

# WELL REPORT

ANDERSON OIL COMPANY: EL SUR #1

SAN JUAN COUNTY, NEW MEXICO

## LOCATION

660' from the north line and 1980' from the west line of Section 32,  
T<sub>21</sub> North, Range 8 West, NMPM.

## ELEVATION

6460' Ground: 6472' Kelley Bushing

## CONTRACTOR

Young Drilling Company, Inc., Rig #1, Ideco Rambler, Rotary Tools.

## SPUD AND COMPLETION DATA

Well commenced: November 17, 1971

Well completed: November 27, 1971, Plugged and abandoned

Total Depth 4586' Logger: 4590' Driller

### Plugging Program:

Surface - 10 sacks  
200' - 300' - 35 sacks  
2200' - 2300' - 35 sacks  
4175' - 4275' - 35 sacks

## CASING

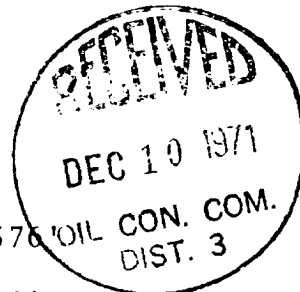
8 5/8" 73' with 40 sacks

## ELECTRICAL SURVEYS

Dresser Atlas - Induction Electrolog: 72' to 4576'

Dresser Atlas - Densilog: 72' to 4577'

Dresser Atlas - Acoustilog: 1494' to 2410': 3294' to 4194' to 4576'



## FORMATION TOPS

<u>Cretaceous</u>	<u>Depth</u>	<u>KB Datum</u>
Lewis (K1)	Spud	+6472
Cliff House (Kch)	394'	+6078
Menefee (Kmf)	557'	+5915
Point Lookout (Kp1)	2244'	+4228
Upper Mancos (Kmu)	2375'	+4097
Gallup (Kg)	3310'	+3162
Gallup Sand (Kgs)	3370'	+3102
Lower Mancos (Kml)	3527'	+2945
Sanastee (Kms)	3822'	+2650

## FORMATION TOPS - CONTINUED

<u>Cretaceous</u>	<u>Depth</u>	<u>KB Datum</u>
Greenhorn (Kgh)	4154'	+2318
Graneros (Kgr)	4202'	+2270
Dakota "A" (Kda)	4224'	+2248
Dakota "B" (Kdb)	4342'	+2130
Dakota "D" (Kdd)	4431'	+2041
Dakota Burro Canyon (Kdbc)	4493'	+1979
<u>Jurassic</u>		
Morrison (Jm)	4582'	+1890
Total Depth (Logger)	4586'	+1886
Total Depth (Driller)	4590'	

## WELL CUTTINGS

30' samples from 80' to 1500'  
10' samples from 1500' to 2500'  
30' samples from 2500' to 3200'  
10' samples from 3200' to 4590' Driller TD

Samples described below from 1650' to 4590' (Driller TD).

## SAMPLE DESCRIPTION

1650-70	50% ss, wht, f-g, arkosic, SA-SR, carb inclus, por & friable, <u>N-S</u> : 50% sh, gy, gy brn, gy grn, carb in part
1670-80	70% sh, as above: 30% ss, as above, bcm v-f-f-g, <u>N-S</u>
1680-90	As above: Tr tan, calc, tite ss, <u>N-S</u>
1690-1700	90% sh, as above: 10% ss, as above
1700-30	50% ss, wht, f-g, as above, <u>N-S</u> : 50% sh, as above
1730-40	70% sh, as above: 30% ss, as above, bcm v-f-f-g in part, <u>N-S</u>
1740-50	70% ss, as above, bcm f-m-g in part, <u>N-S</u> : 30% sh, as above
1750-60	50% ss, as above, <u>N-S</u> : 50% sh, as above
1760-70	80% ss, as above: 20% sh, as above
1770-80	70% sh, as above: 30% ss, v-f-f-g, bcm hd, tite, as above, <u>N-S</u> : Tr coal
1780-1830	90% sh, as above: 10% ss, as above
1830-60	100% sh, as above, bcm sdy & silty in part: Tr ss, as above
1860-1900	90% sh, as above: 10% ss, uncons, f-g, SA-SR, arkosic, <u>N-S</u>

## SAMPLE DESCRIPTION - CONTINUED

1900-20 90% sh, as above: 10% ss, gy, v-f-f-g, hd, tite

1920-30 90% ss, uncons, f-m-g, arkosic, SA-SR: Tr ss, cons, as above, bright gold fluor, fair cut: 10% sh, as above

1930-40 50% ss, as above: Tr cons ss, as above: 50% sh, as above

1940-50 30% ss, as above: 70% sh, as above

1950-70 80% sh, as above: 20% ss, as above, bcm hd, tite

1970-80 30% ss, lt gy, cons-uncons, domin uncons, f-m-g, arkosic, SA-SR, por & friable, Tr bright gold fluor, fair cut: 70% sh, as above

1980-90 90% ss, as above: 10% sh, as above

1990-2000 90% sh, as above: 10% ss, as above, N-S

2000-10 90% ss, lt gy, v-f-f-g, SA-SR, arkosic, intstl clay, N-S: 10% sh, as above

2010 30 70% ss, as above: 30% sh, as above: Tr diss pyrite

1890-1950 SP DST #1

2020-50 100% sh, gy gy grn, gy grn, carb in part, silty & sdy in part: Tr ss, as above

2050-60 100% sh, as above: Tr ss, as above: Tr coal

2060-70 30% ss, as above, shy in part, calc & tite in part: N-S: 70% sh, as above: Tr coal

2070-2110 90% sh, as above: 10% ss, as above: Tr coal

2110-40 80% sh, as above: 20% ss, as above: Tr coal

2140-50 100% sh, as above: Tr ss, as above

2150-60 80% sh, as above: 20% ss, as above, N-S

2160-70 40% ss, wht, v-f-f-g, arkosic, SA-SR, abt intstl clay, Tr por, N-S: 60% sh, as above

2170-2220 30% ss, gy, v-f-g, arkosic, carb inclus, calc, shy, silty, tite, N-S: 70% sh, as above: Tr coal: Tr wht ss, as above

2220-30 90% sh, as above: 10% ss, as above

## TOP POINT LOOKOUT 2244' LOGS

2230-50 50% sh, as above: 50% coal: Tr ss, as above

2250-60 100% sh, as above: Tr ss, as above, N-S

SAMPLE DESCRIPTION - CONTINUED

2260-70 20% ss, wht, f-m-g, SA-SR, arkosic, por & friable, Tr  
intstl clay, N-S: 80% sh, as above

2270-80 20% ss, as above, cons-uncons, N-S: 80% sh, as above:  
Tr coal

2280-2310 80% ssh, as above: N-S: 20% sh, as above: Tr coal

2310-40 70% ss, as above, f-g, bcm less porous, N-S: 30% sh,  
as above

2340-60 50% ss, as above: 50% sh, as above: Tr coal

2360-70 70% sh, as above: 30% ss, gy, v-f-f-g, as above, bcm shy,  
silty, tite, N-S

TOP UPPER MANCOS 2375' LOGS

2370-80 70% ss, as above: 30% sh, as above: Tr coal

2380-90 70% sh, as above: 30% ss, as above: Tr coal

2390-2450 50% ss, as above: 50% sh, as above

2450-90 80% sh, gy gy brn, carb in part, sdy & silty in part:  
20% ss, gy, v-f-g, as above, shy, silty, tite, N-S

2490-2560 90% sh, as above: 10% ss, as above

2560-2650 50% ss, as above: 50% sh, as above

2650-80 80% sh, as above: 20% ss, as above

2680-2980 90% sh, as above: Tr ss, as above: 10% sltstn, gy, gy brn,  
shy & sdy in part

2980-3040 20% ss, gy, v-f-g, arkosic, carb inclus, shy, silty, calc,  
tite, N-S: 10% sltstn, as above: 70% sh, as above

3040-70 100% sh, as above: abt bentonite

3070-3100 40% ss, as above: 60% sh, as above

3100-30 20% ss, as above: 80% sh, as above

TOP GALLUP 3310' LOGS

3130-3350 100% sh, as above: Tr ss, as above

3350-60 50% ss, uncons, f-m-g, SA-SR, arkosic, N-S: 50% sh, as  
above

3360-70 20% ss, as above: 80% sh, as above

SAMPLE DESCRIPTION - CONTINUED

TOP GALLUP SAND 3370' LOGS

3570-90 100% sh, as above: Tr ss, as above

3390-3420 100% sh, as above

TOP LOWER MANCOS 3527' LOGS

3420-3830 100% sh, as above, bcm more carb: Tr coal: Tr ss, as  
2980-3040

TOP SANASTEE 3822' LOGS

3830-60 20% ls, tan, f-xln: 80% sh, gy brn, calc

3860-80 100% sh, as above: Tr ls, as above

3880-90 100% sh, as above, dk gy, gy gy brn, carb: Tr ls, as above

3890-3920 100% sh, dk gy, gy gy brn, carb: Tr calc sh: Tr sltstn,  
dk gy, calc, shy, Tr ls, as above

3920-40 90% sh, as above, bcm calc in part: 10% sltstn, gy, hd,  
calc, sdy in part: Tr ls, as above

3940-70 100% sh, as above: Tr sltstn, as above: Tr ls, as above

3970-4000 100% sh, dk gy, gy, fissile, carb in part: Tr sltstn, as  
above: Tr bentonite

4000-30 100% sh, as above: Tr ls, as above: Tr sltstn, as above

4030-50 100% sh, as above: Tr ls, as above: Tr sltstn, as above,  
bcm sdy in part

4050-70 100% sh, as above

4070-80 100% sh, gy, dk gy, carb in part, silty & sdy in part

4080-90 90% sh, as above: 10% sltstn, gy, hd, calc in part, silic  
in part: Tr ls, as above

4090-4110 80% sh, as above: 20% sltstn, as above

4110-30 60% sh, as above: 40% sltstn, as above

4130-50 80% sh, as above: 20% sltstn, as above

TOP GREENHORN 4154' LOGS

4150-60 90% sh, as above: 10% sltstn, as above

4160-70 60% sltstn, gy, calc, sdy in part, 40% sh, as above

4170-4190 80% sh, as above: Tr sh, gy brn mott calc: 20% sltstn,  
as above: Tr ls, brn, f-xln

SAMPLE DESCRIPTION - CONTINUED

4190-4200 70% sh, as above: Tr dk gy, platy sh: 30% sltstn, as above: Tr ls, as above

TOP GRANEROS 4202' LOGS

4200-10 90% sh, as above: 10% sltstn, as above: Tr ls, as above

4210-20 70% sh, as above, bcm calc: 20% sltstn, as above: 10% ls, brn, f-xln, shy

TOP DAKOTA "A" 4224' LOGS

4220-30 80% sh, as above: 20% sltstn, as above: Tr ls, as above: Tr ss, dk gy, v-f-f-g, arkosic, calc, shy, tite, N-S

4230-40 90% sh, as above: 10% sltstn, as above: Tr ls, as above: Tr ss, uncons, v-f-f-g

4240-50 30% ss, tan-gy, v-f-m-g, domin f-g, cons-uncons, SA-SR, arkosic, glauc in part, por in part: 20% lt stn, gold fluor, fair cut: 70% sh, as above

4257 Circ Smp1

15" - 30% ss, as above: 70% sh, as above

30" - 30% ss, as above: 70% sh, as above

45" - 30% ss, as above: 70% sh, as above

4260-80 100% sh, dk gy, gy brn, sdy & silty

4280-90 80% ss, lt gy, v-f-f-g, SA-SR, arkosic, calc, tite, shy in part, N-S: 20% sh, as above

4290-4300 50% ss, as above, domin shy: 50% sh, as above

TOP DAKOTA "B" 4342' LOGS

4310-50 80% sh, as above: 20% ss, as above, N-S

4363 Circ Smp1

30" - 100% ss, wht-lt gy, v-f-f-g, SA-SR, arkosic, por & friable in part: calc & tite in part: Tr intstl clay, N-S: Tr sh, as above

4374 Circ Smp1s

30" - 100% ss, as above, domin calc & tite, N-S: Tr sh, as above

4350-74 DST #3

4380-90 40% ss, as above: 60% sh, as above

SAMPLE DESCRIPTION - CONTINUED

4390-4410 20% ss, gy, v-f-g, as above, calc, tite, silty, N-S:  
80% sh, as above

4410-20 90% sh, dk gy, sdy & silty in part: 10% ss, as above,  
N-S

TOP DAKOTA "D" 4431' LOGS

4420-50 100% sh, as above: Tr ss, as above

4447 Circ Smpls

15" - 50% ss, buff, v-f-f-g, SA-SR, sl/arkosic, por,  
N-S: 50% sh, as above

30" - 90% ss, as above: 10% ss, buff, f-m-g, domin f-g,  
por, as above, N-S: Tr sh, as above

45" - 100% ss, buff, f-m-g, domin f-g, as above, N-S:  
Tr ss, buff, v-f-f-g, as above, N-S

60" - 100% ss, as above: Tr sh, as above

4450-70 100% sh, dk gy platy

4470-80 50% ss, buff, f-m-g, domin f-g, as above, N-S: 50% sh,  
as above

4480-90 80% ss, as above, bcm calc in part: N-S: 20% sh, as above

TOP DAKOTA BURRO CANYON 4493' LOGS

4490-4520 100% sh, as above: Tr ss, as above

4520-30 90% sh, as above: 10% ss, as above, N-S

4530-70 50% ss, buff, f-m-g, as above, N-S: 50% sh, as above

TOP MORRISON 4582' LOGS

4570-90 50% ss, wht, uncons-cons, f-c-g, congl, abt intstl clay,  
N-S: 50% sh, as above: Tr sh, pale grn, wxy

4590 TD Driller

## DRILLING TIME

Five foot drilling time from 1650' to 4590' (Driller TD) is listed below:

05-10-15-20-25-30-35-40-45-50-55-60-65-70-75-80-85-90-95-100

1650-1700	Geograph Repair																		
1700-1800																			
1800-1900																			
1900-2000																			
2000-2100		2-	2-	2-	9-	7-	7-	5-	5-	7-	5-	5-	4-	3-	3-	5-	5-	5-	3
2100-2200	2-	4-	3-	2-	4-	6-	4-	5-	7-	4-	4-	5-	4-	8-	5-	6-	7-	4-	7- 9
2200-2300	3-	3-	3-	6-	3-	3-	3-	6-	3-	7-	3-	1-	3-	1-	3-	3-	3-	3-	4
2300-2400	4-	5-	4-	4-	5-	4-	4-	4-	4-	5-	3-	4-	5-	5-	5-	6-	5-	5-	5
2400-2500	6-	6-	6-	7-	7-	7-	7-	7-	7-	7-	7-	7-	7-	7-	7-	8-	7-	7-	6
2500-2600	6-	4-	5-	4-	5-	5-	4-	5-	4-	4-	5-	5-	5-	5-	5-	5-	4-	4-	4
2600-2700	5-	4-	4-	4-	4-	4-	4-	4-	5-	5-	4-	4-	5-	4-	5-	5-	6-	6-	6
2700-2800	5-	5-	5-	6-	6-	6-	5-	5-	6-	6-	6-	6-	6-	5-	5-	6-	6-	6-	6
2800-2900	6-	6-	7-	6-	6-	7-	7-	8-	8-	7-	7-	7-	7-	7-	7-	7-	7-	6-	6-
2900-3000	6-	7-	6-	7-	7-	7-	7-	6-	7-	8-	8-	8-	9-	8-	8-	8-	9-	7-	8
3000-3100	8-	8-	8-	8-	8-	8-	8-	8-	10-	12-	10-	11-	11-	11-	10-	8-	8-	7-	9
3100-3200	7-	10-	6-	5-	5-	5-	5-	5-	5-	5-	5-	5-	5-	5-	6-	6-	6-	6-	6
3200-3300	6-	6-	5-	5-	6-	8-	6-	6-	5-	5-	5-	6-	7-	7-	7-	7-	7-	7-	7
3300-3400	6-	6-	8-	8-	11-	10-	10-	10-	11-	9-	9-	8-	9-	8-	8-	8-	7-	7-	6
3400-3500	6-	8-	7-	8-	7-	5-	6-	7-	7-	7-	8-	7-	8-	8-	7-	9-	9-	9-	11
3500-3600	9-	9-	10-	13-	13-	13-	14-	17-	18-	16-	18-	17-	18-	18-	10-	10-	11-	10-	12
3600-3700	13-	11-	10-	10-	11-	10-	9-	10-	10-	11-	10-	11-	12-	12-	13-	13-	13-	13-	13
3700-3800	14-	11-	10-	11-	11-	11-	11-	13-	13-	13-	13-	13-	11-	11-	10-	10-	8-	9-	10
3800-3900	10-	11-	11-	10-	10-	9-	10-	9-	9-	9-	8-	7-	9-	8-	7-	7-	6-	7-	9
3900-4000	9-	8-	10-	9-	9-	8-	8-	17-	20-	10-	10-	9-	10-	9-	11-	14-	19-	16-	10
4000-4100	8-	8-	7-	8-	10-	9-	11-	12-	12-	12-	11-	11-	11-	12-	11-	13-	12-	14-	14
4100-4200	14-	14-	14-	13-	12-	12-	15-	14-	14-	9-	9-	7-	10-	13-	16-	19-	18-	19-	22
4200-4300	20-	22-	20-	22-	26-	29-	17-	13-	19-	9-	12-	23-	23-	15-	8-	10-	9-	10-	9
4300-4400	11-	10-	17-	15-	17-	19-	21-	18-	22-	24-	15-	6-	8-	10-	13-	15-	17-	26-	24
4400-4500	25-	27-	36-	30-	35-	32-	33-	9-	8-	9-	9-	12-	11-	13-	9-	9-	11-	36-	37
4500-4600	5-	5-	8-	9-	5-	6-	13-	10-	8-	5-	6-	7-	5-	4-	6-	3-	4-	37	

## CHRONOLOGICAL LOG

11-19-71 ø 1666' w/bit #2  
8 5/8" @ 73' with 40 sacks  
Spud, 11-17-71 w/surface rig.  
ø out 2:45 P.M. 11-18-71  
Bit #1 - S-3 - 1500' - 10 1/2 hrs

Dev. 1/2° @ 500'  
1 ° @ 1000'  
1-1/4° @ 1573'

Dr1g (11 3/4 hrs) Trip (4 1/2 hrs)

11-20-71 ø 2226 w/bit #2

Mud Properties: Vis 52, Wt 9.2, WL 7.6

Dr1g (7 3/4 hrs) Trips (3 3/4 hrs) Rig service (1/4 hr)



CHRONOLOGICAL LOG - CONTINUED

- 11-20-71 Continued  
Condition mud (4 hrs) Logging (3/4 hr) Drillstem  
Test (6 3/4 hrs) Misc (3/4 hr)
- 11-21-71 ø 3099' w/bit #4  
Bit #2 - OSCIG - 931' - 13 3/4 hrs  
Bit #3 - S4TG - 572' - 13 hrs  
  
Dev. 3/4" @ 2024'  
1/2" @ 2504'  
1/4" @ 3076'  
  
Drlg (18 1/2 hrs) Trips (5 1/4 hrs) Rig service (1/4 hr)
- 11-22-71 ø 3730' w/bit #5  
Bit #4 - S4TG - 492' - 14 1/4 hrs  
  
Dev. 1" @ 3568'  
  
Mud Properties: Vis 35, Wt 9.1, WL 9.8  
  
Drlg (20 1/4 hrs) Trips (3 1/4 hrs) Rig service (1/4 hr)  
Misc (1/4 hr)
- 11-23-71 TD 4188' Trip for Bit #7  
Bit #5 - OSCIG - 486' - 18 hrs  
Bit #6 - S-88(RR) - 134' - 6 1/4 hrs  
  
Mud Properties: Vis 37, Wt 9.3, WL 8.4  
  
Drlg (17 1/2 hrs) Trips (6 1/4 hrs) Rig service (1/4 hr)
- 11-24-71 ø 4324' w/bit #8  
Bit #7 - MMH - 69' - 4 1/2 hrs  
  
Dev. 3/4" @ 4054'  
  
Mud Properties: Vis 66, Wt 9.3, WL 4  
  
Drlg (7 3/4 hrs) Trips (7 1/2 hrs) Rig service (1/4 hr)  
Cond mud & circulate (1 1/2 hrs) Testing (2 3/4 hrs)  
Handle test tools (3 hrs) Circ Samples (1 1/4 hrs)
- 11-25-71 TD 4447 Cond hole for DST #4  
Bit #8 - M4NG - 190' - 12 hrs  
  
Mud Properties: Vis 62, Wt 9.5, WL 5  
  
Drlg (8 3/4 hrs) Trips (7 hrs) Rig service (1/2 hr)  
Cond mud & circulate (2 3/4 hrs) Testing (3 1/2 hrs)  
Circ samples (1/2 hr) Handle test tools (1 hr)

# CHRONOLOGICAL LOG - CONTINUED

11-26-71 TD 4590' Logging  
Bit #9 - OW4 - 143' - 6 hrs

Mud Properties: Vis 64, Wt 9.6, WL 4.2

Drlg (6 hrs) Trips (9 1/4 hrs) Cond mud & circulate (3 hrs)  
Logging (1 1/2 hrs) Testing (2 3/4 hrs) Handle test tools  
(1 1/2 hrs)

11-27-71 TD 4590' Lay down test tools

Trips (7 3/4 hrs) Cond mud & circulate (1 1/2 hrs)  
Logging (10 1/2 hrs) Testing (4 1/4 hrs)

11-28-71 TD 4590' 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	Security	7 7/8	S-3	73'	1573'	1500'	10 1/2
2	Hughes	7 7/8	OSCIG	1573'	2504'	931'	13 3/4
3	Security	7 7/8	S4TG	2504'	3076'	572'	13
4	Security	7 7/8	S4TG	3076'	3568'	492'	14 1/4
5	Hughes	7 7/8	OSCIG	3568'	4054'	486'	18
6	Security	7 7/8	S-88(RR)	4054'	4188'	134'	6 1/4
7	Reed	7 7/8	MMH(RR)	4188'	4257'	69'	4 1/2
8	Reed	7 7/8	M4NG	4257'	4447'	190'	12
9	Hughes	7 7/8	OW4(RR)	4447'	4590'	143'	6

TOTAL ROTATING HOURS - 98 1/4

## DEVIATION RECORD

<u>No.</u>	<u>Depth</u>	<u>Degree</u>	<u>Date</u>
1	500'	1/2°	11-18-71
2	1000'	1°	11-19-71
3	1573'	1-1/4°	11-19-71
4	2024'	3/4°	11-20-71
5	2504'	1/2°	11-21-71
6	3076'	1/4°	11-21-71
7	3568'	1°	11-22-71
8	4054'	3/4°	11-23-71

## ELECTRICAL SURVEY CALCULATIONS

<u>Formation</u>	<u>Depth</u>	<u>Porosity</u>		<u>Rw</u>	<u>Water Saturation</u>	<u>Q</u>
		<u>Acoustilog</u>	<u>Densilog</u>			
Dakota Burro Canyon	4536'	16%	22%	1.2	87%	.12
Dakota Burro Canyon	4510'	16%	18%	1.0	100%	0
Dakota Burro Canyon	4497'	25%	12%	1.0	98%	.25
Dakota "D"	4476'	10%	10%	1.2	100%	---
Dakota "D"	4468'	12%	17%	1.2	100%	---
Dakota "D"	4458'	12%	17%	.35	100%	---
Dakota "D"	4435'	12%	12%	.35	100%	---
Dakota "B"	4354'	18%	18%	.22	83%	---
Dakota "A"	4312'	10%	10%	.22	100%	---
Dakota "A"	4263'	15%	18%	.22	100%	---
Menefee	1923'	16%	16%	2.0	100%	---
Menefee	1915'	27%	25%	2.0	91%	.07
Menefee	1898'	26%	22%	2.0	100%	.15

Rw's calculated

## DRILLSTEM TEST RECORD

SP DST #1: 1890'-1950' (Menefee)

Open 15 minutes: fair blow

Shut In 30 minutes:

Open 60 minutes: fair blow dec to weak blow

Shut In 60 minutes:

Recovered: 1080' muddy fresh water, No Show  
Rw 6.0 @ 80°F, Chlorides 650 ppm

Initial hydrostatic pressure	901 psi
Final hydrostatic pressure	901 psi
Initial flow pressure (1)	53 psi
Final flow pressure (1)	212 psi
Initial flow pressure (2)	239 psi
Final flow pressure (2)	505 psi
Initial shut in pressure	--
Final shut in pressure	--

Bottom Hole Temperature - 78°F

DRILLSTEM TEST RECORD - CONTINUED

DST #2: 4227'-4257' (Dakota "A") (4223-53 Adjusted to logs)

Open 15 minutes: very weak blow  
Shut In 30 minutes:  
Open 60 minutes: no blow  
Shut In 60 minutes:

Recovered: 140' mud, No Show

Bottom Hole Sampler: 2200 cc mud, N-S  
Rw 7.0 @ 70°F  
Chlorides 750 ppm  
25 psi, 118°F

Initial hydrostatic pressure	2118 psi
Final hydrostatic pressure	2118 psi
Initial flow pressure (1)	46 psi
Final flow pressure (1)	92 psi
Initial flow pressure (2)	102 psi
Final flow pressure (2)	130 psi
Initial shut in pressure	827 psi
Final shut in pressure	954 psi

Bottom Hole Temperature - 118°F

DST #3: 4350'-4370' (Dakota "B") (4346-66 Adjusted to logs)

Open 15 minutes: weak blow  
Shut In 30 minutes:  
Open 60 minutes: weak blow thru out test  
Shut In 60 minutes:

Recovered: 300' formation water

Bottom Hole Sampler: 2200 cc water  
Rw .68 @ 60°F  
Chlorides 10,125 ppm  
18 psi, 120°F

Initial hydrostatic pressure	2202 psi
Final hydrostatic pressure	2176 psi
Initial flow pressure (1)	8 psi
Final flow pressure (1)	17 psi
Initial flow pressure (2)	34 psi
Final flow pressure (2)	112 psi
Initial shut in pressure	1868 psi
Final shut in pressure	1790 psi

Bottom Hole Temperature - 120°F

DRILLSTEM TEST RECORD - CONTINUED

DST #4: 4432' - 4447' (Dakota "D") (4428-43 Adjusted to logs)

Open 15 minutes: weak to strong blow air  
Shut In 30 minutes:  
Open 60 minutes: weak to strong blow dec to weak blow  
45 minutes

Recovered: 1450' slightly gas cut water

Bottom Hole Sampler: 2200 cc water, trace gas  
Rw 1.3 @ 75°F,  
Chlorides 4250 ppm  
70 psi, 120°F

Initial hydrostatic pressure	2264 psi
Final hydrostatic pressure	2220 psi
Initial flow pressure (1)	8 psi
Final flow pressure (1)	258 psi
Initial flow pressure (2)	310 psi
Final flow pressure (2)	602 psi
Initial shut in pressure	1938 psi
Final shut in pressure	1938 psi

Bottom Hole Temperature - 120°F

SP DST #5: 4460'-84' (Dakota "D")

Open 15 minutes: weak blow inc to fair blow  
Shut In 30 minutes:  
Open 60 minutes: weak blow inc to fair blow  
Shut In 60 minutes:

Recovered: 518' formation water

Bottom Hole Sampler: 2200 cc water, N-S  
Rw 1.28 @ 75°F  
Chlorides 4250 ppm  
20 psi, 123°F

Initial hydrostatic pressure	2246 psi
Final hydrostatic pressure	2193 psi
Initial flow pressure (1)	8 psi
Final flow pressure (1)	86 psi
Initial flow pressure (2)	94 psi
Final flow pressure (2)	215 psi
Initial shut in pressure	1921 psi
Final shut in pressure	1912 psi

Bottom Hole Temperature - 123°F

## SUMMARY

This well was spudded November 17, 1971, and plugged and abandoned November 27, 1971. The well was drilled to a total depth of 4586' Logger: 4590' Driller, in the Morrison formation of Jurassic age. A total of 98 1/4 rotating hours were required for the drilling of this test.

All formations from 1650' to 4590' (Driller TD) were evaluated by (1) careful examination of rotary cuttings from 1650' to TD by a geologist in the field; (2) the entire stratigraphic section was evaluated by qualitative and quantitative analysis of the electrical surveys. A show of oil was noted in the Menefee formation (1890-1950) and the Dakota "A" zone (4223-53). Each of these intervals were subsequently drillstem tested with negative results. The Dakota "B" and Dakota "D" zones were also tested with water recovery on each test.

The well ran structurally 74' higher than the Davis Oil Company: Snake Eyes #1, located in Section 20, Township 21 North, Range 8 West, San Juan County, New Mexico, on top of the Dakota "D" zone.

Rotary samples were saved from 80' to total depth and shipped to the Four Corners Sample Cut in Farmington, New Mexico. A sample of the fluid from each interval tested was sent to Core Lab for complete analysis. An Induction Electrolog and Densilog were run from surface to total depth. An Acoustilog was run over selected intervals.

*Dave M. Thomas Jr.*

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CPG 914