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OPERATOR: Maynard Oil Company

WELL NAME: No. 1 Williams

LOCATION: NW SE (1980' FSL & 1980' FEL) of Section 10-T8N-R55W, Logan County, Colorado

ELEVATION: 4281' G.L., 4290' K.B. (Powers & checked with hand level)

CONTRACTOR: Exeter Drilling Northern, Inc., Rig No. 14, Toolpusher: Bob Flinn

SPUDED: December 6, 1977

COMPLETED: December 11, 1977

CASING: 121.22' of 8-5/8" 24# set @ 129.22' KB w/120 sacks cement 2.4% CC

✓ STATUS: Plugged & Abandoned

On December 6, 1977, the subject well spudded at 2:30 PM, set surface casing with plug down at 5:30 PM, and commenced drilling from under the surface casing at 2:00 AM, December 7, 1977.

The following formation tops were encountered during drilling operations (corrected to Schlumberger IES log):

Niobrara	4438'	-148
Carlile	4796'	-506
Greenhorn	4946'	-656
Bentonite	5121'	-831
"D" Sand	5209'	-919
"J" Sand	5306'	-1016
Massive Sand	5324'	-1034
Total Depth	5381' Driller	
	5380' Schlumberger	

Drilling samples of the "D" Sand were examined for lithology and shows of oil and/or gas. The entire sand section, 5209-5250', was barren of fluorescence, stain or oil cut and interbedded and reworked with shale, silt and pyrite.

The top bench of the "J" Sand was a fine grained, hard, tight sand without shows of oil and/or gas. The second bench of the sand was the same with a faint fluorescence until dried which brought out a dull gold fluorescence, light stain and good oil cut. This show was evaluated as a tight oil show that did not warrant testing unless the electrical logs indicated the presence of porosity and permeability. The Massive Sand was porous and water wet grading to tight and clayfilled. The sand was barren of shows of oil and/or gas.

On December 11, 1977, a Schlumberger IES log was run from total depth to the base of the surface casing and a FDC-GR log was run through the "D" and "J" sands. The logs indicated that the subject well was structurally lower than anticipated and substantiated the description of the samples. Analysis of various zones in the "D" and "J" sands showed the sands had low porosity and were either tight and/or water-wet.

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A study of the drilling and electrical log data convinced the under-signed well site geologist that the subject well was not capable of producing oil and/or gas.

Permission to plug the No. 1 Williams with 20 sacks of cement across the base of the surface casing and 10 sacks in the top was obtained from the Colorado Oil & Gas Conservation Commission on December 11, 1977.

A handwritten signature in cursive script, reading "Richard A. Lisman", is written over a horizontal line.

Richard A. Lisman  
Petroleum Geologist  
Consultant



SAMPLE DESCRIPTION

(Adjusted to Schlumberger IES log)

- 4400-4438' Shale, lt-drk gry-blk, soft to splinty w/abundance bentonite & pyrite
- 4438-4462' Shale, lmy, speckled with calc. inclusions and shell frags. Typical Niobrara (Top of Niobrara by samples & drilling time @ 4431'; IES @ 4438')
- 4462-4620' Shale, w/ stringers of bentonite & pyrite xyls
- 4620-4700' Shale, bentonite, pyrite & streaks of hrd fg brn-gry-tan siltstone
- 4700-4752' Shale, silty & calc. w/bentonite & pyrite
- 4752-4778' Shly lm w/xyln streaks, some fg glauconitic sand (Ft Hayes Fm.)
- 4778-4796' Shale, w/interbedded qtz. grains, subround-round & frosted (Codell Sand)  
No Show
- 4796-4900' Shale, w/beds of bentonite & pyrite xyls (Top Carlile by drilling time @ 4798'; IES @ 4796')
- 4900-4946' Shale, as above
- 4946-4956' Limestone, brn-mottled, fossils, xyln, hrd, dns (Top Greenhorn by drilling time @ 4949'; IES @ 4946')
- 4956-5120' Shale, bentonite, pyrite & silt
- 5120-5210' Shale, as above, w/abundance bentonite & pyrite
- 5210-5250' Sand, vfg-fg-mg, gry-wht-tan, tight, hrd grading to streaks of clean wht porous sand but mostly tight interbedded & rworked with shale. No shows (Top "D" by samples & drilling time @ 5205'; IES @ 5209')
- 5250-5288' Shale & siltstone w/stringers of bentonite & pyrite
- 5288-5306' Siltstone, gry-tan, fg, hrd, w/beds of pyrite and bentonite ("J" silt)
- 5306-5311' As above.

CIRCULATE @ 5311'

- 15 min Sand, fg-mg, poor porosity grading to v. tight, hrd, no fluorescence, stain or oil cut
- 30 min Sand, as above, almost quartizitic, no show
- 45 min Sand, as above, no show
- 60 min Sand, as above, no show

- 5311-5320' As above, no show
- 5320-5330' Sand, fg-mg, wht-tan, tight, lt scattered gold fluorescence, scattered lt-drk stain. Drying samples brought out even gold fluorescence, good stain & oil cut. Classified as a good tight show of oil.
- 5330-5381' Sand, as above, without show grading to clayfilled w/ a few streaks of fair porosity.

CIRCULATED @ 5381' (TD)

To condition hole & mud for logging & a bottom hole sample.

- 60 min Sand, as above, no show



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DRILL BIT RECORD

<u>Run No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours</u>
1	7-7/8"	Smith	DTJ	3069'	2939'	18
2	7-7/8"	SEC	S3-J	4757'	1688'	18
3	7-7/8"	HTC	OSC-3J	5228'	471'	10
4	7-7/8"	HTC	OW4-J	5311'	82'	9
5	7-7/8"	HTC	JD-4	5381'	70'	18½

DEVIATION

<u>Depth</u>	<u>Degree</u>
567'	¼
1064'	½
1565'	½
2567'	¾
3069'	1
3504'	¾
4037'	1
4537'	1
4757'	2½
5229'	1
5381'	1