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COLO. OIL & GAS CONS. COMM.

GEOLOGICAL WELL REPORT

ROBERT E. LANDRETH

No. 1 Irene Jantzen

NE SW Section 32-T2N-R54W

Washington County, Colorado

WELL DATA

OPERATOR: Robert E. Landreth  
WELL NAME: No. 1 Irene Jantzen  
LOCATION: 1980' FSL & 1980' FWL  
Section 32-T2N-R54W  
Washington County, Colorado  
ELEVATION: 4595' GL, 4605' KB  
SURFACE CASING: 8-5/8 set at 95'  
COMMENCED: January 31, 1979  
COMPLETED DRILLING: February 6, 1979  
STATUS: Plugged and Abandoned  
CONTRACTOR: Toltek Drilling Company  
ELECTRIC LOGS: Schlumberger IES & FDC  
w/GR & Caliper  
TESTING: No DST  
TOTAL DEPTH: 5020' Driller, 5030' Electric Log

DVR	
FJP	
HWM	
JAM	✓
JJD	✓
RLS	
CBM	

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FORMATION TOPS

(Electric Log)

Niobrara Limestone	4040
Fort Hays Limestone	4430
Codell Sandstone	4480
Greenhorn Limestone	4568
Graneros Shale	4648
Bentonite Marker	4802
"D" Sandstone	4888 (-283)
"J" Sandstone	4967 (-362)
Total Depth	5030

BIT RECORD

<u>Bit No.</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>Depth Out</u>	<u>Feet</u>	<u>Hours</u>
1	Reed	7-7/8	J-12	3047	2948	20-1/2
2	STC	7-7/8	DTJ	4533	1486	19-1/2
3	Reed	7-7/8	Y-12	4965	432	16
4	HTC	7-7/8	OSC1GJ	5020	55	7-3/4

DEVIATION

<u>Depth</u>	<u>Degrees</u>
3047	3/4
4532	1-1/2
4600	1-1/2
4965	1/2

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SAMPLE DESCRIPTION

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"D" Sand (4880' drilling break)

- 4890 - 4895 Sandstone, light gray to tan, very fine to medium grained, poorly sorted, silty, argillaceous, abundant intergranular clay, calcareous in part, poor to no porosity and permeability, no show.
- 4895 - 4900 Sandstone, light gray, fine grained, clay filled, poor porosity and permeability, no show.
- 4900 - 4905 Sandstone, light gray, fine grained, argillaceous, no visible porosity, no show.
- 4905 - 4910 Sandstone, light gray, fine grained, some fairly clean with fair to good porosity, no show.
- 4910 - 4915 Sandstone, light gray, fine grained, carbonaceous, fair to good porosity, no show.
- 4915 - 4920 Sandstone, light gray, fine grained, silty in part, slightly carbonaceous, poor to good porosity and permeability, no show.
- 4920 - 4925 Sandstone, as above.
- 4925 - 4930 Sandstone, light gray, very fine to fine grained, silty, carbonaceous, poor porosity and permeability, no show.
- 4930 - 4935 Sandstone, as above, with scattered fair porosity, no show.
- 4935 - 4940 Sandstone, light gray, very fine to fine grained, silty, carbonaceous, poor porosity and permeability, no show.
- 4940 - 4945 Shale, dark gray. Some sandstone, as above.
- 4945 - 4950 Shale, dark gray. Trace of sandstone.
- 4950 - 4960 Shale, as above.
- 4960 - 4965 Shale, dark gray. Trace of sandstone, gray, fine grained, dirty, poor porosity and permeability, no show. (cavings)?

"J" Sand

- 4965 Circulate for samples.  
15 minutes: Sandstone, light brown, gray, fine to medium grained, carbonaceous, dirty, hard,

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quartzitic, poor to no porosity and permeability,  
no show.

30 minutes: Shale, dark gray. Some sandstone, as  
above.

45 minutes: Same as above.

- 4965 - 4970 Shale, dark gray. (mostly cavings)
- 4970 - 4972 As above, with trace of sandstone, light brown,  
fine to medium grained, fairly clean, fair to good  
porosity and permeability, no show.
- 4972 - 4975 Sandstone, light brown, light gray, fine to medium  
grained, rounded, slightly carbonaceous, fair to  
good porosity and permeability, no fluorescence or  
cut.
- 4975 - 4980 Sandstone, light gray to tan, mostly fine grained,  
fairly clean, fair porosity and permeability, no  
show. Some interbedded light gray carbonaceous  
siltstone.
- 4980 - 4985 Sandstone, light gray, very fine to fine grained,  
silty, carbonaceous, mostly poor porosity, some  
fair, abundant pyrite, no show.
- 4985 - 4990 Sandstone, light gray, very fine grained, silty,  
poor porosity and permeability.
- 4990 - 5000 Sandstone, light gray, very fine to fine grained,  
scattered porosity and permeability, no show.
- 5000 - 5005 Shale, dark gray. Trace of sandstone, as above,  
abundant white bentonite.
- 5005 - 5010 Sandstone, white to light gray, fine grained, poor  
to fair porosity, abundant white bentonite.
- 5010 - 5020 Sandstone, white, fine to medium grained, inter-  
granular white bentonitic clay, poor to fair  
porosity and permeability, no show.

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