

JACK J. GRYNBERG
GRYNBERG STATE COM #1
SEC. 20, T9S-R27E
CHAVES COUNTY, NM
ABO 5200' - PRE-PERMIAN 6350'
660' FWL & 1980' FSL
CONTRACTOR: DESERT DRILLING

DUNCAN: 1-505-623-0989
Unit #4937
OIL POLLUTION COMMISSION
Santa Fe, New Mexico
Case No. _____
Submitted by _____
Hearing Date _____

02/01/84 Finishing MI and RU. Starting MI on 1/31/84; will spud later this afternoon.

02/02/84 TD 555', drlg. made 555' in 11 Hrs. Dev. survey 1/4 degs @240' and 1/2 degs @508'. MW 8.4, Vis 32. Hauled 1350 bbls fluid. Well was spud @6:30PM 2/1/84. Bit #1, 12 1/4 " Hughes-rerun. (Hauled 1350 Bbbls wtr, 75 sxs gel, 25 sxs paper, 6 sxs lime). Had loss circ from abt 350' of 40%.

02/03/84 Day 2, depth 1035', made 480' in 6 3/4 Hrs., drlg. Dev. survey 1/2 degs @1005'. Present operations: TIH w/7 7/8" bit. Ran 24 jts. 8 5/8" Csg 24# STC, total length of 1040' and set @1035'; cmt w/175 sxs Haliburton lit, 10% gel, 1/4# FC, 2% CC; followed by 300 sxs Hailiburton lite, 1/4# FC, 2% CC. Tailed in w/200 sxs Class C, 2% CC. Plug dwn @6PM 2/2/84; circ 35 sxs to surface. Hauled 2550 fresh wtr, 37 sxs paper, 10 sxs lime. Total mud cost \$7,870.00.

02/04/84 Day 3, Depth 2009'; made 974'. Dev survies @1505' of 1/4 degs and @2009' of 1/2 degs. Drlg. ahead.

02/05/84 Day 4, Depth 3252', made 1243'. Dev survies @2509' of 1/2 degs and @3030' of 3/4 degs. Drlg. ahead.

02/06/84 Day 5, Depth 4262', made 1010'. Dev survies @3481' of 3/4 degs and @3949' of 3/4 degs. Currently, circ hole to made bit trip. Hauled 900 bbls of wtr on 2/5/84. MW 9.7.

02/07/84 Day 6, Depth 4509', made 247'. Dev survey @4253' of 3/4 degs. Present Opr. drlg. MW 9.5, Vis 30, WL 8.4, PH 9. Mud as follows: 138 sxs salt, 12 sxs lime, 5 sxs mono-pad, 4 5 gals buckets of defoamer, 20 sxs soda ash.

02/08/84 Day 7, Depth 4824', made 315'. Dev. survey @4780' of 1/2 degs. Present opr. Drlg. Made bit trip #3, J44C, nozzles 12,12,12. MW 9.8, Vis 30, WL 14, PH 10. Mud as follows: 5 sxs salt, 15 sxs lime, 30 sxs soda ash, 1 sx mon-pad, 6 sxs paper, 10 sxs gel, 10-5 gals buckets lub C53. Fresh wtr 150 bbls.

02/09/84 Day 8, depth 5227', made 403'. Present operations: Drlg in ABO form. MW 9.8, Vis 30, WL 10, PH 9.5. No dev survies. MUD USED: 21 sxs Starch; 14 sxs lime; 30 sxs gel; 4 sxs soda ash; 3-10 gals buckets lube; 8 sxs paper.

02/10/84 Day 9, Depth 5560'; made 333'. Present operations: Drlg. Dev survey 1/2 degs @5218'. MW 9.9, Vis 31, WL 9, PH 9.0. MUD USED: Detergent 10 gals; starch 33 sxs; lime 11 sxs; gel 25 sxs; paper 2 sxs; lube 3-5 gal buckets.

02/11/84 Day 10, Depth 5834', drlg. Made 274' in 24 Hrs. MW 9.9, Vis 32, WL 7, PH 9.5.

02/12/84 Day 11, Depth 6147', drlg., made 313' in 24 Hrs., MW 10.1, Vis 32, WL 6, PH 10.5.

02/13/84 Day 12, Depth 6220', made 73' in 24 Hrs. MW 10.1, Vis 35, WL 9, PH 10. Present Operation: Logging. Mud: gel 153 sxs; dress pac 2 sxs; lube 10 gals; mon pac 4 sxs; starch 2 sxs, soda ash 5 sxs.

02/14/84 Day 13, Depth 6220', made 0'. Down time to repair rig, also, fishing; caught fish, now coming out of hole. MW 10.1, Vis 40, WL 9, PH 9.5. Mud: gel 39 sxs; starch 2 sxs; C53 3 15 gal cans. Dev. survey 2 degs @6180'.

02/15/84 Day 14, Depth 6246', made 26', drlg. MW 10.2, Vis 36, WL 12, PH 9. No dev survey. Zero mud mix today.

02/16/84 Depth 6382', 44 Hrs made 136', drlg. MW 10.2, Vis 43, WL 10, Cake 2/32nds, PH 8.0. MUD: Starch 89 sxs; gel 44 sxs; lube 15 gals; soda ash 10 sxs; mon pac 3 sxs.

02/17/84 Day 16, Depth 6396', (strapped pipe @6405'), TOH w/DST tool; MW 10.2, Vis 41, WL 8, PH 10.5, Used 20 sxs gel; 8 sxs starch; 5 gal lube.

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-2/17/84 DST #1 RESULTS: 6335'-6396'
OP 15 mins - fair to strong blow
S.I. 60 mins
OP 120 mins - fair blow increased to 4 psi., decreased to 0 towards end of period.
S.I. 240 mins
REC: 4470 ft of gas cut muddy water.

BOTTOM CHART

I.H. 3478 psi
IF 787 - 1166 psi
ISI 2307 psi
FF 1260 - 2110 psi
FSI 2228
FH 3412

UPPER CHART

592 - 1021 psi
2272 psi
1196 - 2057 psi
2151 psi
3375 psi

Chamber recovery: 0.048 cuft of gas 2250 C.C. formation water, 20 psi.
BHT 122°F.

WATER SAMPLE: 0.18 ohm-m @68°F.

PH = 7 Ca = 2200
Mg = 2000
Cl = 3600
SO₄ = Med
HCO₃ = 850
Fe = Heavy

0 reports
2/19 + 2/20

-2/20/84 Circ for csg. @4AM 2/19/84. TOOH; csg arrived around noon 2/19/84; TD 6419'.
Ran 161 jts 5 1/2" 15.5# ST & C and set @6418'; shoe @6419'; float @6379'.
Cmt in 1 stage w/750 sxs 50/50 POZ, 2% CC. Plug dwn @6:40 PM 2/19/84; Top of cmt @4200'. Left 2 jts 5 1/2" csg on loc. Plug held. Rig rel @8:40 PM 2/19/84.
Set centralzr in hole (4) over pay zone. At 6240' 1 every other jt; at 4750' set at every joint.

✓
2/21/84 through 3/2/84 Waiting on Completion unit.