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GAS CONS. COMM.



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SCANNED

GEOLOGICAL REPORT

ARGENTIA CORPORATION 1-20 LOHF STATE

C N/2 NW 20 - 2N-57W

Wellsite Geologist:

Tom Pfleeger

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OPERATOR: Argentia Corporation
WELL: 1-20 Lohf State
Location: 660'FNL and 1320'FWL, Sec. 20- 2N-57W
COUNTY: Morgan
STATE: Colorado
PROSPECT: Lohf
ELEVATIONS: FL 4397, KB 4407'
SURFACE CASING: 8-5/8" @ 128'
HOLE SIZE: 7-7/8"
TOTAL DEPTH: Driller 5601', Logger 5570'
COMMENCED: 1-14-86
COMPLETED: 1-18-86
DRILL STEM TEST: Liberty Testers 5460'-5474' "D" Sand
LOGS: Dresser IL and CDL
CONTRACTOR: Gear Drilling - Rig #2
PLUGGING DATA: 10 sx top surface casing; 20 sx base surface casing
PRODUCTION: P&A

FORMATION TOPS

Niobrara	4698' (-291)
Ft. Hays	5017' (-610)
Carlile	5064' (-675)
X-Bentonite	5362' (-955)
"D" Sand	5454' (-1047)
"J" Sand	5528' (-1121)
T.D.	5601'

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MUD RECORD

Diamond Mud Drilling CO.

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<u>Date/Time</u>	<u>Depth</u>	<u>Weight</u>	<u>Funnel Viscosity</u>	<u>Filtrate API</u>
1-10-86	Drilling with water			
1-17-86	5470'	9.8	40	5.9
1-18-86	No Report			

BIT RECORD

<u>Bit#</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Serial#</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hrs.</u>
1	7-7/8	Smith	DTJ	E11148	3600	3470	18.00
2	7-7/8	DTJ	DTJ	F24279	4975	1375	14.50
3	7-7/8	DTJ		EW8596	5558	583	12.75
4	7-7/8	Hughes	RT	RR	5601	43	3.00
							48.25

DEVIATION SURVEYS

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
513'	1/4°	3564'	2°
1010'	1/2°	4059'	2-1/2°
1509'	1/2°	4339'	1-3/4°
2007'	3/4°	4712'	1-1/4°
2538'	1°	4975'	3/4°
3062'		5558'	1°

DRILL STEM TESTS

Liberty Testers

Straddle Test 5460' - 5474'

Open 120 min. Shut-in 60 min.

FP 53-71# FSIP 910# IH 2897# FH 2738#

Opened tool for 120 min. Final flow with very weak blow. Slowly increased to 1" blow and stablizes until end of flow. Closed for 60 min. shut-in. Recovered 20' slightly oil and water cut mud, 120' water with specks of oil.

SAMPLE DESCRIPTIONS - (adjusted induction log)

"D" Sand	5454-64'	Siltstone, med. grey, fine grained, glauconitic and carbonaceous, visible open pore throats some clusters, no - fair porosity and permeability,
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"D" Sand (cont'd.)		oil stain and yellow-green fluorescence, moderately milky green streaming out for approximately 1 minute, orange fluorescent cut ring.
"J" Sand	5528-40	Sandstone, white, fine grained, poor - fair porosity and permeability, clay filling, glauconitic. Oil stain and green fluorescence on 20% of clusters. Moderate streaming cut from clusters with fluorescence, light green fluorescent cut ring.
	5540-TD	Sandstone, white, no - poor porosity and permeability, fine grained, clay filled, no shows.

DISCUSSION

The Lohf State #1-20 was plugged and abandoned on January 18, 1986, after a drill stem test of the "D" Sand failed to recover commercial quantities of oil. Minor oil shows in the upper "J" Sand were not considered significant as Sw calculations for the interval indicated water saturation in the +80% range.


Tom Pfleeger, Geologist
January 23, 1986