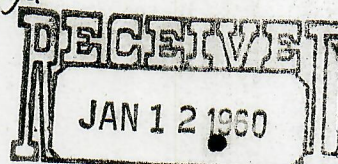




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GEOLOGICAL REPORT

Vaughney and Vaughney #1 GLEN E. WILLEFORD

OIL & GAS
CONSERVATION COMMISSION

LOCATION: 1920' N/S Line, 720' W/E Line (NE SE) Section 29
Township 12 North, Range 53 West, Logan County, Colorado

ELEVATION: 4659' Ground (Surveyed)
4667' K.B. (Estimated)

SPUD DATE: December 26, 1959

COMPLETION DATE: January 3, 1960 - DRY AND ABANDONED

SURFACE CASING: 142' 8 5/8", cemented w/175 sacks cement.

CONTRACTOR: McDaniels Drilling Company
Richard Rodon, Toolpusher

DRILLING HISTORY:

12/24/59 Moved in, rigging up
12/25/59 Christmas Day
12/26/59 Drilled surface hole, ran 4 joints 8 5/8" surface casing (135'), landed @ 142', drilled from 142' to 2685'

12/27/59 Drilled 7 7/8" hole from 2685' to 3970'
12/28/59 Drilled 7 7/8" hole from 3970' to 5180'
12/29/59 Drilled 7 7/8" hole from 5180' to 5484'
12/30/59 Drilled 7 7/8" hole from 5484 to 5488', dropped 3 cones in hole, fishing, recovered 2 cones and some bearings, went back in hole and drilled 7 7/8" hole from 5488' to 5496'
12/31/59 Drilled and conditioned hole for coring, taking Core No. 1 from 5496' to 5536', Core barrel jammed, coming of hole w/core barrel recovered, laying down core barrel
1/1/60 Snowed in
1/2/60 Ream core hole, drilled 7 7/8" hole from 5536' to 5628', circulating for log, coming out of hole for log, logging, going in hole to plug.
1/3/60 Plugged well w/35 sacks across face of surface, 15 sacks at bottom of surface and 10 sacks at top.

BIT RECORD:

Size	Make	Type	From	To	Footage
7 7/8"	HTC	OSC3J	174	3895	3721
7 7/8"	Bit	BT	3895	5180	1285
7 7/8"	HTC	OSC1G	5180	5476	256
7 7/8"	HTC	OWC	5476	5486	10
7 7/8"	HTC	OWC	5486	5496	10
7 7/8"	HTC	OWC	5496	5536 1/2	40 1/2
7 7/8"	HTC	OWC	5536 1/2	5628	91 1/2

CORE DESCRIPTION:

All coring was done w/100 Gubroxin, 50 Caustic, 50 Soda Ash
Core Number 1, from 5496' to 5536 1/2'. Cut and Recovered 40 1/2'.

Coring time: 22-23-5-6-22-11-9-7-3-7-12-31-9-13-11-10-9-8-15-9-10-12-12-17-14-17-20-20-17-13-7-3-5-3-1-6-2-4-3

5496' to 5497'	1'	Shale, black
5497' to 5499'	2'	Sandstone and shale, re-worked, no show, no P&P
5499' to 5500'	1'	Sandstone, gray, semi-quartzitic
5500' to 5501'	1'	Shale, re-worked
5501' to 5509'	8'	Sandstone, re-worked, no show, no P&P, streak of quartz
5509' to 5518'	9'	As above, silty
5518' to 5522'	4'	Sandstone and shale, laminated, hard, tight
5522' to 5526'	4'	Shale, black, poker-chipped
5526' to 5530'	4'	Sandstone, white, clay filled, no show, wet, slight P&P
5530' to 5536 1/2'	6 1/2'	lost recovery

CORE ANALYSIS RESULTS:

Sample Number	Depth Feet	Permeability		Porosity	Residual Saturation		Remarks
		Horizontal	Vertical		Oil	Water	
1	5524-27	0.4	0.4	14.6	0.0	87.0	SS, VFG, clay filled
2	5527-28	0.4	0.4	14.2	0.0	85.3	SS, VFG, clay filled

DRILL STEM TEST:

None

FORMATION TOPS:

Schlumberger

Niobrara	4555'
Carlile	4770'
Fort Hays	4848'
Greenhorn	5139'
Bentonite	5282'
"B"	5382'
"C"	5500'
Skull Creek	5500'
Total Depth	5626' 5628' Drill Pipe

REMARKS:

Driller's time record and Driller's Log are available in the files of Vaughney and Vaughney, 1650 Denver Club Building, Denver 2, Colorado

VAUGHNEY AND VAUGHNEY

By Thomas A. Crotser
Thomas A. Crotser
Chief Geologist

TAC:p