



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Company GINTHER, WARREN & COMPANY Formation AS NOTED Page 2 of 2
Well # 3 UPRR-NOONAN Cores DIAMOND CONVENTIONAL File RP-2-2394
Field NOONAN RANCH Drilling Fluid WATER BASE MUD (OIL ADDED) Date Report 8/28/60
County ADAMS State COLORADO Elevation 5169' KB Analysts DOUG INNES
Location NE SW SW 13-3S-59W Remarks SERVICE NO. 8

CORE ANALYSIS RESULTS
(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL		OIL % VOLUME	TOTAL WATER % PORE		
16	6185-86	10	8.5	9.8	0.0	65.4	(2)	Sandstone, fine grain, light gray, clean.
17	6215-16	1.9	0.9	13.5	5.2	50.4	(2)	Sandstone, white, fine grain, numerous carbonaceous partings.
18	6216-17	2.3	1.3	11.8	0.0	61.9	(2)	Sandstone, white, fine grain, occasional thin carbonaceous partings.
19	6217-18	43	42	11.1	13.5	27.9	(2)	Sandstone, white, fine grain, clean.
20	6218-19	43	42	12.4	12.1	31.4	(2)	Sandstone, white, fine grain, clean.
21	6219-20	41	37	10.1	8.9	16.8	(2)	Sandstone, white, fine grain, clean.
22	6220-21	31	32	12.2	12.3	31.1	(2)	Sandstone, white, fine grain, clean.
23	6221-22	37	40	11.7	10.2	29.9	(2)	Sandstone, white, fine grain, clean.
24	6222-23	51	35	13.0	11.5	30.8	(2)	Sandstone, white, fine grain, clean.
25	6223-24	36	32	11.8	0.0	47.5	(2)	Sandstone, white, fine grain, clean.
26	6224-25	2.8	0.0	6.7	0.0	61.2	(2)	Sandstone, light gray, fine grain, numerous thin shale partings.
27	6225-26	2.3	1.9	10.5	0.0	44.9	(2)	Sandstone, white, fine grain, numerous thin shale partings.
28	6226-27	0.4	0.0	14.6	0.0	58.1	(2)	Sandstone, tan, fine grain, clay filled.

NOTE:

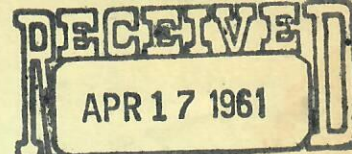
(*) REFER TO ATTACHED LETTER.

(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

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OIL & GAS

CONSERVATION COMMISSION

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		HORIZONTAL	VERTICAL		OIL				TOTAL WATER % PORE
					% VOLUME	% PORE			
"D" SAND									
1	6094-94.5	40	32	16.0	13.1	33.8	(2)	Sandstone, light gray, fine grain, occasional thin carbonaceous partings	
2	6095-96	35	29	14.9	12.1	31.5	(2)	Sandstone, light gray, fine grain, occasional thin carbonaceous partings vertical fracture.	
3	6124-25	15	5.3	11.0	7.3	46.5	(2)	Sandstone, light gray, fine grain, occasional thin carbonaceous partings	
4	6125-26	27	21	16.6	8.4	33.1	(2)	Sandstone, light gray, fine grain, occasional thin carbonaceous partings	
5	6127-28	55	48	17.5	6.9	31.4	(2)	Sandstone, light gray, fine grain, occasional thin carbonaceous partings	
6	6134-35	20	15	15.2	0.0	53.2	(2)	Sandstone, light gray, fine grain, occasional thin carbonaceous partings	
7	6139-40	0.4	0.4	8.3	0.0	49.5	(2)	Sandstone, light gray, fine grain, occasional thin carbonaceous partings	
"J" SAND									
8	6177-78	3.3	3.3	9.7	9.3	44.4	(2)	Sandstone, light gray, fine grain, occasional thin shale partings.	
9	6178-79	2.3	1.9	9.8	7.2	52.0	(2)	Sandstone, light gray, fine grain, occasional thin shale partings.	
10	6179-80	23	18	12.9	9.3	50.5	(2)	Sandstone, light gray, fine grain, occasional thin shale partings.	
11	6180-81	27	21	12.1	9.9	43.0	(2)	Sandstone, light gray, fine grain, occasional thin shale partings.	
12	6181-82	14	12	9.9	7.1	46.5	(2)	Sandstone, light gray, fine grain, occasional thin shale partings.	
13	6182-83	15	13	11.9	10.1	47.0	(2)	Sandstone, light gray, fine grain, occasional thin shale partings.	
14	6183-84	17	9.0	11.1	8.1	39.6	(2)	Sandstone, light gray, fine grain, occasional thin shale partings.	
15	6184-85	6.4	5.3	10.7	8.4	49.5	(2)	Sandstone, light gray, fine grain, occasional thin shale partings.	
		108.0	83.5	88.1	69.4	372.5			
		13.5	10.4	11.0	8.7	46.6			

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