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Toltek Rig #4
Pushers - John
Hennamen &
Stubbs Eliot

ROMAC EXPLORATION COMPANY
No. 18-1 Iliff-Ertle
1500' FNL & 1500' FWL Section 18
T9N-R45W
Logan Co., Colorado

COLO. OIL & GAS CONS. COMM.

1-8-81 Surface - 3 joints - 92' - set & 102' w/150 sx. cement

1-9-81 Spud

Mud

| | |
|-------|------------------|
| 3845' | Vis. 35, Wt. 9.4 |
| 4310' | Vis. 35, Wt. 9.5 |
| 4530' | Vis. 40, Wt. 9.7 |
| 4745' | Vis. 50, Wt. 9.9 |
| 4824' | Vis. 54, Wt. 9.9 |
| 4870' | Vis. 52, Wt. 10 |

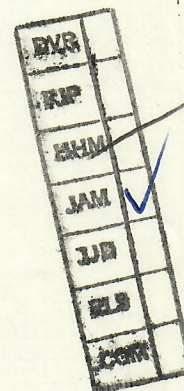
T.D. Driller 5005'
Logger 5003'

Bit Record

| | <u>Size</u> | <u>Make</u> | <u>Type</u> | <u>Depth out</u> | <u>Feet</u> | <u>Hours</u> | <u>Dev.</u> |
|---|-------------|-------------|-------------|------------------|-------------|--------------|-------------|
| 1 | 7 7/8 | STC | DTJ | 3568 | 3466 | 22 1/2 | 1° |
| 2 | 7 7/8 | STC | DTJ | 4722 | 1154 | 28 3/4 | 1 1/2° |
| 3 | 7 7/8 | SEC | MANJ | 4824 | 102 | 16 | 1 1/2° |
| 4 | 7 7/8 | STC | F2Button | 5000 | 176 | 17 1/4 | |

Electric Log Tops

| <u>Fm.</u> | <u>Depth</u> | <u>Datum</u> |
|------------|--------------|--------------|
| Niobrara | 3756 | +235 |
| Carlisle | 4112 | -121 |
| Greenhorn | 4340 | -349 |
| "D" sand | 4590 | -599 |
| "J" sand | 4690 | -699 |
| "F" sand | 4918 | -927 |
| "O" sand | 4966 | -975 |
| T.D. | 5003 | -1012 |



ROMAC EXPLORATION COMPANY
No. 18-1 Iliff-Ertle
1500' FNL & 1500' FNL Section 18
T9N R52W
Logan Co., Colo.
Est. KR 3088

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COLO. OIL & GAS CONS. COMM.

| | |
|------|--|
| 4110 | Dark brown speck. Niobrara shale |
| 4140 | Inc. amount dark gray shale w/inoc. prisms |
| 4170 | As above |
| 4200 | Inc. amount light brown Niobrara shale |
| 4230 | Inc. amount dark gray shale |
| 4260 | W/pyrite & inoc. prisms |
| 4290 | W/slight amount bentonite |
| 4320 | Dark gray fissile shale w/pyrite |
| 4350 | Dense brown Greenhorn ls. w/stain |
| 4380 | As above, inc. amount slt. & v.f.g slty sandstone, no p. & p., no stain |
| 4410 | As above |
| 4440 | Inc. amt. dark gray fissile shale |
| 4470 | Inc. amt. white bentonite |
| 4490 | As above |
| 4500 | Dark gray fissile shale |
| 4510 | As above, inc. slty |
| 4520 | W/slight amount glau. shale |
| 4530 | W/slight amount glau. shale |
| 4540 | As above |
| 4550 | Black fiss. shale |
| 4560 | Ss. v.f.g., no vis. stn, no p. & p., no fluor., no stn. |
| 4570 | Dark gray fiss. shale |
| 4580 | As above |
| 4590 | Ss., v.f.g., sli. p & p., sli. vis. stn., v. dull fluor. |

- 4600 Ss., v.f.g., hard & tite, v. sli. dull fluor.
- 4610 As above, inc. amount bent.
- 4620 Fred. dark gray slty. shale
- 4630 Inbd. w/v.f.g. ss., sli. dull fluor., no vis. stn.
- 4640 Dark gray fiss. shale
- 4650 As above
- 4660 As above
- 4670 Dark gray fiss. shale
- 4680 As above
- 4690 Dark gray fiss. shale, grading to v.f.g. ss., v. hard & tite, no p. & p., no vis. stn. or fluor.
- 4700 Ss., v.f.g., v. hard & tite, no vis. stn. or fluor.
- 4710 Ss., v.f.g., sli. p. & p., no vis. stn. or fluor.
- 4720 Inc. amount dark gray shale
- 4730 Dark gray shale, sli. slty., no show
- 4740 As above w/pyr., no show
- 4750 Inc. amount f.g. ss., sli.-fair p. & p., no vis. stn. or fluor., v. Pent.
- 4760 As above
- 4770 Ss., f.g., f.-g. p. & p., no vis stn., no fluor.
- 4780 As above
- 4790 Black fiss. shale
- 4800 As above w/bent.
- 4810 Black fiss. shale
- 4820 No samples
- 4830 Dark gray slty. shale
- 4840 As above

4850 Shale, inc. carbonaceous
4860 As above
4870 V. poor samples
4880 As above
4890 Dark gray fiss. shale
4900 As above
4910 Ss., v.f.g., v. slty., v. sli. p. & p., no vis. stn.,
no fluor.
4920 As above
4930 As above
4940 Inc. amount dark gray shale
4950 Inhd. brown & black shale, inc. slty., as above
4954 Drilling break
4960 Dark gray slty. shale w/pyr., sli. inc. in slt.
4970 Ss., v.f.g., f. vis. stn., g. cut & fluor.
4980 Ss., v.f.g., spotty stn., p. fluor & cut
4990 Dark gray fiss. shale & v.f.g. ss., v. sli. p & p
5003 T.D.