

12-2-81

Fishing @ 1107', MW 8.9, vis 45, PH 10, 24 hrs. fishing, an free-point, DC stuck @ 672', ran Collar Log between DP & csg., logged last collar on 16" csg. @ 600', appears 16" csg. parted & mvd. dn hole, ran bk off shot & bkd off 8" DC @ 565', POH, PU jars, RIH, screw into fish & jarring.

12-3-81

1107' Fishing. MW 8.9, vis. 55, PH 10, WL 16, 24 hrs. fishing. Circ. & jarred on fish 20 hrs. RU and ran string shot on outside of DP & DC's. Fired shot. Knocked DC's loose. 4 hrs. circ. & working DC's through tite form.

12-4-81

1107', (0), mxg. mud, MW 8.9, vis 55, pH 10, WL 16, 4 1/4 hr. trip, 1/4 hr. SR, 5 hrs. circ. & mxg. mud, 2 1/4 hr. run collar locator, 4 3/4 hr. TIH inspect DC's, 5 1/4 hr. circ., WIH open-ended DP, washed bridges fr. 725-770', 780-790', 1060-1107', CC \$270,040.

12-5-81

Drlg. @ 1475', (368), sd & anhy, MW 9.5, vis 55, pH 10, WL 25, ck 2/32, sol 7%, 13 3/4 hr. drlg., 2 hrs. trip, 1/4 hr. svy, 1/4 hr. rig, serv, 5 1/2 hr. circ., 2 1/4 hr. wash & ream, 1206@ 0°.

12-6-81

Drlg. @ 1935', (460), anhy. & red bed, MW 9.3, vis 60, pH 9.5, WL 20, ck 3/32, sol 4 1/4%, 22 1/2 hr. drlg., 1 1/4 hr. svy, 1/4 hr. SR, 1/4°@ 1518', 1/2°@ 1719'.

12-7-81

Drlg. @ 2115', (180), anhy. & salt, MW 9.7, vis 60, Ph 10, WL 20, ck 2/32, sol 5%, oil 4%, 23 1/2 hr. drlg., 1/4 hr. svy, 1/4 hr. SR, 1/2°@ 2105', TOP of SALT @ 2150'. CC \$304,090.

12-8-81

Drlg. @ 2473', (358), anhy. & Redbed, 2294'@ 3/4°, MW 9.8, vis 45, pH 10, WL 24, 5% solids, 2% oil, 19 hrs. drlg., 4 hrs. trip, 1/4 hr. svy, 1/4 hr. SR, 1/2 hr. circ. to btm. CC \$315,440.

12-9-81

Drlg. @ 2531', anhy & clay, MW 9.8, vis 48 pH 10, WL 28, 3/32 ck, 6% sol., 2% oil, 12 hrs. drlg., 4 hrs. trip, 1 hr. svy., 1/4 hr. SR, 6 3/4 hr. Wash & ream, 3 3/4°@ 2512', TOH to PU blade stabilizer. CC \$326,790.

12-10-81

Drlg. @ 2617', (86), anhy. & clay, 3 1/2°@ 2568', MW 9.8, vis 45, pH 10, WL 21, 3/32 Ck, 8% sol, 2% oil, 23 hrs. drlg., 3/4 hr. svy., 1/4 hr. SR. CC \$338,140.

12-11-81

Drlg. @ 2698', (81), lm & clay, MW 9.3, vis 38, pH 10, WL 24, 3/32 ck, 3% sol, 3% oil, 23 3/4 hr. drlg., 1/4 hr. SR. CC \$349,490.

12-12-81

Drlg. @ 2808', (110), anhy & clay, 3 1/4°@ 2690', 2 1/2°@ 2780', MW 9.3, vis 38, pH 1 WL 25, 3/32 FC, 4% sol., 3% oil, 22 1/4 hr drlg., 1 1/2 hr. svy, 1/4 hr. SR.

12-13-81

Drlg. @ 2887', (79), rep. brk input shaft, anhy & lm, MW 9.2, vis 38, pH 10, WL 25, FC 3/32, sol 4%, oil 3%, 11 3/4 hr. drlg., 1/4 hr. SR, 12 hrs. wrkg on rig.

12-14-81

Drlg. @ 2937', (50), lm, 3°@ 2908', vis 38 pH 10, WL 22, FC 3/32, sol 4%, oil 3%, 8 3/4 hr. drlg., 1/4 hr. svy, 1 hr. W&R to btm, 14 hrs. replaced input shaft. CC \$394,890.

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12-15-81

Drlg. @ 3026', (89), anhy & dolo., 3°@ 3011', MW 8.9, vis 35, pH 9, WL 30, 3/32 ck, 4% sol, 3% oil, 18 3/4 hr. drlg., 1/4 hr. SR, 1/2 hr. svy, 4 hrs. rig rep., 1/2 hr. circ. CC \$406,240.

12-16-81

3145' (119') Drlg. anhy. & lm. MW 9.2, vis. 36, PH 9.5, WL 38, ck. 3/32, sol. 5%, oil 3%. Dev. @ 3104' = 3°. 23 hrs. drlg., 3/4 hr. survey, 1/4 hr. rig serv.

12-17-81

Drlg. @ 3227', (82), anhy. & dolo., 2 3/4° @ 3195', MW 9.2, vis 40, pH 10, WL 28, 3/32 FC, 3% oil, 3% sol, 23 hrs. drlg., 3/4 hr. svy, 1/4 hr. SR. CC 418,740.

12-18-81

Drlg. @ 3302', (75), snhy & dolo., 2 3/4° @ 3280', MW 9.2, vis 38, pH 10, WL 17, FC 2/32, sol 5%, oil 3%, 23 hrs. drlg., 3/4 hr. svy, 1/4 rh. SR. CC \$418,740.

12-19-81

3336', (34), running 11-3/4" csg., 3335-2 1/2°, MW 9.2, vis 38, pH 10, WL 18, FC 2/32, 5% sol, 3% oil, 9 3/4 hr. drlg., 4 3/4 hr. trip, 1/4 hr. svy, 1/4 hr. SR, 1 1/2 hr. ran csg., 5 hrs. ran fluid caliper, 2 1/2 hr. RU csg. crew.

12-20-81

3336', (0), LD 11-3/4" csg., 3 1/2 hr. ran csg., 9 hrs. WO x-over, 4 hrs. WO fishing tools, 7 1/2 hr. fishing for csg., ran 50 jts. 11-3/4" csg., csg. parted @ top of x-over, dropped 50 jts. of csg. IH, PU spear on DP, WIH, caught fish, pull fish to surf.

12-21-81

3336', (0), TIH w/DP, 12 hrs. LD 11-3/4" csg., 1 1/2 hr. RU csg. crew & LD machine, 2 hrs. LD fishing tools, 1 1/2 hr WO bit sub, 7 hrs. TIH w/DP. CC \$452,790.

12-22-81

3336', (0), WOC, 4 1/2 hr. trip, 12 hrs. ran csg. & cmt., 2 hrs. RU & RD csg. crew, 5 1/2 hr. circ., RU & ran 83 jts. 11-3/4" csg., set @ 3281' & cmt. w/ 1600 sx Haliburton Lite cmt. w/15# salt per sk 1/4# per sx Floseal, & 300 sx "C" cmt. w/ 1/4# per sk Floseal, PD @ 6 am, 12-22-81, circ. approx. 220 sx.

12-23-81

3336' TD, drlg. cmt., MW 9, vis 40, pH 10. 25 WL, 2/32 FC, 18 hrs. WOC & NU, 3 hrs. TIH, 3 hrs. drlg. cmt & float. CC \$475,490.

12-24-81

Drlg. @ 3651', (315), 2°@ 3491', 18 1/4 hr drlg., 1/4 hr. rig serv., 3/4 hr. svy, 4 3/4 hr. drlg. cmt. & float, MW 8.9, vis 45, pH 10, WL 20.

12-25-81

Drlg. @ 3674', (23), 4 3/4 hr. drlg., 2 hrs. trip, 1/4 hr. SR., 1 hr. svy., 16 hrs. SDF X-MAS, 1°@ 3674', MW 10.2, vis 32. pH 12. WL no control.

12-26-81 Drlg. @ 3752', (78), 3 hrs. trip, 10 hrs. SDF X-MAS, 10 hrs. drlg., 1 hr. W&R to btm, MW 10.2, vis 35, pH 11, WL no control.

12-27-81 Drlg. @ 3885', (133), anhy. 23 3/4 hr. drl 1/4 hr. SR, MW 10, vis 36, pH 10.5, WL 25.

12-28-81 Drlg. @ 3997', (112), 70% anhy., 30% sd., tr. Lime, 1/2°@ 3981', MW 10.4, vis 37, pH 10.5, WL 22, 23 hrs. drlg., 3/4 hr. svy., 1/4 hr. SR. CC \$532,240.

12-29-81 Drlg. @ 4112', (115), 80% Anhy. & 20% Sd., MW 10.4, vis 35, pH 10, WL 28, 2/32 FC, 6% sol, 5% oil, chl 170,000, 23 3/4 hr. drlg., 1/4 hr. SR. CC \$543,590.

12-30-81 Drlg. @ 4253', (141), 100% Anhy., 23 3/4 hr. drlg., 1/4 hr. SR, MW 10.4, vis 36, pH 10, LW 24, FC 2/32, 4% sol, 4% oil, 158,000 chl. CC \$554,940.

12-31-81 Drlg. @ 4402', (149), 100% Anhy., tr. Sd., 21 3/4 hr. drlg., 1/2 hr. svy., 1/4 hr. SR, 1 1/2 hr. circ. samp., drlg. brk. fr. 4350-4378', bk. dn fr. 10"/ft.- 4"/ft., no show of O&G, 1°@ 4308', MW 10.5, vis 36, WL 22, FC 2/32, sol 7%, oil 4%, chl 150,000.

1-1-82 Drlg. @ 4644', (232), 70% Dolo., 30% Lm, 23 3/4 hr. drlg., 1/4 hr. SR.

1-2-82 Drlg. @ 4832', (198), 60% Dolo., 40% Lm., 2°@ 4690', 23 hrs. drlg., 3/4 hr. svy., 1/4 hr. SR.

1-3-82 Drlg. @ 4946', (114), 70% Lm, 30% Sd., 22 1/2 hr. drlg., 1/4 hr. SR, 1 1/4 hr circ. samp. @ 4936'.

1-4-82 Drlg. @ 4950', (4), running 8-5/8" csg., 3/4 hr. drlg., 4 3/4 hr. trip, 1/4 hr. svy., 1/4 hr. SR., 6 hrs. running csg., 9 hrs. lof., 3 hrs. RU csg. crew, 2°@ 4950 csg. report. tomorrow. CC \$611,690.

1-5-82 4950' (0), TIH w/bit & DP, 5 1/2 hr. ran csg. & cmt., 18 hrs. WOC & NU, 1/2 hr. trip, RU & ran 121 jts. 8-5/8" ST&C J-55 32# csg., set @ 4945' & cmtd w/650 sx Haliburton Lite w/10# salt, 1/4# Floseal per sx & 300 sx "C" NEAT, PD @ 11 am, 1-4-82, ran temp svy, top of cmt @ 3480'.

1-6-82 Drlg. @ 5141', (191), MW 8.4, vis 34, pH 9, WL no control, 11 1/2 hr. drlg., 5 hrs. trip, 1/4 hr SR, 2 3/4 hr. circ., 1 1/2 hr. cut DL, 1 hr. flow line rep., 2 hrs. drlg. cmt. & plugs. CC \$633,390.

1-4 & 5-82

*Correction: Open hole logging operation as follows: 6 hrs. logging, GR - CNL, FDC, CAL, GR - DCC.

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1-7-82

5540' (399') drlg. 60% lime, 40% sand.
MW 8.6, vis. 34, PH 9.5, WL no control.
21 3/4 hrs. drlg., 1 hr. survey, 1/4 hr.
rig service, 1 hr. circ. samples. Survey
@ 5482' - 1°. Drlg. break @ 5334' to
5358'. Broke down from 4 MPF to 1/2
MPF. No shows.

1-8-82

Drlg. @ 5882', (342), drlg. 70% Sd.,
30% Lm., MW 8.6, vis 33, pH 9, WL no
control, sol 3%, chl 6000, 23 3/4 hr. drlg
1/4 hr. SR. CC \$656,090.

1-9-82

Drlg. @ 6385', (503), 60% Sd., 20% Lm,
20% Sh., 3/4° @ 5982', MW 8.6, vis 33,
pH 10, WL no control, 23 hrs. drlg.,
3/4 hr. svy., 1/4 hr. SR.

1-10-82

Drlg. @ 6752', (367), circ. for DST #1,
3/4° @ 6524', MW 8.9, vis 35, pH 10, WL
no control, 19 hrs. drlg., 3/4 hr. svy.,
1/4 hr. SR, 4 hrs. circ. samp.

1-11-82

6752', (0), Tripping, 1/2° @ 6752', MW 8.9
vis 35, pH 10, WL no control, 15 hrs. trip
1/4 hr. svy., 8 3/4 hr. DST #1.
DST #1 fr. 6685'-6752'.
Open tool w/weak blow, increasing to good
blow through out test, no fluid or gas
to surf., rec. 93' gas cut mud & 400' of
hvy oil & gas cut drlg. mud, 15" Pre-flow-
IFP 117#, FFP 136#, 30" ISIP 2903#, IHP
3352#, 60" 2nd flow, IFP 156#, FFP 175#,
120" FSIP 2903#, FHP 3352#, BHT 112°. .
CC \$951,026.

1-12-82

Drlg. @ 7035', (283), 70% Sh, 30% Sd.,
MW 9.2, vis 35, pH 10, WL no control,
16 hrs. drlg., 1 hr. trip, 1/4 hr. SR.,
1 hr. circ. to btm, 5 3/4 hr. thaw out
mud lines.
CC \$962,376.

1-13-82

7150', (115'), 100% Lm., cleaning pits,
10 3/4 hr. drlg., 1 1/4 hr. short trip,
1/4 hr. SR, 11 3/4 hr. cleaning pits.
CC \$973,726.

1-14-82

Drlg. @ 7280', (130), 100% Lm., 1/4° @
7246', MW 8.6, vis 33, pH 10.5, WL 12,
FC 1/32, sol 1 1/2%, 11 1/4 hr. drlg.,
1 hr. short trip, 1/2 hr. svy., 1/4 hr.
SR., 10 1/2 hr. circ. & mxg. mud.
CC \$985,076.

1-15-82

Drlg. @ 7516', (236), 60% Sd., 20% Lm.,
20% Sh., MW 8.6, vis 33, pH 10.5, WL 20,
1/32 FC, 23 3/4 hr. drlg., 1/4 hr SR.
CC \$1,002,911.

1-16-82

7157', (241) 90% Sh., 10% Lm, MW 8.7,
vis 33, pH 9.5, WL 25, 2/32 FC, 2% solids,
23 3/4 hr. drlg., 1/4 hr SR.

1-17-82

Drlg. @ 7992', (235), 1/2° @ 7906', 60% SH.
20% Lm., 20% Sd., MW 8.9, vis 33, pH 9.5,
WL 30, FC 2/32, sol 4%, 23 1/4 drlg., 1/2
hr. svy., 1/4 hr. SR.

1-18-82

Drlg. @ 8166', (174), 60% Sh., 40% Lm,
MW 8.8, vis 34, pH 10, WL 18, 2/32 FC,
3.5% sol, 23 3/4 hr. drlg., 1/4 hr. SR.
CC \$1,036,961. DC \$11.350.

1-19-82

Drlg. @ 8262', (96), 70% Lm, 30% Sd.,
1/2°@ 8216', MW 8.9, vis 33, pH 10,
WL 18, FC 2/32, 2% sol, 14 hrs. drlg.,
7 1/2 hr. trip, 1/4 hr. svy., 1 1/2 hr.
rig rep., 1/2 hr. W&R to btm.
CC \$1,048,311.

1-20-82

Drlg. @ 8472', (210'), 60% Lm, 40% Sh.,
MW 8.9, vis 33, pH 11, WL 16, FC 1/32,
sol 2%, 10,000 ppm Chl, 23 3/4 hr. drlg.,
1/4 hr. SR., CC \$1,059,661.

1-21-82

Drlg. @ 8715', (243'), 80% Sh., 20% Lm.,
MW 8.9, vis 34, pH 10.5, WL 10, fill 1/32,
2% solids, 23 3/4 hr drlg., 1/4 hr. SR.
CC \$1,070,011.

1-21-82

Drlg. @ 8715', (243'), 80% Sh., 20% Lm.,
MW 8.9, vis 34, pH 10.5, WL 10, fill 1/32,
2% solids, 23 3/4 hr drlg., 1/4 hr. SR.
CC \$1,070,011.

1-22-82

Drlg. @ 8797', (82), W&R to btm, 80% Sh,
20% Lm, 3/4°@ 8720', MW 8.9, vis 34,
pH 10, WL 10, FC 1/32, sol 2%, 9 1/4 hr.
drlg., 12 1/2 hr. trip, 1/2 hr. svy.,
1/4 hr. SR, 1/2 hr. cut DL, 1 hr W&R to
btm. CC \$1,085,846.

1-23-82

Drlg. @ 8942', (145'), 60% Sh., 40% Lm,
23 1/4 hr. drlg., 1/4 hr SR.

1-24-82

Drlg. @ 9162', (220'), 23 3/4 hr. drlg.,
1/4 hr SR., 80% Lm, 20% SH.

1-25-82

Drlg. @ 9294', (132'), 50% Lm 30% Chert,
20% Sh., MW 8.8, vis 34, pH 10, WL 15,
FC 1/32, sol 2%, 3/4°@ 9221', 23 1/4 hr.
drlg., 1/4 hr SR, 1/2 hr svy.
CC \$ 1,119,896.

1-26-82

Drlg. @ 9373', (79), 60% Sh., 20% Lm,
20% Ch, MW 8.8, vis 33, pH 10, WL 14,
FC 1/32, sol 2%, chl 8000 ppm, 10 hrs. drl.
9 1/4 hr. trip, 1/4 hr SR, 2 1/2 hr trip,
to inspect DC's, 2 hrs. circ. & ream to
btm. CC \$1,131,246.

1-27-82

Drlg. @ 9564', (191'), 50% Lm, 30% Ch,
20% Sh, MW 8.8, vis 33, pH 11, WL 11,
FC 1/32, sol 2%, 23 3/4 hr. drlg., 1/4
hr. SR.
CC \$1,142,596.
DC 11,350.

1-28-82

Drlg. @ 9731', (167'), 70% Sh, 30% Lm,
3/4°@ 9719', MW 8.7, vis 34, pH 10.5,
WL 13, FC 1/32, sol 2%, Chl 6000 ppm,
21 hrs. drlg., 1/2 hr svy, 1/4 hr. SR,
2 1/4 hr. circ. samp., drlg. break from
9697-9712', broke dn fr. 10 MPF-3 MPF.
CC \$1,153,946.

1-29-82

Drlg. @ 9879', (148'), 80% Sh., 20% Lm,
MW 8.7, vis 33, pH 10, WL 14, FC 1/32,
sol 2, Chl 5000, 23 3/4 hr. drlg., 1/4 hr.
SR., 1100u. BGG. CC \$1,165,296.

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TRIPLE "A" FED #2

1-30-82, 9929' (50') Tripping. 80% shale, 20% lime. MW 8.7, vis. 34, PH 10.5, WL 14. 7 1/4 hrs. drlg., 10 hrs. tripping, 1/4 hr. survey, 1/4 hr. rig service, 3 hrs. circ., 3 1/4 hrs. PU test tools. Survey @ 9929' = 1 1/4°.

1-31-82 9995' (66') 70% shale, 30% lime. MW 8.8, vis. 36, PH 10, WL 14, FC 1/32, 2% sol. 7 1/2 hrs. drlg., 9 1/2 hrs. trip, 1 1/2 hrs. circ., 5 1/2 hrs. DST #2. DST #2 from 9680' to 9929'. 15 min. preflow, IF 108, FF 108, 60 min. ISI 2247, 60 min. 2nd flow IF 108, FF 126, 120 min. FSI 2373, IHP 4541. 300' recovered, oil & gas cut drlg. mud. Opened tool w/weak blow, incr. to strong blow. Gas to surf. in 75 min. rate 242 MCF, 15 min. - 137 MCF, 30 min. - 44 MCF. Changed choke to 1/2", 60 min. stabilized flow rate-17.2 MCF. (2nd Bone Spring.)

2-1-82 10,221' (226') Drlg. 60% lime, 40% shale MW 8.9, vis. 34, PH 10.5, WL 14, FC 1/32, solids 2%. 23 3/4 hrs. drlg., 1/4 hr. rig service.

2-2-82 Drlg. @ 10,415', (194'), 40% Sd, 40% Lm, 20% Sh, 1 3/4° @ 10,400', MW 8.9, vis 34, pH 10.5, WL 10.5, FC 1/32, 2% solids, 4000 Cl, 23 1/4 hr. drlg., 1/2 hr svy, 1/4 hr SR, CC \$1,218,526.

2-3-82 Drlg. @ 10,006', (185'), MW 8.9, vis 33, FL 12, pH 10, sol 3%, 23 3/4 hr. drlg. 1/4 hr SR. CC \$1,229,876.

2-4-82 Drlg. @ 10,800', (200'), MW 8.9, vis 32, pH 10.5, WL 11, Bit #11 871'/102 hrs., 23 3/4 hr Drlg., 1/4 hr SR. 70% Lm., 30% Sh., tr. Ch. CC \$1,241,226.

2-5-82 Drlg. @ 10,900', MW 9, vis 35, WL 14, sol 3%, 1° @ 10,895', Bit #11 md 1671'/112 3/4 hr., 10 3/4 hr. drlg., 7 1/2 hr. trip, 1/2 hr svy, 1/4 hr. SR, 3 hrs. circ., 2 hrs. PU DST tools. Drlg. brk fr. 10,852' - 10,860', bk dn fr. 6 MPF-4 MPF w/2700u. gas, 80% Lm, 20% Sh. CC \$1,249,491.

2-6-82 10,900', tripping, (0), MW 9, vis 33, WL 14, pH 10, 3% sol, 14 3/4 hr trips, 6 3/4 hr. DST #3, 1 hr Cut DL, 2 hrs. rep. rig. DST #3 fr. 10,660-900', Open tool w/good blow, gas to surf. in 12", rate 137 MCF., SI 60", re-open tool w/strong blow, rate: 137 MCF. incr. to 319 MCF, decrease to 73 MCF in 60", SI. for 2 hr. FSIP, in BoneSpring Formation, IF-15" @ 181-199#, ISIP-60" @ 3095#, FF-60" @ 199-235#, FSIP-120" @ 4183# IHP 5078#, FHP 5028#., Resis. DP, Rw 1.7 @ 60° (f), Cl 4000 ppm, Resis. SC, Rw 1.7 @ 60° (f), Cl 4000 ppm. Rec. DP 90' GCM, 578' GCM w/ tr. oil. Rec. SC 1500 cc's GSDM w/ tr. oil