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GEOLOGICAL COMPLETION REPORT
BOARDMAN-EXETER
No. 1 GILBERT

Location: NW NE (760' FN & 2080' FE) Section 31, Township 3 South, Range 55 West, 6th P.M., Washington County, Colorado.

Type: Wildcat.

Spud Date: October 29, 1970 at 9:30 A.M. Plug down at 12:45 P.M. Drilled out under surface at 4:45 P.M., October 29, 1970.

Status: P. & A. Made T.D. 8:00 P.M., November 1, 1970. Plugged November 2, 1970 with 15 sacks across bottom and 10 sacks at top of surface casing.

Elevation: 4844' Ground, 4852' Kelly Bushing.

Casing: 80.6' of 8-5/8" set @ 90.6 K.B. with 90 sacks, 3% C.C.

Total Depth: 5060' Driller, 5063' Logger.

Mud: Chem-gel with detergent. Drilled the "J" with viscosity of 60, weight 9.8 and water loss 4.4.

Cores & DST: No cores.

Logs: Schlumberger: Induction-Electric 5063' to 90'

Drilling Time: Eastman-Star

Contractor: Exeter Drilling and Exploration Company, Denver, Rig No. 6
Tool Pusher: Bill Brown Drawworks: Bethlehem
Pump: Bethlehem Derrick: Lee C. Moore, double

Samples: 30 foot from 3940' to 4910'; 5 foot to 4980'; 10 foot to 5060'. Samples retained by Operator.

Deviation: 1/4° at 519', 1/2° at 1510', 1-3/4° at 2802', 1° at 4108', 3/4° at 4368'

Bit Record:	Bit No.	Size	Make	Type	Depth Out	Footage	Hours
	RR	12 1/4"	Smith	DT	110		2-1/2
	1	7-7/8"	Reed	YT3A	2802	2712	18-1/4
	2	7-7/8"	Reed	YT 3	4368	1566	18-3/4
	3	7-7/8"	Smith	DT	4962	594	16-3/4
	4	7-7/8"	HTC	OWV	5060	98	7-1/4

GEOLOGICAL INFORMATION

Formation Tops:	Schlumberger	Datum (4852 KB)
Cretaceous		
Niobrara	3962	+ 890
Fort Hays	4434	+ 418
Codell	4478	+ 374
Carlile	4486	+ 366
Greenhorn	4586	+ 266
"X" Bentonite	4809	+ 43
"D" Sandstone	4902	- 50
"J" Sandstone	4953	- 101
T.D. in "J" Sandstone	5063	- 211

Samples were examined under a binocular microscope with a 9X lens. Sandstone samples were examined for fluorescence and cut with carbon tetrachloride and an ultra violet light. All samples were examined wet and

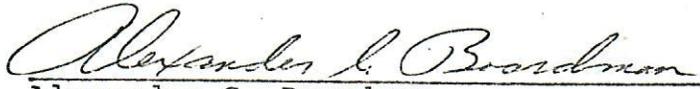
are not corrected for lag. Niobrara through Greenhorn is described from the first sample containing same.

- 4000 - 4030 Niobrara - Shale, light to dark gray with chalk specks.
- 4420 - 4450 Fort Hays - Limestone, light gray to white, microcrystalline with translucent inclusions.
- 4540 - 4570 Codell - Siltstone, gray, salt and pepper with glauconite, slightly friable, fair porosity, no shows, wet.
- 4540 - 4570 Carlile - Shale, mouse gray, micaceous.
- 4600 - 4630 Greenhorn - Limestone, light to dark brown, microcrystalline, fragmental.
- 4910 - 4915
(4902' log) "D" Sandstone - Sandstone, fine grain, light gray, hard, some rose quartz, poor porosity and sandstone, very fine grain, silty, gray, brittle, poor porosity, no fluorescence, no cut, wet.
- 4915 - 4920 Sandstone, fine grain, subangular, fair porosity, no shows, wet.
- 4920 - 4930 Sandstone, very fine grain, silty, few dark minerals, hard, no shows.
- 4930 - 4940 Sandstone, as above with some fine to medium grain, sub-rounded, rose quartz and glauconite, fair porosity, no shows, wet.
- 4940 - 4952 Shale, dark gray to black.
- 4952 -
(4953' log) "J" Sandstone - 15 and 30 minute circulated - Sandstone, fine grain, subangular, dark minerals and glauconite, very hard, poor porosity, no fluorescence, no cut, wet.
- 4962 - 20 minute circulated - Sandstone, very fine grain, silty, gray, hard, poor porosity, no shows. 40 minute circulated - Sandstone, fine to medium grain, subangular, glassy, rose quartz, dark minerals, slightly friable, fair to good porosity, no fluorescence, no cut, wet.
- 4962 - 4970 Shale, cave.
- 4970 - 4980 Sandstone, fine grain, subangular, dark minerals and glauconite, fair porosity, no shows, no cut, wet.
- 4980 - 4990 Sandstone, as above with slight clay matrix and sandstone fine grain, silty, gray, hard, dark minerals, poor porosity no fluorescence, no cut, wet.
- 4490 - 5000 Sandstone, as last above.
- 5000 - 5010 Sandstone, fine grain, subangular, brown, clay filled, poor porosity, no shows, wet.
- 5010- 5020 Sandstone, as above.
- 5020 - 5040 Sandstone, very fine grain, silty, gray, few dark minerals, poor porosity, no shows.
- 5040 - 5050 Sandstone, as above, hard, no shows.
- 5050 - 5060 Shale, dark gray.
- 5060 - Sandstone, 20 and 40 minute circulated - Sandstone, fine grain, subangular, dark minerals, hard, poor porosity, no fluorescence, no cut, wet.

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I N F O R M A T I O N

The "J" at this location is higher than the three nearest "J" tests. The Upper "J" is hard and impermeable. A DST was not recommended due to the lack of oil shows in the "J" and the confirming low log resistivities. If either had been positive a DST would have been taken.



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