

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION

PETRUS EXHIBIT NO: 8

CASE NO: 9Z41

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-18-87	
Company PETRUS OIL CO.			Connection AIR NEW WELL		
Pool Wildcat			Formation ATOKA		Unit
Completion Date 08-14-87		Total Depth 11,775		Plug Back TD 10700	Elevation 3821.0'GR
Ceq. Size 5.5		Wt. 17	d	Set At 10700	Perforations: From 10374 To 10390
Thp. Size 2.875		Wt.	d	Set At 10332	Perforations: From To
Type Well - Single - Brdenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10314	County EDDY
Producing Thru TUBING		Reservoir Temp. °F 179 @ 10382		Mean Annual Temp. °F 60	Base. Press. - P _g 13.2
L 10382		H 10382	G _g .758	% CO ₂ .33	% N ₂ 2.37
				% H ₂ S 0	Prover 0
				Meter Run 4.0	Taps FLANGE

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
Sl.							2295	83	0	0	72
1.	4.03	X	1.50	110	4.0	84	1920	83	0	0	1
2.	4.03	X	1.50	110	6.0	80	1900	83	0	0	1
3.	4.03	X	1.50	110	20.0	81	1730	83	0	0	1
4.	4.03	X	1.50	110	30.0	82	1660	83	0	0	1
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	22.20	123.2	0.9777	1.1486	1.0138	274
2	10.84	27.19	123.2	0.9813	1.1486	1.0142	337
3	10.84	49.64	123.2	0.9804	1.1486	1.0141	615
4	10.84	60.79	123.2	0.9795	1.1486	1.0140	752
5							

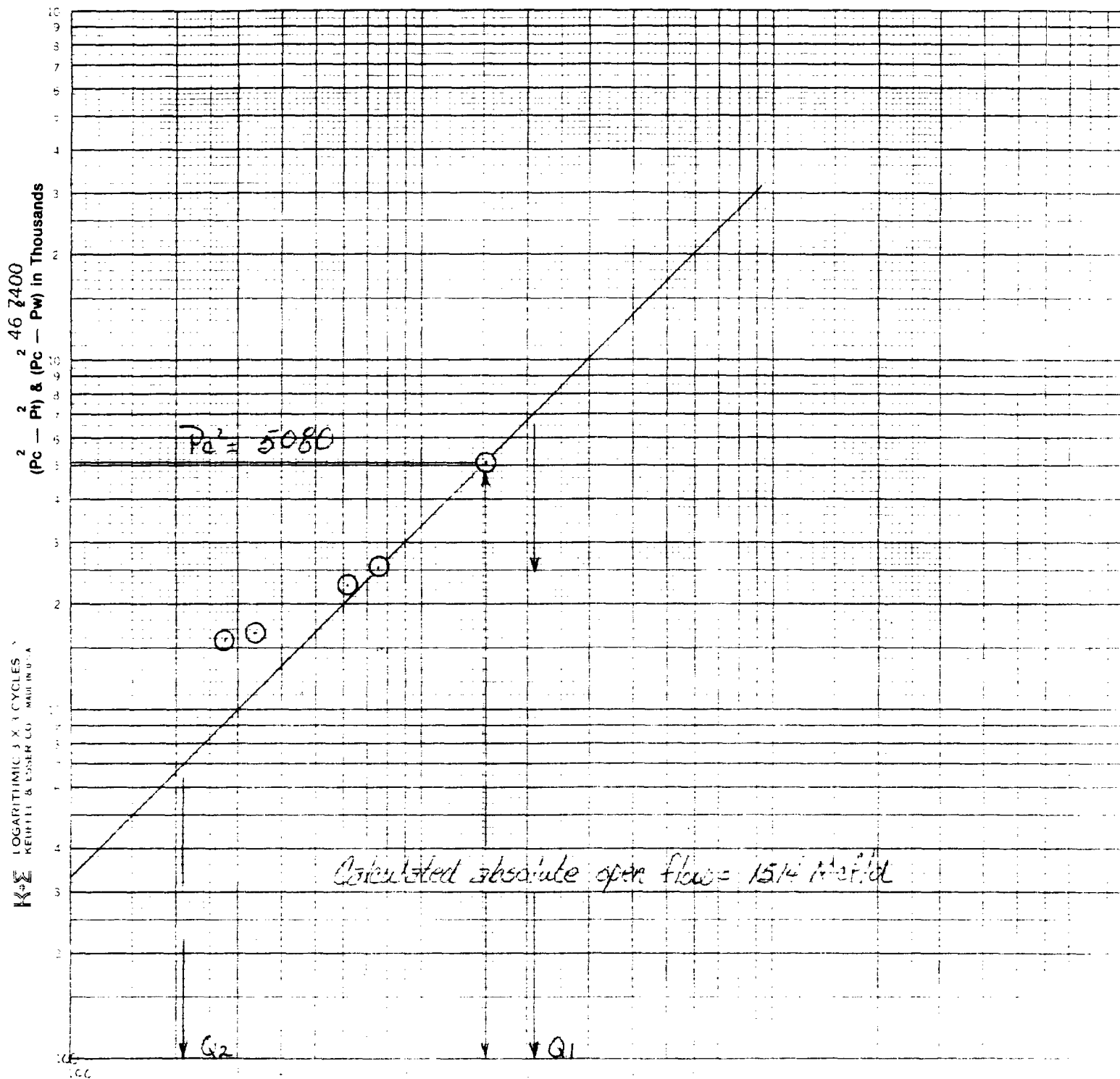
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcfd/bbl.	Seq.
1	0.19	544	1.36	0.973	8.332	59.0	0.758	XXXXXX	662	401	648	485
2	0.19	540	1.35	0.972								
3	0.19	541	1.35	0.972								
4	0.19	542	1.35	0.973								
5												

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	1868	3490	1590		2.0134	2.0134
2	1847	3413	1667			
3	1672	2796	2283			
4	1599	2557	1523			
5						

Absolute Open Flow <u>1514</u> Mcfd @ 15.025				Angle of Slope <u>45.0</u>		Slope, n <u>1.000</u>	
Remarks:							
Approved By Division		Conducted By: Bennett & Sathey		Calculated By: Richard Townley		Checked By:	

BACK PRESSURE CURVE

Operator Petrus Lease Hopshaw Fed Well No. 1
 County Eddy Field _____ Location _____
 Date of Test 8-18-87 Slope "n" 1.000 Angle of Slope 45°
 Calc. Abs. Potential 1514 MCF/D



$$\overline{\Delta P}_1^2 \quad P_c^2 - P_w^2 = 766$$

$$\overline{\Delta P}_2^2 \quad P_c^2 - P_w^2 = 760$$

$$Q_1 = 2200$$

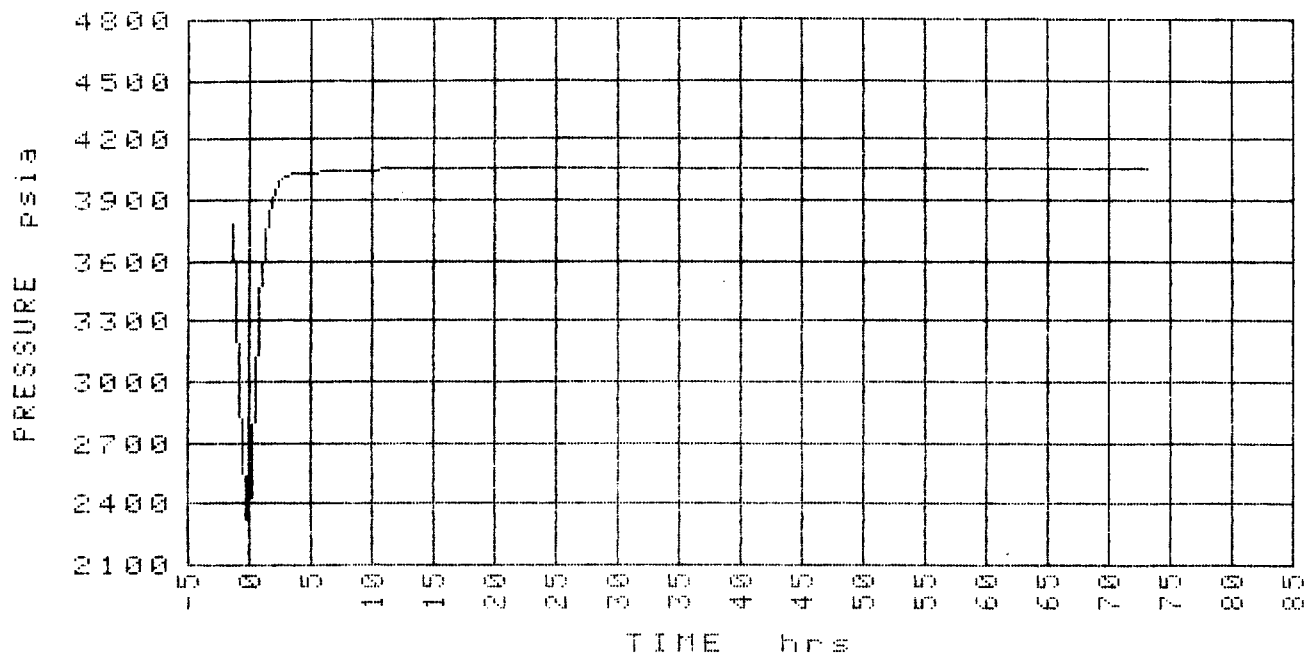
$$Q_2 = 220$$

Q, Mcfd

$$\text{LOG } Q_1 = 3.3424$$

$$\text{LOG } Q_2 = 2.3424$$

$$n = 1.000$$



COMPANY: PETRUS OIL CO.
 LEASE: HENSHAW FEDERAL
 FIELD:
 COUNTY: EDDY
 STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST
 PERFORATIONS FROM: 10374 ft
 DEPTH: 10307 ft

CONTACT: MIKE ERWIN
 WELL: #1
 ZONE: ATOKA
 STATE: NEW MEXICO
 OPERATOR: BO FAULKENBERRY
 TO: 10390 ft
 TEMPERATURE: 179°F

ELEMENT# RFG3#46632
 CLOCK# 2522
 ELEMENT# RFG3#23972
 CLOCK# 21850

ELEMENT RANGE: 7100 psig
 CLOCK RANGE: 72 hrs
 ELEMENT RANGE: 6950 psig
 CLOCK RANGE: 120 hrs

START CLOCK	08/15/87	08:25:00	2050 psig
SET ELEMENT	08/15/87	09:20:00	2050 psig
WELL SHUT IN	08/15/87	11:30:00	1090 psig
TEST ENDED	08/18/87	14:10:00	2295 psig

GAIN= 1
 FILE: 139-HEN:D701

BIAS= 16 psi
 BAROMETRIC PRESSURE= 13.2 psia

BENNETT-CATHEY WIRE LINE SERVICE
 PHONE (505) 748-3354
 ARTESIA, NEW MEXICO, 88210

PRESSURE TRANSIENT TEST DATA

COMPANY: PETRUS OIL CO.	CONTACT: MIKE ERWIN
LEASE: HENSHAW FEDERAL	WELL: #1
FIELD:	ZONE: ATOKA
COUNTY: EDDY	STATE: NEW MEXICO
STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST	OPERATOR: BO FAULKENBERRY

PERFORATIONS FROM: 10,374.0'	TO: 10,390.0'
DEPTH: 10,307.0'	TEMPERATURE: 179.0°F

ELEMENT: RPG3#46632	RANGE: 7100 psig
CLOCK: 2522	RANGE: 72 hrs
ELEMENT: RPG3#23972	RANGE: 6950 psig
CLOCK: 21850	RANGE: 120 hrs

SURFACE PRESSURE MEASUREMENTS

EVENT	DATE	TIME	DEAD WEIGHT PRESSURE
START CLOCK	08/15/87	08:25:00	2,050.0 psig
SET ELEMENT	08/15/87	09:20:00	2,050.0 psig
WELL SHUT IN	08/15/87	11:30:00	1,090.0 psig
TEST ENDED	08/18/87	14:10:00	2,295.0 psig

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
08/15/87	10:16:08	-1.231	3,748.5	3,761.7	3,777.7
08/15/87	10:30:00	-1.000	3,363.4	3,376.6	3,392.6
08/15/87	10:45:00	-.750	2,947.0	2,960.2	2,976.2
08/15/87	11:00:00	-.500	2,631.3	2,644.5	2,660.5
08/15/87	11:15:00	-.250	2,385.0	2,398.2	2,414.2
08/15/87	11:30:00	0.000	2,186.8	2,200.0	2,216.0
08/15/87	11:35:00	.083	2,335.2	2,348.4	2,364.4
08/15/87	11:40:00	.167	2,469.4	2,482.6	2,498.6
08/15/87	11:45:00	.250	2,587.9	2,601.1	2,617.1
08/15/87	11:50:00	.333	2,706.4	2,719.6	2,735.6
08/15/87	11:55:00	.417	2,823.0	2,836.2	2,852.2
08/15/87	12:00:00	.500	2,939.1	2,952.3	2,968.3
08/15/87	12:05:00	.583	3,047.3	3,060.5	3,076.5
08/15/87	12:10:00	.667	3,140.8	3,154.0	3,170.0
08/15/87	12:15:00	.750	3,234.2	3,247.4	3,263.4
08/15/87	12:20:00	.833	3,327.7	3,340.9	3,356.9
08/15/87	12:25:00	.917	3,407.3	3,420.5	3,436.5
08/15/87	12:30:00	1.000	3,485.8	3,499.0	3,515.0
08/15/87	12:45:00	1.250	3,667.5	3,680.7	3,696.7
08/15/87	13:00:00	1.500	3,794.9	3,808.1	3,824.1
08/15/87	13:15:00	1.750	3,876.4	3,889.6	3,905.6
08/15/87	13:30:00	2.000	3,923.9	3,937.1	3,953.1

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PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
08/15/87	13:45:00	2.250	3,951.0	3,964.2	3,980.2
08/15/87	14:00:00	2.500	3,967.7	3,980.9	3,996.9
08/15/87	14:15:00	2.750	3,978.8	3,992.0	4,008.0
08/15/87	14:30:00	3.000	3,986.5	3,999.7	4,015.7
08/15/87	14:45:00	3.250	3,991.6	4,004.8	4,020.8
08/15/87	15:00:00	3.500	3,996.6	4,009.8	4,025.8
08/15/87	15:15:00	3.750	3,999.6	4,012.8	4,028.8
08/15/87	15:30:00	4.000	4,001.9	4,015.1	4,031.1
08/15/87	15:45:00	4.250	4,004.1	4,017.3	4,033.3
08/15/87	16:00:00	4.500	4,005.5	4,018.7	4,034.7
08/15/87	16:15:00	4.750	4,006.4	4,019.6	4,035.6
08/15/87	16:30:00	5.000	4,007.2	4,020.4	4,036.4
08/15/87	16:45:00	5.250	4,008.1	4,021.3	4,037.3
08/15/87	17:00:00	5.500	4,008.9	4,022.1	4,038.1
08/15/87	17:15:00	5.750	4,009.8	4,023.0	4,039.0
08/15/87	17:30:00	6.000	4,010.7	4,023.9	4,039.9
08/15/87	17:45:00	6.250	4,011.4	4,024.6	4,040.6
08/15/87	18:00:00	6.500	4,012.2	4,025.4	4,041.4
08/15/87	18:15:00	6.750	4,012.9	4,026.1	4,042.1
08/15/87	18:30:00	7.000	4,013.7	4,026.9	4,042.9
08/15/87	18:45:00	7.250	4,014.4	4,027.6	4,043.6
08/15/87	19:00:00	7.500	4,015.2	4,028.4	4,044.4
08/15/87	19:15:00	7.750	4,015.9	4,029.1	4,045.1
08/15/87	19:30:00	8.000	4,016.7	4,029.9	4,045.9
08/15/87	19:45:00	8.250	4,017.4	4,030.6	4,046.6
08/15/87	20:00:00	8.500	4,018.2	4,031.4	4,047.4
08/15/87	20:15:00	8.750	4,018.9	4,032.1	4,048.1
08/15/87	20:30:00	9.000	4,019.7	4,032.9	4,048.9
08/15/87	20:45:00	9.250	4,020.4	4,033.6	4,049.6
08/15/87	21:00:00	9.500	4,021.2	4,034.4	4,050.4
08/15/87	21:15:00	9.750	4,022.0	4,035.2	4,051.2
08/15/87	21:30:00	10.000	4,022.4	4,035.6	4,051.6
08/15/87	21:45:00	10.250	4,022.6	4,035.8	4,051.8
08/15/87	22:00:00	10.500	4,022.9	4,036.1	4,052.1
08/15/87	22:15:00	10.750	4,023.2	4,036.4	4,052.4
08/15/87	22:30:00	11.000	4,023.4	4,036.6	4,052.6
08/15/87	22:45:00	11.250	4,023.7	4,036.9	4,052.9
08/15/87	23:00:00	11.500	4,024.0	4,037.2	4,053.2
08/15/87	23:15:00	11.750	4,024.2	4,037.4	4,053.4
08/15/87	23:30:00	12.000	4,024.5	4,037.7	4,053.7
08/15/87	23:45:00	12.250	4,024.8	4,038.0	4,054.0
08/16/87	00:00:00	12.500	4,025.0	4,038.2	4,054.2
08/16/87	00:15:00	12.750	4,025.3	4,038.5	4,054.5
08/16/87	00:30:00	13.000	4,025.6	4,038.8	4,054.8
08/16/87	00:45:00	13.250	4,025.9	4,039.1	4,055.1
08/16/87	01:00:00	13.500	4,026.1	4,039.3	4,055.3

BENNETT-CATHEY WIRE LINE SERVICE
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PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
08/16/87	01:15:00	13.750	4,026.4	4,039.6	4,055.6
08/16/87	01:30:00	14.000	4,026.7	4,039.9	4,055.9
08/16/87	01:45:00	14.250	4,026.9	4,040.1	4,056.1
08/16/87	02:00:00	14.500	4,027.2	4,040.4	4,056.4
08/16/87	02:15:00	14.750	4,027.5	4,040.7	4,056.7
08/16/87	02:30:00	15.000	4,027.7	4,040.9	4,056.9
08/16/87	02:45:00	15.250	4,028.0	4,041.2	4,057.2
08/16/87	03:00:00	15.500	4,028.3	4,041.5	4,057.5
08/16/87	03:15:00	15.750	4,028.5	4,041.7	4,057.7
08/16/87	03:30:00	16.000	4,028.8	4,042.0	4,058.0
08/16/87	03:45:00	16.250	4,029.1	4,042.3	4,058.3
08/16/87	04:00:00	16.500	4,029.3	4,042.5	4,058.5
08/16/87	04:15:00	16.750	4,029.6	4,042.8	4,058.8
08/16/87	04:30:00	17.000	4,029.6	4,042.8	4,058.8
08/16/87	04:45:00	17.250	4,029.6	4,042.8	4,058.8
08/16/87	05:00:00	17.500	4,029.6	4,042.8	4,058.8
08/16/87	05:15:00	17.750	4,029.6	4,042.8	4,058.8
08/16/87	05:30:00	18.000	4,029.6	4,042.8	4,058.8
08/16/87	05:45:00	18.250	4,029.6	4,042.8	4,058.8
08/16/87	06:00:00	18.500	4,029.6	4,042.8	4,058.8
08/16/87	06:15:00	18.750	4,029.6	4,042.8	4,058.8
08/16/87	06:30:00	19.000	4,029.7	4,042.9	4,058.9
08/16/87	06:45:00	19.250	4,029.7	4,042.9	4,058.9
08/16/87	07:00:00	19.500	4,029.7	4,042.9	4,058.9
08/16/87	07:15:00	19.750	4,029.7	4,042.9	4,058.9
08/16/87	07:30:00	20.000	4,029.7	4,042.9	4,058.9
08/16/87	07:45:00	20.250	4,029.7	4,042.9	4,058.9
08/16/87	08:00:00	20.500	4,029.7	4,042.9	4,058.9
08/16/87	08:15:00	20.750	4,029.7	4,042.9	4,058.9
08/16/87	08:30:00	21.000	4,029.7	4,042.9	4,058.9
08/16/87	08:45:00	21.250	4,029.8	4,043.0	4,059.0
08/16/87	09:00:00	21.500	4,029.8	4,043.0	4,059.0
08/16/87	09:15:00	21.750	4,029.8	4,043.0	4,059.0
08/16/87	09:30:00	22.000	4,029.8	4,043.0	4,059.0
08/16/87	09:45:00	22.250	4,029.8	4,043.0	4,059.0
08/16/87	10:00:00	22.500	4,029.8	4,043.0	4,059.0
08/16/87	10:15:00	22.750	4,029.8	4,043.0	4,059.0
08/16/87	10:30:00	23.000	4,029.8	4,043.0	4,059.0
08/16/87	10:45:00	23.250	4,029.9	4,043.1	4,059.1
08/16/87	11:00:00	23.500	4,029.9	4,043.1	4,059.1
08/16/87	11:15:00	23.750	4,029.9	4,043.1	4,059.1
08/16/87	11:30:00	24.000	4,029.9	4,043.1	4,059.1
08/16/87	11:45:00	24.250	4,029.9	4,043.1	4,059.1
08/16/87	12:00:00	24.500	4,029.9	4,043.1	4,059.1
08/16/87	12:15:00	24.750	4,029.9	4,043.1	4,059.1
08/16/87	12:30:00	25.000	4,029.9	4,043.1	4,059.1

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PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
08/16/87	12:45:00	25.250	4,029.9	4,043.1	4,059.1
08/16/87	13:00:00	25.500	4,030.0	4,043.2	4,059.2
08/16/87	13:15:00	25.750	4,030.0	4,043.2	4,059.2
08/16/87	13:30:00	26.000	4,030.0	4,043.2	4,059.2
08/16/87	13:45:00	26.250	4,030.0	4,043.2	4,059.2
08/16/87	14:00:00	26.500	4,030.0	4,043.2	4,059.2
08/16/87	14:15:00	26.750	4,030.0	4,043.2	4,059.2
08/16/87	14:30:00	27.000	4,030.0	4,043.2	4,059.2
08/16/87	14:45:00	27.250	4,030.0	4,043.2	4,059.2
08/16/87	15:00:00	27.500	4,030.0	4,043.2	4,059.2
08/16/87	15:15:00	27.750	4,030.1	4,043.3	4,059.3
08/16/87	15:30:00	28.000	4,030.1	4,043.3	4,059.3
08/16/87	15:45:00	28.250	4,030.1	4,043.3	4,059.3
08/16/87	16:00:00	28.500	4,030.1	4,043.3	4,059.3
08/16/87	16:15:00	28.750	4,030.1	4,043.3	4,059.3
08/16/87	16:30:00	29.000	4,030.1	4,043.3	4,059.3
08/16/87	16:45:00	29.250	4,030.1	4,043.3	4,059.3
08/16/87	17:00:00	29.500	4,030.1	4,043.3	4,059.3
08/16/87	17:15:00	29.750	4,030.2	4,043.4	4,059.4
08/16/87	17:30:00	30.000	4,030.2	4,043.4	4,059.4
08/16/87	17:45:00	30.250	4,030.2	4,043.4	4,059.4
08/16/87	18:00:00	30.500	4,030.2	4,043.4	4,059.4
08/16/87	18:15:00	30.750	4,030.2	4,043.4	4,059.4
08/16/87	18:30:00	31.000	4,030.2	4,043.4	4,059.4
08/16/87	18:45:00	31.250	4,030.2	4,043.4	4,059.4
08/16/87	19:00:00	31.500	4,030.2	4,043.4	4,059.4
08/16/87	19:15:00	31.750	4,030.2	4,043.4	4,059.4
08/16/87	19:30:00	32.000	4,030.3	4,043.5	4,059.5
08/16/87	19:45:00	32.250	4,030.3	4,043.5	4,059.5
08/16/87	20:00:00	32.500	4,030.3	4,043.5	4,059.5
08/16/87	20:15:00	32.750	4,030.3	4,043.5	4,059.5
08/16/87	20:30:00	33.000	4,030.3	4,043.5	4,059.5
08/16/87	20:45:00	33.250	4,030.3	4,043.5	4,059.5
08/16/87	21:00:00	33.500	4,030.3	4,043.5	4,059.5
08/16/87	21:15:00	33.750	4,030.3	4,043.5	4,059.5
08/16/87	21:30:00	34.000	4,030.3	4,043.5	4,059.5
08/16/87	21:45:00	34.250	4,030.4	4,043.6	4,059.6
08/16/87	22:00:00	34.500	4,030.4	4,043.6	4,059.6
08/16/87	22:15:00	34.750	4,030.4	4,043.6	4,059.6
08/16/87	22:30:00	35.000	4,030.4	4,043.6	4,059.6
08/16/87	22:45:00	35.250	4,030.4	4,043.6	4,059.6
08/16/87	23:00:00	35.500	4,030.4	4,043.6	4,059.6
08/16/87	23:15:00	35.750	4,030.4	4,043.6	4,059.6
08/16/87	23:30:00	36.000	4,030.4	4,043.6	4,059.6
08/16/87	23:45:00	36.250	4,030.5	4,043.7	4,059.7
08/17/87	00:00:00	36.500	4,030.5	4,043.7	4,059.7

BENNETT-CATHEY WIRE LINE SERVICE
 PHONE (505) 748-3354
 ARTESIA, NEW MEXICO, 88210

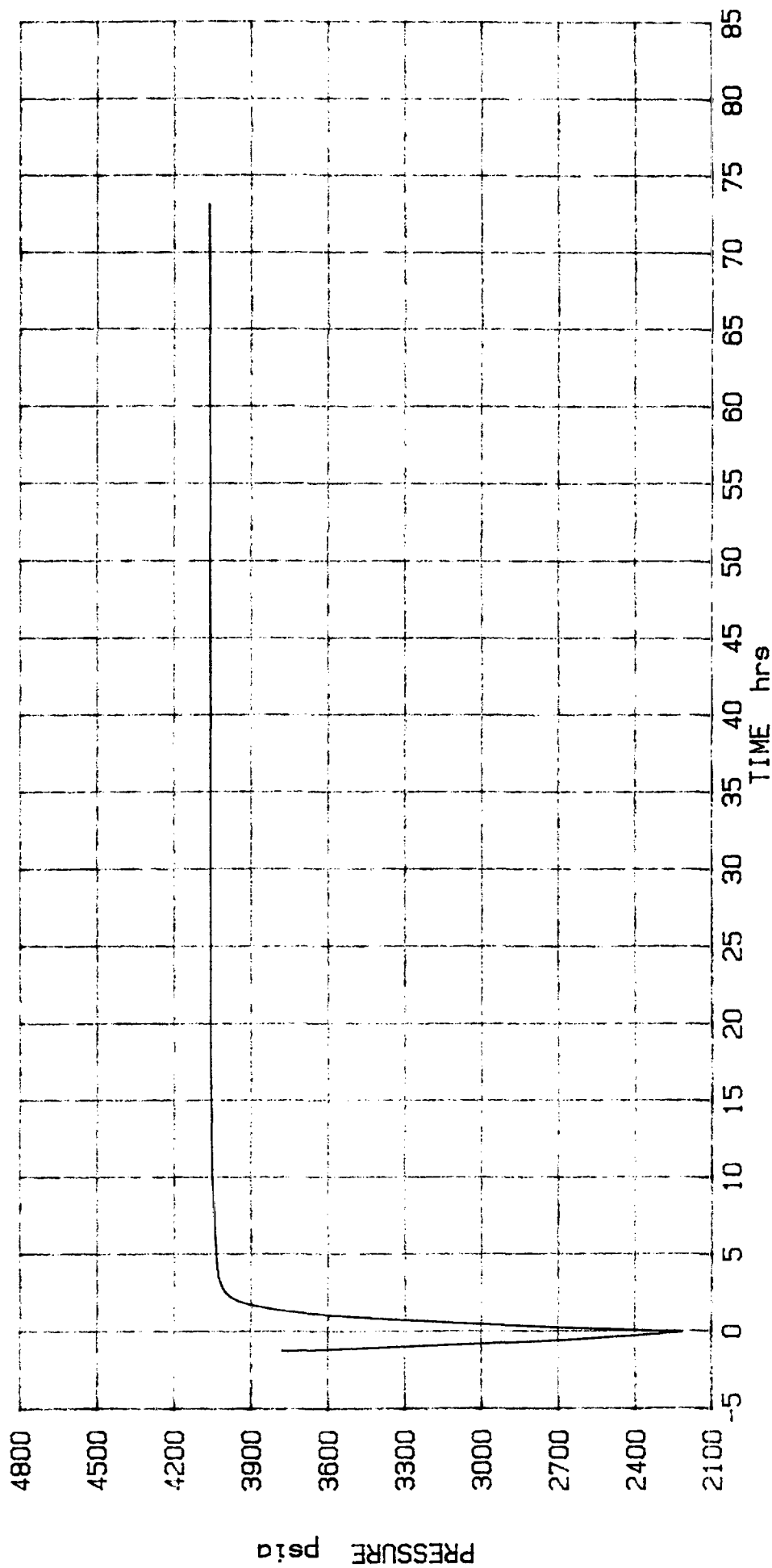
PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
08/17/87	00:15:00	36.750	4,030.5	4,043.7	4,059.7
08/17/87	00:30:00	37.000	4,030.5	4,043.7	4,059.7
08/17/87	00:45:00	37.250	4,030.5	4,043.7	4,059.7
08/17/87	01:00:00	37.500	4,030.5	4,043.7	4,059.7
08/17/87	01:15:00	37.750	4,030.5	4,043.7	4,059.7
08/17/87	01:30:00	38.000	4,030.5	4,043.7	4,059.7
08/17/87	01:45:00	38.250	4,030.5	4,043.7	4,059.7
08/17/87	02:00:00	38.500	4,030.6	4,043.8	4,059.8
08/17/87	02:15:00	38.750	4,030.6	4,043.8	4,059.8
08/17/87	02:30:00	39.000	4,030.6	4,043.8	4,059.8
08/17/87	02:45:00	39.250	4,030.6	4,043.8	4,059.8
08/17/87	03:00:00	39.500	4,030.6	4,043.8	4,059.8
08/17/87	03:15:00	39.750	4,030.6	4,043.8	4,059.8
08/17/87	03:30:00	40.000	4,030.7	4,043.9	4,059.9
08/17/87	03:45:00	40.250	4,030.7	4,043.9	4,059.9
08/17/87	04:00:00	40.500	4,030.7	4,043.9	4,059.9
08/17/87	04:15:00	40.750	4,030.7	4,043.9	4,059.9
08/17/87	04:30:00	41.000	4,030.8	4,044.0	4,060.0
08/17/87	04:45:00	41.250	4,030.8	4,044.0	4,060.0
08/17/87	05:00:00	41.500	4,030.8	4,044.0	4,060.0
08/17/87	05:15:00	41.750	4,030.8	4,044.0	4,060.0
08/17/87	05:30:00	42.000	4,030.9	4,044.1	4,060.1
08/17/87	05:45:00	42.250	4,030.9	4,044.1	4,060.1
08/17/87	06:00:00	42.500	4,030.9	4,044.1	4,060.1
08/17/87	06:15:00	42.750	4,030.9	4,044.1	4,060.1
08/17/87	06:30:00	43.000	4,031.0	4,044.2	4,060.2
08/17/87	06:45:00	43.250	4,031.0	4,044.2	4,060.2
08/17/87	07:00:00	43.500	4,031.0	4,044.2	4,060.2
08/17/87	07:15:00	43.750	4,031.1	4,044.3	4,060.3
08/17/87	07:30:00	44.000	4,031.1	4,044.3	4,060.3
08/17/87	07:45:00	44.250	4,031.1	4,044.3	4,060.3
08/17/87	08:00:00	44.500	4,031.1	4,044.3	4,060.3
08/17/87	08:15:00	44.750	4,031.2	4,044.4	4,060.4
08/17/87	08:30:00	45.000	4,031.2	4,044.4	4,060.4
08/17/87	08:45:00	45.250	4,031.2	4,044.4	4,060.4
08/17/87	09:00:00	45.500	4,031.2	4,044.4	4,060.4
08/17/87	09:15:00	45.750	4,031.3	4,044.5	4,060.5
08/17/87	09:30:00	46.000	4,031.3	4,044.5	4,060.5
08/17/87	09:45:00	46.250	4,031.3	4,044.5	4,060.5
08/17/87	10:00:00	46.500	4,031.3	4,044.5	4,060.5
08/17/87	10:15:00	46.750	4,031.4	4,044.6	4,060.6
08/17/87	10:30:00	47.000	4,031.4	4,044.6	4,060.6
08/17/87	10:45:00	47.250	4,031.4	4,044.6	4,060.6
08/17/87	11:00:00	47.500	4,031.4	4,044.6	4,060.6
08/17/87	11:15:00	47.750	4,031.5	4,044.7	4,060.7
08/17/87	11:30:00	48.000	4,031.5	4,044.7	4,060.7

TEST DATE: 08/15/87 TO 08/18/87
TEST DEPTH: 10307 ft
ELEMENT NO: RPG3#23972
RANGE: 6950 psig
CLOCK: 21850
RANGE: 120 hrs
OPERATOR: BO FAULKENBERRY

MIKE ERWIN
PETRUS OIL CO.
HENSHAW FEDERAL #1
BENNETT-CATHEY WIRE LINE SERVICE
Box 787 Artesia, N.M. 88210 (505) 748-3354





BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787

ARTESIA, NEW MEXICO 88210

Phone (505) 746-3281



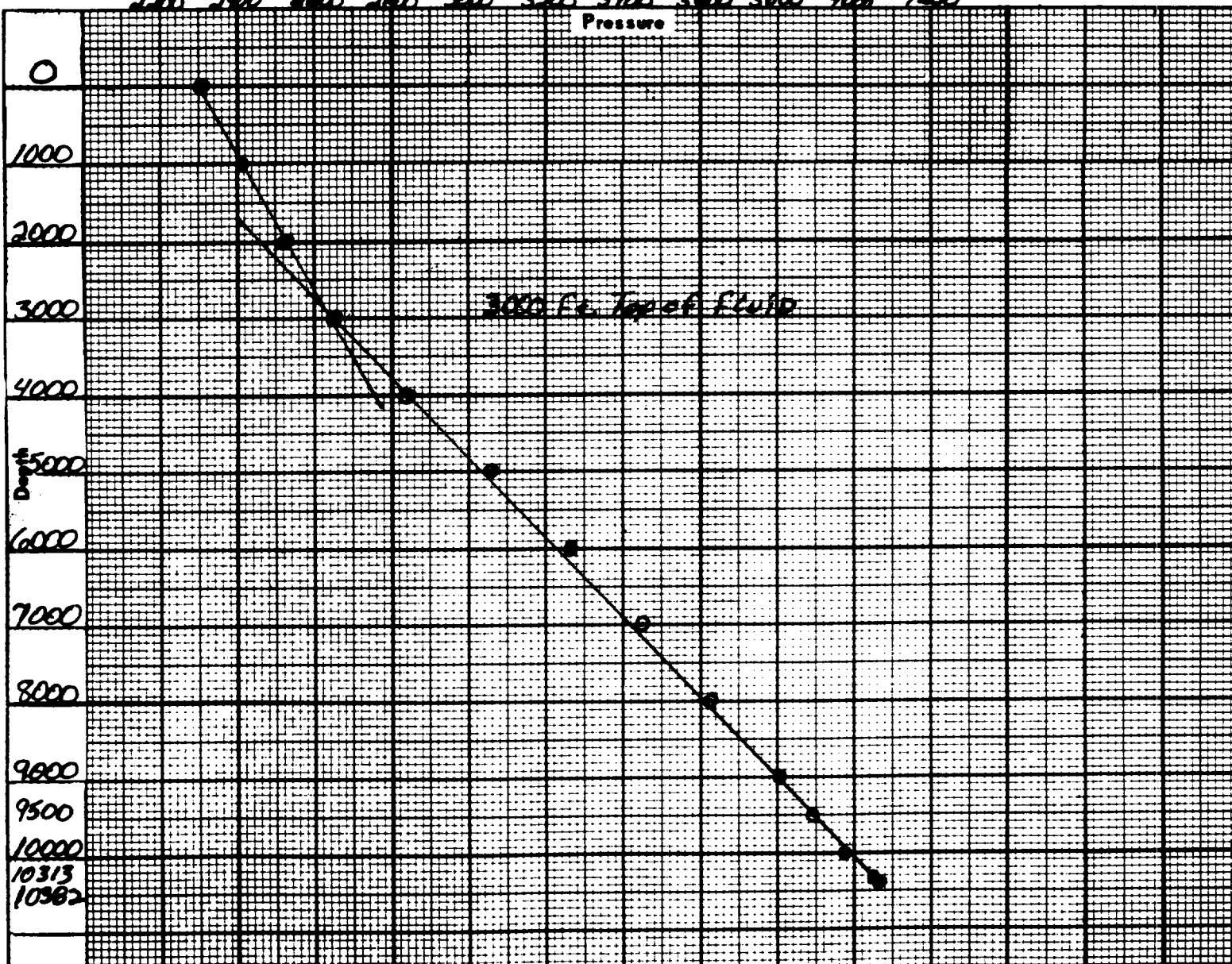
BOTTOM HOLE PRESSURE SURVEY REPORT

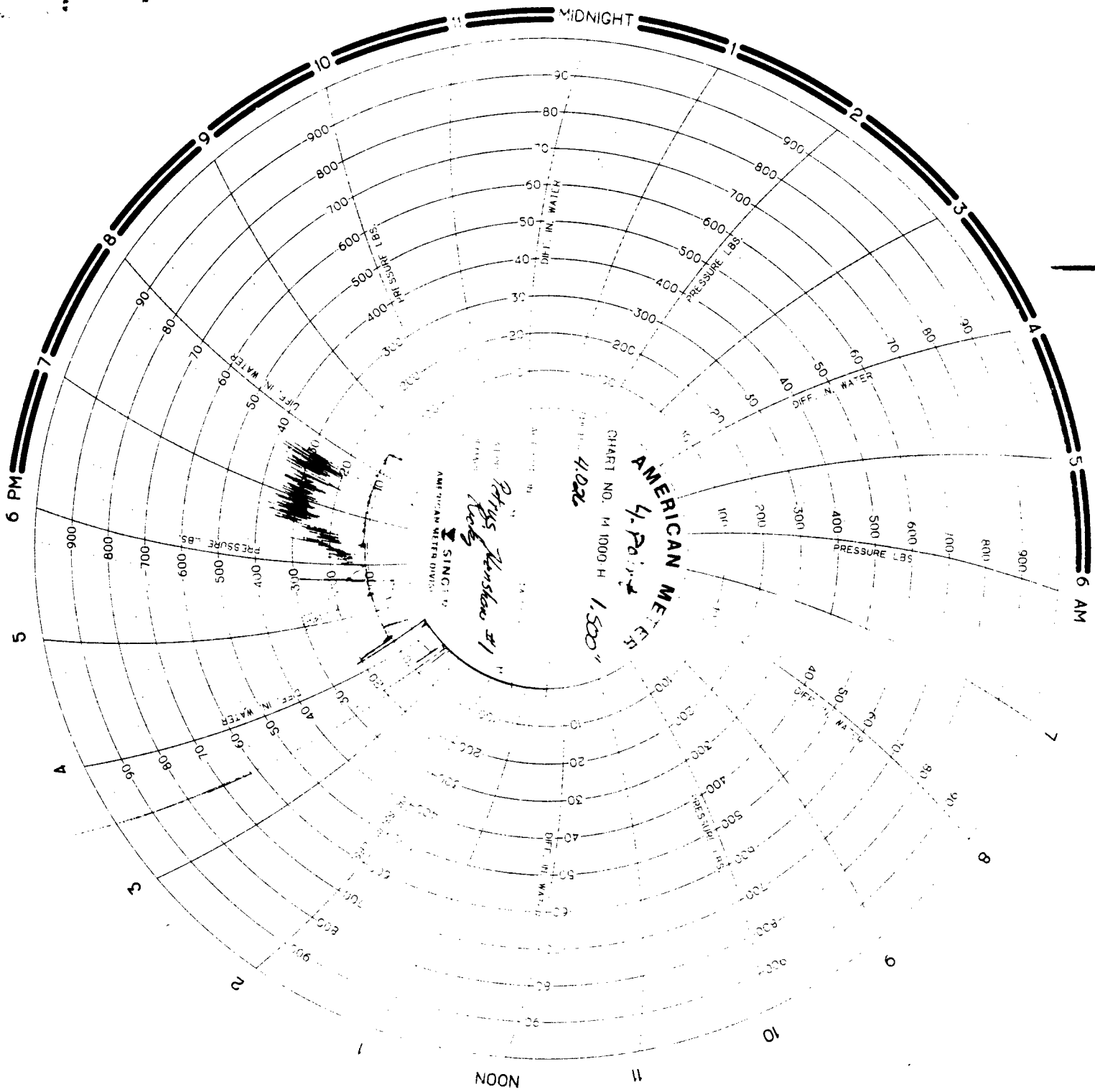
OPERATOR PETRUS OIL CO.
 LEASE HENSHAW FED
 WELL NO. #1
 POOL FORMATION ATOKA
 DATE 8-18-87 TIME 1407
 CO. MAN MIKE IRWIN
 STATUS SHUT IN TEST DEPTH 10313
 TIME S.I. 11:30 LAST TEST DATE
8-15-87 BHP LAST TEST
 TUB. PRES. 2295 BHP CHANGE
 CAS. PRES. FLUID TOP 3000
 DATUM PLANE WATER TOP
 DATUM PSIA 4064.2 RUN BY BO FAULKENBERRY
 TEMP 179 CLOCK # 28263
 PRESSURE RANGE 0-6975
 ELEMENT NO. RPG3# 23972

DEPTH	PSIA PRESSURE	LB/100 GRADIENT
0	2308.2	
1000	2416.2	10.8
2000	2524.2	10.8
3000	2650.2	12.6
4000	2840.2	19.0
5000	3058.2	21.8
6000	3263.2	20.5
7000	3450.2	18.7
8000	3627.2	17.7
9000	3801.2	17.4
9500	3889.2	17.6
10000	3977.2	17.6
10313	4048.2	22.6
10382	4064.2	23.2

10382 IS EXTRAPOLATED

2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200





AMERICAN METEOR DIVISION

AMERICAN METEOR
4.000
1.500

RTHS. 4.000 #1

SING