

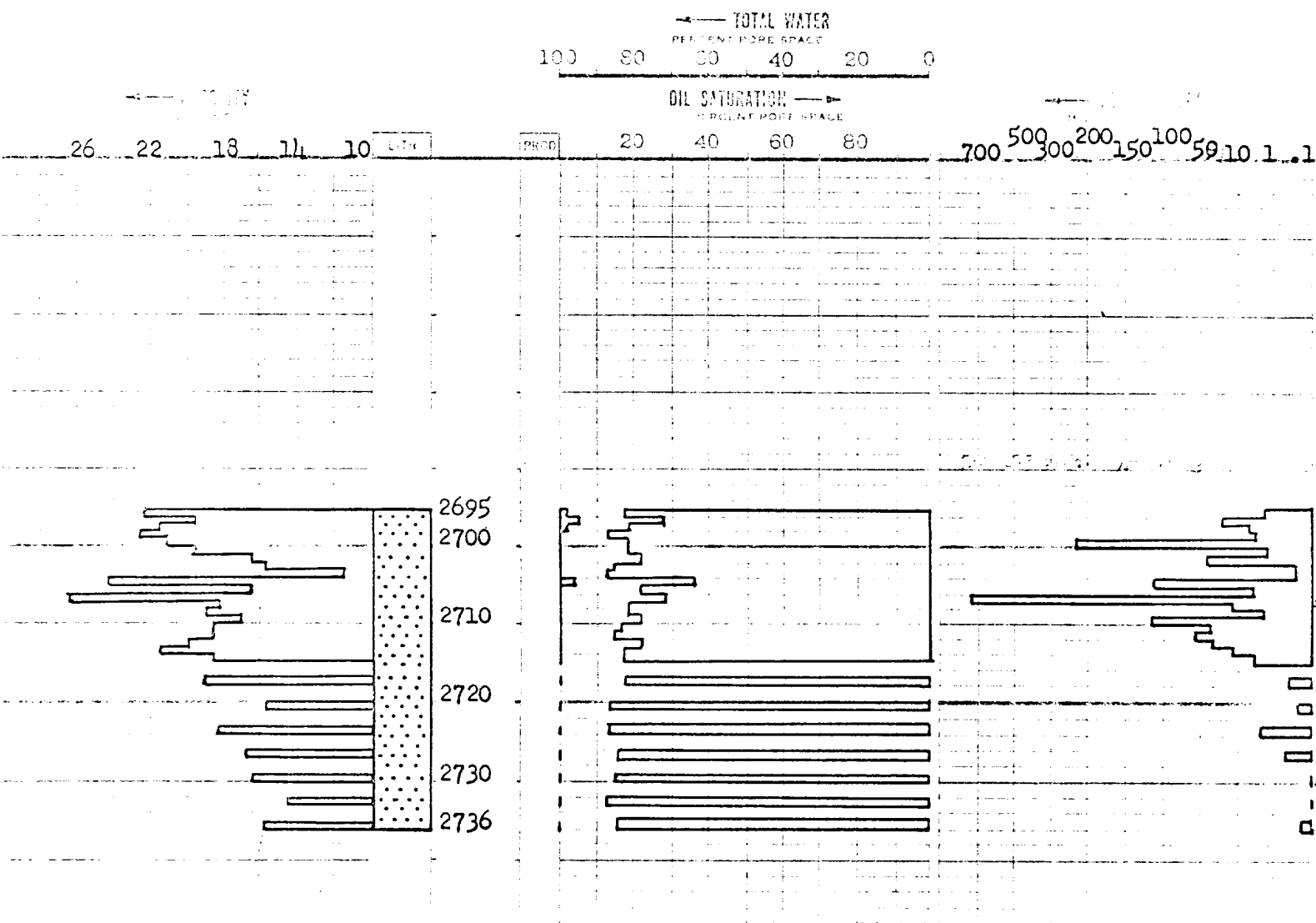
COMPANY TESORO PETROLEUM CORPORATION DATE ON 4-22-72 WELL NO RP-3-2549  
 WELL SANTA FE RAILROAD # 30 DATE ON 4-25-72 WELL NO MOHL  
 TOWN HOSPAH FORMATION DAKOTA WELL NO 6901 KB  
 COUNTY MCKINLEY STATE N. MEX. DEPT. REG. CHEM GEL DIA. CONV. 4"  
 LOCATION SE SW SEC 5-T17N-R8W REMARKS CONVENTIONAL CORE ANALYSIS

CONFIDENTIAL

This report, its contents, interpretations and conclusions are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations and conclusions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees assume no responsibility and make no warranty or representation as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

SAND LIMESTONE CONGLOMERATE CHERT   
 SHALE DOLOMITE

VERTICAL SCALE: 5" = 100'



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

### INTERPRETATION OF DATA

2695.0 - 2736.0 feet - Primarily 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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## CORE ANALYSIS RESULTS

Company TESORO PETROLEUM CORPORATION Formation DAKOTA File RP-3-2549  
 Well SANTA FE RAILROAD # 30 Core Type DIA. CONV. 4" Date Report 4-22-72  
 Field HOSPAH Drilling Fluid CHEM GEL Analysts MOHL  
 County McKINLEY State N. MEX. Elev. 6901 KB Location SE SW SEC 5 - T 17N - R 8W

## Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
1	2695-96	2.5	22.1	0.9	82.1	SS, GRY, VFN, CARB
2	2696-97	20	19.8	5.6	72.2	SS, GRY, VFN, CARB
3	2697-98	6.2	21.7	0.9	80.6	SS, GRY, VFN, CARB
4	2698-99	5.8	22.8	0.0	86.4	SS, GRY, VFN, CARB
5	2699-00	224. *	21.3	0.0	81.7	SS, GRY, VFN, CARB
6	2700-01	2.1	19.5	0.0	81.6	SS, GRY, VFN, CARB
7	2701-02	49.	16.4	0.0	79.8	SS, GRY, VFN, CARB
8	2702-03	0.41	15.7	0.0	85.9	SS, GRY, VFN, CARB
9	2703-04	0.41	11.8	0.0	86.4	SS, GRY, FN-MED, CARB, SL CALC
10	2704-05	115	24.2	4.5	63.6	SS, GRY, VFN
11	2705-06	5.7	16.7	0.0	79.0	SS, GRY, VFN
12	2706-07	711	26.4	0.0	70.5	SS, GRY, FN
13	2707-08	11	18.3	0.0	80.3	SS, GRY, VFN, CARB
14	2708-09	2.9	19.0	0.0	80.5	SS, GRY, VFN, CARB
15	2709-10	115	17.0	0.0	78.2	SS, GRY, VFN
16	2710-11	37	18.5	0.0	82.1	SS, GRY, VFN, CARB
17	2711-12	54	18.4	0.0	84.1	SS, GRY, VFN
18	2712-13	37	20.0	0.0	78.0	SS, GRY, VFN
19	2713-14	17	21.7	0.0	82.6	SS, GRY, VFN, CARB
20	2714-15	5.7	18.7	0.0	82.9	SS, GRY, VFN, CARB
21	2717-18	0.39	19.1	0.0	81.7	SS, GRY, VFN, CARB
22	2720-21	0.29	15.8	0.0	86.0	SS, GRY, VFN, CARB
23	2723-24	2.1	18.3	0.0	86.1	SS, GRY, VFN, CARB
24	2726-27	0.41	16.7	0.0	83.9	SS, GRY, VFN, CARB
25	2729-30	0.10	16.3	0.0	85.8	SS, GRY, VFN, CARB
26	2732-33	0.10	14.5	0.0	87.6	SS, GRY, VFN, CARB
27	2735-36	0.14	15.7	0.0	84.0	SS, GRY, VFN, CARB

\* DENOTES FRACTURE PERMEABILITY