

CORE ANALYSIS RESULTS

DOMESTIC PETROLEUM CORPORATION

SANTA FE NO. 1

WILDCAT

SAN JUAN COUNTY, NEW MEXICO

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

PAGE NO. 1

DOMESTIC PETROLEUM CORPORATION
 SANTA FE NO. 1
 WILDCAT
 SAN JUAN COUNTY

FORMATION : ENTRADA
 DRUG. FLUID: WATER BASE MUD
 LOCATION : SW NE SEC. 20-T21N-R8W
 STATE : NEW MEXICO

DATE : 1-30-77
 FILE NO. : RP-3-2795
 ANALYST : ET
 ELEVATION: 6567' 6L

CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. FLD.	FLUID OIL	SATS. WATER	GR. DNS.	DESCRIPTION
1	5608-9	153	144	22.2	21.1	61.6		SD BRN FG SL/CALC
2	5609-10	729	413	27.4	18.6	61.2		SD BRN FG SL/CALC
3	5610-11	670	650	25.8	24.8	60.4		SD DRK BRN FG SL/CALC
4	5611-12	1143	941	26.6	21.0	61.6		SD DRK BRN FG SL/CALC
5	5612-13	1300	1280	27.6	25.3	62.0		SD DRK BRN FG SL/CALC
6	5613-14	251	86	24.2	21.2	67.2		SD BRN FG SL/CALC
7	5614-15	4.7	2.8	17.9	0.6	86.0		SD LT GY VFG SL/CALC
8	5615-16	325	289	25.8	19.4	67.4		SD BRN FG SL/CALC
9	5616-17	807	788	25.7	13.2	73.6		SD DRK BRN FG SL/CALC
10	5617-18	719	640	25.8	24.1	64.8		SD DRK BRN FG SL/CALC
11	5618-19	526	354	26.6	23.7	63.9		SD DRK BRN FG SL/CALC
12	5619-20	304	198	25.4	9.8	75.3		SD LT GY FG CALC
13	5620-21	222	181	22.1	11.3	81.0		SD LT GY FG SL/CALC
14	5621-22	369	268	22.6	10.6	77.9		SD GY-BRN FG SL/CALC
15	5622-23	212	161	23.8	7.1	85.7		SD GY-BRN FG SL/CALC LAM
16	5623-24	443	405	26.5	19.6	69.0		SD DRK BRN FG SL/CALC
17	5624-25	532	487	27.5	14.5	68.8		SD DRK BRN FG SL/CALC
18	5625-26	611	557	26.7	15.7	68.9		SD DRK BRN FG SL/CALC
19	5626-27	564	541	23.8	13.9	75.3		SD GY-BRN FG SL/CALC
20	5627-28	611	517	24.6	7.3	81.3		SD GY FG SL/CALC
21	5628-29	601	535	25.8	0.0	90.0		SD TN FG SL/CALC
22	5629-30	576	490	24.4	0.0	87.3		SD TN FG SL/CALC
23	5630-31	396	372	25.5	0.0	89.5		SD TN FG SL/CALC
24	5631-32	472	400	27.0	0.0	89.6		SD TN FG SL/CALC
25	5632-33	407	375	27.7	0.0	83.1		SD TN FG SL/CALC

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CONVENTIONAL CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD)		POR. FLD.	FLUID SATS.		GR. DNS.	DESCRIPTION
		HORZ.	VERTICAL		OIL	WATER		
26	5633-34	591	546	25.5	0.0	87.9		SD TN FG SL/CALC
27	5634-35	532	508	25.1	0.0	84.7		SD TN FG SL/CALC
28	5635-36	591	531	26.2	0.0	87.6		SD TN FG SL/CALC
29	5636-37	729	689	28.0	0.0	88.3		SD TN FG SL/CALC
30	5637-38	896	837	25.9	0.0	84.6		SD TN FG SL/CALC
31	5638-39	985	886	26.3	0.0	89.4		SD TN FG SL/CALC
32	5639-40	985	896	27.9	0.0	86.6		SD TN FG SL/CALC
33	5640-41	1093	719	28.8	0.0	89.6		SD TN FG SL/CALC
34	5641-42	935	886	24.2	0.0	93.3		SD TN FG SL/CALC
35	5642-43	906	788	28.3	0.0	90.5		SD TN FG SL/CALC
36	5643-44	87	709	23.8	0.0	89.8		SD TN FG SL/CALC
37	5644-45	1280	1250	22.5	0.0	89.0		SD TN FG SL/CALC
38	5645-46	1192	1132	22.0	0.0	89.1		SD TN FG SL/CALC
39	5646-47	1123	965	28.7	0.0	91.2		SD TN FG SL/CALC
40	5647-48	1172	945	24.9	0.0	91.2		SD TN FG SL/CALC
41	5648-49	1014	1014	22.9	0.0	80.0		SD TN FG SL/CALC
42	5649-50	1083	945	21.2	0.0	86.4		SD TN FG SL/CALC
43	5650-51	1053	965	24.7	0.0	84.6		SD TN FG SL/CALC
44	5651-52	1024	885	18.2	0.0	85.7		SD TN FG SL/CALC
45	5652-53	1073	925	23.3	0.0	84.6		SD TN FG SL/CALC
46	5653-54	846	827	21.6	0.0	89.5		SD TN FG SL/CALC
47	5654-55	857	827	21.8	0.0	92.7		SD TN FG SL/CALC
48	5655-56	236	89	23.1	0.0	92.8		SD TN FG SL/CALC
49	5656-57	1300	1231	27.8	0.0	84.2		SD TN FG SL/CALC
50	5657-58	251	53	25.1	0.0	82.5		SD TN VF6 SL/CALC

LOST RECOVERY

5658-66

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COMPANY DOMO PETROLEUM CORPORATION FIELD WILDCAT FILE RP-3-2795
WELL SANTA FE NO. 1 COUNTY SAN JUAN DATE 1-30-77
LOCATION SW NE SEC. 20-T21N-R6W STATE NEW MEXICO ELEV. 6567' GL

CORE-GAMMA CORRELATION

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VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

(PATENT APPLIED FOR)

GAMMA RAY

RADIATION INCREASE

COREGRAPH

TOTAL WATER

PERCENT TOTAL WATER

80 60 40 20 0

PERMEABILITY

MILLIDARCY

100 50 10 5 1

POROSITY

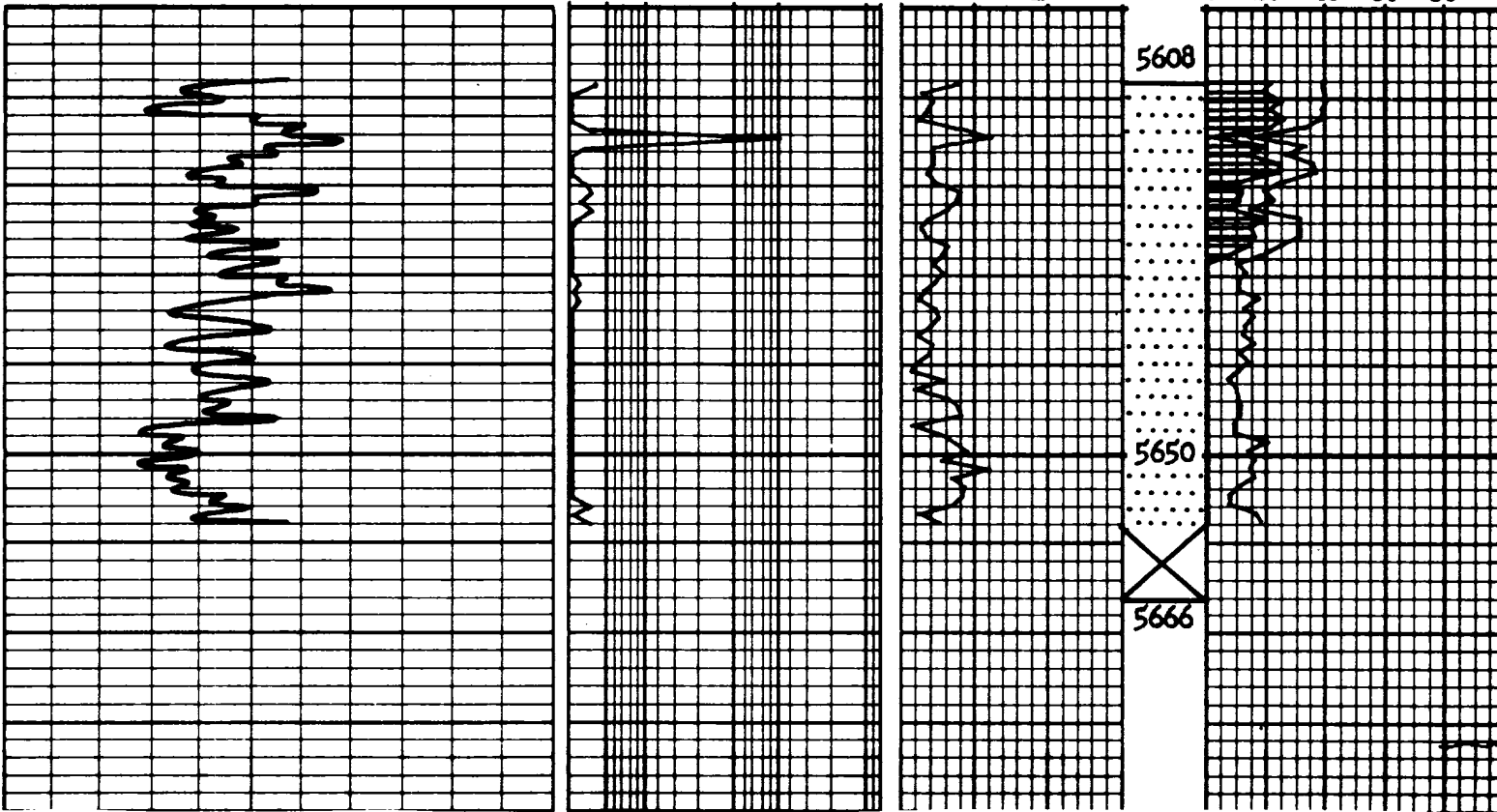
PERCENT

20 10 0

OIL SATURATION

PERCENT PORE SPACE

0 20 40 60 80



CL-539

CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: ENTRADA 5608.0 - 5627.0 Feet

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	19	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	69.2
FEET OF CORE INCLUDED IN AVERAGES	18	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	35 (e)
AVERAGE PERMEABILITY: MILLIDARCY	18	OIL GRAVITY: °API	38 (e)
PRODUCTIVE CAPACITY: MILLIDARCY-FEET	9880	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT	25.2	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.10 (e)
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	17.5	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	1155

(c) Calculated (e) Estimated (m) Measured (*) Refer to attached letter.

INTERPRETATION OF DATA

5608.0-5627.0 feet - Essentially oil productive. Due to high vertical permeability, there may be a problem with water coning if completed to low to oil/water contact.

5627.0-5650.0 feet - Water productive.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

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