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February 8, 1960

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Petro-Lewis, Ltd., & Hickerson-McGulloch Oil Co.  
#1 Schroeder  
C NW SW Section 19, T 2 N, R 57 W,  
Morgan County, Colorado

SCANNED

Elevation:  
Commenced:  
Completed: (D&A)  
Contractor:

4412' GL, 4420' KB  
January 31, 1960  
February 6, 1960  
Lewis Bros., Inc.,  
Rig No. 6

Surface Casing:

89' of 8-5/8" set at 99' KB  
with 100 sacks

LANE WELLS TOPS:

Niobrara	4744'
Fort Hays	5084'
Codell	5109'
Carlile	5119'
Greenhorn	5187'
"D" sand	5523' (-1103')
"J" sand	5610' (-1190')
T.D.	5651'

Driller's and Lane Wells measurements correspond throughout the "D" and "J" sands.

The "D" sand, the primary objective of this wildcat, was cored. No shows of oil or gas were present in the sand which had low to fair porosity. The "J" sand was drilled and had no shows.

Structurally the No. 1 Schroeder was higher than some of the producing "D" sand wells to the south in the Adena Field, and the complete lack of shows is puzzling inasmuch as the top of porosity is about ten feet higher than the original oil-water contact of the field.

The No. 1 Schroeder was abandoned at a total depth of 5651' in the "J" sand.



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### SAMPLE DESCRIPTIONS

Samples were examined and described on location.

5500-5510 Shale, dark gray, and bentonite, white (many cavings).  
5510-5520 Same as above.

#### Top of "D" sand 5524' Driller & Lane Wells

5520-5530 Shale, dark gray. (Circulated 90 minutes) Shale, dark gray with trace Sandstone, fine grained, dirty, low porosity, carbonaceous, no show.

#### Core No. 1 5530-5562' Driller & Lane Wells

5562-5570 Cavings and cuttings from reaming core hole.  
5570-5580 Same as above.  
5580-5590 Shale, dark gray, and Siltstone, gray.  
5590-5600 Shale and Siltstone, as above.  
5600-5605 Shale, dark gray to black, and trace Sandstone, medium grained, gray, quartzitic, low porosity, hard, dirty, no show, and trace Sandstone, fine grained, white, fair sorting, clay filled, very low porosity, no show.

#### Top of "J" sand 5610' Driller & Lane Wells

5605-5610 Shale, dark gray and black, with pyrite, and trace Sandstone, fine grained, white, no show.  
5610-5615 Sandstone, fine grained, white, fair sorting, clay filled, very low porosity, trace glauconitic and fossiliferous, no show.  
5615-5620 Sandstone, as above, no show.  
5620-5625 Sandstone, as above, no show, and Shale, gray.  
5625-5630 Shale, gray, with trace Sandstone as above, no show.  
5630-5635 Shale, gray, with trace Sandstone as above, no show.  
5635-5640 Sandstone, fine to medium grained, gray to white, quartzitic, very low porosity, wet, no stain or fluorescence, clay bonded in part, and Shale, dark gray.  
5640-5645 Sandstone, fine to medium grained, white, poor sorting, quartzitic, carbonaceous, with trace glauconite, low porosity, no show.  
5645-5651 (Circulated 90 minutes) Sandstone as above, no show.

CORE DESCRIPTION

Core No. 1, 5530-5562' Driller and Lane Wells. Recovered 32'.

5530.0 - 5531.5	(1½')	Reworked Sandstone and Shale, hard and tight, approximately 60% Shale, no show.
5531.5 - 5532.5	(1')	Sandstone, fine grained, gray, hard, low porosity and permeability, no show.
5532.5 - 5540.0	(7½')	Reworked Sandstone and Shale, very hard and tight, no show.
5540.0 - 5546.5	(6½')	Sandstone, fine grained, gray, hard, low porosity and permeability, wet, no show, with many thin shale laminations.
5546.5 - 5554.0	(7½')	Interlaminated Sandstone and Shale, hard and tight, no show.
5554.0 - 5558.0	(4')	Sandstone, fine grained, gray, hard, clean, fair porosity and permeability, with few shale laminations, no show.
5558.0 - 5562.0	(4')	Reworked Sandstone and Shale, hard and tight, wet, no show.

CORING TIME

Minutes per foot

5530-5540	12, 7, 6, 8, 9, 7, 8, 3, 7, 5,
5540-5550	4, 5, 3, 3, 3, 4, 5, 5, 3, 3,
5550-5560	5, 4, 6, 7, 3, 4, 5, 5, 4, 4.

BIT RECORD

Bit #1	Smith-DT	7-7/8"	99-3072'
Bit #2	"	"	3072-4237'
Bit #3	"	"	4237-4997'
Bit #4	"	"	4997-5336'
Bit #5	"	"	5336-5530'
	Christiansen	6-1/8"	5530-5562'
Bit #6	Smith-DT	7-7/8"	5530-5562' (Reamed)
"	"	"	5562-5651'

Respectfully submitted,

  
Rolland L. Wonderly