

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5208
Name Mobil Oil Corporation
Address P.O. Box 5444
City/State/Zip Denver, CO 80217

Purchaser The Permian Corp.

Operator Contact Person D. H. Lawrence
Phone 303-298-2698

Contractor: License # 5382
Name Cheyenne Drilling Inc.

Wellsite Geologist G. D. Carlson
Phone 303-298-3761

Designate Type of Completion

New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

Mud Rotary Air Rotary Cable

7-16-87 7-24-87 8-14-87
Spud Date Date Reached TD Completion Date

5870' 5759'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1810 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 3243 feet
If alternate 2 completion, cement circulated from...feet depth to...w/...SX cmt
Cement Company Name
Invoice #

API NO. 15-189-21087-0000
County Stevens
SW NE Sec. 15 Twp. 31S Rge. 35 East West

3300 Ft North from Southeast Corner of Section
1980 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

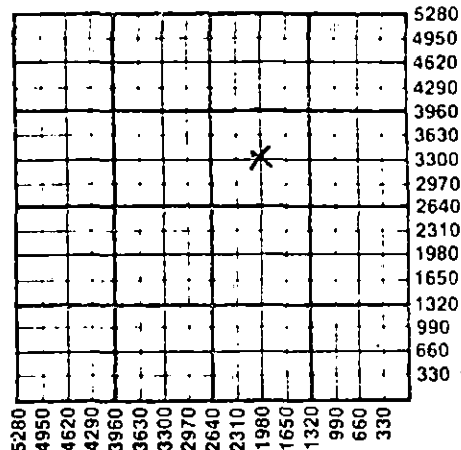
Lease Name Churchman Bible Well # 3

Field Name Churchman Bible Cave

Producing Formation Chester

Elevation: Ground 3001' KB 3012'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring
INFO NOT AVAILABLE AT THIS TIME

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # T87-259

Groundwater 4523 Ft North from Southeast Corner
(Well) 443 Ft West from Southeast Corner of
Sec 15 Twp 31S Rge 35 East West

Surface Water...Ft North from Southeast Corner
(Stream, pond etc)...Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain)
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply.

Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature D. H. Lawrence

Title General Accounting Supervisor Date 11-17-87

Subscribed and sworn to before me this 17th day of November 1987

Notary Public

Date Commission Expires 10th 1988

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other
(Specify)
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STATE CORPORATION COMMISSION
NOV 20 1987

Sec 15 Twp 31 Rge 35

SIDE TWO

Operator Name Mobil Oil Corp Lease Name Churchman, Rible Well # 3

Sec 15 Twp 31S Rge 35 East West County Stevens

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
Chase	2631	
Winfield	2706	
Council G	2922	
Admire	3168	
Wabaunse	3304	
Lansing	4174	
Kansas C	4407	
Marmaton	4854	
Cherokee	5050	
Morrow	5406	
Chester	5600	
St. Genev	5700	
St. Louis	5754	
TD	5800	

Log meas from KB=3012

*Acidz w/1200 gals 7.5% Fe acid w/1 GPT Lo-Surf 300, Clasta II, HAI-60
 Flush w/1470 gals diesel
 Frac'd w/60Q gel diesel/N2 foam, 9000 gals pad, 8400 gals SLF w/19,200# 20-40 sand; screen out w/3 ppg SLF @ perfs, 300 gals w/no nitrogen
 Acidz w/1500 gals 7.5% Fe acid
 Frac'd w/60Q diesel/N2 foam, 25,550 gals w/30,400# sand; screen out w/4 ppg SLF dn hole to perfs

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	24#	1810'	C1 C	660	65:35:6 C: Poz: Gel, 2% CaCl ₂ ; 2% CaCl ₂
Production	7-7/8"	5-1/2"	14#	5800'	C1 H	295	50:50 H: Poz: 2% Gel
					C1 H	280	50:50 H: Poz: 2% Gel

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPR	5635-5650 (ra-shot same)	*	5635
(61 perfs)			5650

TUBING RECORD Size 2-7/8" Set At Packer at ANCHOR 5485' Liner Run Yes No

Date of First Production Producing Method Flowing Pumping Gas Lift Other (explain).....
 INFO NOT AVAILABLE

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity
INFO NOT AVAILABLE					

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed Commingled



Litton

Core Lab

Churchman Bible #3

CORE ANALYSIS REPORT

for

Mobil Oil Corporation

Churchman Bible No. 3 Well
Woods North Field
Stevens County, Kansas

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STATE CORPORATION COMMISSION

SEP 26 1988

CONSERVATION DIVISION
Wichita, Kansas

These analyses, opinions, or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgement 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 representations as to the productivity, proper operation, or profitableness of any oil, gas, or other mineral or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.

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 SEP 26 1988
 CONSERVATION DIVISION
 Wichita, Kansas

Company : Mobil Oil Corporation
 Well : Churchman Bible #3
 Location : Sec 15 T31S R35W
 Co,State : Stevens County, Kansas

Field : Woods North
 Formation : Chester
 Coring Fluid : Chem Gel
 Elevation : 3012 KB

File : 43806-8050
 Date : 25-JUL-1987
 API No. :
 Analysts: FD MW

ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
				OIL %	WATER %		

Core No.1 Chester Formation 5645.0-5701.0

1	5645.0- 46.0	0.09	4.0	8.2	65.3	2.72	Ss gry v/fn limy shly
2	5646.0- 47.0	0.03	4.6	2.3	79.2	2.66	Ss gry v/fn limy
3	5647.0- 48.0	2.27	9.1	17.9	38.5	2.69	Ss gry v/fn limy shly
4	5648.0- 49.0	1.14	10.0	12.7	36.0	2.66	Ss gry v/fn limy shly
5	5649.0- 50.0	0.15	9.1	11.4	48.1	2.66	Ss gry v/fn limy shly
+ 6	5650.0- 51.0	3.90	9.8	8.5	56.9	2.67	Ss gry v/fn limy shly
7	5651.0- 52.0	<0.01	3.1	13.1	56.8	2.69	Ss gry v/fn limy shly
* 8	5652.0- 53.0		4.2	8.7	62.5	2.72	Ss gry v/fn limy shly
9	5653.0- 54.0	0.04	6.1	10.7	61.5	2.66	Ss gry v/fn limy shly
10	5654.0- 55.0	<0.01	0.7	0.0	44.0	2.71	Ss gry v/fn limy shly
* 11	5655.0- 56.0		2.2	0.0	57.5	2.72	Ss gry v/fn limy shly
* 12	5656.0- 57.0		3.4	0.0	55.6	2.73	Ss gry v/fn limy shly
* 13	5657.0- 58.0		3.7	0.0	33.7	2.73	Ss gry v/fn limy shly
* 14	5658.0- 59.0		2.2	0.0	50.8	2.73	Ss gry v/fn limy shly
* 15	5659.0- 60.0		3.7	0.0	57.7	2.72	Ss gry v/fn limy shly
* 16	5660.0- 61.0		2.9	0.0	55.3	2.72	Ss gry v/fn limy shly
17	5661.0- 62.0	0.03	2.1	0.0	46.8	2.71	Ss gry v/fn limy shly
18	5662.0- 63.0	<0.01	1.3	0.0	63.1	2.71	Ss gry v/fn limy shly
* 19	5663.0- 64.0		2.8	0.0	49.5	2.70	Ss gry v/fn limy shly
20	5664.0- 65.0	<0.01	0.5	4.2	41.8	2.70	Ss gry v/fn limy shly
+ 21	5665.0- 66.0	8.83	2.6	4.8	71.9	2.68	Ss gry v/fn limy shly
22	5666.0- 67.0	0.01	3.3	26.1	37.3	2.69	Ss gry v/fn limy shly
23	5667.0- 68.0	0.02	2.6	39.9	33.3	2.68	Ss gry v/fn limy shly

CORE LABORATORIES, INC.

Company : Mobil Oil Corporation
 Well : Churchman Bible #3

Field : Woods North
 Formation : Chester

File : 43806-8050
 Date : 25-JUL-1987

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) Kair md	POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION	
				OIL %	WATER %			
+	24	5668.0-69.0	0.10	3.3	42.6	32.0	2.68	Ss gry v/fn limy v/shly
	25	5669.0-70.0	<0.01	2.7	36.7	31.5	2.67	Ss gry v/fn limy v/shly
	26	5670.0-71.0	<0.01	3.1	27.8	37.1	2.66	Ss gry v/fn limy v/shly
	27	5671.0-72.0	<0.01	1.3	5.3	32.0	2.68	Ss gry v/fn limy shly
	28	5672.0-73.0	<0.01	3.3	0.0	54.8	2.68	Ss gry v/fn limy shly
	29	5673.0-74.0	<0.01	1.7	0.0	50.6	2.69	Ss gry v/fn limy shly
	30	5674.0-75.0	0.04	1.6	0.0	42.1	2.69	Ss gry v/fn limy shly
	31	5675.0-76.0	<0.01	1.4	0.0	32.3	2.69	Ss gry v/fn limy shly
*	32	5676.0-77.0		2.5	0.0	38.5	2.69	Ss gry v/fn limy shly
	33	5677.0-78.0	0.05	2.5	0.0	56.0	2.68	Ss gry v/fn limy shly
	34	5678.0-79.0	<0.01	2.2	0.0	59.3	2.69	Ss gry v/fn limy shly
+	35	5679.0-80.0	1.89	1.6	0.0	56.4	2.69	Ss gry v/fn limy shly
	36	5680.0-81.0	0.09	2.4	0.0	55.3	2.69	Ss gry v/fn limy shly
+	37	5681.0-82.0	0.86	2.0	0.0	54.7	2.68	Ss gry v/fn limy shly
	38	5682.0-83.0	<0.01	2.1	0.0	52.1	2.69	Ss gry v/fn limy shly
	39	5683.0-84.0	<0.01	1.1	0.0	60.4	2.68	Ss gry v/fn limy shly
*	40	5684.0-85.0		2.4	0.0	59.2	2.72	Ss gry v/fn limy shly
+	41	5685.0-86.0	1.07	3.8	0.0	46.1	2.69	Ss gry v/fn limy shly
	42	5686.0-87.0	0.02	2.6	0.0	47.3	2.68	Ss gry v/fn limy shly
	43	5687.0-88.0	<0.01	3.2	0.0	52.3	2.68	Ss gry v/fn limy shly
	44	5688.0-89.0	0.01	3.6	0.0	54.0	2.68	Ss gry v/fn limy shly
	45	5689.0-90.0	0.15	2.6	33.4	37.1	2.66	Ss gry v/fn limy shly
*	46	5690.0-91.0		6.4	28.1	42.1	2.68	Ss gry v/fn limy shly
	47	5691.0-92.0	0.13	4.6	24.9	44.2	2.70	Ss gry v/fn limy shly
	48	5692.0-93.0	0.03	1.8	0.0	15.1	2.68	Ss gry v/fn limy shly
	49	5693.0-94.0	0.37	4.7	36.7	31.4	2.66	Ss gry v/fn limy shly
*	50	5694.0-95.0		1.9	22.3	44.7	2.67	Ss gry v/fn limy shly
*	51	5695.0-96.0		4.7	28.6	40.8	2.68	Ss gry v/fn limy shly
	52	5696.0-97.0	0.12	3.4	22.9	27.5	2.66	Ss gry v/fn limy shly

CORE LABORATORIES, INC.

Company : Mobil Oil Corporation
 Well : Churchman Bible #3

Field : Woods North
 Formation : Chester

File : 43806-8050
 Date : 25-JUL-1987

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K _{air} md	POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
				OIL %	WATER %		
53	5697.0- 98.0	0.02	0.5	11.4	34.2	2.70	Ss gry v/fn limy shly
* 54	5698.0- 99.0		2.4	5.2	42.0	2.67	Ss gry v/fn limy shly
* 55	5699.0- 00.0		3.8	9.6	38.4	2.70	Ss gry v/fn limy shly
* 56	5700.0- 01.0		6.4	0.0	58.8	2.75	Ss gry v/fn limy shly

+ Denotes Fractured Perm Sample

* Denotes Sample Unsuitable For Perm

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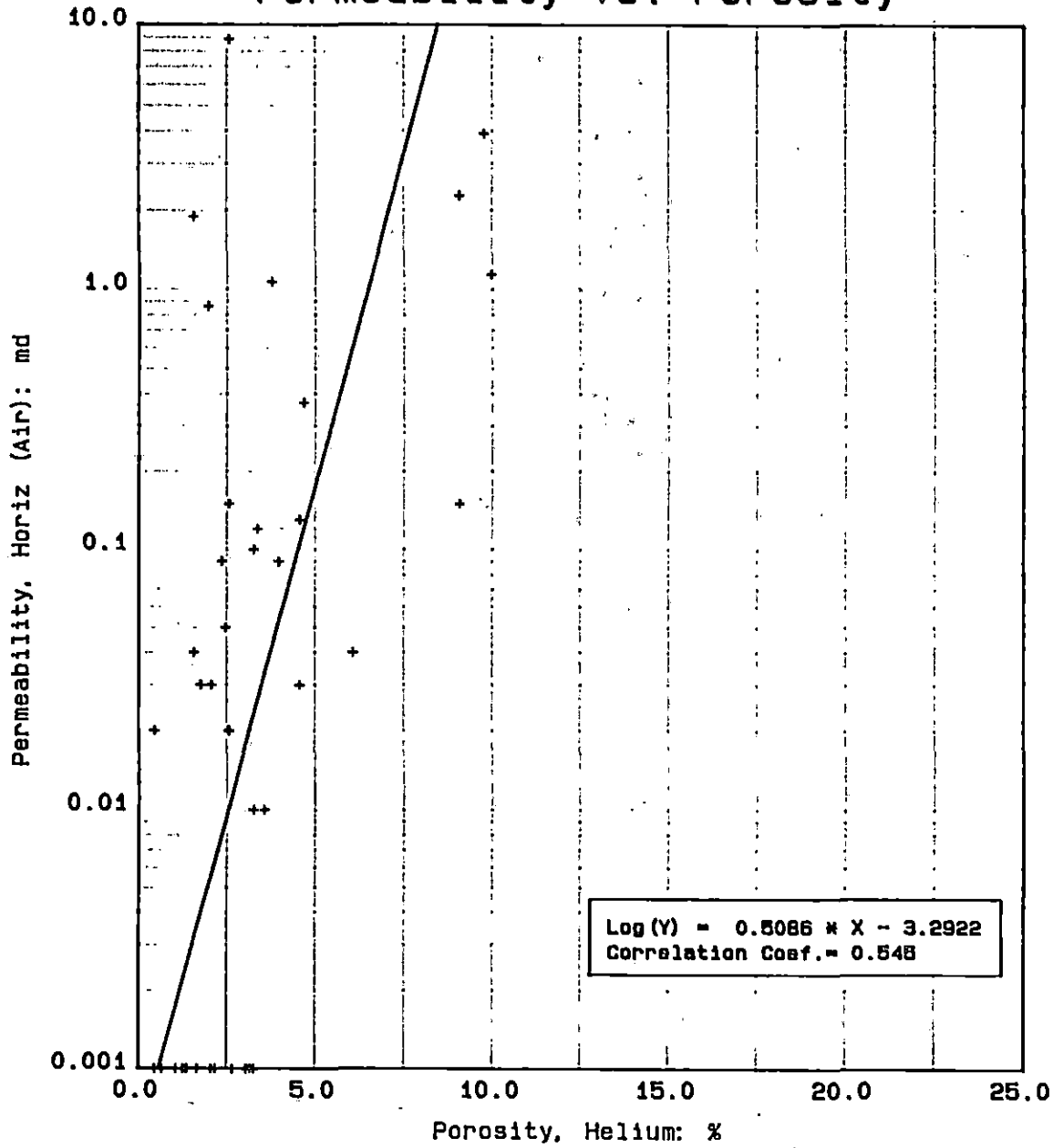
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 Wichita, Kansas

TABLE I

SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA		CHARACTERISTICS REMAINING AFTER CUTOFFS			
ZONE:		ZONE:		PERMEABILITY:	
Identification	Chester	Number of Samples	56	Flow Capacity	21.5 md-ft
Top Depth	5645.0 ft	Thickness Represented ..	56.0 ft	Arithmetic Average	0.537 md
Bottom Depth	5701.0 ft	POROSITY:		Geometric Average	0.024 md
Number of Samples	56	Storage Capacity	187.6 ϕ -ft	Harmonic Average	0.003 md
DATA TYPE:		Arithmetic Average	3.4 %	Minimum	0.001 md
Porosity	HELIUM	Minimum	0.5 %	Maximum	8.83 md
Permeability ..	HORIZONTAL	Maximum	10.0 %	Median	0.030 md
CUTOFFS:		Median	2.8 %	Standard Deviation	10 [±] 0.191 md
Porosity (Minimum)	0.0 %	Standard Deviation	±2.2 %	HETEROGENEITY (Permeability):	
Permeability (Minimum) ...	0.0000 md	GRAIN DENSITY:		Variation	0.916
Water Saturation (Maximum)	100.0 %	Arithmetic Average	2.69 gm/cc	Lorenz Coefficient	0.788
Oil Saturation (Minimum) ..	0.0 %	Minimum	2.66 gm/cc	AVERAGE SATURATIONS (Pore Volume):	
Grain Density (Minimum) ..	2.00 gm/cc	Maximum	2.75 gm/cc	Oil	18.0 %
Grain Density (Maximum) ..	3.00 gm/cc	Median	2.69 gm/cc	Water	48.0 %
Lithology Excluded	NONE	Standard Deviation	±0.02 gm/cc		

Permeability vs. Porosity



Mobil Oil Corporation
 Churchman Bible #3
 Woods North Field

 Chester (5645-5701 feet)

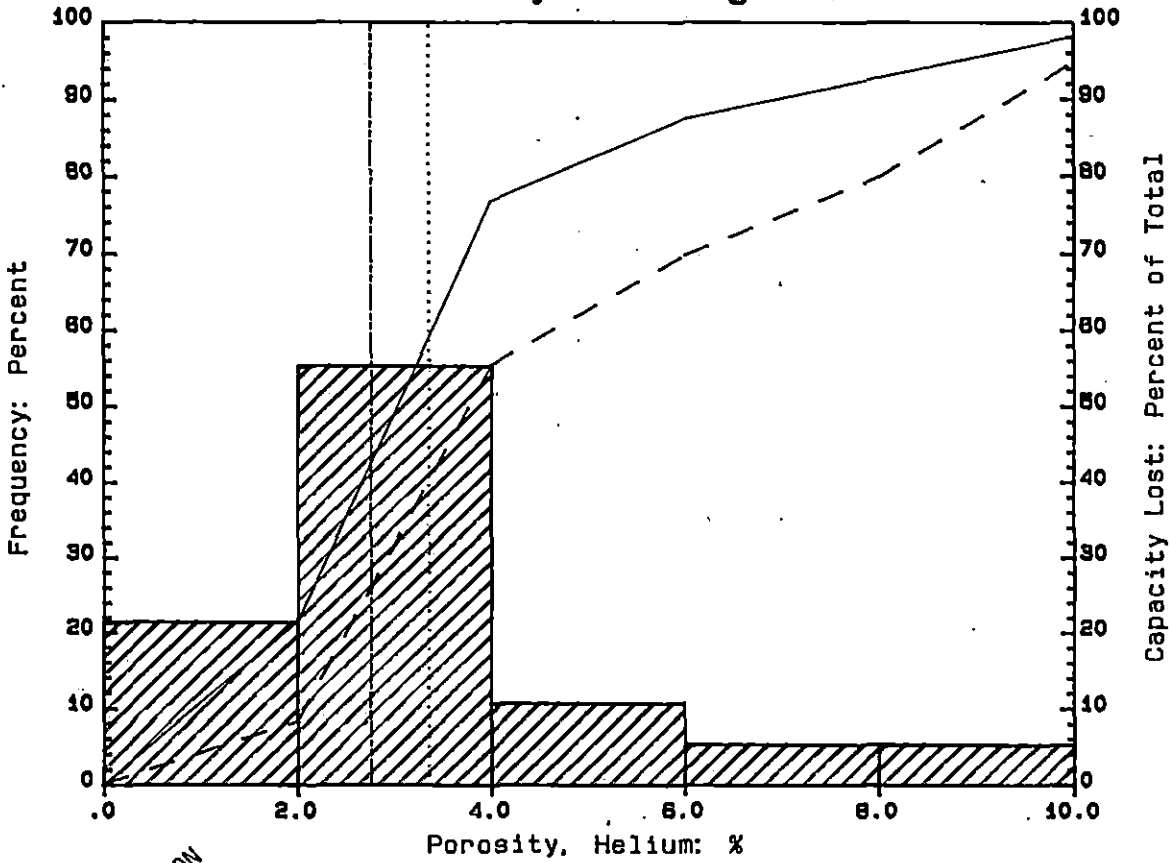
 Core Laboratories, Inc. 28-Jul-1987

- LEGEND -
 Chester

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 CONSERVATION DIVISION
 Wichita, Kansas

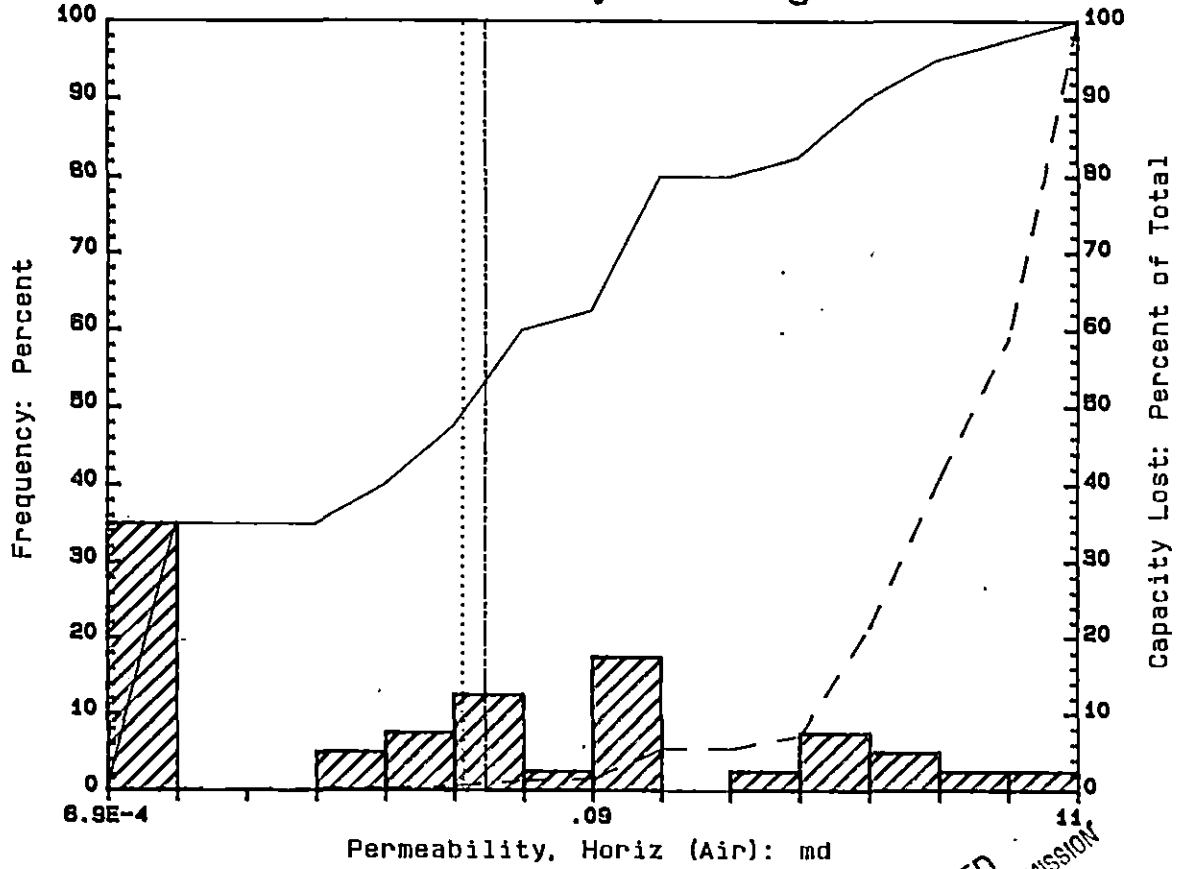
Porosity Histogram



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 Wichita, Kansas

<p style="text-align: center;">Mobil Oil Corporation Churchman Bible #3 Woods North Field</p> <p style="text-align: center;">Chester (5645-5701 feet)</p> <p>Core Laboratories, Inc. 28-Jul-1987</p>	<p style="text-align: center;">- LEGEND -</p> <p>----- Median Value (2.8)</p> <p>..... Arith. Average (3.3)</p> <p>———— Cumulative Frequency</p> <p>----- Cumulative Capacity Lost</p>
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Permeability Histogram



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CONSERVATION DIVISION
Topeka, Kansas

<p style="text-align: center;">Mobil Oil Corporation Churchman Bible #3 Woods North Field</p> <p style="text-align: center;">Chester (5645-5701 feet)</p> <p style="text-align: center;">Core Laboratories, Inc. 28-Jul-1987</p>	<p style="text-align: center;">- LEGEND -</p> <p>----- Median Value (0.030)</p> <p>..... Geom. Average (0.024)</p> <p>———— Cumulative Frequency</p> <p>- - - - Cumulative Capacity Lost</p>
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