

WELL REPORT
NORTH AMERICAN EXPLORATION COMPANY
TESORO PETROLEUM CORPORATION
BOUNDARY #1
SAN JUAN COUNTY, NEW MEXICO

WELL REPORT

NORTH AMERICAN EXPLORATION COMPANY & TESORO PETROLEUM CORPORATION

BOUNDARY #1

SAN JUAN COUNTY, NEW MEXICO

LOCATION

790' from the south line and 790' from the east line of Section 22,
Township 41 North, Range 11 West, NMPM.

ELEVATION

6253' Ground: 6266' Kelley Bushing

CONTRACTOR

Aztec Well Servicing Company, Rig #73, Rotary Tools

SPUD AND COMPLETION DATA

Well Commenced: February 28, 1972

Well Completed: March 7, 1972, Plugged and Abandoned

Total Depth 4015' Driller: 4011' Logger

Plugging Program:

| | | | |
|---------------|---|----|-------|
| Surface | - | 10 | sacks |
| 400' - 500' | - | 35 | sacks |
| 1800' - 1900' | - | 35 | sacks |
| 2800' - 2950' | - | 55 | sacks |
| 3700' - 3800' | - | 35 | sacks |

CASING

8 5/8" - 168' w/120 sacks, Class A, 2% CaCl.

ELECTRICAL SURVEYS

Schlumberger - Dual Induction Laterolog - 168' to 4008'

Schlumberger - Formation Density Log - 160' to 4009'

Schlumberger - Sonic Log - 160' to 4007'

FORMATION TOPS

| <u>Cretaceous</u> | <u>Depth</u> | <u>KB Datum</u> |
|----------------------|--------------|-----------------|
| Menefee (Kmf) | Surface | +6266 |
| Point Lookout (Kp1) | 1740' | +4526 |
| Upper Mancos (Kmu) | 1885' | +4381 |
| Gallup (Kg) | 2752' | +3514 |
| Hospah Gallup (Khg) | 2860' | +3406 |
| Massive Gallup (Kmg) | 2930' | +3336 |
| Lower Mancos (Kml) | 3046' | +3220 |

FORMATION TOPS - CONTINUED

| <u>Cretaceous</u> | <u>Depth</u> | <u>KB Datum</u> |
|-----------------------|--------------|-----------------|
| Sanastee (Kms) | 3317' | +2949 |
| Greenhorn (Kgh) | 3668' | +2598 |
| Graneros (Kgr) | 3720' | +2546 |
| Dakota 'A' (Kda) | 3754' | +2512 |
| Dakota 'B' (Kdb) | 3860' | +2406 |
| Dakota 'D' (Kdd) | 3936' | +2330 |
| Total Depth (Logger) | 4011' | +2255 |
| Total Depth (Driller) | 4015' | +2251 |

WELL CUTTINGS

30' samples from 200' to 1500'

10' samples from 1500' to 4015' (Driller TD)

Samples described below from 200' to 4015'

SAMPLE DESCRIPTION

| | |
|---------|--|
| 200-30 | 50% ss, lt gy, f-g, arkosic, SA-SR, por & friable, Tr intstl clay, carb inclus, <u>N-S</u> : 50% sh, dk gy, carb, sdy & silty in part: Tr coal |
| 230-60 | 70% ss, as above, bcm f-m-g, bcm domin uncons, <u>N-S</u> : 30% sh, as above: Tr coal |
| 260-90 | 100% ss, as above, uncons, domin f-g, <u>N-S</u> : Tr coal: Tr sh, as above |
| 290-320 | 80% ss, as above, domin cons, intstl clay, bcm tite & finer grained: 20% sh, as above |
| 320-50 | No sample |
| 350-80 | 100% ss, uncons, f-m-g, domin f-g, as above, <u>N-S</u> : Tr sh, as above: Tr coal |
| 380-410 | 90% ss, uncons, clr, f-c-g, domin f-g, SR-A, arkosic, <u>N-S</u> : 10% sh, as above: Tr coal |
| 410-40 | 70% ss, wht-lt gy, f-m-g, SA-SR, arkosic, por & friable in part, intstl clay, sl/calc in part, occ ang c-g's, <u>N-S</u> : 30% sh, as above: Tr coal |
| 440-70 | 100% ss, wht, uncons, f-m-g, SA-SR, arkosic, <u>N-S</u> : Tr sh, as above: Tr coal |
| 470-500 | 80% ss, wht, cons-uncons, intstl clay, por as above, <u>N-S</u> : 20% sh, as above |
| 500-60 | 100% ss, lt gy, cons-uncons, f-m-g, SA-SR, arkosic, por & friable, <u>N-S</u> : Tr sh, as above: Tr coal |

SAMPLE DESCRIPTION - CONTINUED

| | |
|-----------|---|
| 560-90 | 70% ss, as above, bcm domin f-g, <u>N-S</u> : 30% sh, as above: Tr clinker |
| 590-680 | 50% ss, lt gy, f-g, SA-SR, arkosic, por, intstl clay, carb inclus, calc in part, <u>N-S</u> : 50% sh, as above: Tr coal |
| 680-800 | 80% ss, lt gy, uncons, f-m-g, SA-SR, arkosic, <u>N-S</u> : Tr ss, gy, v-f-f-g, shy, <u>N-S</u> : 20% sh, as above |
| 800-30 | 50% ss, as above, <u>N-S</u> : 50% sh, as above |
| 830-60 | 100% ss, as above, <u>N-S</u> : Tr sh, as above |
| 860-90 | 50% ss, as above, bcm finer grained & shy: 50% sh, as above |
| 890-920 | 90% sh, gy, gy brn, carb, silty & sdy in part: 10% ss, as above |
| 920-80 | 80% sh, as above: 20% ss, as above, <u>N-S</u> : Tr coal |
| 980-1010 | 80% sh, as above: 20% ss, wht-lt gy, f-m-g, SA-SR, por & friable, <u>N-S</u> |
| 1010-40 | 50% ss, as above, cons-uncons, <u>N-S</u> : 50% sh, as above |
| 1040-70 | 80% ss, as above, occ c-g's, <u>N-S</u> : 20% sh, as above: Tr coal |
| 1070-1130 | 100% ss, uncons, f-m-g, occ c-g's, SA-SR, arkosic, <u>N-S</u> : Tr sh, as above: Tr coal |
| 1130-60 | 90% ss, as above: 10% sh, as above: Tr coal |
| 1160-1220 | 100% ss, wht-lt gy, f-m-g, occ c-g's, cons-uncons, SA-SR, arkosic, por & friable, intstl clay, calc & tite in part, <u>N-S</u> : Tr sh, as above: Tr coal |
| 1220-50 | 50% ss, as above, domin uncons, <u>N-S</u> : 50% sh, as above: Tr coal |
| 1250-1310 | 90% sh, gy, gy brn, carb, silty & sdy in part: 10% ss, as above |
| 1310-1500 | 90% sh, as above: 10% ss, gy, f-m-g, domin f-g, calc & tite in part, shy & clay filled in part, as above, <u>N-S</u> : Tr coal |
| 1500-10 | 80% sh, as above: 20% ss, as above, <u>N-S</u> : Tr coal |
| 1510-80 | No sample |
| 1580-90 | as 1500-10 |

SAMPLE DESCRIPTION - CONTINUED

1590-1740 90% sh, as above: 10% ss, as above, carb inclus, N-S:
Tr coal

TOP POINT LOOKOUT 1740' LOGS

1740-70 80% sh, as above: 20% ss, as above, domin uncons, N-S:
Tr coal

1770-80 50% ss, wht, cons-uncons, f-m-g, SA-SR, arkosic, por &
friable, Tr intstl clay, N-S: 50% sh, as above: Tr coal

1780-90 90% ss, as above, N-S: 10% sh, as above: Tr coal

1790-1800 100% ss, as above, N-S: Tr sh, as above: Tr coal

1800-50 100% ss, as above, domin f-g, bcm shy in part, N-S:
Tr sh, as above: Tr coal

1850-60 70% ss, as above, N-S: 30% sh, gy, gy brn, carb

TOP UPPER MANCOS 1885' LOGS

1860-1910 70% ss, lt gy, v-f-f-g, SA-SR, arkosic, Tr porosity,
domin shy, calc & tite, N-S: 30% sh, as above: occ
uncons, m-g's: Tr ss, buff, f-m-g, as above, v/calc,
tite

1910-20 50% ss, as above: 50% sh, as above

1920-2050 80% ss, as above, bcm v/shy: 20% sh, as above: Tr ss,
wht-buff, f-m-g, as above: Tr diss pyrite

2050-2100 80% ss, gy, v-f-f-g, SR, arkosic, shy in part, silty
in part, sl calc, carb inclus, N-S: Tr ss, wht-buff,
f-m-g, SA-SR, arkosic, v/calc, tite, N-S: 20% sh, as
above

2100-90 70% ss, as above: 30% sh, as above: Tr ss, wht-buff,
f-m-g, as above

2190-2200 50% ss, as above: 50% sh, as above: Tr ss, wht-buff,
f-m-g, as above

2200-20 70% ss, gy, v-f-f-g, SR, arkosic, shy in part, silty
in part, sl/calc, carb inclus, N-S: 30% sh, gy, gy brn,
carb, silty & sdy in part: Tr sltstn, gy, hd, calc, shy,
Tr ss, wht-buff, f-m-g, SA-SR, arkosic, v/calc, tite,
w/diss pyrite inclus, N-S

2220-30 50% ss, gy, v-f-f-g, as above, N-S: 50% sh, as above:
Tr ss, wht-buff, f-m-g, as above: N-S

2230-80 60% sh, as above: 40% ss, as above, N-S: Tr coal

2280-2300 80% sh, as above: 20% ss, as above, N-S

SAMPLE DESCRIPTION - CONTINUED

2300-10 90% ss, as above, N-S: Tr ss, wht-buff, f-m-g, as above, N-S: 10% sh, as above

2310-70 80% ss, as above: 20% sh, as above: Tr buff ss, as above

2370-2470 50% ss, as above, bcm domin shy: 50% sh, as above: Tr ss, wht-buff, f-m-g, as above, N-S

2470-2500 80% ss, as above: 20% sh, as above

2500-10 80% ss, gy, v-f-f-g, SA-SR, arkosic, carb inclus, por in part, silty, calc, shy in part, occ thin sh lamin, N-S: 20% sh, gy, gy brn, carb

2510-2650 90% ss, as above, N-S: 10% sh, as above

2650-2700 70% ss, as above, bcm domin shy & tite: 30% sh, as above

2700-10 100% ss, as above, bcm v/silty: Tr sh, as above

2710-20 90% ss, as above, N-S: 10% sh, as above: 70 unit gas kick

2720-40 80% ss, as above: 20% sh, as above: Tr diss pyrite

TOP GALLUP 2752' LOGS

2740-80 50% ss, as above, bcm shy & silty: 50% sh, gy, gy brn, gy grn, carb in part

2780-2800 70% sh, as above: 30% ss, as above: Tr ss, buff, f-m-g SA-SR, arkosic, v/calc, tite, N-S: Tr aragonite

2800-20 100% ss, lt gy, v-f-f-g, SA-SR, arkosic, calc, silty & shy in part, N-S: Tr sh, gy, gy brn, carb: occ cse-ang qtz grs

2820-30 80% ss, as above: 20% ss, uncons, f-m-g, SA-SR, arkosic, N-S: Tr ang cse qtz grs: Tr sh, as above

2830-40 100% ss, uncons, as above, N-S: Tr sh, as above

2840-50 50% ss, lt gy, v-f-f-g, SR, arkosic, calc, tite, N-S: 50% sh, as above: Tr diss pyrite

2850-60 20% ss, as above, N-S: 50% ss, uncons, f-c-g, A-SR, arkosic, N-S: 30% sh, as above

TOP HOSPAH GALLUP 2860' LOGS

2860-70 80% sh, as above, silty & sdy in part: 20% ss, gy, v-f-f-g, calc, as above

SAMPLE DESCRIPTION - CONTINUED

- 2870-80 50% ss, wht-lt gy, v-f-f-g, SR, por in part, intstl clay, calc & tite in part, N-S: 50% sh, as above
- 2880-2900 80% ss, cons-uncons, f-m-g, domin f-g, domin por, as above, N-S: 20% sh, as above: Tr diss pyrite
- 2900-10 50% ss, cons, lt gy, f-g, domin calc & tite, as above, N-S: 50% sh, as above

TOP MASSIVE GALLUP 2930' LOGS

- 2910-40 80% ss, as 2880-2900: Tr aragonite, occ SA c-g's: 20% sh, as above
- 2940-50 90% ss, uncons, fstd-clr qtz, f-c-g, A-SR, arkosic, N-S: 10% sh, as above
- 2950-70 50% ss, as above, bcm f-g, calc & tite in part: 50% sh, as above
- 2970-3000 70% ss, uncons, f-m-g, domin f-g, as above, N-S: 30% sh, as above: Tr coal
- 3000-20 50% ss, as above: 50% sh, as above: Tr coal

TOP LOWER MANCOS 3046' LOGS

- 3020-90 90% ss, uncons, f-c-g, SR-A, arkosic, N-S: 10% sh, as above
- 3090-3100 50% ss, as above: 50% sh, as above
- 3100-30 80% sh, gy, gy brn, carb: 20% ss, as above, N-S
- 3130-90 90% sh, as above: 10% ss, as above: Tr ss, gy, cons, v-f-f-g, calc, shy, tite
- 3190-3220 100% sh, as above: Tr ss, uncons, as above: Tr ss, cons, as above
- 3220-40 50% ss, uncons, f-m-g, SA-SR, arkosic, N-S: 50% sh, gy, gy brn, gy grn, carb in part

TOP SANASTEE 3317' LOGS

- 3240-3400 70% sh, as above: 30% ss, as above, N-S
- 3400-50 70% sh, as above: 30% ss, as above, N-S: Tr ls, tan-mott brn, v-f-xln-ds
- 3450-3500 90% sh, dk gy, gy brn, silty & sdy in part, carb in part: 10% ss, as above, N-S: Tr ls, as above: Tr sltstn, gy, hd, calc, shy
- 3500-50 100% sh, dk gy, gy, gy brn, as above: Tr sltstn, as above: Tr ss, as above

SAMPLE DESCRIPTION - CONTINUED

3550-70 90% sh, as above: 10% sltstn, gy, hd, calc, sdy in
part: Tr ss, as above

3570-80 70% sh, as above: 30% sltstn, as above: Tr ss, as above

3580-90 100% sh, as above: Tr sltstn, as above

3590-3600 70% sh, as above: 30% sltstn, as above: Tr ss, uncons,
as above

3600-30 80% sh, as above: 20% sltstn, as above, w/intbdd v-f-g,
calc ss, N-S: Tr ss, uncons, as above

3630-50 60% sh, as above: 40% sltstn, gy, hd, calc in part,
silic in part, sdy in part

3650-60 70% sh, as above: 30% sltstn, as above

TOP GREENHORN 3668' LOGS

3660-70 70% sh, as above: 20% sltstn, as above: 10% ls, gy brn,
ds, argill

3670-90 70% sh, as above: 20% sltstn, as above: 10% ls, as above:
Tr ss, lt gy, f-g, SA-SR, arkosic, Tr por, N-S

3690-3700 70% sh, as above: 20% sh, dk gy, fissile: 10% ls, as
above: Tr sltstn, as above: Tr ss, as above

TOP GRANEROS 3720' LOGS

3700-60 100% sh, dk gy, fissile: Tr bentonite: Tr sltstn, as
above: Tr ss, as above

TOP DAKOTA "A" 3754' LOGS

3766 Circ samples

15" - as 3700-60

30" - 100% sh, as above: Tr ss, wht, cons-uncons, domin
uncons, f-m-g, SA-SR, arkosic, sl/glauc, por & friable,
No fluor, 10 unit gas kick: Tr bentonite

45" - 50% ss, as above: 50% sh, as above: Tr bentonite

3760-80 50% ss, as above: 50% sh, as above: Tr bentonite
26 unit gas kick, No fluor

3782 Circ samples

15" - 50% ss, as above: 50% sh, as above: Tr bentonite

30" - as above

SAMPLE DESCRIPTION - CONTINUED

3780-3800 50% ss, uncons, as above: occ A c-g's: 50% sh, as above: Tr diss pyrite: Tr bentonite

3800-10 80% sh, as above: 20% ss, uncons, as above: Tr bentonite

3810-20 50% ss, lt gy, f-g, SA-SR, arkosic, por & friable in part, calc & tite in part, N-S: 50% sh, as above: Tr diss pyrite: Tr bentonite

3820-30 70% ss, as above, bcm shy in part, Tr intstl clay: 30% sh, as above

3830-40 90% ss, as above, cons-uncons, N-S: 10% sh, as above

3840-60 80% sh, as above: 20% ss, as above, bcm shy, silic & tite

TOP DAKOTA "B" 3860' LOGS

3870 Circ samples

45" - 80% ss, wht-lt gy, cons-uncons, f-m-g, domin f-g, SA-SR, arkosic, por & friable, No fluor, 24 unit gas kick: 20% sh, as above

Core #1 3870-3900

3900-20 80% sh, dk gy, carb: 20% ss, wht, cons-uncons, f-m-g, SA-SR, arkosic, por, N-S: Tr diss pyrite: Abt bentonite: Tr sltstn, gy, hd, silic

3920-30 70% ss, wht-lt gy, cons-uncons, domin uncons, f-c-g, A-SR, arkosic, por, N-S: 30% sh, as above: Tr diss pyrite

TOP DAKOTA "D" 3936' LOGS

3930-50 80% sh, as above: 20% ss, as above, N-S: Tr diss pyrite

3950-60 90% sh, as above: 10% ss, as above, N-S: Tr ss, cons, lt gy, v-f-g, silty, tite, Tr diss pyrite

3960-80 70% sh, as above: 30% ss, cons-uncons, wht-lt gy, cons, f-g, SA-SR, arkosic, por & friable, N-S: occ m-c-g's, as above: Tr diss pyrite

3980-90 80% sh, as above: 20% ss, as above: Tr diss pyrite: Tr bentonite

3990-4000 100% sh, as above: Tr ss, as above: Tr sltstn, as above

4000-10 50% ss, uncons, f-m-g, SA-SR, arkosic, occ A m-c-g's, N-S: 50% sh, as above: Tr bentonite

SAMPLE DESCRIPTION - CONTINUED

4015 TD Driller
Circ samples
15" - 80% ss, as above, lt gy, cons-uncons, por, N-S:
20% sh, as above
30" - 50% ss, as above: 50% sh, as above
45" - 80% sh, as above: 20% ss, as above

CHRONOLOGICAL LOG

2-28-72 MIRT

2-29-72 TD 168' WOC
Spud: 4:00 P.M. 2-28-72
Ran 155.68, 8 5/8", 24.00#, set @ 168' w/120 sacks
Class A, 2% CaCl.
P.D. 11:00 P.M. 2-28-72
Move & rig up (9 hrs) Drill surf hole (3 hrs) Run surf
csg & cement (7 hrs)

3-01-72 ø 1532' w/bit #4
Drlg (19 hrs) Trip (3 1/2 hrs) Pump repair (1 1/2 hrs)

3-02-72 ø 2686' w/bit #5
Mud Properties: Vis 30, Wt. 9.1
Drlg (21 hrs) Trip & strap drill pipe (3 hrs)

3-03-72 ø 3078' w/bit #6
Drlg (10 1/2 hrs) Circ & cond mud for DST (5 hrs)
Trips (2 1/2 hrs) DST (3 1/2 hrs) Trip out & lay down
test tool (2 1/2 hrs)

3-04-72 ø 3517' w/bit #7
Mud Properties: Vis 39, Wt. 9.4
Drlg (15 hrs) Trips (6 hrs) Pump repair (3 hrs)

3-05-72 TD 3870' Circ samples
Mud Properties: Vis 44, Wt. 9.5
Drlg (15 3/4 hrs) Trips (4 1/4 hrs) Circ samples (2 hrs)
Rig repair (2 hrs)

3-06-72 ø 3965' w/bit #9
Circ cond mud (1 hr) Trip & pickup ø bbl (4 1/4 hrs)
Coring (6 1/4 hrs) Trip (3 1/4 hrs) Rig repair (4 1/2 hrs)
Lay down core (1/2 hr) Rmg core hole (1 hr) Drlg (2 1/4 hrs)

CHRONOLOGICAL LOG - CONTINUED

3-07-72 TD 4015'

Orlg (1/2 hr) Circ & WO Schlumberger (5 1/2 hrs)
 Trip to log (2 hrs) Logging (8 hrs) WOO (8 hrs)

3-08-72 TD 4015' P & A

BIT RECORD

| <u>No.</u> | <u>Make</u> | <u>Size</u> | <u>Type</u> | <u>From</u> | <u>To</u> | <u>Footage</u> | <u>Hours Run</u> |
|------------|-------------|-------------|-------------|-------------|-----------|----------------|------------------|
| 1 | Hughes | 12 1/4 | RT | 0' | 168' | 168' | 2 |
| 2 | Hughes | 7 7/8 | RR | 168' | 1410' | 1242' | 16 |
| 3 | Hughes | 7 7/8 | OSCIG | 1410' | 2332' | 922' | 12 |
| 4 | Hughes | 7 7/8 | OSCIG | 2332' | 2802' | 470' | 12 |
| 5 | Hughes | 7 7/8 | OSCIG | 2802' | 3249' | 447' | 14 |
| 6 | Hughes | 7 7/8 | OD4 | 3249' | 3448' | 199' | 10 |
| 7 | Hughes | 7 7/8 | OSCIG | 3448' | 3790' | 342' | 12 |
| 8 | Hughes | 7 7/8 | V-2 | 3790' | 3870' | 80' | 7 |
| 9 | Christensen | Diamond | | 3870' | 3900' | 30' | 6 1/4 |
| 10 | Hughes | 7 7/8 | ODV | 3900' | 4015' | 115' | 3 3/4 |

TOTAL ROTATING HOURS - 95

DEVIATION RECORD

| <u>No.</u> | <u>Depth</u> | <u>Degree</u> | <u>Date</u> |
|------------|--------------|---------------|-------------|
| 1 | 170' | 1/2° | 2-28-72 |
| 2 | 1405' | 1-1/2° | 3-01-72 |
| 3 | 2332' | 1/2° | 3-02-72 |

ELECTRICAL SURVEY CALCULATIONS

| <u>Formation</u> | <u>Depth</u> | <u>Rt</u> | <u>ϕs</u> | <u>ϕd</u> | <u>Rw</u> | <u>Sw</u> | <u>Q</u> |
|------------------|--------------|-----------|-----------|-----------|-----------|-----------|----------|
| Dakota "A" | 3754-70 | 9 | 20 | 18 | .26 | 100% | 1 |
| Dakota "A" | 3800-20 | 10 | 16 | 12 | 1.0 | 100% | .25 |
| Dakota "B" | 3860-3900 | 30 | 18 | 18 | .8 | 100% | 0 |
| Dakota "D" | 3949-52 | 30 | 16 | 12 | 1.2 | 100% | .25 |

Rw's calculated

CORE RECORD

Core #1: 3870-3900 (Dakota "B") Cut 30': Recovered 25'
(3866-96 adjusted to logs)

| <u>Feet</u> | <u>Depth</u> | <u>Description</u> |
|-------------|--------------|---|
| 1 | 3870-71 | ss, lt gy, f-g, SA-SR, sl/arkosic, sl/ porous, w/occ thin hairline sh lamin, <u>N-S</u> |
| 4 | 3871-75 | ss, as above, f-m-g, domin f-g, porous appears water wet |
| 1 | 3875-76 | ss, as above, carb inclus |
| 1 | 3876-77 | ss, lt gy, f-m-g, SA-SR, arkosic, porous, <u>N-S</u> |
| 1 | 3877-78 | ss, as above, abt thin sh lamin |
| 1 | 3878-79 | ss, lt gy, f-g, SA-SR, arkosic, bcm less porous, w/abt thin sh lamin, <u>N-S</u> |
| 1 | 3879-80 | ss, lt gy, f-m-g, domin f-g, SA-SR, arkosic, porous, <u>N-S</u> |
| 1 | 3880-81 | ss, as above, bcm less porous, <u>N-S</u> |
| 2 | 3881-83 | ss, as above, thin sh lamin, <u>N-S</u> |
| 1 | 3883-84 | ss, as above, No sh lamin |
| 2 | 3884-86 | ss, as above, thin carb sh lamin |
| 4 | 3886-90 | ss, lt gy, f-m-g, domin f-g, SA-SR, arkosic, porous, w/occ thin sh lamin, <u>N-S</u> |
| 5 | 3890-95 | ss, lt gy, f-m-g, SA-SR, arkosic, porous, occ thin sh lamin, <u>N-S</u> : v/frag 94-95 |
| <u>5</u> | 3895-3900 | No recovery |

30'

CORING TIME

3870-80 12-10-17-20-20-14-12-14-15-20
 3880-90 17-17-17-16-13-13-13- 8- 8- 7
 3890-3900 7- 7- 7- 5- 8- 6- 6-11-10-18

CORE ANALYSIS

| <u>Depth</u> | <u>K</u> | <u>Ø</u> | <u>S_o</u> | <u>S_w</u> |
|--------------|----------|----------|----------------------|----------------------|
| 3870-71 | 8.6 | 18.6 | 0.0 | 80.0 |
| 3873 | 34.0 | 18.9 | 0.0 | 81.0 |
| 3875 | 11.0 | 18.5 | 0.0 | 78.9 |
| 3877 | 43.0 | 19.2 | 0.0 | 89.1 |
| 3879 | 4.8 | 17.2 | 0.0 | 79.6 |
| 3881 | 20.0 | 18.9 | 0.0 | 88.4 |
| 3883 | 20.0 | 19.0 | 0.0 | 81.5 |
| 3885 | 17.0 | 18.5 | 0.0 | 79.9 |
| 3887 | 28.0 | 19.8 | 0.0 | 84.4 |
| 3889 | 63.0 | 19.9 | 0.0 | 82.3 |
| 3891 | 164.0 | 20.7 | 0.0 | 82.6 |
| 3893 | 106.0 | 18.9 | 0.0 | 86.2 |

DRILLSTEM TEST RECORD

DST #1: 2678-2802 (Crevasse Canyon)
2674-2798 (Adjusted to logs)

Open 15 minutes: very weak blow, dead 10 minutes

Shut In: 30 minutes

Open 30 minutes: No blow

Shut In: 60 minutes

Recovered: 30' drilling mud, N-S

| | |
|------------------------------|----------|
| Initial hydrostatic pressure | 1341 psi |
| Final hydrostatic pressure | 1341 psi |
| Initial flow pressure (1) | 13 psi |
| Final flow pressure (1) | 13 psi |
| Initial flow pressure (2) | 13 psi |
| Final flow pressure (2) | 13 psi |
| Initial shut in pressure | 207 psi |
| Final shut in pressure | 363 psi |

Bottom Hole Temperature - 80°F