	112	852.0	1962.7	.03	10.1	9.99	20.9	21.0	.112	.95	.95	1.59	10.2	9.01 D
6017	1638	1979.0	24.0	303	404	83	21.2	2640	674	120	847.0	1963.7	.03	10.0	9.97	20.9	21.1	.113	.90	.90	1.59	10.2	9.01 D
6018	1641	1980.0	19.6	321	436	83	23.8	2630	673	116	842.0	1964.2	.04	10.0	9.99	20.9	21.1	.113	.97	.98	1.60	10.2	9.01 D
6019	1644	1981.1	18.5	313	412	84	27.0	2640	673	123	839.0	1964.8	.04	10.0	10.0	20.9	21.3	.112	1.02	1.02	1.60	10.3	9.01 D
6020	1646	1982.0	23.4	333	393	84	25.8	2650	674	118	841.0	1964.8	.03	10.0	9.98	20.9	21.4	.112	.96	.96	1.60	10.3	9.01 D
6021	1650	1983.3	23.2	331	406	84	27.1	2650	673	123	841.0	1965.7	.03	10.0	9.98	20.9	21.5	.112	.97	.97	1.60	10.3	9.01 DX
6022	1702	1984.0	10.8	314	394	83	28.2	2620	670	117	817.0	1968.3	.04	9.99	10.1	20.9	21.4	.111	1.15	1.16	1.60	10.3	9.01 DX
6023	1708	1985.0	9.55	311	383	80	28.3	2630	670	115	806.0	1970.4	.03	9.95	10.1	21.0	21.3	.112	1.18	1.18	1.60	10.3	9.01 D
6024	1711	1986.1	10.5	336	409	79	32.0	2640	670	119	805.0	1971.6	.04	9.99	10.1	21.0	21.4	.113	1.03	1.04	1.60	10.3	9.01 D
6025	1714	1987.0	20.8	348	448	79	31.0	2650	671	117	806.0	1972.6	.04	10.0	10.1	21.0	21.3	.112	1.02	1.02	1.60	10.3	9.01 D
6026	1719	1988.0	11.6	339	433	79	31.8	2660	671	116	804.0	1973.6	.03	10.1	10.1	21.0	21.4	.114	1.17	1.17	1.60	10.2	9.01 D
6027	1722	1989.0	26.3	359	472	79	32.4	2660	671	117	804.0	1973.7	.03	10.1	10.1	21.0	21.4	.113	.97	.98	1.60	10.2	9.01 D
6028	1725	1990.1	17.8	360	450	79	32.7	2660	672	123	806.0	1974.2	.03	10.2	10.1	21.1	21.5	.113	1.07	1.08	1.60	10.2	9.01 D
6029	1736	1991.1	5.80	313	416	80	34.4	2660	670	120	806.0	1976.2	.02	10.0	10.1	21.1	21.6	.113	1.37	1.37	1.60	10.2	9.01 D
6030	1745	1992.0	5.74	325	444	80	35.4	2670	671	123	803.0	1978.4	.02	10.0	10.1	21.1	21.7	.112	1.38	1.38	1.60	10.3	9.01 D
6031	1748	1993.0	21.7	339	442	79	31.9	2680	670	117	804.0	1978.9	.02	10.0	10.1	21.1	21.7	.113	.99	1.00	1.60	10.3	9.01 D
6032	1758	1994.0	25.3	347	445	80	31.0	2630	660	115	806.0	1980.4	.02	9.93	10.1	21.2	21.7	.112	.98	1.00	1.60	10.3	9.01 DX
6033	1801	1995.0	18.2	357	475	79	31.7	2690	669	123	804.0	1981.2	.02	9.84	10.1	21.2	21.4	.113	1.06	1.06	1.60	10.3	9.01 D
6034	1803	1996.1	27.6	339	416	80	30.8	2690	670	123	802.0	1981.8	.02	9.86	10.1	21.2	21.5	.113	.95	.95	1.60	10.3	9.01 D
6035	1805	1997.1	43.7	336	464	80	31.3	2690	670	115	800.0	1982.1	.02	9.88	10.1	21.2	21.5	.112	.84	.85	1.60	10.3	9.01 D
6038	1818	1999.0	27.4	365	446	84	29.6	2680	669	118	799.0	1983.2	.01	9.89	10.1	21.3	21.6	.113	.97	.97	1.61	10.3	9.01 D
6039	1820	2000.1	31.5	356	444	85	28.7	2680	670	115	799.0	1983.6	.01	9.99	10.1	21.3	21.6	.113	.93	.93	1.61	10.3	9.01 D
6040	1823	2001.1	20.6	344	443	84	27.3	2670	669	118	799.0	1984.3	.02	9.93	10.1	21.3	21.6	.112	1.02	1.02	1.61	10.3	9.01 D
6041	1825	2002.0	20.6	349	444	83	27.2	2670	669	115	799.0	1984.8	.02	9.96	10.1	21.3	21.7	.113	1.01	1.01	1.61	10.3	9.01 D
6042	1841	2003.2	30.3	387	496	85	31.5	2230	601	104	791.0	1987.3	.02	9.89	10.1	21.3	21.1	.114	.96	.97	1.61	10.1	9.01 DX
6043	1857	2005.1	8.52	323	557	81	27.0	3270	658	113	791.0	1990.7	.01	9.95	10.1	21.3	21.1	.115	1.20	1.21	1.61	10.1	9.01 D
6044	1901	2006.0	15.2	333	430	79	24.8	3280	658	114	790.0	1991.5	.02	9.98	10.1	21.3	21.2	.117	1.04	1.04	1.61	10.1	9.01 D
6045	1904	2007.1	18.5	346	468	78	28.5	3270	659	113	789.0	1992.2	.02	9.99	10.1	21.3	21.3	.120	1.03	1.04	1.61	10.1	9.01 D
6046	1908	2008.1	17.9	341	459	79	29.5	3280	659	121	785.0	1993.0	.02	9.97	10.1	21.3	21.5	.126	1.05	1.05	1.61	10.1	9.01 D
6047	1910	2009.1	22.3	325	449	78	26.9	3280	658	116	785.0	1993.5	.02	9.99	10.1	21.3	21.5	.140	.97	.97	1.61	10.2	9.01 D
6048	1913	2010.0	18.8	335	428	78	26.0	3270	658	121	785.0	1994.2	.01	10.1	10.1	21.2	21.5	.144	1.00	1.00	1.61	10.2	9.01 D
6049	1917	2011.0	15.3	313	434	79	25.8	3260	659	114	784.0	1995.0	.01	10.2	10.0	21.2	21.5	.160	1.05	1.05	1.61	10.2	9.01 D
6051	1935	2012.0	16.0	310	450	78	23.0	3240	647	114	775.0	1998.7	.01	10.2	10.1	21.2	21.4	.196	1.00	1.00	1.61	10.2	9.01 DX
6052	1936	2013.0	50.5	342	435	84	30.3	3250	648	115	770.0	1999.1	.01	10.2	10.1	21.2	21.3	.200	.82	.82	1.61	10.2	9.01 D
6053	1941	2014.0	13.2	322	425	84	23.6	3260	647	114	766.0	2001.0	.02	10.2	10.1	21.2	21.3	.210	1.06	1.07	1.61	10.2	9.01 D
6054	1945	2015.1	17.9	327	414	84	22.8	3260	647	114	767.0	2002.0	.02	10.1	10.1	21.2	21.3	.211	.98	.99	1.61	10.3	9.01 D
6055	1947	2016.1	18.8	343	446	84	23.0	3270	648	112	764.0	2002.5	.02	10.1	10.1	21.2	21.3	.213	.97	.98	1.61	10.3	9.01 D
6056	1950	2017.0	23.6	321	414	84	21.6	3250	648	112	764.0	2002.5	.02	10.1	10.1	21.2	21.4	.212	.91	.91	1.61	10.3	9.01 D
6057	1953	2018.1	16.5	334	424	84	23.3	3230	645	114	762.0	2002.5	.01	10.1	10.1	21.2	21.5	.213	1.00	1.01	1.62	10.3	9.01 D
6058	1956	2019.0	17.1	334	423	85	24.3	3240	647	114	761.0	2002.7	.01	10.0	10.1	21.2	21.6	.216	1.01	1.01	1.62	10.3	9.01 D
6059	2002	2020.0	15.1	321	419	84	23.7	3230	647	112	760.0	2002.8	.01	10.0	10.1	21.2	21.8	.219	1.02	1.03	1.62	10.3	9.01 D
6060	2006	2021.0	17.3	329	415	84	24.5	3240	647	112	757.0	2003.0	.01	10.0	10.1	21.2	21.9	.222	1.00	1.01	1.62	10.3	9.01 D
6061	2008	2022.0	37.9	292	411	80	21.1	3240															

F#	TIME	DEPTH	MOP	AVG	TORQUE	RPM	FOB	PUMP	CM	MUD	FLOW	PVT	RETURNS	GAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DMC	NX	NXB	ECD	NXMD
		m	W/hr				AVG	PRES	GPM		SPM	DBL	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TW					
668	0819	2023.0	23.4	375	488	81	28.9	3290	660	114	661.0	2022.0	.01	9.98	10.1	18.8	20.3	.260	106	7.3	4.04	.97	.97	1.62	10.3	9.01	D
669	0822	2024.0	20.6	351	432	81	28.7	3250	657	120	662.0	2022.0	.01	10.0	10.1	18.9	20.3	.260	107	7.4	4.07	1.00	1.00	1.62	10.3	9.01	D
670	0825	2025.0	15.8	365	479	80	36.3	3260	657	115	663.0	2022.0	.01	10.0	10.1	19.0	20.2	.260	108	7.4	4.10	1.13	1.14	1.62	10.3	9.01	D
671	0828	2026.0	12.3	360	435	80	36.5	3250	658	113	668.0	2022.0	.01	10.0	10.1	19.0	20.3	.260	109	7.5	4.12	1.02	1.02	1.62	10.3	9.01	D
672	0831	2027.0	17.7	386	474	81	39.9	3240	658	116	668.0	2022.0	.01	10.0	10.2	19.1	20.4	.260	110	7.5	4.15	1.14	1.14	1.62	10.3	9.01	D
673	0834	2028.0	22.7	358	468	80	38.9	3230	657	112	669.0	2022.0	.01	10.1	10.2	19.2	20.4	.260	111	7.6	4.17	1.06	1.07	1.62	10.3	9.01	D
674	0836	2029.0	20.2	368	461	81	36.3	3230	655	120	670.0	2022.0	.01	10.1	10.2	19.3	20.5	.260	112	7.6	4.19	1.07	1.08	1.62	10.3	9.01	D
675	0838	2030.0	30.4	374	484	81	30.1	3210	656	111	668.0	2022.0	.01	10.1	10.2	19.4	20.8	.260	113	7.6	4.21	.98	.99	1.62	10.3	9.01	D
676	0840	2031.0	29.3	369	475	80	37.9	3250	659	111	668.0	2022.0	.01	10.1	10.2	19.4	20.8	.260	114	7.7	4.22	.99	.99	1.62	10.3	9.01	D
677	0853	2032.1	16.1	372	486	81	36.4	3140	650	113	651.0	2022.0	.02	9.95	10.1	19.5	20.7	.115	115	7.7	4.25	1.13	1.13	1.62	10.3	9.01	DX
678	0854	2033.0	38.5	363	453	80	37.6	3150	649	112	652.0	2022.0	.02	9.98	10.1	19.5	20.6	.115	116	7.7	4.26	.91	.92	1.62	10.3	9.01	D
679	0856	2034.0	29.4	346	446	81	35.9	3210	657	116	656.0	2022.0	.02	10.0	10.1	19.5	20.6	.116	117	7.8	4.28	.97	.98	1.62	10.4	9.01	D
680	0901	2035.0	11.0	350	492	80	35.4	3090	659	109	657.0	2022.0	.02	10.0	10.1	19.6	20.7	.116	118	7.9	4.32	1.21	1.21	1.62	10.4	9.01	D
681	0905	2036.0	15.6	346	481	80	36.2	3040	642	118	659.0	2022.0	.01	10.0	10.0	19.6	20.7	.117	119	7.9	4.35	1.13	1.13	1.63	10.4	9.01	D
682	0907	2037.0	31.4	359	451	80	34.7	3050	643	108	661.0	2022.0	.01	10.0	10.0	19.6	20.7	.117	120	8.0	4.37	.94	.95	1.63	10.4	9.01	D
683	0909	2038.2	32.2	355	446	80	34.0	3040	641	110	663.0	2022.0	.02	10.0	10.0	19.7	20.8	.117	121	8.0	4.38	.93	.94	1.63	10.4	9.01	D
684	0913	2039.0	11.7	370	452	80	35.6	3070	657	120	665.0	2022.0	.01	10.0	10.0	19.7	20.6	.116	122	8.1	4.41	1.19	1.20	1.63	10.4	9.01	D
685	0919	2040.0	10.7	326	446	80	36.0	3070	656	120	666.0	2022.0	.01	9.97	10.1	19.8	20.9	.115	123	8.2	4.46	1.22	1.22	1.63	10.4	9.01	D
686	0922	2041.0	16.9	333	436	80	35.0	3100	643	112	666.0	2022.0	.02	9.96	10.0	19.8	20.9	.114	124	8.2	4.48	1.10	1.10	1.63	10.4	9.01	D
687	0931	2042.0	50.2	334	417	80	31.9	3080	641	116	667.0	2022.0	.01	9.92	10.0	19.9	20.6	.117	125	8.2	4.50	.81	.81	1.63	10.4	9.01	DX
688	0935	2043.0	17.0	381	479	82	36.3	3080	662	114	665.0	2022.1	.02	9.93	10.1	19.9	20.4	.116	126	8.3	4.53	1.11	1.12	1.63	10.4	9.01	D
689	0937	2044.0	24.3	347	431	81	35.9	3090	642	111	666.0	2022.6	.02	9.96	10.1	19.9	20.4	.117	127	8.4	4.54	.98	.99	1.63	10.4	9.01	D
690	0941	2045.0	14.9	360	447	82	36.4	3080	642	113	669.0	2024.2	.02	9.97	10.1	19.9	20.4	.115	128	8.4	4.58	1.15	1.15	1.63	10.4	9.01	D
691	0943	2046.0	24.9	366	443	82	38.2	3080	643	112	669.0	2024.6	.02	9.97	10.1	19.9	20.4	.115	129	8.4	4.59	1.03	1.04	1.63	10.4	9.01	D
692	0947	2047.1	18.6	342	443	83	35.7	3090	644	118	669.0	2025.9	.02	9.99	10.1	19.9	20.4	.115	130	8.5	4.62	1.09	1.09	1.63	10.4	9.01	D
693	0950	2048.0	16.8	372	477	81	39.2	3100	643	111	678.0	2027.3	.02	9.99	10.1	19.9	20.4	.115	131	8.5	4.65	1.14	1.15	1.63	10.4	9.01	D
694	0953	2049.1	21.8	338	495	82	35.5	3100	643	111	669.0	2028.5	.02	9.98	10.1	20.0	20.4	.114	132	8.6	4.67	1.05	1.05	1.63	10.4	9.01	D
695	0955	2050.0	25.5	348	420	83	34.2	3110	643	113	667.0	2029.3	.02	9.96	10.1	20.0	20.5	.115	133	8.6	4.69	.96	.97	1.63	10.4	9.01	D
697	1006	2051.2	25.3	331	427	83	34.2	3080	642	118	660.0	2032.2	.02	9.89	10.1	20.0	20.5	.114	134	8.7	4.71	1.00	1.00	1.63	10.3	9.01	DX
698	1008	2052.1	27.4	366	452	84	32.9	3080	642	113	658.0	2032.3	.03	9.92	10.2	20.0	20.4	.115	135	8.7	4.73	.98	.98	1.63	10.3	9.01	D
699	1010	2053.2	30.5	357	448	84	34.6	3070	643	118	658.0	2032.3	.03	9.92	10.2	20.0	20.4	.115	136	8.7	4.75	.96	.97	1.63	10.3	9.01	D
700	1011	2054.2	31.2	344	435	85	30.9	3100	644	110	660.0	2032.3	.03	9.96	10.1	20.0	20.5	.115	137	8.8	4.76	.93	.93	1.63	10.3	9.01	D
701	1014	2055.0	21.5	367	457	84	34.8	3110	643	113	663.0	2032.8	.02	9.98	10.1	20.0	20.4	.115	138	8.8	4.78	1.05	1.05	1.64	10.3	9.01	D
702	1016	2056.0	34.5	366	438	85	35.1	3120	643	112	663.0	2033.4	.02	10.0	10.1	20.0	20.5	.115	139	8.8	4.79	.94	.94	1.64	10.3	9.01	D
703	1019	2057.1	19.1	359	440	84	33.8	3110	643	118	663.0	2034.0	.02	10.0	10.1	20.0	20.3	.114	140	8.9	4.82	1.07	1.07	1.64	10.3	9.01	D
704	1022	2058.0	17.6	343	446	86	33.1	3080	642	114	662.0	2034.6	.02	10.0	10.1	20.0	20.4	.115	141	8.9	4.85	1.09	1.09	1.64	10.3	9.01	D
705	1029	2059.1	8.58	339	470	84	35.0	3120	643	114	660.0	2037.3	.02	10.0	10.1	20.0	20.4	.113	142	9.1	4.91	1.28	1.28	1.64	10.3	9.01	D
706	1031	2060.0	17.3	380	456	85	37.0	3130	666	114	661.0	2038.1	.02	9.99	10.1	20.0	20.5	.114	143	9.1	4.93	1.13	1.13	1.64	10.3	9.01	D
707	1045	2061.0	17.5	343	455	84	34.3	3230	650	111	655.0	2040.3	.02	9.94	10.1	20.0	20.3	.114	144	9.2	4.96	1.10	1.10	1.64	10.3	9.01	D
708	1050	2062.1	17.4	361	462	85	28.3	3210	650	110	661.0	2041.2	.02	9.98	10.1	19.9	20.2	.114	145	9.2	4.98	1.04	1.05	1.64	10.3	9.01	D
709	1052	2063.0	23.5	352	452	87	28.9	3190	651	113	662.0	2041.8	.02	10.0	10.1	19.9	20.2	.114	146	9.3	5.00	.98	.99	1.64	10.3	9.01	D
710	1055	2064.1	27.9	389	495	87	33.4	3200	650	119	662.0	2042.4	.02	10.0	10.1	19.9	20.3	.114	147	9.3	5.03	.98	.99	1.64	10.3	9.01	D
711	1058	2065.0	17.2	404	490	80	34.0	3200	650	115	666.0	2043.5	.03	10.0	10.1	19.9	20.3	.114	148	9.4	5.05	1.09	1.09	1.64	10.3	9.01	D
712	1101	2066.0	17.1	381	483	80	33.8	3180	650	110	667.0	2044.8	.03	10.0	10.1	19.9	20.3	.115	149	9.4	5.08	1.09	1.09	1.64	10.3	9.01	D
713	1104	2067.0	23.2	362	484	80	33.4	3180	649	119	666.0	2046.2	.03	10.0	10.1	19.9	20.3	.116	150	9.5	5.09	1.01	1.01	1.64	10.3	9.01	D
714	1106	2068.1	14.5	340	502	81	30.0	3180	650	119	667.0	2047.0	.03	10.0	10.1	19.9	20.4	.114	151	9.5	5.13	1.09	1.09	1.64	10.3	9.01	D
715	1112	2069.0	13.1	324	417	82	28.4	3180	650	119	666.0	2048.5	.04	10.0	10.1	19.9	20.7	.114	152	9.6	5.16	1.10	1.10	1.64	10.3	9.01	D
716	1116	2070.1	17.2	330	423	82	28.1	3180	650	112	666.0	2050.0	.04	10.0	10.2	19.9	20.8	.113	153	9.7	5.18	1.03	1.04	1.64	10.3	9.01	D

Well 31/3 Smith SUXH 12.25", Jets 16:16:16, in at 2070m.

F#	TIME	DEPTH	ROP	TORQUE	REM	FCB	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	TEMP.	RES	THIS BIT	EST	DWC	NX	NXB	ECD	NWWD							
		m	m/hr	AVG	MAX	AVG	FRES	GPM	SRM	bb1	%	IN	OUT	m	hrs	TW											
722	0104	2071.0	19.8	248	402	128	19.4	2380	677	115	834.0	2070.3	.01	10.2	10.0	15.8	14.6	.119	1.00	.25	1.00	.98	1.64	10.4	9.01	D	
723	0114	2072.0	5.48	251	445	135	24.2	2370	679	118	841.0	2070.3	.03	10.1	9.99	13.9	19.0	.119	1.35	.41	1.35	1.33	1.64	10.4	9.01	D	
724	0119	2073.0	14.6	274	340	142	19.0	2370	678	115	837.0	2070.3	.03	10.1	9.98	13.8	19.6	.119	1.07	.45	1.07	1.05	1.65	10.4	9.01	Df	
725	0122	2074.0	19.8	257	315	141	16.6	2370	678	118	837.0	2070.3	.03	10.1	9.95	14.1	19.7	.121	.98	.3	.48	.95	1.65	10.4	9.01	D	
726	0132	2075.0	28.7	288	355	144	19.1	2390	680	121	839.0	2070.3	.03	10.0	8.96	14.8	19.4	.126	.94	.4	.51	.94	.91	1.65	10.4	9.01	DX
727	0135	2076.0	20.1	270	329	147	18.2	2380	678	116	836.0	2070.3	.03	10.0	9.92	15.2	19.5	.125	1.00	.4	.53	1.00	.98	1.65	10.4	9.01	D
728	0139	2077.0	15.6	273	333	146	19.8	2380	679	122	837.0	2070.3	.03	10.0	9.92	15.5	19.5	.124	1.08	.5	.56	1.08	1.05	1.65	10.4	9.01	D
729	0142	2078.0	17.5	291	348	146	20.2	2380	678	116	838.0	2070.3	.03	10.0	9.96	16.1	19.4	.127	1.06	.6	.59	1.06	1.03	1.65	10.4	9.01	D
730	0145	2079.0	24.3	279	334	147	17.6	2390	679	118	838.0	2070.3	.03	10.0	9.98	16.4	19.4	.127	.96	.6	.60	.96	.93	1.65	10.4	9.01	D
731	0147	2080.0	21.9	270	321	146	15.9	2380	680	114	838.0	2070.3	.03	10.0	10.0	16.6	19.5	.128	.95	.6	8.00	.95	.94	1.65	10.4	9.01	D
732	0151	2081.0	19.4	259	323	147	14.8	2380	678	120	839.0	2070.3	.03	10.0	10.0	16.8	19.5	.128	.96	.7	.64	.96	.93	1.65	10.4	9.01	D
733	0158	2082.0	7.83	256	339	147	16.3	2390	677	121	838.0	2070.3	.03	10.0	10.1	17.3	19.8	.127	1.17	.8	.68	1.17	1.14	1.65	10.4	9.01	D
734	0201	2083.0	17.3	270	357	147	17.0	2390	676	120	838.0	2070.3	.03	10.0	10.1	17.5	20.0	.127	.9	.70	1.02	.99	1.65	10.4	9.01	D	
735	0215	2084.0	9.71	283	361	148	20.1	2370	664	114	836.0	2070.3	.03	9.99	10.0	18.1	19.7	.129	1.19	1.15	1.19	1.15	1.65	10.4	9.01	DX	
736	0218	2085.0	20.7	283	347	149	20.7	2380	668	117	831.0	2070.7	.03	10.0	10.0	18.1	19.6	.128	1.04	.76	1.04	1.00	1.65	10.4	9.01	D	
737	0220	2086.0	24.2	274	336	150	18.4	2400	670	123	832.0	2071.2	.03	10.1	10.0	18.2	19.7	.127	.97	1.1	.77	.97	.94	1.65	10.4	9.01	D
738	0223	2087.1	21.2	286	345	149	19.3	2400	672	123	832.0	2071.3	.03	10.1	10.1	18.3	19.8	.126	1.01	.78	1.01	.98	1.65	10.4	9.01	D	
739	0229	2088.1	10.5	265	338	150	18.7	2390	671	117	832.0	2072.1	.03	10.1	10.1	18.4	19.8	.124	1.15	1.12	1.15	1.12	1.65	10.4	9.01	D	
740	0232	2089.0	19.1	286	349	149	19.4	2390	671	119	832.0	2072.5	.03	10.0	10.1	18.5	20.0	.125	1.04	.83	1.04	1.00	1.65	10.4	9.01	D	
741	0235	2090.0	17.8	280	350	149	17.7	2390	672	119	832.0	2073.1	.03	10.0	10.1	18.5	19.9	.124	1.03	.84	1.03	.99	1.65	10.4	9.01	D	
742	0238	2091.0	21.9	274	332	150	18.8	2410	672	118	832.0	2073.9	.03	10.1	10.1	18.5	20.0	.125	1.00	.86	1.00	.97	1.66	10.4	9.01	D	
743	0245	2092.1	9.31	265	347	150	19.5	2400	672	116	835.0	2075.1	.03	10.0	10.1	18.6	20.3	.123	1.19	1.5	.89	1.19	1.15	1.66	10.4	9.01	D
744	0252	2093.1	8.28	261	337	150	18.8	2380	672	123	834.0	2077.0	.03	10.0	10.1	18.7	20.3	.122	1.20	1.17	1.20	1.17	1.66	10.4	9.01	DX	
745	0305	2094.0	19.9	270	340	144	14.4	2350	663	117	833.0	2079.9	.03	9.92	10.1	18.9	20.0	.124	.95	.92	.95	.92	1.66	10.4	9.01	DX	
746	0309	2095.0	14.6	285	350	144	17.8	2350	663	112	835.0	2080.9	.03	10.0	10.2	19.0	19.8	.124	1.07	1.7	.95	1.07	1.03	1.66	10.4	9.01	D
747	0313	2096.0	16.4	287	340	145	18.3	2330	663	121	835.0	2081.7	.03	10.0	10.2	19.0	19.9	.123	1.05	.96	1.05	1.01	1.66	10.4	9.01	D	
748	0316	2097.1	16.6	277	342	145	17.6	2340	662	115	835.0	2082.3	.03	9.98	10.2	19.0	19.8	.123	1.04	.98	1.04	1.00	1.66	10.4	9.01	D	
749	0319	2098.0	21.4	281	332	145	17.2	2340	663	115	836.0	2083.1	.03	9.98	10.2	19.0	19.9	.123	.98	.99	.98	.94	1.66	10.3	9.01	D	
750	0322	2099.1	18.9	271	331	145	15.4	2340	664	116	836.0	2083.5	.03	9.98	10.2	19.0	19.9	.122	.98	1.9	1.00	.98	.94	1.66	10.4	9.01	D
751	0325	2100.0	18.3	259	314	145	13.2	2330	663	115	836.0	2083.6	.03	9.99	10.2	19.0	20.0	.123	.95	.91	.95	.91	1.66	10.4	9.01	D	
752	0330	2101.0	12.6	261	334	146	14.8	2340	662	115	835.0	2084.0	.03	9.98	10.2	19.0	20.1	.123	1.01	2.1	1.03	1.01	1.66	10.4	9.01	D	
753	0334	2102.0	14.3	267	324	150	15.0	2330	664	114	836.0	2085.4	.03	9.99	10.2	19.0	20.3	.124	1.03	2.1	1.04	1.03	1.66	10.3	9.01	D	
Survey at 2103m.																											
757	0525	2104.2	25.0	289	362	140	20.3	2160	632	116	811.0	2092.1	.03	10.1	10.2	18.9	16.0	.131	1.00	2.2	1.04	1.00	.96	1.66	10.1	9.01	Df
758	0530	2105.1	9.87	281	348	141	19.1	2140	632	116	823.0	2092.1	.02	10.1	10.1	18.9	16.1	.130	1.18	2.3	1.14	1.18	1.14	1.66	10.2	9.01	D
759	0535	2106.0	9.86	272	337	142	17.9	2390	632	117	798.0	2093.5	.02	10.2	10.1	18.6	16.1	.128	1.17	2.4	1.22	1.17	1.12	1.66	10.2	9.01	D
760	0540	2107.1	13.5	277	349	141	18.6	2380	632	116	798.0	2093.5	.02	10.1	10.1	18.1	16.2	.128	1.11	2.5	1.27	1.11	1.06	1.66	10.2	9.01	D
761	0545	2108.0	10.2	277	344	142	19.1	2370	632	114	815.0	2093.5	.02	10.1	10.1	17.6	18.0	.123	1.17	2.6	1.33	1.17	1.12	1.66	10.2	9.01	D
762	0553	2110.0	11.5	287	366	150	19.8	2370	632	115	815.0	2093.5	.03	10.1	10.1	17.0	19.5	.124	1.16	2.7	1.40	1.16	1.11	1.67	10.3	9.01	D
763	0604	2111.0	7.66	287	370	150	20.3	2360	632	118	818.0	2093.5	.03	10.1	10.1	17.1	19.7	.126	1.25	2.9	1.49	1.25	1.20	1.67	10.3	9.01	D
Circulate bottoms up and displace with Lignosulphonate mud system, and run survey.																											
765	1054	2112.0	3.08	275	401	150	19.5	2520	632	119	350.0	2111.0	.03	9.70	9.80	13.0	19.8	1.022	1.48	3.0	1.56	1.48	1.42	1.67	10.0	9.01	DX
766	1106	2113.0	4.73	246	415	138	18.2	2430	632	118	354.0	2111.0	.03	9.80	9.91	13.1	17.2	1.149	1.34	3.2	1.62	1.34	1.29	1.67	10.0	9.01	D
767	1121	2114.0	4.07	251	454	138	20.3	2400	632	117	354.0	2111.0	.01	9.70	9.92	13.0	17.2	1.128	1.42	3.5	1.70	1.42	1.36	1.67	9.95	9.01	D
768	1127	2115.1	9.64	234	277	148	21.2	2370	632	1																	

F#	TIME	DEPTH	KOP	TORQUE	RM	FOB	PUMP	MUD	FLOW	PVT	RETURNS	GAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DMC	NX	NXB	ECD	NXMD		
		m	mp/hr	AVG	MAX	AVG	PRES	GPM	SRM	bbl	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TM							
176	1336	2123.0	7.47	238	277	148	22.5	2510	681	118	469.0	2116.5	.01	9.70	9.75	13.3	17.0	1.183	53.0	4.6	2.01	1.34	1.27	1.67	10.0	9.01	D
777	1346	2124.0	5.43	238	299	148	24.1	2520	680	120	577.0	2117.1	.02	9.70	9.82	13.0	17.6	1.136	54.0	4.8	2.06	1.43	1.35	1.67	10.0	9.01	D
777	1355	2125.0	5.84	223	283	148	22.8	2500	680	125	575.0	2117.5	.01	9.70	9.81	12.8	20.1	1.081	55.0	4.9	2.10	1.39	1.32	1.67	10.0	9.01	D
779	1402	2126.0	8.00	228	281	148	23.1	2500	681	117	576.0	2117.8	.01	9.70	9.83	12.7	20.5	1.058	56.0	5.0	2.13	1.32	1.25	1.67	10.0	9.01	D
780	1407	2127.0	12.4	238	300	147	22.4	2500	681	118	576.0	2118.0	.01	9.70	9.83	12.6	20.7	1.031	57.0	5.1	2.15	1.21	1.14	1.68	10.0	9.01	D
781	1412	2128.0	10.5	235	293	147	21.5	2500	681	116	583.0	2118.2	.01	9.70	9.83	12.7	20.9	.997	57.9	5.2	2.17	1.24	1.16	1.68	10.0	9.01	D
782	1418	2129.1	10.9	244	304	148	23.1	2480	681	118	585.0	2118.7	.01	9.70	9.83	12.8	21.0	.962	59.0	5.3	2.20	1.25	1.17	1.68	10.0	9.01	D
783	1421	2130.0	15.5	255	305	147	23.8	2470	680	120	582.0	2118.8	.01	9.70	9.82	12.8	20.8	.963	60.0	5.3	2.21	1.18	1.10	1.68	10.0	9.01	D
784	1426	2131.0	11.0	250	291	147	23.6	2480	681	118	577.0	2118.8	.02	9.70	9.83	12.7	20.6	.963	61.0	5.4	2.23	1.26	1.18	1.68	10.0	9.01	D
785	1438	2132.0	9.99	250	287	148	23.6	2440	675	118	578.0	2120.0	.04	9.70	9.83	12.9	20.0	.999	62.0	5.5	2.26	1.36	1.28	1.68	10.0	9.01	DX
786	1458	2133.0	3.00	231	283	150	24.6	2440	675	116	582.0	2122.5	.01	9.70	9.70	13.3	21.2	1.090	63.0	5.8	2.35	1.57	1.49	1.68	10.0	9.01	D
787	1513	2134.0	3.98	223	263	149	24.2	2460	676	117	575.0	2124.0	.01	9.70	9.88	13.3	21.4	1.207	64.0	6.1	2.41	1.50	1.42	1.68	10.0	9.01	D
788	1533	2135.0	3.01	224	256	148	25.6	2460	675	119	560.0	2127.5	.01	9.70	9.87	13.4	21.3	1.149	65.0	6.4	2.50	1.59	1.50	1.68	10.0	9.01	D
789	1549	2136.0	3.54	223	252	148	25.0	2370	663	117	559.0	2129.2	.00	9.70	9.85	13.5	21.4	1.073	66.0	6.7	2.57	1.54	1.45	1.68	10.0	9.01	D
790	1611	2137.0	2.87	223	249	149	25.5	2410	675	117	582.0	2131.2	.01	9.70	9.77	13.6	21.6	.958	67.0	7.1	2.65	1.60	1.51	1.68	10.0	9.01	D
791	1632	2138.0	2.61	220	250	149	24.5	2410	674	123	601.0	2132.4	.01	9.70	9.73	13.7	21.5	.908	68.0	7.4	2.74	1.61	1.51	1.68	10.0	9.01	D
792	1704	2139.0	2.02	206	256	134	22.6	2440	675	118	597.0	2135.6	.01	9.70	9.72	14.6	22.5	.942	69.0	7.9	2.84	1.61	1.52	1.68	10.0	9.01	D
793	1730	2140.0	2.32	197	228	109	21.8	2450	674	123	632.0	2136.4	.01	9.70	9.75	14.5	22.7	.924	70.0	8.3	2.89	1.52	1.43	1.68	10.0	9.01	D
794	1804	2141.0	2.37	205	233	110	24.2	2450	674	118	647.0	2137.1	.01	9.70	9.76	15.6	23.3	.901	71.0	8.7	2.93	1.59	1.50	1.68	10.0	9.01	D
NB# 14 SMITH F2 12.25", Jets 16:16:16, In at 2141 m																											
Date Nov 7 '84																											
3	0447	2142.0	15.1	232	303	108	21.9	2630	399	71	651.0	2137.2	.00	9.70	9.94	21.6	22.8	.846	1.0	1.0	.00	1.11	1.11	1.68	9.80	9.01	D
4	0454	2143.0	8.41	310	405	81	35.2	2620	399	69	651.0	2137.2	.00	9.70	9.95	21.7	23.1	.842	2.0	2.0	.03	1.35	1.35	1.68	9.80	9.01	D
5	0459	2144.0	11.7	315	421	81	38.7	2630	399	73	651.0	2137.2	.00	9.70	9.93	21.7	23.3	.836	3.0	3.0	.05	1.30	1.30	1.68	9.81	9.01	D
6	0510	2145.0	5.56	307	430	82	38.6	2620	666	113	649.0	2137.2	.00	9.70	9.93	21.9	23.7	.844	4.0	4.0	.09	1.49	1.50	1.69	9.84	9.01	D
7	0514	2146.0	12.6	311	394	82	35.3	2630	666	113	649.0	2137.2	.00	9.70	9.82	22.0	23.8	.831	5.0	5.0	.11	1.24	1.24	1.69	9.84	9.01	D
8	0520	2147.0	9.86	286	373	83	35.7	2620	666	118	649.0	2137.3	.00	9.70	9.82	22.1	23.7	.827	6.0	6.0	.13	1.31	1.31	1.69	9.85	9.01	D
9	0533	2148.0	11.4	396	524	137	36.4	2580	656	117	643.0	2138.2	.01	9.70	9.81	22.4	23.0	.839	7.0	7.0	.18	1.41	1.40	1.69	9.85	9.01	DX
10	0537	2149.1	18.5	346	536	81	33.7	2580	657	114	644.0	2138.5	.01	9.70	9.82	22.4	23.0	.837	8.0	8.0	.20	1.12	1.12	1.69	9.85	9.01	D
11	0546	2150.0	6.28	371	534	79	39.6	2580	656	113	644.0	2139.4	.02	9.70	9.82	22.6	22.9	.837	9.0	9.0	.23	1.46	1.46	1.69	9.85	9.01	D
12	0611	2152.0	9.36	357	536	83	40.0	2570	658	121	643.0	2141.8	.02	9.70	9.70	22.6	23.5	.828	11.0	1.4	.33	1.37	1.37	1.69	9.85	9.01	D
13	0616	2153.1	13.6	369	536	83	44.3	2580	657	120	642.0	2142.9	.03	9.70	9.70	22.6	23.5	.818	12.0	1.4	.35	1.31	1.31	1.69	9.85	9.01	D
14	0623	2154.0	6.82	357	534	82	44.2	2580	658	113	642.0	2144.1	.02	9.70	9.87	22.7	23.4	.836	12.9	1.6	.38	1.50	1.50	1.69	9.85	9.01	D
15	0641	2155.1	9.19	385	534	84	40.2	2710	676	119	639.0	2145.8	.02	9.70	9.88	22.8	23.1	.835	13.9	1.7	.43	1.38	1.38	1.69	9.85	9.01	D
16	0647	2156.0	8.07	354	525	84	37.9	2720	677	118	639.0	2146.5	.03	9.70	9.87	22.8	23.1	.848	15.0	1.9	.46	1.39	1.39	1.69	9.85	9.01	D
17	0653	2157.1	12.3	414	528	84	39.7	2720	677	119	638.0	2147.7	.05	9.70	9.87	22.8	23.2	.842	16.0	1.9	.48	1.30	1.30	1.69	9.85	9.01	D
18	0659	2158.0	8.89	365	527	84	40.1	2710	679	116	640.0	2148.2	.07	9.70	9.86	22.8	23.2	.838	17.0	2.0	.50	1.39	1.39	1.69	9.85	9.01	D
19	0708	2159.0	6.73	397	525	84	41.2	2710	677	118	642.0	2148.8	.03	9.70	9.85	22.8	23.4	.835	18.0	2.2	.54	1.48	1.48	1.69	9.85	9.01	D
20	0713	2160.0	13.3	392	508	84	39.4	2720	677	122	632.0	2149.9	.03	9.70	9.83	22.8	23.6	.840	19.0	2.3	.56	1.27	1.27	1.69	9.85	9.01	D
21	0715	2161.0	26.7	384	527	84	40.4	2710	677	119	636.0	2150.2	.03	9.70	9.83	22.8	23.6	.835	20.0	2.3	.57	1.09	1.09	1.69	9.85	9.01	D
22	0717	2162.0	22.7	420	528	83	37.7	2730	678	117	637.0	2150.7	.03	9.70	9.83	22.8	23.6	.834	21.0	2.4	.58	1.11	1.11	1.69	9.86	9.01	D
23	0719	2163.0	36.8	390	527	84	34.9	2710	678	119	631.0	2150.9	.03	9.70	9.80	22.8	23.7	.841	22.0	2.4	.59	.96	.96	1.70	9.86	9.01	D
24	0721	2164.0	24.6	366	496	85	32.8	2720	678	119	632.0	2151.2	.03	9.70	9.74	22.8	23.8	.829	23.0	2.4	.60	1.05	1.05	1.70	9.87	9.01	D
25	0731	2165.0	29.4	346	512	83	35.1	2690	672	115	641.0	2152.1	.02	9.70	9.72	22.8	23.7	.835									

F#	TIME	DEPTH	ROP	TORQUE	RM	FCB	PUMP	MUD	FLOW	PVT	RETURNS	GAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DXC	NX	NXB	ECD	NMMD
		m	mm/hr	AVG	MAX	AVG	PRIS	GPM	SPM	bbl	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TM					
32	0757	2172.0	19.2	376	526	81	38.6	2690	672	111	630.0	2155.3	.03	9.70	9.73	23.0	23.7	830	31.0	2.9	71	1.15	1.15	1.70	9.88 9.01 D
33	0802	2173.0	11.9	338	525	81	37.9	2700	672	119	629.0	2156.1	.03	9.70	9.74	23.0	23.9	829	32.0	3.0	73	1.27	1.27	1.70	9.88 9.01 D
34	0809	2174.1	9.54	321	459	82	35.0	2690	672	123	632.0	2157.1	.03	9.70	9.83	23.1	24.1	826	32.9	3.1	76	1.30	1.30	1.70	9.88 9.01 D
35	0822	2175.0	8.77	352	524	83	36.2	2660	668	115	637.0	2158.2	.03	9.70	9.84	23.2	23.8	846	34.0	3.2	79	1.34	1.34	1.70	9.88 9.01 D
36	0825	2176.0	22.4	366	505	82	36.4	2660	667	118	630.0	2158.5	.02	9.70	9.79	23.2	23.8	827	34.9	3.3	79	1.10	1.09	1.70	9.89 9.01 D
37	0829	2177.0	15.0	372	517	83	35.9	2660	666	122	631.0	2159.4	.02	9.70	9.75	23.2	23.8	820	36.0	3.3	81	1.20	1.20	1.70	9.89 9.01 D
38	0839	2178.1	6.18	334	515	84	39.5	2660	665	114	631.0	2163.5	.04	9.70	9.85	23.2	23.8	833	37.0	3.5	85	1.48	1.47	1.70	9.87 9.01 D
39	0851	2179.0	4.93	327	515	84	41.0	2660	667	117	629.0	2165.8	.05	9.70	9.93	23.1	23.9	831	38.0	3.7	90	1.56	1.55	1.70	9.87 9.01 D
40	0904	2180.1	4.70	334	525	84	41.6	2660	665	117	629.0	2168.9	.07	9.70	9.85	22.9	24.2	829	39.0	3.9	96	1.57	1.57	1.71	9.86 9.01 D
41	0912	2181.1	7.10	377	530	82	40.8	2650	665	115	634.0	2171.4	.08	9.70	9.88	21.1	24.3	832	40.0	4.0	99	1.45	1.45	1.71	9.85 9.01 D
42	0916	2182.0	14.5	379	531	82	40.9	2660	666	116	635.0	2172.1	.07	9.70	9.89	17.7	24.3	832	41.0	4.1	101	1.26	1.25	1.71	9.85 9.01 D
43	0921	2183.0	18.3	367	541	82	24.5	2650	665	122	631.0	2173.6	.08	9.70	9.90	14.9	24.4	830	41.9	4.2	102	1.03	1.03	1.71	9.85 9.01 D
44	0932	2184.0	21.2	328	506	91	31.6	2650	669	123	628.0	2174.0	.16	9.70	9.88	21.6	24.3	823	43.0	4.2	104	1.10	1.09	1.71	9.85 9.01 D
45	0937	2185.1	11.0	384	529	101	41.8	2670	671	118	625.0	2174.8	.14	9.70	9.87	22.9	24.0	836	43.9	4.3	107	1.40	1.39	1.71	9.85 9.01 D
46	0946	2186.0	6.04	319	526	79	39.9	2650	670	118	624.0	2177.0	.24	9.70	9.87	23.0	24.1	821	45.0	4.5	111	1.48	1.47	1.71	9.85 9.01 D
47	0959	2187.1	5.68	359	523	79	38.6	2660	669	115	626.0	2178.3	.16	9.70	9.88	23.2	24.1	827	46.0	4.7	115	1.48	1.47	1.71	9.84 9.01 D
48	1008	2188.0	5.92	354	526	77	41.8	2660	669	117	627.0	2179.0	.05	9.70	9.85	23.0	24.4	814	47.0	4.8	118	1.50	1.49	1.71	9.85 9.01 D
49	1018	2189.0	5.89	359	529	77	41.8	2650	667	118	628.0	2179.8	.03	9.70	9.84	22.9	24.6	816	48.0	5.0	122	1.50	1.49	1.71	9.85 9.01 D
50	1031	2190.0	4.78	342	527	78	41.3	2650	668	122	622.0	2181.6	.05	9.70	9.84	23.2	24.6	833	49.0	5.2	127	1.55	1.55	1.71	9.84 9.01 D
51	1041	2191.0	5.70	337	529	78	42.6	2640	678	119	623.0	2183.5	.07	9.70	9.89	23.6	24.4	849	50.0	5.4	131	1.52	1.51	1.71	9.84 9.01 D
52	1049	2192.0	7.67	322	528	77	41.4	2660	673	67	678.0	2184.7	.07	9.70	9.91	22.5	24.5	844	51.0	5.5	134	1.42	1.41	1.71	9.83 9.01 D
53	1053	2193.1	15.2	375	530	77	41.3	2710	664	122	699.0	2185.1	.07	9.70	9.87	22.0	24.5	860	52.0	5.6	136	1.23	1.23	1.71	9.84 9.01 D
54	1106	2194.0	31.7	372	439	79	39.5	2660	657	120	693.0	2186.1	.04	9.70	9.87	22.7	24.3	876	53.0	5.6	137	1.03	1.02	1.71	9.84 9.01 D
55	1109	2195.0	19.9	370	514	80	41.5	2650	662	116	693.0	2186.3	.04	9.70	9.87	22.8	24.3	878	54.0	5.7	138	1.17	1.16	1.71	9.84 9.01 D
56	1116	2196.0	9.00	394	523	80	41.7	2680	663	121	693.0	2186.8	.04	9.70	9.86	23.1	24.2	896	54.9	5.8	141	1.39	1.38	1.71	9.85 9.01 D
57	1119	2197.0	18.4	341	523	80	40.7	2670	665	122	693.0	2187.3	.05	9.70	9.87	23.3	24.3	903	55.9	5.9	142	1.19	1.18	1.71	9.85 9.01 D
58	1123	2198.0	16.3	398	526	79	41.4	2660	663	115	693.0	2187.6	.06	9.70	9.86	23.3	24.4	909	57.0	5.9	143	1.22	1.21	1.72	9.85 9.01 D
59	1133	2199.1	6.40	373	526	79	43.1	2650	664	118	693.0	2188.7	.06	9.70	9.87	23.6	24.5	972	57.9	6.1	147	1.49	1.48	1.72	9.85 9.01 D
60	1146	2200.1	4.12	288	524	80	42.1	2640	664	115	693.0	2189.7	.04	9.70	9.84	23.7	24.6	1086	59.0	6.3	153	1.61	1.60	1.72	9.85 9.01 D
61	1157	2201.0	5.47	377	525	80	41.6	2400	644	87	693.0	2190.7	.05	9.70	9.86	23.8	24.6	1193	60.0	6.5	157	1.52	1.51	1.72	9.85 9.01 D
62	1204	2202.0	8.20	334	518	79	41.1	2410	630	111	696.0	2191.4	.04	9.70	9.84	23.9	24.6	1285	60.9	6.6	160	1.41	1.39	1.72	9.85 9.01 D
63	1221	2203.2	14.6	385	532	78	38.7	2410	630	112	690.0	2193.2	.29	9.70	9.83	24.0	24.5	1432	62.0	6.7	162	1.22	1.21	1.72	9.84 9.01 D
64	1224	2204.1	19.7	419	523	79	41.1	2460	638	112	689.0	2193.2	.35	9.70	9.83	24.0	24.4	1432	63.0	6.7	163	1.17	1.16	1.72	9.85 9.01 D
65	1226	2205.1	22.7	385	493	81	36.0	2640	658	111	689.0	2194.3	.34	9.70	9.81	24.0	24.4	1432	64.0	6.8	164	1.09	1.08	1.72	9.85 9.01 D
66	1229	2206.1	20.3	363	486	81	31.5	2640	662	115	690.0	2194.8	.38	9.70	9.78	24.0	24.4	1432	65.0	6.8	165	1.08	1.06	1.72	9.85 9.01 D
67	1232	2207.0	21.1	341	473	81	27.8	2650	662	121	690.0	2195.1	.61	9.70	9.73	24.1	24.4	1432	66.0	6.9	166	1.03	1.02	1.72	9.86 9.01 D
68	1242	2208.1	6.13	343	533	80	37.5	2650	662	118	690.0	2197.9	.50	9.70	9.77	24.1	24.5	1432	67.0	7.1	170	1.45	1.43	1.72	9.85 9.01 D
69	1248	2209.0	9.46	401	534	80	41.3	2650	663	110	687.0	2198.4	.48	9.70	9.75	24.1	24.5	1432	68.0	7.1	172	1.37	1.36	1.72	9.85 9.01 D
70	1251	2210.0	18.6	415	534	80	39.6	2660	662	118	687.0	2198.8	.35	9.70	9.75	24.1	24.6	1432	69.0	7.2	173	1.17	1.16	1.72	9.85 9.01 D
71	0000	2211.0	5.30	378	533	80	41.4	2660	661	114	686.0	2199.6	.08	9.70	9.80	24.2	24.6	1432	70.0	7.4	178	1.53	1.52	1.72	9.86 9.01 D
72	1316	2212.0	4.03	353	531	81	42.3	2680	663	118	686.0	2200.8	.06	9.70	9.80	24.3	24.6	1432	71.0	7.6	184	1.62	1.60	1.72	9.86 9.01 D
73	1328	2213.0	8.23	373	518	78	41.9	2700	667	114	682.0	2202.0	.07	9.70	9.78	24.4	24.6	1432	72.0	7.7	186	1.41	1.39	1.72	9.87 9.01 D
74	1336	2214.0	6.79	359	532	75	40.4	2690	666	122	675.0	2202.8	.09	9.70	9.76	24.4	24.6	1432	73.0	7.9	190	1.43	1.42	1.72	9.89 9.01 D
75	1351	2215.0	4.25	354	528	75	40.2	2680	665	117	675.0	2207.2	.09	9.70	9.81	24.5	24.6	1432	74.0	8.1	195	1.55	1.54	1.72	9.88 9.01 D
76	1405	2216.0	4.18	386	531	75	40.2	2670	666	118	675.0	2208.8	.09	9.70	9.78	24.6	24.7	1432	75.0	8.3	201	1.55	1.54	1.73	9.90 9.01 D
77	1416	2217.0	5.49	378	533	80	40.6	2670	667	115	674.0	2210.7	.09	9.78	9.85	24.6	24.7	1432	76.0	8.5	206	1.51	1.49	1.73	9.91 9.01 D
78	1425	2218.0	5.74	409	533	82	41.0	2670	666	122	674.0	2211.3	.07	9.77	9.81	24.6	24.7	1431	77.0	8.7	210	1.50	1.48	1.73	9.92 9.01 D
79	1435	2219.0	5.42	385	532	80	41.1	2680	667	116	673.0	2212.7	.08	9.78	9.80	24.7	24.7	1432	78.0	8.8	214	1.51	1.49	1.73	9.91 9.01 D
80	1441	2220.0	10.4	421	536	77	43.4	2670	666	122	673.0	2213.0	.07	9.75	9.80	24.8	24.7	1432	79.0	8.9	217	1.35	1.33	1.73	9.91 9.01 D
81	1445	2221.0	15.8	416	533	79	39.9	2680	667	112	674.0	2213.4	.07	9.74	9.82	24.8	24.7	1432	79.9	9.0	218	1.21	1.19	1.73	9.91 9.01 D

F#	TIME	DEPTH	KOP	TORQUE	RPM	FOB	PUMP	MUD FLOW	SPM	FVT	RETURNS	GAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DXC	NX	NXB	ECD	NXMD		
		m	m/hr	AVG	MAX	AVG	PRES	GIM		bb1	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TW							
82	1451	2222.0	8.15	385	535	79	40.8	2680	665	122	673.0	2213.9	.07	9.76	9.82	24.8	24.8	1.432	81.0	9.1	2.21	1.38	1.36	1.73	9.91	9.01	
83	1504	2223.0	11.3	362	532	80	39.3	2700	664	115	680.0	2214.5	.05	9.74	9.84	24.9	24.8	1.432	82.0	9.2	2.24	1.30	1.28	1.73	9.91	9.01	
84	1511	2224.1	9.23	402	537	83	40.3	2700	666	116	677.0	2215.1	.03	9.76	9.82	25.0	24.8	1.432	83.0	9.3	2.27	1.37	1.35	1.73	9.91	9.01	
85	1521	2225.0	5.69	426	535	81	42.7	2690	668	115	678.0	2215.9	.05	9.75	9.85	25.0	24.8	1.432	84.0	9.5	2.32	1.52	1.50	1.73	9.91	9.01	
86	1529	2226.0	7.57	403	533	79	44.6	2710	666	115	678.0	2216.6	.03	9.77	9.85	25.0	24.9	1.432	85.0	9.6	2.35	1.46	1.44	1.73	9.91	9.01	
87	1540	2227.0	5.26	383	532	79	43.4	2780	679	118	678.0	2217.8	.03	9.77	9.89	25.0	24.9	1.432	86.0	9.8	2.40	1.54	1.52	1.73	9.91	9.01	
88	1552	2228.0	4.73	398	523	79	43.9	2800	679	124	679.0	2218.8	.03	9.79	9.93	24.9	24.9	1.432	86.9	10.0	2.46	1.58	1.56	1.73	9.91	9.01	
89	1604	2229.0	4.95	369	524	79	43.3	2650	659	118	679.0	2221.5	.07	9.73	9.85	24.9	24.9	1.432	88.0	10.2	2.51	1.56	1.54	1.73	9.90	9.01	
90	1614	2230.0	6.18	371	531	79	44.3	2710	668	118	678.0	2222.8	.05	9.74	9.79	25.0	24.9	1.432	89.0	10.4	2.55	1.51	1.49	1.73	9.90	9.01	
91	1624	2231.0	5.73	356	530	81	42.5	2690	669	116	682.0	2223.9	.03	10.2	9.78	25.0	24.9	1.432	90.0	10.6	2.60	1.52	1.49	1.73	9.90	9.01	
92	1626	2232.0	26.3	370	503	82	38.1	2700	668	122	683.0	2224.0	.03	9.79	9.77	24.9	24.8	1.432	91.0	10.6	2.61	1.07	1.05	1.73	9.90	9.01	
93	1640	2233.0	18.3	379	528	82	40.1	2670	662	121	679.0	2225.9	.04	9.81	9.79	25.1	24.8	1.432	91.9	10.8	2.67	1.34	1.31	1.74	9.91	9.01	
94	1652	2234.0	10.3	388	532	80	40.8	2660	660	121	679.0	2226.5	.03	9.80	9.79	25.2	24.8	1.432	92.9	10.9	2.69	1.34	1.31	1.74	9.90	9.01	
95	1701	2235.0	6.62	390	532	80	41.7	2670	661	121	679.0	2227.2	.04	9.79	9.79	25.3	24.8	1.432	94.0	11.1	2.73	1.46	1.44	1.74	9.90	9.01	
96	1712	2236.0	5.64	399	531	80	43.7	2670	662	121	679.0	2228.0	.03	9.77	9.79	25.2	24.7	1.432	95.0	11.2	2.78	1.53	1.51	1.74	9.91	9.01	
97	1722	2237.0	5.86	403	533	76	44.2	2680	660	115	679.0	2228.9	.03	9.81	9.80	25.2	24.7	1.432	96.0	11.4	2.83	1.51	1.49	1.74	9.91	9.01	
98	1734	2238.0	4.41	404	520	80	43.3	2680	661	121	678.0	2229.9	.02	9.86	9.82	25.2	24.7	1.432	97.0	11.6	2.88	1.59	1.57	1.74	9.91	9.01	
99	1747	2239.0	4.60	376	530	80	42.5	2670	660	121	678.0	2232.0	.02	9.70	9.87	25.1	24.6	1.432	98.0	11.8	2.96	1.57	1.54	1.74	9.92	9.01	
100	1801	2240.0	4.34	375	524	80	43.6	2660	661	117	678.0	2232.9	.02	9.70	9.87	25.1	24.6	1.432	99.0	12.0	3.06	1.60	1.57	1.74	9.91	9.01	
101	1814	2241.0	4.64	375	531	79	43.9	2660	660	115	683.0	2234.7	.03	9.77	9.84	24.9	24.6	1.432	100	12.3	3.14	1.58	1.55	1.74	9.93	9.01	
102	1826	2242.0	4.86	370	487	80	43.3	2660	660	113	690.0	2236.0	.02	9.66	9.86	24.9	24.7	1.432	101	12.5	3.23	1.56	1.53	1.74	9.92	9.01	
103	1920	2243.1	4.85	393	533	75	42.2	2680	662	117	682.0	2239.3	.02	9.70	9.81	24.7	25.0	1.432	102	12.7	3.32	1.54	1.51	1.74	9.87	9.01	
104	1932	2244.0	4.39	413	533	76	43.4	2690	661	121	687.0	2240.4	.02	9.70	9.81	25.0	25.0	1.432	103	12.9	3.40	1.59	1.56	1.74	9.85	9.01	
105	1942	2245.0	5.84	405	516	75	43.8	2680	660	117	680.0	2241.2	.02	9.70	9.79	25.1	25.1	1.432	104	13.1	3.47	1.51	1.48	1.74	9.84	9.01	
106	1955	2246.0	4.63	388	529	71	42.7	2680	660	116	684.0	2241.9	.03	9.70	9.81	25.0	25.0	1.432	105	13.3	3.54	1.56	1.52	1.74	9.83	9.01	
107	2005	2247.0	5.71	419	530	74	43.4	2680	661	114	682.0	2241.9	.01	9.70	9.82	25.0	25.1	1.432	106	13.5	3.60	1.52	1.48	1.74	9.82	9.01	
108	2017	2248.0	5.14	391	530	74	43.5	2680	661	114	684.0	2241.9	.01	9.70	9.82	24.9	25.0	1.432	107	13.7	3.67	1.55	1.51	1.74	9.83	9.01	
109	2025	2250.0	15.2	364	530	75	40.3	2680	662	117	685.0	2242.2	.01	9.70	9.79	24.9	25.0	1.432	109	13.8	3.73	1.22	1.19	1.75	9.83	9.01	
110	2048	2251.0	2.69	356	528	75	44.0	2680	661	115	689.0	2244.1	.02	9.70	9.82	24.9	25.0	1.432	110	14.2	3.87	1.73	1.70	1.75	9.83	9.01	
111	2209	2254.0	2.74	335	529	70	45.2	2650	652	113	680.0	2251.1	.01	9.70	9.72	24.6	25.0	.851	113	15.2	4.27	1.73	1.69	1.74	9.81	9.03	
114	2234	2255.0	2.44	350	538	77	46.6	2740	668	118	684.0	2251.5	.01	9.70	9.69	24.7	25.2	.857	114	15.7	4.43	1.80	1.76	1.74	9.82	9.03	
115	2257	2256.0	2.39	331	541	68	47.0	2750	667	115	659.0	2252.7	.02	9.70	9.62	24.8	25.5	.851	115	16.0	4.57	1.78	1.74	1.74	9.82	9.03	
116	2320	2257.0	2.51	330	526	68	48.2	2730	669	116	682.0	2253.8	.02	9.70	9.77	24.9	25.7	.862	116	16.4	4.70	1.78	1.74	1.74	9.82	9.04	
Date Nov 8 '84																											
117	0007	2258.0	1.36	353	539	62	48.1	2040	564	98	479.0	2255.6	.02	9.70	9.79	25.5	25.9	.874	117	17.2	4.95	1.93	1.89	1.74	9.80	9.04	
118	0032	2259.0	2.34	357	541	54	51.6	2770	672	118	439.0	2256.7	.02	9.70	9.83	25.7	26.5	.877	118	17.6	5.06	1.78	1.73	1.74	9.81	9.04	
NB#15 Smith SWH, 12.25", Jets 16:16:16.																											
124	0610	2260.0	6.80	292	431	71	29.6	2660	648	112	467.0	2258.0	.01	9.70	9.75	20.7	15.5	.935	1.5	.2	.00	1.30	1.31	1.75	9.81	9.04	
125	0618	2262.0	6.99	296	339	98	40.8	2670	649	115	469.0	2258.2	.01	9.70	9.79	18.2	20.9	.869	2.5	.4	.00	1.51	1.51	1.75	9.82	9.04	
126	0636	2263.0	6.93	295	343	98	40.6	2720	653	112	468.0	2258.5	.01	9.70	9.73	18.0	22.4	.901	3.4	.5	.01	1.51	1.51	1.75	9.82	9.04	
127	0643	2264.0	8.81	298	336	98	39.3	2720	654	114	470.0	2258.7	.01	9.70	9.66	18.8	22.3	.895	4.5	.6	.01	1.43	1.43	1.75	9.82	9.04	
128	0652	2265.0	6.45	296	347	99	39.0	2710	654	120	470.0	2258.9	.03	9.70	9.68	19.7	22.7	.890	5.4	.8	.01	1.51	1.51	1.75	9.83	9.04	
129	0658	2266.1	10.4	297	344	99	38.7	2710	654	120	470.0	2259.1	.04	9.70	9.71	20.4	22.5	.885	6.5	.9	.01	1.38	1.38	1.75	9.83	9.04	
130	0705	2267.0	7.82	303	347	99	39.4	2700	655	116	469.0	2259.2	.03	9.70	9.75	20.7	23.0	.885	7.5	1.0	.01	1.46	1.46	1.75	9.84	9.04	
131	0728	2270.0	7.49	304	352	99	39.2	2710	656	118	469.0	2260.7	.06	9.70	9.69	22.0	23.1	.904	10.4	1.3	.29	1.47	1.47	1.75	9.84	9.04	
134	0736	2271.0	7.40	303	345	99	40.1	2720	655	115	469.0	2261.6	.03	9.70	9.73	22.2	23.3	.890	11.5	1.5	.41	1.4					

F#	TIME	DEPTH	ROP	AVG	TORQUE	RPM	FCB	PUMP	MUD	FLOW	PVT	RETURNS	GAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DXC	NXB	ECD	NXMD
		m	m/hr		AVG	MAX	AVG	PRES	CHM	SPM	bb1	DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TW				
140	0839	2277.1	5.45	299	363	101	40.2	2720	652	114	474.0	2268.8	.03	9.70	9.78	23.0	23.5	.893	17.4	2.4	1.19	1.57	1.56	1.76	9.84 9.04 D
143	0920	2280.0	7.79	301	346	98	41.9	2710	652	114	486.0	2272.6	.03	9.70	9.96	23.1	23.5	.924	20.4	2.9	1.55	1.49	1.47	1.76	9.83 9.04 DX
144	0929	2281.0	6.26	282	328	97	36.8	2710	652	112	489.0	2273.5	.03	9.70	9.90	23.2	23.4	.925	21.5	3.1	1.64	1.49	1.47	1.76	9.83 9.04 D
145	0939	2282.0	6.03	278	315	98	35.0	2710	652	111	451.0	2274.6	.02	9.70	9.87	23.2	23.8	.923	22.5	3.3	1.73	1.48	1.46	1.76	9.83 9.04 D
146	0948	2283.0	7.00	279	345	98	34.7	2720	652	112	454.0	2275.8	.02	9.70	9.88	23.2	24.1	.934	23.4	3.4	1.81	1.43	1.42	1.76	9.83 9.04 D
147	0957	2284.0	6.71	289	332	98	37.7	2720	654	114	457.0	2276.7	.02	9.70	9.88	23.3	24.1	.989	28.4	3.6	1.89	1.48	1.46	1.76	9.83 9.04 D
148	1006	2285.0	6.67	277	334	98	36.4	2710	653	113	458.0	2277.3	.02	9.70	9.88	23.4	24.1	1.049	25.4	3.7	1.97	1.47	1.45	1.76	9.84 9.04 D
149	1015	2286.1	6.39	295	336	98	39.0	2720	653	114	460.0	2278.3	.02	9.70	9.92	23.5	24.1	1.170	26.5	3.9	2.05	1.51	1.49	1.76	9.84 9.04 D
150	1023	2287.0	7.24	292	336	98	39.7	2730	653	116	461.0	2279.0	.02	9.70	9.92	23.6	24.0	1.233	27.5	4.0	2.13	1.48	1.46	1.76	9.84 9.04 D
151	1032	2288.0	6.71	289	327	98	38.8	2730	653	115	463.0	2279.5	.02	9.70	9.91	23.6	24.0	1.313	28.4	4.1	2.20	1.49	1.47	1.76	9.84 9.04 D
152	1041	2289.0	6.58	288	320	98	39.4	2730	652	112	466.0	2280.3	.02	9.70	9.88	23.6	23.9	1.409	29.5	4.3	2.28	1.51	1.48	1.76	9.84 9.04 D
153	1058	2290.0	9.15	287	368	99	36.3	2840	666	116	470.0	2281.7	.02	9.83	9.88	23.7	23.8	1.432	30.5	4.4	2.33	1.39	1.36	1.76	9.84 9.04 DX
154	1107	2291.1	7.69	287	331	99	37.9	2850	666	118	471.0	2282.7	.02	9.86	9.91	23.7	23.8	.925	31.5	4.5	2.39	1.45	1.42	1.76	9.84 9.04 D
155	1115	2292.0	6.44	294	326	100	40.6	2840	667	114	472.0	2283.6	.02	9.92	9.91	23.7	23.8	.932	32.5	4.7	2.45	1.53	1.50	1.76	9.86 9.04 D
156	1124	2293.0	6.98	286	343	100	41.0	2850	667	116	475.0	2284.7	.02	10.1	9.91	23.7	23.8	.925	33.5	4.8	2.51	1.51	1.48	1.76	9.89 9.04 D
157	1135	2294.0	5.61	265	331	100	37.4	2850	667	116	484.0	2285.9	.02	9.79	9.84	23.7	23.8	.938	34.5	5.0	2.58	1.52	1.49	1.77	9.93 9.04 D
158	1141	2295.0	8.58	284	322	100	38.8	2850	665	117	488.0	2286.7	.02	9.61	9.80	23.7	23.8	.935	35.5	5.1	2.63	1.42	1.39	1.77	9.96 9.04 D
159	1148	2296.0	8.47	279	321	100	38.3	2860	667	119	493.0	2287.6	.02	9.60	9.83	23.7	23.9	.933	36.4	5.2	2.67	1.41	1.38	1.77	9.97 9.04 D
160	1157	2297.0	6.83	282	319	100	38.4	2830	665	122	498.0	2288.5	.02	9.56	9.82	23.7	23.9	.931	37.4	5.4	2.73	1.47	1.44	1.77	9.96 9.04 D
161	1200	2298.0	6.58	279	321	100	38.9	2850	666	119	503.0	2289.4	.02	9.54	9.87	23.7	23.9	.937	38.5	5.5	2.78	1.49	1.46	1.77	9.95 9.04 D
162	1228	2299.0	5.51	270	333	101	38.3	2820	662	116	515.0	2291.2	.02	9.62	9.87	23.6	23.9	.927	39.4	5.8	2.88	1.54	1.50	1.77	9.90 9.04 DX
163	1239	2300.0	5.21	282	321	97	39.2	2830	663	117	443.0	2292.3	.01	9.64	9.90	23.6	23.9	.924	40.5	6.0	2.94	1.56	1.53	1.77	9.87 9.04 D
164	1249	2301.0	8.53	284	316	97	39.5	2830	662	121	442.0	2293.2	.02	9.68	9.90	23.6	23.8	.925	41.4	6.1	2.99	1.43	1.40	1.77	9.84 9.04 D
165	1254	2302.0	7.56	273	317	97	38.6	2830	663	112	444.0	2294.1	.02	9.66	9.85	23.6	23.8	.926	42.4	6.2	3.03	1.46	1.43	1.77	9.81 9.04 D
166	1302	2303.0	6.63	204	334	96	40.0	2840	662	116	455.0	2295.2	.02	9.67	9.92	23.6	23.9	.923	43.4	6.4	3.08	1.52	1.48	1.77	9.76 9.04 D
167	1307	2304.0	11.7	294	354	96	37.6	2830	661	121	461.0	2295.8	.02	9.69	9.89	23.5	23.0	.933	44.4	6.4	3.11	1.34	1.31	1.77	9.74 9.04 D
168	1318	2305.0	15.7	297	372	86	37.9	2780	654	111	460.0	2296.4	.02	9.59	9.88	23.5	23.8	.946	45.4	6.5	3.13	1.23	1.20	1.77	9.75 9.04 D
169	1321	2306.0	15.4	286	358	88	38.3	2780	653	120	460.0	2296.8	.02	9.64	9.86	23.5	23.8	.957	46.5	6.6	3.14	1.25	1.22	1.77	9.75 9.04 D
170	1338	2307.0	3.61	265	534	89	41.7	2780	654	114	467.0	2298.4	.02	9.72	9.79	23.5	23.8	.948	47.5	6.8	3.23	1.68	1.65	1.77	9.76 9.04 D
171	1354	2308.0	3.76	271	326	92	40.9	2770	654	111	466.0	2299.4	.02	9.71	9.77	23.6	23.8	.959	48.4	7.1	3.31	1.67	1.63	1.77	9.79 9.04 D
172	1410	2309.0	6.68	288	362	88	40.1	2800	657	114	466.0	2300.8	.02	9.68	9.82	23.8	23.8	.957	49.5	7.3	3.36	1.49	1.45	1.77	9.81 9.04 DX
173	1412	2310.0	25.4	327	441	90	38.5	2810	658	121	466.0	2301.1	.02	9.65	9.93	23.8	23.8	.964	50.4	7.4	3.39	1.12	1.08	1.77	9.82 9.04 D
174	1416	2311.0	14.1	289	357	93	36.3	2800	658	113	465.0	2301.5	.02	9.69	9.92	23.8	23.8	.964	51.4	7.4	3.39	1.26	1.22	1.78	9.82 9.04 D
175	1421	2312.0	12.8	316	421	93	39.4	2790	657	115	465.0	2302.2	.02	9.75	9.89	23.9	23.8	.953	52.4	7.5	3.42	1.31	1.28	1.78	9.83 9.04 D
176	1427	2313.0	9.48	346	552	97	32.1	2790	658	117	466.0	2302.9	.02	9.75	9.88	24.0	23.8	.959	53.5	7.6	3.44	1.32	1.29	1.78	9.83 9.04 D
178	1436	2314.0	7.17	302	551	103	18.3	2800	659	121	465.0	2304.6	.02	9.77	9.84	24.0	23.8	.958	54.5	7.7	3.48	1.21	1.18	1.78	9.84 9.04 D
179	1443	2315.0	7.94	341	540	103	20.4	2800	659	114	466.0	2306.0	.04	9.73	9.86	23.8	23.8	.953	55.5	7.8	3.52	1.22	1.19	1.78	9.85 9.04 D
180	1451	2316.0	8.13	282	536	105	17.0	2820	658	121	492.0	2306.6	.03	9.73	9.86	23.4	23.8	.962	56.5	8.0	3.55	1.16	1.13	1.78	9.85 9.04 D
181	1457	2317.0	9.78	280	527	105	16.6	2830	660	115	491.0	2306.9	.02	9.89	9.85	23.6	23.8	.963	57.5	8.1	3.58	1.12	1.08	1.78	9.87 9.04 D
182	1504	2318.0	8.96	309	531	105	16.5	2820	658	114	491.0	2307.3	.02	9.90	9.83	23.6	23.8	.963	58.4	8.2	3.61	1.13	1.10	1.78	9.87 9.04 D
183	1524	2319.0	7.22	286	547	101	19.6	2850	664	116	491.0	2308.3	.02	9.86	9.88	23.7	23.8	.955	59.4	8.3	3.65	1.22	1.19	1.78	9.90 9.04 DX
186	1554	2322.0	6.83	291	527	103	24.8	2850	664	122	492.0	2313.6	.03	9.78	10.0	23.7	23.8	.951	62.5	8.8	3.79	1.31	1.27	1.78	9.93 9.04 D
187	1601	2323.0	8.19	297	538	104	27.8	2850	664	122	492.0	2314.6	.02	9.81	10.0	23.7	23.8	.950	63.4	8.9	3.82	1.31	1.27	1.78	9.94 9.04 D
188	1610	2324.0	6.59	286	538	105	22.1	2850	663	112	492.0	2315.8	.02	9.79	9.99	23.7	23.8	.964	64.5	9.1	3.86	1.28	1.24	1.78	9.94 9.04 D
189	1619	2325.0	7.08	307	534	104	22.8	2850	664	116	493.0	2317.0	.01	9.78	10.1	23.7	23.8	.987	65.5	9.2	3.90	1.27	1.23	1.78	9.95 9.04 D
190	1628	2326.0	6.36	324	536	99	34.2	2850	663	112	488.0	2317.9	.01	9.81	10.0	23.7	23.8	1.017	66.4	9.4	3.93	1.44	1.40	1.78	9.96 9.04 D
191	1637	2327.0	6.53	323	537	99	23.8	2860	664	114	489.0	2318.6	.01	9.81	9.92	23.8	23.8	1.019	67.4	9.5	3.98	1.29	1.26	1.78	9.95 9.04 D
192	1654	2328.1	4.03	316	543	97	18.6	2780	656	115	488.0	2319.4	.01	9.74	9.71	23.9	23.9	.993	68.5	9.7	4.01	1.31	1.28	1.79	9.95 9.04 D
193	1700	2329.0	9.21	316	544	100	17.4	2790	655	113	490.0	2320.4	.01	9.71	9.81	23.9	23.9	.981	69.4	9.8	4.04	1.12	1.09	1.79	9.95 9.04 D
194	1710	2330.0	6.24	331	545	104	17.9	2810	656	116	490.0	2321.4	.02	9.71	9.85	23.9	23.9	.975	70.5						

FW	TIME	DEPTH	KOP	TORQUE	RPM	FOD	HUMP	MD	FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DNC	NX	NXB	ECD	NXMD			
		m/hr		AVG	MAX	AVG	PRES	GRM	SPM	bbbl	DEPTH	%	IN	OUT	IN	OUT	m	hrs	TW								
195	1717	2331.0	8.24	324	546	109	16.6	2800	657	120	490.0	2322.5	.02	9.71	9.86	23.9	71.4	10.1	4.11	1.16	1.12	1.79	9.93	9.04	D		
196	1725	2332.0	7.31	351	541	110	16.4	2800	656	112	492.0	2323.5	.01	9.71	9.84	23.9	72.5	10.2	4.14	1.18	1.14	1.79	9.92	9.04	D		
197	1734	2333.0	7.16	330	542	111	16.7	2800	656	114	493.0	2324.7	.01	9.70	9.86	23.9	73.4	10.3	4.18	1.19	1.15	1.79	9.91	9.04	D		
198	1742	2334.0	7.11	305	539	112	17.4	2800	656	113	493.0	2325.6	.01	9.68	9.85	23.9	74.4	10.5	4.22	1.21	1.17	1.79	9.90	9.04	D		
199	1747	2335.0	11.7	271	358	108	23.3	2800	655	114	493.0	2326.2	.01	9.67	9.84	23.9	75.4	10.6	4.25	1.18	1.14	1.79	9.90	9.04	D		
200	1754	2336.0	9.25	268	415	107	28.7	2820	658	115	493.0	2326.9	.02	9.66	9.91	23.8	76.5	10.7	4.28	1.31	1.26	1.79	9.89	9.04	D		
201	1759	2337.0	10.6	312	534	106	28.5	2820	657	117	494.0	2327.4	.01	9.65	9.91	23.8	77.4	10.8	4.30	1.27	1.22	1.79	9.88	9.04	D		
202	1823	2338.0	6.28	319	544	108	29.1	2860	662	115	454.0	2328.8	.01	9.60	9.90	23.7	78.5	11.0	4.35	1.39	1.35	1.79	9.85	9.04	D		
203	1838	2339.0	4.38	353	546	103	21.1	2850	663	117	454.0	2330.8	.01	9.63	9.81	23.7	79.5	11.2	4.40	1.37	1.33	1.79	9.82	9.04	D		
204	1849	2340.0	5.52	320	549	114	17.5	2850	662	121	454.0	2332.0	.01	9.64	9.81	24.0	80.5	11.4	4.45	1.28	1.24	1.79	9.80	9.04	D		
205	1903	2341.0	4.31	325	549	115	14.6	2850	663	121	455.0	2333.7	.02	9.60	9.83	24.1	81.5	11.6	4.51	1.28	1.24	1.79	9.79	9.04	D		
206	1924	2342.0	2.96	293	546	105	19.9	2860	662	115	455.0	2337.2	.02	9.57	9.85	24.0	82.5	11.9	4.59	1.45	1.40	1.79	9.75	9.04	D		
207	1939	2343.0	4.16	329	546	101	17.5	2870	663	114	461.0	2337.7	.01	9.55	9.85	24.0	83.4	12.2	4.65	1.32	1.28	1.79	9.74	9.04	D		
208	1959	2344.0	2.97	314	547	108	15.0	2870	663	118	461.0	2339.2	.04	9.49	9.88	24.0	84.5	12.5	4.71	1.35	1.30	1.79	9.73	9.04	D		
209	2012	2345.0	4.74	311	538	102	16.6	2730	648	114	464.0	2340.2	.04	9.49	9.86	24.0	85.4	12.7	4.76	1.29	1.24	1.80	9.70	9.04	D		
210	2022	2346.0	5.63	341	536	101	17.7	2710	648	111	463.0	2340.8	.04	9.48	9.83	24.0	86.5	12.9	4.79	1.27	1.22	1.80	9.69	9.04	D		
211	2045	2347.0	5.30	349	545	108	16.2	2820	657	109	471.0	2341.5	.04	9.76	9.82	24.0	87.5	13.1	4.83	1.25	1.21	1.80	9.67	9.04	DX		
212	2100	2348.0	4.47	359	542	102	13.0	2800	658	111	518.0	2342.5	.04	9.84	9.79	23.6	88.4	13.4	4.88	1.23	1.19	1.80	9.66	9.04	D		
213	2114	2349.0	4.28	315	547	102	18.8	2860	660	121	434.0	2343.2	.04	9.78	9.78	23.7	89.5	13.6	4.93	1.35	1.31	1.80	9.68	9.04	D		
214	2124	2350.0	6.04	311	539	110	15.2	2850	660	111	434.0	2343.6	.04	9.71	9.87	23.8	90.5	13.7	4.97	1.22	1.18	1.80	9.70	9.04	D		
215	2131	2351.0	9.15	313	541	110	17.6	2840	660	115	436.0	2344.1	.04	9.72	9.85	23.9	91.5	13.9	4.99	1.17	1.13	1.80	9.72	9.04	D		
216	2141	2352.0	6.01	374	540	107	17.2	2820	658	118	436.0	2344.8	.04	9.74	9.79	23.9	92.5	14.0	5.03	1.25	1.20	1.80	9.75	9.04	D		
217	2151	2353.0	6.24	415	546	104	17.1	2810	659	114	437.0	2345.7	.04	9.79	9.89	23.9	93.5	14.2	5.06	1.23	1.19	1.80	9.77	9.04	D		
218	2203	2354.0	5.21	424	547	104	18.2	2830	660	121	430.0	2346.4	.04	9.72	9.94	23.9	94.4	14.4	5.10	1.28	1.24	1.80	9.80	9.04	D		
219	2211	2355.0	7.03	412	549	102	24.8	2840	660	116	432.0	2346.9	.04	9.78	9.99	23.8	95.4	14.5	5.14	1.31	1.26	1.80	9.84	9.04	D		
220	2223	2356.0	5.16	381	550	108	20.9	2850	733	134	431.0	2347.8	.01	9.80	9.92	23.8	96.5	14.7	5.18	1.33	1.28	1.80	9.89	9.04	D		
221	2243	2357.0	5.95	400	547	103	17.3	2850	660	116	410.0	2349.0	.01	9.93	9.76	23.9	97.4	14.9	5.22	1.23	1.18	1.80	9.90	9.04	DX		
222	2252	2358.0	6.28	410	550	104	19.6	2880	661	121	463.0	2350.1	.01	9.81	9.79	23.9	98.5	15.1	5.25	1.26	1.21	1.80	9.90	9.04	D		
223	2306	2359.0	4.39	437	550	103	16.9	2870	659	115	461.0	2351.6	.01	9.73	9.78	24.1	99.4	15.3	5.30	1.28	1.24	1.80	9.91	9.04	D		
224	2317	2360.0	5.55	395	548	106	15.9	2860	659	116	471.0	2352.8	.01	9.71	9.75	24.1	100	15.5	5.34	1.22	1.17	1.80	9.93	9.04	D		
225	2329	2361.0	5.01	401	548	107	17.8	2860	659	116	460.0	2353.8	.01	9.63	9.82	24.1	101	15.7	5.38	1.28	1.23	1.81	9.93	9.04	D		
226	2337	2362.0	7.24	351	544	110	20.4	2850	658	111	460.0	2354.7	.01	9.65	9.84	24.1	102	15.8	5.41	1.25	1.19	1.81	9.92	9.04	D		
227	2349	2363.0	5.16	368	551	109	23.8	2860	659	115	460.0	2355.7	.01	9.67	9.83	24.0	103	16.0	5.46	1.38	1.32	1.01	9.91	9.04	D		
228	2359	2364.0	5.98	397	549	107	28.4	2850	660	121	460.0	2356.2	.01	9.64	9.81	24.0	104	16.2	5.50	1.41	1.35	1.81	9.90	9.04	D		
Date Nov 9 '84																											
229	0006	2365.0	8.20	344	550	109	24.6	2850	659	113	459.0	2356.8	.02	9.63	9.82	23.9	105	16.3	5.53	1.28	1.23	1.81	9.89	9.04	D		
230	0017	2366.0	5.41	429	551	104	23.7	2850	659	115	460.0	2357.9	.01	9.66	9.83	23.9	106	16.5	5.56	1.36	1.30	1.81	9.88	9.04	D		
231	0044	2367.0	3.85	404	552	103	24.0	2880	663	121	455.0	2359.8	.01	9.68	9.77	23.8	107	16.8	5.63	1.45	1.39	1.81	9.81	9.04	DX		
232	0057	2368.0	4.58	403	551	104	19.0	2880	663	121	453.0	2360.9	.01	9.72	9.79	23.9	108	17.0	5.67	1.33	1.27	1.81	9.80	9.04	D		
233	0132	2369.1	1.97	343	548	102	28.8	2890	663	117	455.0	2361.8	.01	9.72	9.82	24.0	109	17.5	5.80	1.69	1.63	1.81	9.80	9.04	D		
234	0200	2370.0	2.15	398	551	101	21.6	2880	662	115	444.0	2366.4	.01	9.71	9.83	24.1	110	18.0	5.88	1.53	1.48	1.81	9.82	9.04	D		
235	0220	2371.0	3.12	352	545	105	20.2	2880	663	119	454.0	2367.8	.01	9.67	9.84	24.0	111	18.3	5.94	1.43	1.38	1.81	9.83	9.04	D		
236	0243	2372.0	2.69	343	552	107	27.3	2890	664	115	462.0	2368.7	.01	9.70	9.80	23.8	112	18.7	6.02	1.59	1.53	1.81	9.83	9.04	D		
237	0258	2373.0	4.04	414	552	101	28.4	2900	664	116	464.0	2368.9	.01	9.70	9.81	23.7	113	18.9	6.07	1.50	1.44	1.81	9.80	9.04	D		
238	0316	2374.0	3.40	380	549	104	26.1	2900	665	122	470.0	2369.7	.01	9.73	9.82	23.8	114	19.2	6.14	1.53	1.47	1.81	9.69	9.04	D		
239	0343	2375.0	2.25	307	543	107	29.0	2870	665	117	474.0	2370.8	.01	9.74	9.83	23.9	115	19.6	6.24	1.71	1.64						

F#	TIME DEPTH	ROP	TORQUE	RPM	FUB	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	TEMP	RES	THIS BIT	EST	DXC	NX	NXB	ECD	NWD																	
	m	m/hr	AVG MAX	AVG	AVG	PRES	GPM	bbl	DEPTH	lb/gal	IN	OUT	m	hrs	TW																					
244	0501	2380.0	4.34	99	32.0	2800	660	117	480.0	2374.4	0.00	9.75	9.80	4.7	24.5	1.027	120	20.8	6.48	1.52	1.45	1.82	9.85	9.04	D											
245	0516	2381.0	4.18	103	31.3	2850	661	114	478.0	2374.9	0.00	9.74	9.83	24.1	24.7	1.011	121	21.1	6.53	1.53	1.46	1.82	9.86	9.04	D											
246	0523	2382.0	8.73	102	29.8	2800	661	121	478.0	2375.3	0.00	9.73	9.82	24.2	24.7	1.002	122	21.2	6.56	1.32	1.26	1.82	9.86	9.04	D											
247	0534	2383.0	5.41	104	29.9	2800	661	117	477.0	2375.9	0.00	9.75	9.84	24.3	25.0	.977	123	21.3	6.60	1.50	1.43	1.82	9.86	9.04	D											
248	0541	2384.0	8.47	105	31.1	2800	661	117	477.0	2376.4	0.00	9.74	9.84	24.3	25.0	1.007	124	21.5	6.62	1.40	1.33	1.82	9.86	9.04	D											
249	0603	2385.0	6.38	106	30.7	2830	656	109	474.0	2377.7	0.00	9.77	9.85	24.5	25.3	.978	125	21.7	6.66	1.42	1.35	1.82	9.85	9.04	DX											
250	0612	2386.0	6.64	108	32.9	2830	655	114	474.0	2378.6	0.00	9.66	9.84	24.6	25.1	1.002	126	21.8	6.70	1.45	1.37	1.82	9.85	9.04	D											
251	0619	2387.0	7.80	107	32.1	2830	653	113	474.0	2379.2	0.00	9.64	9.84	24.8	25.0	.995	127	21.9	6.72	1.39	1.32	1.82	9.85	9.04	D											
252	0627	2388.0	7.63	107	31.2	2830	655	114	475.0	2379.7	0.01	9.74	9.82	24.9	25.0	1.001	128	22.1	6.75	1.39	1.31	1.82	9.85	9.04	D											
253	0635	2389.0	7.29	105	33.2	2840	656	115	474.0	2380.2	0.00	9.82	9.83	24.9	25.0	1.011	129	22.2	6.78	1.42	1.35	1.82	9.86	9.04	D											
254	0642	2390.0	8.82	104	31.2	2840	656	115	474.0	2380.7	0.00	9.71	9.83	24.9	25.0	1.003	130	22.3	6.81	1.35	1.27	1.82	9.86	9.04	D											
255	0650	2391.0	7.46	105	32.3	2850	657	114	472.0	2381.7	0.01	9.78	9.84	24.9	25.0	1.039	131	22.4	6.84	1.40	1.33	1.82	9.86	9.04	D											
256	0711	2392.0	2.88	103	33.2	2840	656	115	468.0	2384.0	0.02	9.71	9.83	24.9	24.9	1.007	132	22.8	6.92	1.65	1.58	1.82	9.85	9.04	D											
257	0728	2393.0	3.58	108	33.3	2850	656	112	463.0	2384.8	0.01	9.75	9.89	24.9	25.1	1.001	133	23.1	6.98	1.61	1.53	1.82	9.86	9.04	D											
258	0736	2394.0	7.70	106	32.8	2840	657	120	463.0	2385.5	0.01	9.65	9.83	24.9	25.2	1.008	134	23.2	7.01	1.40	1.33	1.83	9.87	9.04	D											
259	0754	2395.0	6.87	107	33.3	2830	655	120	457.0	2387.7	0.02	9.71	9.97	24.9	25.2	1.003	135	23.4	7.05	1.44	1.36	1.83	9.87	9.04	DX											
260	0801	2396.0	8.86	103	34.0	2830	653	116	454.0	2388.5	0.00	9.73	9.90	25.0	25.3	.992	136	23.5	7.08	1.37	1.30	1.83	9.86	9.04	D											
261	0813	2397.0	5.07	105	33.9	2830	653	120	452.0	2390.1	0.01	9.79	9.84	25.1	25.4	.987	137	23.7	7.12	1.52	1.44	1.83	9.86	9.04	D											
262	0828	2398.0	9.91	107	36.7	2830	653	114	442.0	2391.6	0.01	9.82	9.82	25.2	25.4	.994	138	24.0	7.18	1.63	1.55	1.83	9.87	9.04	D											
263	0845	2399.0	3.49	107	40.3	2820	652	111	441.0	2392.0	0.01	9.60	9.79	25.3	25.4	.996	139	24.3	7.25	1.71	1.62	1.83	9.87	9.04	D											
264	0853	2400.0	7.81	107	36.1	2830	652	117	437.0	2392.4	0.01	9.77	9.77	25.2	25.4	1.006	140	24.4	7.28	1.44	1.36	1.83	9.89	9.04	D											
265	0901	2401.0	7.43	107	36.1	2830	654	114	431.0	2393.4	0.01	9.72	9.80	25.3	25.5	1.003	141	24.5	7.31	1.45	1.37	1.83	9.88	9.04	D											
266	0910	2402.0	6.73	107	37.8	2840	654	116	429.0	2394.3	0.01	9.73	9.80	25.3	25.6	1.016	142	24.7	7.34	1.50	1.42	1.83	9.87	9.04	D											
267	0917	2403.0	7.97	106	40.5	2820	653	120	429.0	2394.6	0.01	9.72	9.81	25.3	25.5	1.012	143	24.8	7.37	1.48	1.40	1.83	9.87	9.04	DX											
268	0933	2404.0	10.3	105	41.2	2850	653	117	428.0	2396.1	0.02	9.66	9.81	25.3	25.4	.995	144	24.9	7.40	1.42	1.33	1.83	9.86	9.04	DX											
271	1019	2407.0	3.26	103	38.3	2830	652	119	437.0	2399.3	0.02	9.73	9.83	25.3	25.6	1.004	147	25.7	7.56	1.69	1.61	1.83	9.85	9.04	D											
272	1033	2408.0	4.30	103	38.1	2830	652	113	439.0	2401.1	0.01	9.79	9.91	25.3	25.4	.997	148	25.9	7.61	1.62	1.53	1.83	9.82	9.04	D											
273	1044	2409.1	5.41	103	42.6	2830	653	116	444.0	2402.6	0.01	9.63	9.82	25.4	25.4	1.013	149	26.1	7.66	1.61	1.52	1.83	9.82	9.04	D											
274	1054	2410.0	5.81	102	42.5	2840	653	112	450.0	2403.8	0.01	9.67	9.82	25.4	25.4	1.005	150	26.3	7.69	1.59	1.50	1.83	9.83	9.04	D											
275	1107	2411.0	4.72	103	40.7	2830	654	110	452.0	2404.7	0.01	9.70	9.80	25.3	25.4	1.012	151	26.5	7.74	1.62	1.53	1.84	9.85	9.04	D											
276	1119	2412.0	4.58	104	43.2	2830	653	112	457.0	2405.6	0.01	9.71	9.78	25.2	25.2	1.023	152	26.7	7.79	1.66	1.57	1.84	9.84	9.04	D											
277	1141	2413.0	2.68	104	43.7	2820	652	114	458.0	2406.6	0.01	9.64	9.74	25.1	25.2	1.008	153	27.0	7.87	1.82	1.73	1.84	9.84	9.04	DX											
278	1228	2414.0	2.06	85	44.5	2890	659	118	464.0	2410.3	0.01	9.95	9.74	25.0	25.0	1.019	154	27.7	8.00	1.86	1.77	1.83	9.80	9.05	DX											
HOOK at 2414m.																																				
N816 Smith SMI, 12.25". Jets 15:15:15.																																				
283	1817	2415.0	18.8	93	20.7	3110	648	116	460.0	2411.6	0.00	9.75	9.75	20.9	12.9	1.097	6	2	.08	1.01	1.01	1.83	9.86	9.05	DX											
284	1821	2416.0	13.8	93	19.3	3120	650	113	460.0	2411.8	0.00	9.75	9.74	19.4	13.1	1.107	1.6	2	.11	1.06	1.06	1.84	9.86	9.05	D											
285	1827	2417.0	10.1	95	21.7	3120	650	112	462.0	2412.0	0.00	9.75	9.77	17.8	16.8	1.072	2.6	3	.15	1.17	1.17	1.84	9.85	9.05	D											
286	1832	2418.1	13.6	95	26.3	3130	650	115	461.0	2412.2	0.00	9.75	9.78	17.1	19.6	1.009	3.6	4	.19	1.16	1.16	1.84	9.85	9.05	D											
287	1838	2419.0	8.11	95	28.1	3070	644	112	460.0	2412.5	0.00	9.75	9.74	16.2	21.3	1.009	4.6	5	.25	1.31	1.31	1.84	9.85	9.05	D											
288	1848	2420.0	6.62	97	30.5	3080	644	108	459.0	2412.8	0.00	9.75	9.66	16.4	22.0	1.023	5.5	7	.32	1.39	1.39	1.84	9.84	9.05	D											
289	1854	2421.0	10.1	94	32.2	3080	645	114	459.0	2413.1	0.00	9.75	9.63	17.1	22.2	1.026	6.6	8	.37	1.30	1.30	1.84	9.84	9.05	D											
290	1902	2422.0	6.73	94	32.9	3080	642	113	459.0	2413.4	0.00	9.75	9.65	18.4	22.5	1.027	7.6	9	.44	1.41	1.41	1.84	9.83	9.05	D											
291	1915	2423.0	1.61	95	34.4	3080	644	110	459.0	2413.9	0.01	9.75	9.73	20.1	23.0	1.046	8.5	1.1	.54	1.81	1.81	1.84	9.81	9.05	D											
292	1947	2424.2	5.13	94	37.1	3080	642	112	387.0	2414.9	0.02	9.75	9.71	21.9	22.4	1.033	9.6	1.6	.72	1.53	1.53	1.84	9.79	9.05	DX											
293	2003	2425.1	3.56	88	40.3	3080	644	114	361.0	2417.9	0.01	9.75	9.71	22.3	22.7	1.021	10.6	1.8	.82	1.66	1.66	1.84	9.78	9.05	D											
294	2021	2426.0	3.00	87	40.2	3080	644	107	358.0	242																										

F#	TIME	DEPTH	RUP	TORQUE	RPM	FOB	PUMP	MUD FLOW	PVT	RETURNS	GAS MD	lb/gal	TEMP	RES	THIS BIT	EST	DWC	NX	NXB	ECD	NXWD					
		m	m/hr	AVG	MAX	AVG	PRES	GPM	SPM	bol	DEPTH	%	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT				
299	2124	2430.0	3.57	287	339	81	39.6	645	111	355.0	2424.5	.01	9.75	9.79	23.3	23.7	1.021	15.6	3.2	1.29	1.63	1.63	1.84	9.77	9.05	D
300	2141	2431.1	3.85	297	439	78	39.7	643	112	357.0	2425.6	.01	9.75	9.83	23.4	23.8	1.017	16.6	3.5	1.37	1.60	1.60	1.84	9.77	9.05	D
301	2155	2432.0	3.79	290	409	77	36.9	640	110	356.0	2426.6	.01	9.75	9.82	23.6	24.1	1.018	17.5	3.7	1.41	1.57	1.57	1.85	9.77	9.05	D
302	2210	2433.0	3.79	278	327	83	39.1	649	110	350.0	2427.6	.01	9.75	9.79	23.9	24.1	1.004	18.5	3.9	1.48	1.62	1.61	1.85	9.77	9.05	D
303	2246	2434.1	4.05	293	330	81	39.1	642	110	361.0	2429.3	.01	9.75	9.81	23.9	23.9	1.025	19.6	4.3	1.57	1.59	1.59	1.85	9.77	9.05	DX
304	2309	2435.1	2.74	285	461	80	39.4	657	120	374.0	2430.5	.01	9.75	9.81	23.9	24.7	1.028	20.6	4.7	1.66	1.70	1.69	1.85	9.77	9.05	D
305	2325	2436.0	3.36	280	333	83	42.1	648	114	389.0	2431.4	.01	9.75	9.87	24.0	24.7	1.027	21.6	4.9	1.73	1.69	1.68	1.85	9.77	9.05	D
306	2338	2437.1	5.85	292	369	82	42.7	647	112	397.0	2432.4	.01	9.75	9.79	24.1	24.4	1.032	22.6	5.1	1.78	1.54	1.53	1.85	9.77	9.05	D
307	2351	2438.0	4.05	288	373	82	41.3	647	113	400.0	2433.3	0.00	9.75	9.79	24.2	24.5	1.025	23.6	5.4	1.84	1.62	1.61	1.85	9.77	9.05	D
308	2354	2439.0	22.2	309	352	82	40.1	647	111	401.0	2433.4	0.00	9.75	9.77	24.2	24.6	1.040	24.6	5.4	1.85	1.15	1.14	1.85	9.77	9.05	D
309	2358	2440.0	10.2	312	427	83	39.9	647	118	403.0	2433.4	0.00	9.75	9.75	24.2	24.6	1.023	25.6	5.5	1.86	1.23	1.22	1.85	9.78	9.05	D
Date Nov 10 '84																										
310	0003	2441.0	10.6	299	443	82	43.1	647	113	406.0	2433.4	0.00	9.75	9.75	24.2	24.7	1.032	26.6	5.6	1.88	1.38	1.37	1.85	9.78	9.05	D
311	0021	2442.0	6.82	298	400	82	39.6	647	111	415.0	2434.3	0.00	9.75	9.74	24.3	25.0	1.047	28.5	5.8	1.95	1.46	1.45	1.85	9.79	9.05	D
312	0038	2444.0	6.95	308	346	88	38.0	654	112	418.0	2434.9	0.00	9.75	9.77	24.4	24.5	1.045	29.5	6.0	1.99	1.45	1.44	1.85	9.79	9.05	DX
313	0052	2445.0	4.23	312	355	88	41.2	654	115	417.0	2435.8	0.00	9.75	9.79	24.4	24.5	1.057	30.6	6.2	2.05	1.63	1.61	1.85	9.79	9.05	D
316	0115	2448.1	8.25	309	372	87	40.7	654	114	426.0	2437.4	0.00	9.65	9.77	24.3	25.0	1.060	33.6	6.6	2.15	1.43	1.42	1.86	9.80	9.05	D
317	0132	2449.0	3.52	278	424	87	42.8	654	120	454.0	2440.0	0.00	9.69	9.79	25.9	25.2	1.066	34.6	6.9	2.22	1.83	1.70	1.86	9.83	9.05	D
318	0149	2450.0	3.69	319	382	87	42.6	656	115	430.0	2442.6	.01	9.65	9.81	24.6	24.9	1.046	35.6	7.2	2.29	1.68	1.66	1.86	9.78	9.05	D
319	0217	2451.0	2.14	280	352	85	43.4	656	120	438.0	2444.9	0.00	9.65	9.79	24.6	25.0	1.039	36.6	7.7	2.40	1.84	1.82	1.86	9.78	9.05	D
320	0311	2452.0	2.89	289	407	87	41.1	640	109	453.0	2449.6	0.00	9.63	9.81	25.2	25.1	1.076	37.5	8.4	2.57	1.73	1.71	1.86	9.78	9.05	DX
321	0316	2453.0	13.2	287	336	104	29.0	649	114	454.0	2449.7	0.00	9.64	9.82	25.3	25.1	1.085	38.6	8.5	2.59	1.22	1.20	1.86	9.79	9.05	D
322	0317	2454.1	41.3	285	333	103	27.5	649	115	454.0	2449.7	0.00	9.71	9.83	25.3	25.1	1.077	39.4	8.5	2.60	.93	.90	1.86	9.79	9.05	D
323	0319	2455.1	55.0	282	375	103	28.1	649	119	454.0	2449.7	0.00	9.71	9.83	25.3	25.1	1.076	40.4	8.6	2.60	.86	.84	1.86	9.80	9.05	D
324	0329	2456.1	16.9	285	434	110	31.7	652	119	452.0	2449.9	0.00	9.70	9.86	25.3	25.1	1.095	41.6	8.6	2.62	1.21	1.18	1.86	9.80	9.05	D
325	0412	2457.0	1.44	270	414	95	34.3	656	114	454.0	2450.6	0.00	9.71	9.82	24.7	25.0	1.083	42.6	9.3	2.76	1.83	1.80	1.86	9.83	9.05	D
326	0437	2458.0	2.44	330	470	74	48.7	653	120	455.0	2451.2	.01	9.70	9.77	24.9	25.1	1.089	43.6	9.7	2.84	1.82	1.80	1.86	9.84	9.05	D
327	0521	2459.1	1.64	278	424	94	36.9	654	120	454.0	2456.6	0.00	9.69	9.79	25.9	25.2	1.066	44.5	10.4	2.99	1.83	1.80	1.86	9.84	9.05	D
328	0549	2460.1	2.29	297	381	80	45.2	655	113	450.0	2457.4	0.00	9.69	9.82	25.7	25.4	1.066	45.6	10.9	3.08	1.82	1.79	1.86	9.81	9.05	D
329	0606	2461.1	3.42	296	305	79	47.3	653	114	444.0	2458.2	0.00	9.71	9.73	25.6	25.6	1.076	46.5	11.2	3.14	1.73	1.70	1.86	9.81	9.05	D
330	0628	2462.0	5.08	314	361	79	47.4	654	113	424.0	2458.3	0.00	9.73	9.59	25.5	25.3	1.071	47.6	11.4	3.18	1.61	1.59	1.86	9.82	9.05	DX
331	0640	2463.1	5.75	327	438	78	49.6	655	112	425.0	2458.5	0.00	9.78	9.73	25.4	25.7	1.060	48.6	11.6	3.22	1.60	1.57	1.86	9.82	9.05	D
332	0645	2464.0	10.8	327	377	78	47.4	654	114	426.0	2458.6	0.00	9.78	9.70	25.4	25.7	1.060	49.6	11.7	3.23	1.39	1.37	1.87	9.82	9.05	D
333	0658	2465.1	5.49	326	389	78	47.3	655	115	427.0	2459.1	0.00	9.73	9.76	25.3	26.1	1.073	50.6	11.9	3.27	1.58	1.56	1.87	9.84	9.05	D
334	0725	2466.0	2.71	318	432	79	48.5	654	115	429.0	2460.2	0.00	9.79	9.81	25.6	25.6	1.070	51.4	12.4	3.35	1.80	1.77	1.87	9.86	9.05	D
335	0749	2467.0	2.32	298	410	79	47.2	655	116	428.0	2461.3	0.00	9.71	9.81	25.5	25.5	1.090	52.6	12.8	3.42	1.82	1.80	1.87	9.88	9.05	D
336	0816	2468.0	2.51	313	451	78	47.7	655	114	439.0	2464.1	0.00	9.73	9.85	25.1	25.1	1.066	53.6	13.2	3.50	1.80	1.77	1.87	9.88	9.05	D
337	0836	2469.0	2.74	316	429	79	47.2	655	120	431.0	2465.2	0.00	9.74	9.94	24.8	25.1	1.077	54.6	13.6	3.56	1.77	1.74	1.87	9.89	9.05	D
338	0852	2470.0	4.21	321	429	79	48.4	655	114	433.0	2465.8	0.00	9.70	9.91	24.8	25.4	1.099	55.6	13.8	3.60	1.67	1.64	1.87	9.89	9.05	D
339	0907	2471.1	5.15	312	398	79	47.3	655	112	434.0	2466.4	0.00	9.70	9.96	24.9	25.4	1.082	56.4	14.1	3.64	1.60	1.57	1.87	9.88	9.05	D
340	0939	2472.1	4.08	295	381	85	49.4	649	113	431.0	2467.7	0.00	9.79	9.94	24.9	24.9	1.071	57.6	14.5	3.71	1.72	1.68	1.87	9.85	9.05	DX
341	1010	2473.1	3.64	286	386	85	48.5	656	114	423.0	2468.9	0.00	9.76	9.90	25.1	25.5	1.106	58.5	14.8	3.77	1.74	1.70	1.87	9.84	9.05	D
342	1036	2474.1	2.93	300	394	85	49.4	657	120	422.0	2470.6	0.00	9.77	9.88	25.3	25.4	1.092	59.6	15.2	3.86	1.81	1.77	1.87	9.84	9.05	D
343	1051	2475.0	4.40	303	392	84	49.9	657	116	422.0	2471.1	0.00	9.78	9.94	25.3	24.9	1.111	60.6	15.5	3.90	1.69	1.66	1.87	9.85		

F#	TIME	DEPTH	RQP	TORQUE	RPM	FOI	PUMP	MUD FLOW	PVT	RETURNS	CAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DXC	NX	NXB	EC	NXMD			
		m	m/hr	AVG	AVG	AVG	PRES	GPM	SPM	bb1	DEPTH	%	IN	OUT	IN	OUT	m	hrs	TM								
351	1339	2483.1	4.64	281	357	83	50.6	3140	652	112	454.0	2478.9	0.00	9.69	9.97	25.0	25.1	1.121	68.5	18.1	4.37	1.73	1.69	1.88	9.80	9.05	D
352	1410	2484.1	4.33	278	338	83	51.3	3130	652	115	457.0	2481.1	0.00	9.70	9.95	25.1	25.0	1.120	69.5	18.6	4.46	1.72	1.67	1.88	9.81	9.05	D
353	1446	2485.1	3.75	277	358	82	51.5	3150	652	115	463.0	2482.3	0.00	9.87	9.76	25.1	25.0	1.142	70.6	19.2	4.56	1.85	1.81	1.88	9.82	9.05	D
354	1516	2486.0	2.98	285	405	83	50.3	3140	652	105	467.0	2483.2	0.00	9.81	9.74	25.2	25.0	1.151	71.5	19.7	4.64	1.81	1.77	1.88	9.83	9.05	D
355	1548	2487.0	3.03	298	394	82	50.6	3120	652	119	483.0	2484.1	0.00	9.78	9.77	24.8	25.0	1.139	72.6	20.3	4.72	1.80	1.75	1.88	9.89	9.05	D
356	1608	2488.0	4.42	297	360	82	51.8	3100	652	116	491.0	2484.8	0.00	9.79	9.74	24.8	25.1	1.140	73.6	20.6	4.77	1.70	1.65	1.88	9.91	9.05	D
357	1613	2489.2	19.4	308	417	83	50.6	3120	651	119	493.0	2484.9	0.00	9.76	9.81	24.8	25.0	1.164	74.6	20.7	4.78	1.26	1.21	1.88	9.91	9.05	D
358	1616	2490.0	20.4	298	408	83	49.3	3130	652	112	494.0	2485.0	0.00	9.74	9.83	24.8	25.1	1.172	75.6	20.8	4.79	1.23	1.19	1.88	9.92	9.05	D
359	1630	2491.0	3.83	306	411	81	47.4	3090	646	119	503.0	2485.3	0.00	9.60	9.76	24.8	25.1	1.181	76.6	20.8	4.80	1.68	1.64	1.88	9.93	9.05	DX
360	1634	2492.0	17.9	278	376	82	39.4	3100	648	119	503.0	2485.3	0.00	9.62	9.77	24.7	25.1	1.159	77.6	20.9	4.81	1.18	1.14	1.88	9.93	9.05	D
361	1637	2493.0	24.4	331	443	80	47.5	3110	649	108	463.0	2485.5	0.00	9.62	9.77	24.7	25.1	1.181	78.6	20.9	4.82	1.16	1.11	1.88	9.94	9.05	D
362	1638	2494.1	38.9	333	464	83	45.3	3100	649	116	427.0	2485.6	0.00	9.62	9.77	24.7	25.1	1.174	79.5	21.0	4.82	1.02	0.97	1.88	9.95	9.05	D
363	1641	2495.0	22.1	331	518	84	44.3	3100	648	119	426.0	2485.7	0.00	9.72	9.75	24.7	25.1	1.175	80.4	21.0	4.83	1.17	1.12	1.88	9.95	9.05	D
364	1651	2496.0	20.6	347	538	84	40.0	3070	644	111	429.0	2485.7	0.00	9.68	9.73	24.7	25.1	1.182	81.6	21.1	4.83	1.15	1.11	1.89	9.95	9.05	D
365	1654	2497.1	21.1	315	395	84	39.5	3080	645	113	429.0	2485.8	0.00	9.67	9.74	24.6	25.1	1.189	82.6	21.1	4.84	1.14	1.10	1.89	9.94	9.05	D
366	1709	2498.1	5.20	325	449	83	42.4	3060	644	112	433.0	2486.3	0.00	9.68	9.72	24.4	25.1	1.184	83.6	21.4	4.87	1.55	1.50	1.89	9.91	9.05	D
367	1745	2499.0	1.61	303	394	76	46.5	3080	645	111	432.0	2487.8	0.00	9.69	9.68	24.5	25.1	1.228	84.5	22.0	4.95	1.91	1.87	1.89	9.87	9.05	D
368	1824	2500.0	1.53	308	412	82	49.5	3070	645	116	420.0	2496.6	0.01	9.68	9.71	24.2	25.1	1.193	85.6	22.6	5.04	2.00	1.95	1.89	9.81	9.05	D
NB#17 SECURITY S84 12.25", Jets 15:15:15, in at 2500 m																											
Date Nov 11 '84																											
377	0202	2501.0	3.47	309	473	73	34.7	3090	645	113	460.0	2499.1	0.00	9.69	9.91	15.2	19.4	1.153	1.0	4	02	1.53	1.54	1.89	9.90	9.05	D
378	0232	2502.0	1.50	301	372	85	37.8	3090	645	109	451.0	2499.3	0.01	9.83	9.80	17.9	22.3	1.233	2.0	9	06	1.84	1.84	1.89	9.87	9.05	D
379	0320	2503.0	1.28	304	405	79	42.3	3100	646	111	430.0	2499.8	0.00	9.71	9.86	22.6	22.5	1.192	2.9	1.7	13	1.92	1.93	1.89	9.87	9.05	D
380	0350	2504.0	1.61	310	435	83	45.7	3080	646	114	422.0	2501.4	0.00	9.74	9.88	22.8	23.3	1.418	3.9	2.2	17	1.92	1.93	1.89	9.87	9.05	D
381	0425	2505.1	1.30	307	409	87	46.0	3160	651	119	413.0	2502.2	0.00	9.73	9.89	23.2	23.0	1.432	5.0	2.9	23	2.01	2.01	1.89	9.82	9.05	D
382	0503	2506.0	1.29	295	400	88	44.9	2940	626	111	403.0	2502.9	0.00	9.72	9.92	23.1	22.3	1.432	6.0	3.4	28	2.00	2.00	1.89	9.83	9.05	D
383	0522	2507.1	3.09	298	383	81	42.9	2960	628	115	404.0	2503.4	0.00	9.69	9.96	22.7	22.9	1.432	7.0	3.7	31	1.70	1.71	1.89	9.84	9.05	D
384	0535	2508.1	11.0	322	383	81	39.6	3090	635	111	407.0	2503.8	0.00	9.70	9.92	22.5	22.6	1.432	7.9	3.8	31	1.32	1.32	1.89	9.85	9.05	DX
385	0539	2509.0	13.0	314	398	80	39.0	3060	636	111	401.0	2503.8	0.00	9.73	9.92	22.5	22.4	1.432	8.9	3.8	32	1.26	1.27	1.89	9.85	9.05	D
386	0548	2510.1	5.09	328	417	81	40.2	3150	646	113	405.0	2503.9	0.00	9.74	9.90	22.4	22.4	1.432	10.0	4.0	33	1.53	1.54	1.89	9.85	9.05	D
387	0559	2511.0	4.86	323	444	81	38.7	3200	651	113	408.0	2504.3	0.00	9.49	9.91	22.2	23.1	1.432	10.9	4.2	35	1.52	1.53	1.89	9.86	9.05	D
388	0600	2512.0	46.8	360	423	79	39.4	3200	653	117	410.0	2504.3	0.00	9.46	9.93	22.2	23.1	1.432	11.9	4.2	35	1.52	1.53	1.89	9.86	9.05	D
389	0605	2513.0	14.7	329	478	81	38.1	3210	652	115	411.0	2504.4	0.00	9.58	9.90	22.1	23.2	1.432	12.9	4.3	35	1.22	1.23	1.90	9.86	9.05	D
390	0623	2514.0	2.96	320	378	81	42.6	3200	653	112	639.0	2505.1	0.00	9.83	9.99	22.7	23.0	1.432	13.9	4.6	38	1.71	1.72	1.90	9.84	9.05	D
391	0657	2515.1	1.79	327	371	81	43.0	3060	642	112	635.0	2506.6	0.00	9.84	9.96	22.7	23.3	1.432	14.9	5.1	42	1.85	1.86	1.90	9.86	9.05	D
392	0724	2516.1	2.13	303	385	81	43.0	3060	641	108	634.0	2509.7	0.00	9.79	9.88	22.7	23.0	1.432	15.9	5.6	46	1.80	1.80	1.90	9.88	9.05	D
393	0802	2517.1	1.55	302	398	81	44.7	3070	641	111	626.0	2513.4	0.00	9.75	9.89	22.7	23.6	1.432	17.0	6.2	51	1.90	1.91	1.90	9.92	9.05	D
394	0831	2518.0	2.07	306	365	81	41.4	3140	655	115	616.0	2514.4	0.00	9.76	9.91	23.1	23.3	1.432	17.9	6.7	55	1.78	1.79	1.90	9.90	9.05	D
395	0853	2519.0	3.96	319	390	84	43.8	3100	649	112	608.0	2515.0	0.00	9.75	9.95	23.1	23.0	1.432	19.0	7.0	57	1.65	1.65	1.90	9.89	9.05	DX
396	0924	2520.1	2.07	298	381	86	43.9	3100	649	111	600.0	2515.7	0.00	9.69	9.90	23.1	23.4	1.432	20.0	7.5	62	1.84	1.84	1.90	9.87	9.05	D
397	0947	2521.0	2.32	302	413	86	43.6	3170	653	120	593.0	2516.7	0.00	9.73	9.87	23.3	23.4	1.432	20.9	7.9	65	1.80	1.81	1.90	9.86	9.05	D
398	1000	2522.0	4.36	327	429	86	43.1	3200	653	111	589.0	2517.1	0.00	9.76	9.86	23.4	23.1	1.432	21.9	8.1	67	1.62	1.63	1.90	9.85	9.05	D
399	1014	2523.0	4.22	310	438	86	43.2	3200	651	119	585.0	2517.5	0.00	9.73	9.86	23.5	23.2	1.432	22.9	8.3	69	1.64	1.64	1.90	9.84	9.05	D

F#	TIME	DEPTH	ROP	TORQUE	RPM	FOB	PUMP	MUD FLOW	SPM	BBL	RETURNS	CAS	MD	lb/gal	TEMP	(C)	RES	THIS	BIT	EST	DWC	NX	NXB	ECD	NXMD		
		m	m/hr	AVG	MAX	AVG	PRES	GPM			DEPTH	%	IN	OUT	IN	OUT	OUT	m	hrs	TM							
4407	1329	2531.0	4.13	349	458	68	48.3	3140	645	116	577.0	2525.6	0.00	9.64	9.93	24.9	23.7	1.432	30.9	11.4	.93	1.65	1.66	1.91	9.77	9.05	D
4408	1339	2532.0	5.70	362	466	68	48.9	3130	645	118	578.0	2526.1	0.00	9.66	9.93	25.0	23.7	1.432	32.0	11.6	.94	1.56	1.57	1.91	9.76	9.05	D
4409	1410	2533.0	1.94	335	470	73	50.6	3136	645	116	580.0	2527.2	0.00	9.83	9.97	25.1	23.7	1.432	33.0	12.1	.98	1.92	1.93	1.91	9.75	9.05	D
4410	1443	2534.1	1.90	324	485	81	52.0	3140	646	114	585.0	2528.8	0.00	9.64	9.96	24.9	24.0	1.432	34.0	12.6	1.03	1.97	1.97	1.91	9.78	9.05	D
4411	1502	2535.1	3.15	324	398	81	50.1	3110	644	113	585.0	2530.1	0.00	9.55	10.0	24.9	24.3	1.432	35.0	13.0	1.05	1.80	1.80	1.91	9.79	9.05	D
4412	1516	2536.0	3.87	335	391	82	49.4	3120	642	110	589.0	2531.1	0.00	9.55	10.1	24.7	24.7	1.432	36.0	13.2	1.08	1.73	1.73	1.91	9.78	9.05	D
4413	1547	2537.0	1.99	315	385	82	51.7	3140	646	118	592.0	2532.2	0.00	9.70	9.93	24.7	25.0	1.432	37.0	13.7	1.12	1.96	1.97	1.91	9.75	9.05	DX
4414	1610	2538.1	3.52	311	395	80	46.9	3240	644	114	500.0	2532.7	0.00	9.70	9.88	24.5	25.0	1.432	37.9	14.0	1.15	1.73	1.74	1.91	9.72	9.05	DX
4415	1619	2539.0	0.36	341	407	80	49.8	3180	650	115	492.0	2533.1	0.00	9.70	9.92	24.5	25.0	1.432	39.0	14.2	1.16	1.59	1.60	1.91	9.73	9.05	D
4416	1624	2540.0	11.8	362	437	81	49.8	3170	651	116	493.0	2533.3	0.00	9.70	9.91	24.5	25.0	1.431	40.0	14.2	1.17	1.41	1.42	1.91	9.73	9.05	D
4417	1626	2541.0	30.8	385	482	85	48.2	3180	650	109	493.0	2533.4	0.00	9.70	9.94	24.5	25.0	1.432	41.0	14.3	1.17	1.13	1.14	1.91	9.73	9.05	D
4418	1628	2542.0	25.4	374	466	87	47.8	3170	649	116	494.0	2533.4	0.00	9.70	9.94	24.5	25.0	1.432	42.0	14.3	1.18	1.20	1.20	1.91	9.74	9.05	D
4419	1632	2543.0	18.8	364	427	88	47.7	3180	650	110	496.0	2533.5	0.00	9.70	9.99	24.5	25.0	1.432	42.9	14.4	1.18	1.28	1.29	1.91	9.75	9.05	D
4420	1648	2544.0	3.56	346	453	85	49.9	3190	651	115	501.0	2534.9	0.00	9.70	10.0	24.5	25.0	1.432	44.0	14.6	1.20	1.77	1.78	1.92	9.76	9.05	D
4421	1707	2545.0	3.13	327	418	85	49.7	3190	650	115	507.0	2535.7	0.00	9.70	10.0	24.6	25.0	1.431	45.0	15.0	1.23	1.80	1.81	1.92	9.78	9.05	D
4422	1727	2546.0	2.90	334	444	85	50.3	3190	650	115	514.0	2536.2	0.00	9.70	10.2	24.8	24.9	1.432	46.0	15.3	1.27	1.83	1.83	1.92	9.82	9.05	D
4423	1756	2547.0	1.99	323	386	84	50.6	3170	650	113	512.0	2539.4	0.01	9.70	9.90	25.0	25.0	1.432	47.0	15.8	1.31	1.94	1.94	1.92	9.83	9.05	D
4424	1842	2548.0	1.63	329	472	75	51.5	3160	648	115	508.0	2544.1	0.00	9.77	10.1	25.4	25.2	1.432	48.0	16.4	1.36	1.98	1.98	1.92	9.81	9.05	DX
4425	1909	2549.0	2.25	319	380	84	51.3	3190	649	119	509.0	2545.3	0.00	9.75	10.2	25.9	25.2	1.432	49.0	16.9	1.41	1.91	1.92	1.92	9.82	9.05	D
4426	1937	2550.1	2.20	311	357	78	51.6	3170	648	119	506.0	2546.1	0.00	9.70	9.84	26.0	25.4	1.432	49.9	17.4	1.45	1.88	1.88	1.92	9.95	9.05	D
4427	2020	2551.0	1.29	302	449	72	52.1	3170	649	108	490.0	2547.2	0.00	9.70	9.84	26.8	25.5	1.432	51.0	18.1	1.50	2.01	2.02	1.92	9.96	9.05	D
4428	2046	2552.0	2.37	302	352	80	50.0	3160	648	112	493.0	2548.2	0.00	9.70	9.84	27.0	25.5	1.432	51.9	18.5	1.54	1.84	1.85	1.92	9.94	9.05	D
4429	2108	2553.0	2.61	307	361	80	50.7	3170	648	118	490.0	2548.8	0.00	9.70	9.84	27.0	25.7	1.432	53.0	18.9	1.57	1.84	1.85	1.92	9.83	9.05	D
4430	2137	2554.0	2.10	310	375	83	49.2	3190	649	108	490.0	2549.5	0.00	9.70	9.84	26.4	25.9	1.432	54.0	19.3	1.61	1.90	1.91	1.92	9.83	9.05	D
4431	2204	2555.0	2.24	321	404	84	49.5	3190	649	119	489.0	2550.3	0.00	9.70	9.84	25.8	25.9	1.432	55.0	19.8	1.65	1.89	1.89	1.92	9.83	9.06	D
4432	2227	2556.0	2.61	329	428	85	52.8	3180	648	114	489.0	2551.5	0.00	9.70	9.84	25.8	25.8	1.432	56.0	20.2	1.69	1.89	1.89	1.92	9.83	9.06	D
4433	2315	2557.1	2.23	312	400	84	50.3	3160	644	114	485.0	2553.0	0.00	9.70	9.84	26.4	25.8	1.432	57.0	20.9	1.75	1.90	1.91	1.92	9.83	9.06	DX
4434	2344	2558.0	1.79	307	413	82	50.7	3150	646	113	480.0	2554.3	0.00	9.70	9.84	26.3	25.8	1.432	58.0	21.3	1.80	1.96	1.97	1.92	9.82	9.06	D
Date Nov 12 '84																											
4435	0013	2559.1	2.36	302	378	82	45.4	3140	644	114	481.0	2555.1	0.00	9.70	9.84	26.1	25.9	1.432	59.0	21.8	1.84	1.81	1.82	1.92	9.83	9.06	D
4436	0032	2560.0	2.46	316	479	82	46.3	3150	647	113	513.0	2555.8	0.00	9.70	9.84	26.0	25.9	1.432	59.9	22.1	1.86	1.81	1.82	1.92	9.83	9.06	D
4437	0054	2561.0	2.74	314	493	81	46.2	3160	646	113	512.0	2556.1	0.00	9.70	9.84	26.2	25.9	1.432	61.0	22.5	1.89	1.78	1.79	1.92	9.83	9.06	D
4438	0117	2562.0	2.67	309	419	81	46.8	3130	642	110	513.0	2556.9	0.00	9.70	9.84	26.4	25.9	1.432	61.9	22.9	1.93	1.79	1.80	1.92	9.83	9.06	D
4439	0152	2563.0	1.70	316	451	82	46.3	3110	646	113	510.0	2558.1	0.00	9.73	9.81	26.2	25.9	1.432	63.0	23.5	1.98	1.92	1.92	1.93	9.83	9.06	D
4440	0220	2564.0	2.15	309	441	82	46.4	3110	646	113	508.0	2559.5	0.00	9.73	9.81	26.1	25.9	1.432	64.0	23.9	2.01	1.85	1.86	1.93	9.83	9.06	D
4441	0256	2565.0	1.45	304	394	82	47.1	3110	645	111	506.0	2560.9	0.00	9.73	9.81	26.3	25.9	1.432	65.0	24.5	2.07	1.94	1.94	1.93	9.84	9.06	D
4442	0355	2566.0	1.09	296	364	83	48.6	3120	645	113	504.0	2563.0	0.00	9.71	9.83	25.9	25.8	1.432	65.9	25.5	2.15	2.09	2.10	1.93	9.84	9.06	D
4443	0517	2567.0	1.00	303	372	78	47.5	3200	654	112	482.0	2564.5	0.00	9.71	9.82	25.7	25.9	1.208	67.0	26.8	2.26	2.05	2.06	1.93	9.84	9.06	DX
4444	0545	2568.0	2.10	294	482	62	47.8	3160	644	114	481.0	2564.9	0.00	9.71	9.82	26.0	26.5	1.183	68.0	27.2	2.29	1.79	1.81	1.93	9.84	9.06	D
4445	0604	2569.0	3.08	363	450	63	46.1	3160	645	113	536.0	2565.1	0.00	9.71	9.82	26.0	26.4	1.205	68.9	27.6	2.30	1.67	1.68	1.93	9.84	9.06	D
4446	0634	2570.0	2.00	350	462	62	46.4	3170	646	112	535.0	2565.7	0.00	9.74	9.82	26.4	26.5	1.196	70.0	28.1	2.33	1.79	1.81	1.93	9.85	9.06	D
4447	0712	2571.0	1.75	313	452	74	46.4	3020	629	109	534.0	2566.7	0.00	9.74	9.82	26.4	25.6	1.311	71.0	28.6	2.37	1.88	1.89	1.93	9.84	9.06	DX
4448	0750	2572.0	1.56	296	408	78	45.2	3190	654	120	533.0	2568.3	0.00	9.74	9.82	25.9	25.5	1.432	72.0	29.3	2.42	1.91	1.92	1.93	9.85	9.06	DX
4449	0816	2573.0	2.74	315	389	78	45.3	3170	655	115	533.0	2569.3	0.00	9.74	9.82	25.6	25.6	1.432	73.0	29.7	2.46	1.75	1.76	1.93	9.85	9.06	D
Circulate Bottoms up at 2573 m, 1000l to run logs.																											

+ Circulate Bottoms up at 2573 m, KOOL to run logs.