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00235035

G E O L O G I C A L R E P O R T

W. P. CARR - STATE NO. 1

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 33, T 8 N., R 51 W.

LOGAN COUNTY, COLORADO

DVR	
FJP	
HHM	✓
JAM	✓
LJD	
GCH	
CGM	✓



Well: State No. 1

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 33, T 8 N., R 51 W.
Logan County, Colorado

Operator: W. P. Carr

Contractor: Snyder Drilling Company
Denver, Colorado

Casing: 219', 24#, 8-5/8" set at 227' K.B., cemented
with 150 sacks cement. Plug down 1:00 A.M.
11-17-76.

Well History: 11-16-76 Spud 6:00 P.M. Ran surface casing.
11-17-76 Drilling at 250'.
11-18-76 Drilling at 2300'.
11-19-76 Drilling at 3900'.
11-20-76 Drilling at 4241'.
11-21-76 Trip for bit #3 at 4581'.
11-22-76 Fishing for cones
11-23-76 Fishing for cones
11-24-76 Drilling at 4630'.
11-25-76 Prep to plug and abandon

Cores: None

Drill Stem Tests: DST #1 "J" Sand straddle test, run after reaching
T.D. of 4650' and logging. Log depths used, T. D.
of 4650' used. Test interval 4596' to 4608'.
Tool open 5", shut in 30", open 90", shut in 30".
Strong blow which diminished toward the end of the
test. Recovered 180' muddy water, 1940' gas cut
water. Resistivity of water 1.5 ohms at 55° F.,
equivalent to 4900 ppm Cl ion.

Initial Hydrostatic pressure	2643#
Final Hydrostatic pressure	2487#
Initial flow pressures	295# to 419#
Final flow pressures	509# to 951#
Initial shut in pressure	1114#
Final shut in pressure	986#

33-8N-51N

Logs: Schlumberger Induction - Electrical Log,
Compensated Formation Density Log Gamma-Gamma

Log Formation Tops:	Formation	Electric Log	Subsea
	Niobrara	3654'	
	Carlile	4447'	
	Greenhorn	4262'	
	Bentonite	4393'	
	"D" Sand	4486'	(-270)
	"J" Sand	4587'	(-371)
	T. D.	4649' Log	
		4650' Driller	

Mud: On the morning of 11-24-76, the mud had the following properties:

Weight	10.0 #/gal.
Viscosity	63 API Funnel
Water Loss	4.4 cc 30"
Filter Cake	2/32"

Bit Record:	No.	Size	Make	Type	Depth Out	Feet	Hours
	1	7-7/8"	HTC	DTJ	1758	1538	10-3/4
	2	7-7/8"	DTJ	DJT	4193	2435	33-1/4
	3	7-7/8"	DTJ	DTJ	4581	388	18-1/4
	4	7-7/8"	DGJ	DGJ	4650	69	5

Deviation Surveys:	Depth	Degrees from Vertical
	1758'	1
	4193'	1

Sample Description: Log depths used.

4450-4486' Shale, black.

4486-4510' Sandstone, very fine grained, white, clay filled, soft, very low porosity, well sorted, wet, no shows, no fluorescence, very slight amount sandstone, fine grained, gray, fair to good porosity, fluorescence in two clusters, good ether cut fluorescence, remainder wet, no shows, no fluorescence.

- 4510-4522' Sandstone, very fine grained, buff to gray, silty, clay filled, low porosity, low permeability, wet, no shows, no fluorescence.
- 4522-4536' Shale, tan, hard, siliceous.
- 4536-4587' Shale, black; pyrite; siltstone, gray, bentonitic shale, gray.
- 4587-4594' Sandstone, gray to white, fine grained to very fine grained, clay filled and silty, dirty, friable, low porosity and permeability, no shows, no fluorescence.
- 4594-4606' Sandstone, fine grained, white, fairly clean, bright yellow fluorescence in 30%, good ether cut fluorescence, no visible stain, good porosity and permeability.
- 4606-4617' Sandstone, fine grained, white, clay filled, poor porosity and permeability, friable, wet, no shows, no fluorescence; shale, black.
- 4617-4650' Sandstone, very fine grained, gray to white, clay filled to clean, friable, wet, no shows, no fluorescence.

Discussion:

This well ran high to the Chancellor hole in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 20, T 8 N., R 51 W., and had sand developed in the same interval which tested gas in the Chancellor hole. The water recovery on drill stem test can only mean that the sands which are correlative, are not in the same reservoir. A very slight show was noted in the samples at the top of the "D" sand, but did not appear prospective on the log, and the well was plugged and abandoned with the verbal permission of Mr. Piro of the Colorado Oil and Gas Commission.

Jack D. Gray
November 26, 1976