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GEOLOGICAL REPORT

COLO. OIL & GAS CONS. COMM.

Prospect: Noonan Ranch

Operator: The Anschutz Corporation, Inc.

Farm: No. 2 Noonan

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 14, Township 3 South, Range 59 West
Adams County, Colorado

Elevation: 5145' ground, 5155' KB

Contractor: Murfin Drilling Company, Denver, Colorado

Spud date: May 12, 1969

Completion date: May 23, 1969

Casing: 8-5/8" @ 105' with 90 sacks

Total depth: 6250 feet

Status: Dry hole

Surveys: Dresser-Atlas Induction Electrolog surface to total depth.
Dresser Atlas Density-Minilog-Caliper 6000 feet to
total depth.

Cores: Core No. 1, 6120 feet to 6145 feet

Drill Stem Tests: None

Samples: None saved



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Electric Log Tops

	<u>Sample</u>	<u>Log</u>
Bentonite marker		6020
"D" sandstone	6117	6117 (-962)
"J" sandstone	6170	6172 (-1017)
Total depth	6250	6248

Deviation Surveys

<u>Depth</u>	<u>Deviation</u>
615'	1/4°
1207'	1/4°
2215'	1/2°
3250'	3/4°
5691'	1/2°
6250'	1/2°

Bit Record

<u>Size</u>	<u>Type</u>	<u>Depth Out</u>	<u>Feet</u>	<u>Hours</u>
1. 7-7/8	Varel V3S	2230	2230	14-1/4
2. 7-7/8	Varel V3SJ	3995	1765	19-1/4
3. 7-7/8	V3SJ	4998	1003	17
4. 7-7/8	V3SJ	5106	108	2-1/2
5. 7-7/8	DTJ	5691	585	17-3/4
6. 7-7/8	V3SJ	6063	372	16-1/2
7. 7-7/8	VH3G	6120	57	2
8. 7-27/32	Diamond Core	6145	25	14-1/2
9. 7-7/8	V-2	6250	104	11-3/4

Mud Program

Mud program was supervised by a Plains Mud Company engineer. Mud properties were controlled with Milgel, phosphate, soda ash and caustic. Well was drilled with water to 4900 feet and with mud for the remainder of the hole. No lost circulation zones were encountered and no oil was added to the mud system. Weight varied from 9.8 to 10.0, viscosity from 41 to 89 and water loss from 5 to 5.8.

Chronological Well History

5/13/69 Spud 5/12/69. Set surface casing.
 5/14/69 Drilling 2825'.
 5/15/69 Drilling 4289'.
 5/16/69 T.D. 5026'. SDR.
 5/17/69 Shut down, rainy weather.
 5/18/69 Shut down, wet ground.
 5/19/69 Drilling 5556'.
 5/20/69 Drilling 5842'.
 5/21/69 Drilling 6062'.
 5/22/69 Coring 6143'.
 5/23/69 T.D. 6250'. P&A.

Cores

Core No. 1, 6120 feet to 6145 feet.

Cut and recovered 25 feet.

Coring time: 16 - 16 - 13 - 18 - 35 - 17 - 19 - 21 - 18 - 18 -
 40 - 44 - 40 - 32 - 31 - 38 - 45 - 44 - 75 - 53 -
 56 - 30 - 57 - 26 - 32.

6120-6130 feet - Shale, dark grey, resinous, micaceous, hard; with lenses, pods and streaks of reworked, fine-grained, clay-filled, tightly-cemented, white to light grey sandstone.

6130-6138 feet - Sandstone, white to light grey, fine to very fine grained, sub-angular, glassy grains, hard, tightly-cemented, poor porosity. No shows.

6138-6145 feet - Shale, black, fissile, soft, carbonaceous.

Log Calculations

<u>Interval</u>	<u>Porosity</u>	<u>S_w</u>	<u>Production</u>
6131-6136 feet	14%	100%	water
6196-6210 feet	24%	95%	water

Drill Stem Tests

None

Sample Descriptions

(corrected to log tops; sample quality good)

- 6050-6117' Shale, dark grey to black, bentonitic, silty in part.
"D" sandstone
- 6117-6120' Sandstone, white, fine grained, tight, no shows.
- 6120-6145' See Core No. 1.
- 6145-6160' Shale, black, soft, carbonaceous.
- 6160-6172' Siltstone, grey, argillaceous, hard.
"J" sandstone
- 6172-6190' Sandstone, white to light grey, argillaceous, with interbedded shale and siltstone, dirty, poor porosity, no shows.
- 6190-6216' Sandstone, white, fine grained, sub-angular clear quartz grains, highly clay filled, poor porosity, no shows.
- 6216-6250' T.D. Interbedded dark grey shale and siltstone.

Remarks

The primary objective of this prospect was the "D" sandstone which produces at the southeast offset from a channel-type environment. The No. 2 Noonan encountered only 21 feet of "D" interval compared to 70 feet at the No. 1 Noonan, the productive offset. This interval was cored and consists of shale, reworked sandstone and shale, and fine-grained, tightly-cemented sandstone with no shows. This lithology and thin interval is indicative of a floodplain-type deposit away from the channel.

The "J" sandstone consists of shale, siltstone and clay-filled sandstone with no shows.

No shows of oil or gas were observed either the "D" or "J" sandstones. Accordingly, the well was plugged and abandoned.

Respectfully submitted,



M. S. Johnson

May 30, 1969

MSJ/lw