

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

ckf
 file

Type Test 4-POINT ☒ Initial ☐ Annual ☐ Special				Test Date 2-25-86	
Company EARLE M. CRAIG <i>Adobe Paces</i>				Connection TO AIR NEW WELL	
Pool ROSS <i>WOLF CAMP</i> ANTONIO DRAW <i>Wolfcamp</i>				Formation WOLF CAMP	
Completion Date 1-28-86		Total Depth 12804 FT		Elevation 3075	
Well No. 4.500		Set At 12804'		Perforations: From 12227' To 12651'	
Well No. 2.375		Set At 12030'		Perforations: From To	
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE				Packer Set At 12030'	
Producing Thru TUBING		Reservoir Temp. °F 300° 12439		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State NEW MEXICO			
L 12439'	H 12439'	G _g 0.657	% CO ₂ 1.09	% N ₂ 5.88	% H ₂ S 0
Prover 0		Motor Run 4.0		Taps FLNG.	

FLOW DATA						TUBING DATA		B.H.P. 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.	CHOKE	Press. p.s.i.g.		Temp. °F
SI							8287		10127	300	72.0
1.	4.03	X	1.250	495	8.5	80	6670	2/64	8434	300	1
2.	4.03	X	1.250	540	11.0	83	4452	3/64	5996	300	1
3.	4.03	X	1.250	510	14.0	90	2594	(7/64)	3619	300	1
4.	4.03	X	1.250	480	10.0	92	2040	12/64	2933	300	1
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	7.47	65.72	508.2	0.9813	1.2337	1.0397	618.
2	7.47	78.01	553.2	0.9786	1.2337	1.0423	733.
3	7.47	85.59	523.2	0.9723	1.2337	1.0381	(796.)
4	7.47	70.23	493.2	0.9706	1.2337	1.0354	650.
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1	0.77	540	1.51	0.925	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2	0.83	543	1.51	0.920	Specific Gravity Separator Gas _____ 0.657		
3	0.79	550	1.51	0.928	Specific Gravity Flowing Fluid _____ XXXXX		
4	0.74	552	1.51	0.933	Critical Pressure _____ 664 P.S.I.A.		
5					Critical Temperature _____ 358 R		

$i = 8498.6 \quad P_c^2 = 72226$				$(1) \frac{P_c^2}{P_r^2 - P_w^2} = 1.1178$		$(2) \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0576$	
NO	P _r ²	P _w	P _w ²	P _r ² - P _w ²	$AOI = Q \left[\frac{h^2}{P_r^2 - P_w^2} \right]^n = 842.$		
1	6932	48049	24178				
2	4747	22532	49695				
3	2759	7612	64615				
4	2225	4952	67274				

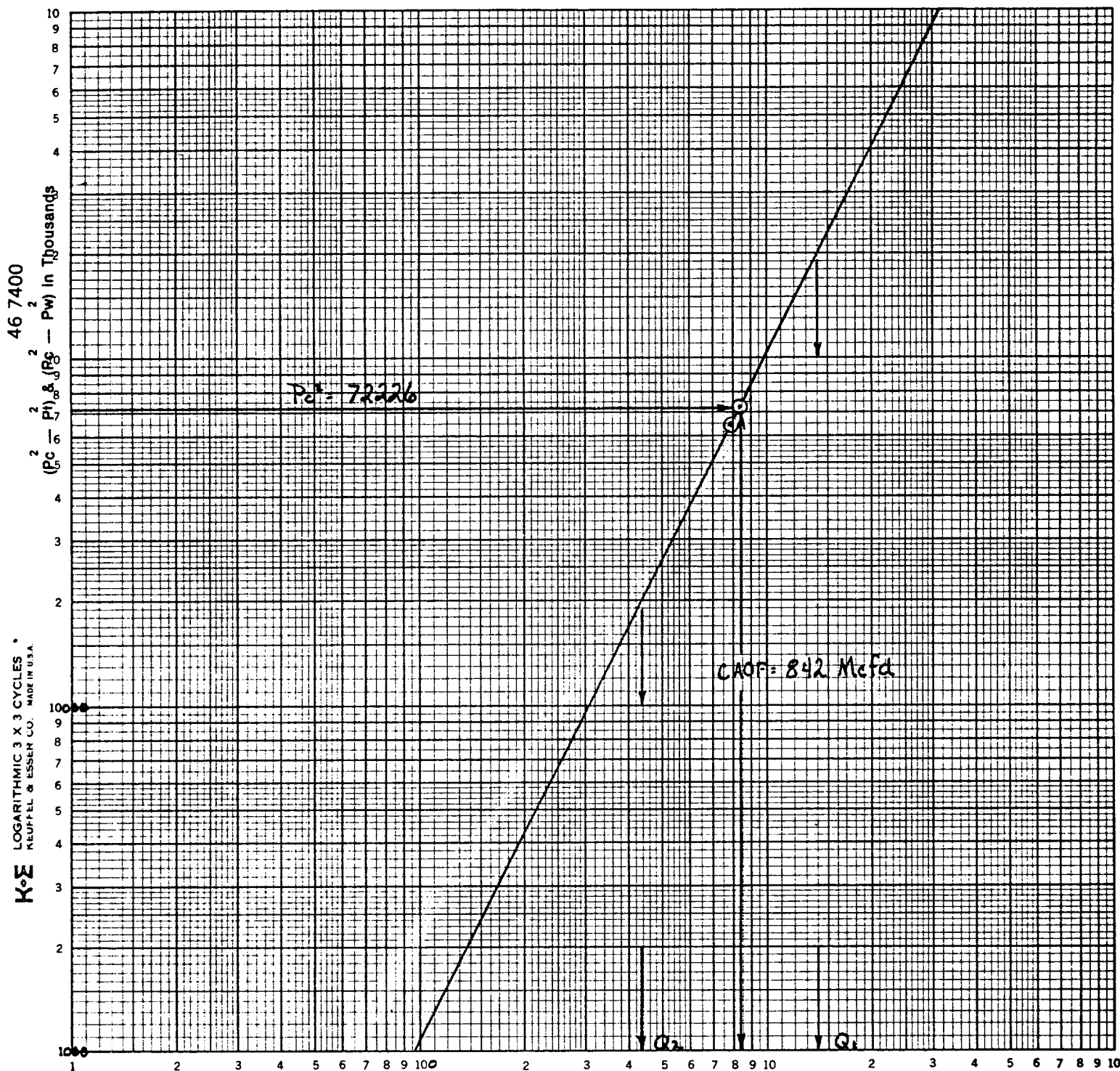
Absolute Open Flow _____ 842. _____ Mcfd @ 15.025	Angle of Slope @ _____ 63.3	Slope, n _____ 0.503
Remarks: _____		
Approved By Commission:	Conducted By: BENNETT & CATHEY	Calculated By: RICHARD TOWNLEY
Checked By:		

*Post IO-2
 5-16-86
 Camp & BK*

**BENNETT & CATHEY PRODUCTION TITLING
BACK PRESSURE CURVE**

Operator Earl M. Craig Lease Spitfire 25 Well No. 1
County Eddy Field Phantom Draw Location 25 26S 30E
Date of Test 2-25-86 Slope "n" .503 Angle of Slope 63.3

Calc. Abs. Potential 842 MCF/D



$$\overline{\Delta P_i^2} \quad P_C^2 - P_W^2 = \underline{200000}$$

$$\overline{\Delta P_2}^2 P_C^2 - P_W^2 = \underline{20000}$$

$$Q_1 = \underline{\hspace{2cm} 1400 \hspace{2cm}}$$

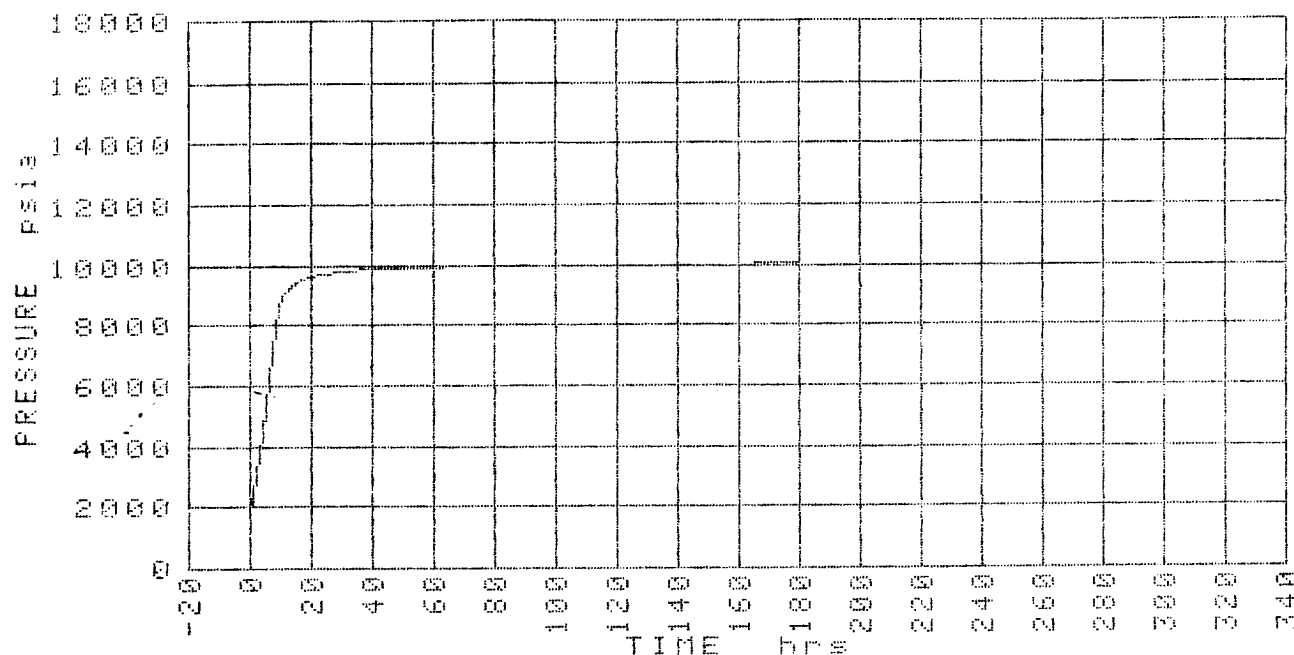
$$Q_2 = \underline{\underline{439}}$$

Q In MCF/Day

$$\text{LOG } Q_1 = \underline{3.1461}$$

$$\text{LOG } Q_2 = \underline{2.4631}$$

$$n = 0.503$$



COMPANY: EARLE M. CRAIG JR. CORP.

LEASE: SPITFIRE 25

FIELD: PHANTOM DRAW

COUNTY: EDDY

STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST

PERFORATIONS FROM: 12227 ft

DEPTH: 12040 ft

CONTACT: DAVE MOSER

WELL: #1

ZONE: WOLFCAMP

STATE: NEW MEXICO

OPERATOR: BO FAULKENBERRY

TO: 12651 ft

TEMPERATURE: 300°F

ELEMENT# RP63#25670

CLOCK# 9499

ELEMENT# RP63#24374

CLOCK# 22863

ELEMENT RANGE: 15125 psig

CLOCK RANGE: 180 hrs

ELEMENT RANGE: 12300 psig

CLOCK RANGE: 180 hrs

START CLOCK 02/25/86

17:24:00

1352 psig

SET ELEMENT 02/25/86

18:30:00

1352 psig

WELL SHUT IN 02/25/86

19:00:00

1352 psig

TEST ENDED 03/05/86

12:47:00

8235 psig

GAIN= 1

FILE: 125-FIRE:D701

BIAS= 64 psi

BAROMETRIC PRESSURE= 13.2 psia

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

PRESSURE TRANSIENT TEST DATA

COMPANY: EARLE M. CRAIG JR. CORP.	CONTACT: DAVE MOSER
LEASE: SPITFIRE 25	WELL: #1
FIELD: PHANTOM DRAW	ZONE: WOLFCAMP
COUNTY: EDDY	STATE: NEW MEXICO
STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST	OPERATOR: BO FAULKENBERRY

PERFORATIONS FROM: 12,227.0'	TO: 12,651.0'
DEPTH: 12,040.0'	TEMPERATURE: 300.0°F

ELEMENT: RP63#25670	RANGE: 15125 psig
CLOCK: 9499	RANGE: 180 hrs
ELEMENT: RP63#24374	RANGE: 12300 psig
CLOCK: 22863	RANGE: 180 hrs

SURFACE PRESSURE MEASUREMENTS

EVENT	DATE	TIME	DEAD WEIGHT PRESSURE
START CLOCK	02/25/86	17:24:00	1,352.0 psig
SET ELEMENT	02/25/86	18:30:00	1,352.0 psig
WELL SHUT IN	02/25/86	19:00:00	1,352.0 psig
TEST ENDED	03/05/86	12:47:00	8,235.0 psig

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
02/25/86	18:30:24	-.493	2,426.0	2,439.2	2,503.2
02/25/86	18:45:00	-.250	1,965.9	1,979.1	2,043.1
02/25/86	19:00:00	0.000	1,763.4	1,776.6	1,840.6
02/25/86	19:05:00	.083	1,786.7	1,799.9	1,863.9
02/25/86	19:10:00	.167	1,810.0	1,823.2	1,887.2
02/25/86	19:15:00	.250	1,833.3	1,846.5	1,910.5
02/25/86	19:20:00	.333	1,856.7	1,869.9	1,933.9
02/25/86	19:25:00	.417	1,912.4	1,925.6	1,989.6
02/25/86	19:30:00	.500	1,978.0	1,991.2	2,055.2
02/25/86	19:35:00	.583	2,043.7	2,056.9	2,120.9
02/25/86	19:40:00	.667	2,109.3	2,122.5	2,186.5
02/25/86	19:45:00	.750	2,166.4	2,179.6	2,243.6
02/25/86	19:50:00	.833	2,219.9	2,233.1	2,297.1
02/25/86	19:55:00	.917	2,273.5	2,286.7	2,350.7
02/25/86	20:00:00	1.000	2,327.0	2,340.2	2,404.2
02/25/86	20:04:59	1.083	2,377.7	2,390.9	2,454.9
02/25/86	20:10:01	1.167	2,428.2	2,441.4	2,505.4
02/25/86	20:15:00	1.250	2,478.2	2,491.4	2,555.4
02/25/86	20:19:59	1.333	2,528.1	2,541.3	2,605.3
02/25/86	20:25:01	1.417	2,578.7	2,591.9	2,655.9
02/25/86	20:30:00	1.500	2,628.6	2,641.8	2,705.8
02/25/86	20:34:59	1.583	2,681.6	2,694.8	2,758.8

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PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
02/25/86	20:40:01	1.667	2,735.4	2,748.6	2,812.6
02/25/86	20:45:00	1.750	2,788.5	2,801.7	2,865.7
02/25/86	20:49:59	1.833	2,841.7	2,854.9	2,918.9
02/25/86	20:55:01	1.917	2,895.5	2,908.7	2,972.7
02/25/86	21:00:00	2.000	2,948.6	2,961.8	3,025.8
02/25/86	21:04:59	2.083	3,000.6	3,013.8	3,077.8
02/25/86	21:10:01	2.167	3,052.1	3,065.3	3,129.3
02/25/86	21:15:00	2.250	3,103.0	3,116.2	3,180.2
02/25/86	21:19:59	2.333	3,154.0	3,167.2	3,231.2
02/25/86	21:25:01	2.417	3,205.5	3,218.7	3,282.7
02/25/86	21:30:00	2.500	3,256.4	3,269.6	3,333.6
02/25/86	21:34:59	2.583	3,307.4	3,320.6	3,384.6
02/25/86	21:40:01	2.667	3,359.9	3,373.1	3,437.1
02/25/86	21:45:00	2.750	3,412.6	3,425.8	3,489.8
02/25/86	21:49:59	2.833	3,465.3	3,478.5	3,542.5
02/25/86	21:55:01	2.917	3,518.7	3,531.9	3,595.9
02/25/86	22:00:00	3.000	3,571.4	3,584.6	3,648.6
02/25/86	22:04:59	3.083	3,624.1	3,637.3	3,701.3
02/25/86	22:10:01	3.167	3,677.4	3,690.6	3,754.6
02/25/86	22:15:00	3.250	3,733.0	3,746.2	3,810.2
02/25/86	22:19:59	3.333	3,791.3	3,804.5	3,868.5
02/25/86	22:25:01	3.417	3,850.2	3,863.4	3,927.4
02/25/86	22:30:00	3.500	3,908.5	3,921.7	3,985.7
02/25/86	22:34:59	3.583	3,966.7	3,979.9	4,043.9
02/25/86	22:40:01	3.667	4,025.7	4,038.9	4,102.9
02/25/86	22:45:00	3.750	4,084.0	4,097.2	4,161.2
02/25/86	22:49:59	3.833	4,144.0	4,157.2	4,221.2
02/25/86	22:55:01	3.917	4,205.5	4,216.7	4,282.7
02/25/86	23:00:00	4.000	4,266.3	4,279.5	4,343.5
02/25/86	23:04:59	4.083	4,327.1	4,340.3	4,404.3
02/25/86	23:10:01	4.167	4,388.6	4,401.8	4,465.8
02/25/86	23:15:00	4.250	4,449.4	4,462.6	4,526.6
02/25/86	23:19:59	4.333	4,510.1	4,523.3	4,587.3
02/25/86	23:25:01	4.417	4,572.2	4,585.4	4,649.4
02/25/86	23:30:00	4.500	4,633.6	4,646.8	4,710.8
02/25/86	23:34:59	4.583	4,695.0	4,708.2	4,772.2
02/25/86	23:40:01	4.667	4,757.2	4,770.4	4,834.4
02/25/86	23:45:00	4.750	4,818.6	4,831.8	4,895.8
02/25/86	23:49:59	4.833	4,880.0	4,893.2	4,957.2
02/25/86	23:55:01	4.917	4,943.0	4,956.2	5,020.2
02/26/86	00:00:00	5.000	5,015.1	5,028.3	5,092.3
02/26/86	00:15:00	5.250	5,232.2	5,245.4	5,309.4
02/26/86	00:30:00	5.500	5,443.8	5,457.0	5,521.0
02/26/86	00:45:00	5.750	5,648.5	5,661.7	5,725.7
02/26/86	01:00:00	6.000	5,856.9	5,870.1	5,934.1
02/26/86	01:15:00	6.250	6,076.9	6,090.1	6,154.1

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
02/26/86	01:30:00	6.500	6,296.8	6,310.0	6,374.0
02/26/86	01:45:00	6.750	6,515.8	6,529.0	6,593.0
02/26/86	02:00:00	7.000	6,734.5	6,747.7	6,811.7
02/26/86	02:15:00	7.250	6,966.1	6,979.3	7,043.3
02/26/86	02:30:00	7.500	7,194.9	7,208.1	7,272.1
02/26/86	02:45:00	7.750	7,392.0	7,405.2	7,469.2
02/26/86	03:00:00	8.000	7,588.5	7,601.7	7,665.7
02/26/86	03:15:00	8.250	7,775.2	7,788.4	7,852.4
02/26/86	03:30:00	8.500	7,961.5	7,974.7	8,038.7
02/26/86	03:45:00	8.750	8,121.6	8,134.8	8,198.8
02/26/86	04:00:00	9.000	8,267.1	8,280.3	8,344.3
02/26/86	04:15:00	9.250	8,392.7	8,405.9	8,469.9
02/26/86	04:30:00	9.500	8,492.8	8,506.0	8,570.0
02/26/86	04:45:00	9.750	8,581.3	8,594.5	8,658.5
02/26/86	05:00:00	10.000	8,665.6	8,678.8	8,742.8
02/26/86	05:30:00	10.500	8,799.7	8,812.9	8,876.9
02/26/86	06:00:00	11.000	8,900.7	8,913.9	8,977.9
02/26/86	06:30:00	11.500	8,982.1	8,995.3	9,059.3
02/26/86	07:00:00	12.000	9,051.5	9,064.7	9,128.7
02/26/86	07:30:00	12.500	9,114.1	9,127.3	9,191.3
02/26/86	08:00:00	13.000	9,164.1	9,177.3	9,241.3
02/26/86	08:30:00	13.500	9,205.5	9,218.7	9,282.7
02/26/86	09:00:00	14.000	9,248.0	9,261.2	9,325.2
02/26/86	09:30:00	14.500	9,293.1	9,306.3	9,370.3
02/26/86	10:00:00	15.000	9,334.1	9,347.3	9,411.3
02/26/86	10:30:00	15.500	9,366.3	9,379.5	9,443.5
02/26/86	11:00:00	16.000	9,394.7	9,407.9	9,471.9
02/26/86	11:30:00	16.500	9,421.0	9,434.2	9,498.2
02/26/86	12:00:00	17.000	9,444.4	9,457.6	9,521.6
02/26/86	12:30:00	17.500	9,465.8	9,479.0	9,543.0
02/26/86	13:00:00	18.000	9,485.0	9,498.2	9,562.2
02/26/86	13:30:00	18.500	9,504.8	9,518.0	9,582.0
02/26/86	14:00:00	19.000	9,524.8	9,538.0	9,602.0
02/26/86	14:30:00	19.500	9,539.9	9,553.1	9,617.1
02/26/86	15:00:00	20.000	9,553.1	9,566.3	9,630.3
02/26/86	16:00:00	21.000	9,580.0	9,593.2	9,657.2
02/26/86	17:00:00	22.000	9,601.6	9,614.8	9,678.8
02/26/86	18:00:00	23.000	9,620.8	9,634.0	9,698.0
02/26/86	19:00:00	24.000	9,639.0	9,652.2	9,716.2
02/26/86	20:00:00	25.000	9,655.2	9,668.4	9,732.4
02/26/86	21:00:00	26.000	9,670.6	9,683.8	9,747.8
02/26/86	22:00:00	27.000	9,684.6	9,697.8	9,761.8
02/26/86	23:00:00	28.000	9,698.6	9,711.8	9,775.8
02/27/86	00:00:00	29.000	9,708.8	9,722.0	9,786.0
02/27/86	01:00:00	30.000	9,718.8	9,732.0	9,796.0
02/27/86	02:00:00	31.000	9,728.3	9,741.5	9,805.5

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PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
02/27/86	03:00:00	32.000	9,736.1	9,749.3	9,813.3
02/27/86	04:00:00	33.000	9,743.9	9,757.1	9,821.1
02/27/86	05:00:00	34.000	9,751.6	9,764.8	9,828.8
02/27/86	06:00:00	35.000	9,758.0	9,771.2	9,835.2
02/27/86	07:00:00	36.000	9,764.1	9,777.3	9,841.3
02/27/86	08:00:00	37.000	9,770.3	9,783.5	9,847.5
02/27/86	09:00:00	38.000	9,776.4	9,789.6	9,853.6
02/27/86	10:00:00	39.000	9,782.0	9,795.2	9,859.2
02/27/86	11:00:00	40.000	9,787.5	9,800.7	9,864.7
02/27/86	12:00:00	41.000	9,793.1	9,806.3	9,870.3
02/27/86	13:00:00	42.000	9,796.9	9,810.1	9,874.1
02/27/86	14:00:00	43.000	9,800.3	9,813.5	9,877.5
02/27/86	15:00:00	44.000	9,803.6	9,816.8	9,880.8
02/27/86	16:00:00	45.000	9,807.0	9,820.2	9,884.2
02/27/86	17:00:00	46.000	9,810.3	9,823.5	9,887.5
02/27/86	18:00:00	47.000	9,813.6	9,826.8	9,890.8
02/27/86	19:00:00	48.000	9,816.1	9,829.3	9,893.3
02/27/86	20:00:00	49.000	9,818.6	9,831.8	9,895.8
02/27/86	21:00:00	50.000	9,821.1	9,834.3	9,898.3
02/27/86	22:00:00	51.000	9,823.6	9,836.8	9,900.8
02/27/86	23:00:00	52.000	9,826.1	9,839.3	9,903.3
02/28/86	00:00:00	53.000	9,828.6	9,841.8	9,905.8
02/28/86	01:00:00	54.000	9,831.1	9,844.3	9,908.3
02/28/86	02:00:00	55.000	9,833.6	9,846.8	9,910.8
02/28/86	03:00:00	56.000	9,836.1	9,849.3	9,913.3
02/28/86	04:00:00	57.000	9,838.0	9,851.2	9,915.2
02/28/86	05:00:00	58.000	9,839.6	9,852.8	9,916.8
02/28/86	06:00:00	59.000	9,841.3	9,854.5	9,918.5
02/28/86	07:00:00	60.000	9,842.9	9,856.1	9,920.1
02/28/86	08:00:00	61.000	9,844.5	9,857.7	9,921.7
02/28/86	09:00:00	62.000	9,846.2	9,859.4	9,923.4
02/28/86	10:00:00	63.000	9,847.8	9,861.0	9,925.0
02/28/86	11:00:00	64.000	9,849.4	9,862.6	9,926.6
02/28/86	12:00:00	65.000	9,851.1	9,864.3	9,928.3
02/28/86	13:00:00	66.000	9,852.7	9,865.9	9,929.9
02/28/86	14:00:00	67.000	9,854.3	9,867.5	9,931.5
02/28/86	15:00:00	68.000	9,856.0	9,869.2	9,933.2
02/28/86	16:00:00	69.000	9,857.5	9,870.7	9,934.7
02/28/86	17:00:00	70.000	9,859.0	9,872.2	9,936.2
02/28/86	18:00:00	71.000	9,860.5	9,873.7	9,937.7
02/28/86	19:00:00	72.000	9,862.0	9,875.2	9,939.2
02/28/86	20:00:00	73.000	9,863.5	9,876.7	9,940.7
02/28/86	21:00:00	74.000	9,865.0	9,878.2	9,942.2
02/28/86	22:00:00	75.000	9,866.5	9,879.7	9,943.7
02/28/86	23:00:00	76.000	9,868.0	9,881.2	9,945.2
03/01/86	00:00:00	77.000	9,869.5	9,882.7	9,946.7

BENNETT-CATHEY WIRE LINE SERVICE
 PHONE (505) 746-3354
 ARTESIA, NEW MEXICO, 88210

PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
-03/01/86	01:00:00	78.000	9,870.9	9,884.1	9,948.1
03/01/86	02:00:00	79.000	9,872.4	9,885.6	9,949.6
03/01/86	03:00:00	80.000	9,873.9	9,887.1	9,951.1
03/01/86	04:00:00	81.000	9,875.4	9,888.6	9,952.6
03/01/86	05:00:00	82.000	9,876.8	9,890.0	9,954.0
03/01/86	06:00:00	83.000	9,878.1	9,891.3	9,955.3
03/01/86	07:00:00	84.000	9,879.5	9,892.7	9,956.7
03/01/86	08:00:00	85.000	9,880.6	9,894.0	9,958.0
03/01/86	09:00:00	86.000	9,882.1	9,895.3	9,959.3
03/01/86	10:00:00	87.000	9,883.4	9,896.6	9,960.6
03/01/86	11:00:00	88.000	9,884.7	9,897.9	9,961.9
03/01/86	12:00:00	89.000	9,886.0	9,899.2	9,963.2
03/01/86	13:00:00	90.000	9,887.3	9,900.5	9,964.5
03/01/86	14:00:00	91.000	9,888.6	9,901.8	9,965.8
03/01/86	15:00:00	92.000	9,889.9	9,903.1	9,967.1
03/01/86	16:00:00	93.000	9,891.2	9,904.4	9,968.4
03/01/86	17:00:00	94.000	9,892.5	9,905.7	9,969.7
03/01/86	18:00:00	95.000	9,893.5	9,906.7	9,970.7
03/01/86	19:00:00	96.000	9,894.2	9,907.4	9,971.4
03/01/86	20:00:00	97.000	9,895.0	9,908.2	9,972.2
03/01/86	21:00:00	98.000	9,895.7	9,908.9	9,972.9
03/01/86	22:00:00	99.000	9,896.5	9,909.7	9,973.7
03/01/86	23:00:00	100.000	9,897.2	9,910.4	9,974.4
03/02/86	00:00:00	101.000	9,898.0	9,911.2	9,975.2
03/02/86	01:00:00	102.000	9,898.7	9,911.9	9,975.9
03/02/86	02:00:00	103.000	9,899.5	9,912.7	9,976.7
03/02/86	03:00:00	104.000	9,900.2	9,913.4	9,977.4
03/02/86	04:00:00	105.000	9,901.0	9,914.2	9,978.2
03/02/86	05:00:00	106.000	9,901.8	9,915.0	9,979.0
03/02/86	06:00:00	107.000	9,902.5	9,915.7	9,979.7
03/02/86	07:00:00	108.000	9,903.3	9,916.5	9,980.5
03/02/86	08:00:00	109.000	9,904.0	9,917.2	9,981.2
03/02/86	09:00:00	110.000	9,904.8	9,918.0	9,982.0
03/02/86	10:00:00	111.000	9,905.5	9,918.7	9,982.7
03/02/86	11:00:00	112.000	9,906.3	9,919.5	9,983.5
03/02/86	12:00:00	113.000	9,907.1	9,920.3	9,984.3
03/02/86	13:00:00	114.000	9,907.9	9,921.1	9,985.1
03/02/86	14:00:00	115.000	9,908.6	9,921.8	9,985.8
03/02/86	15:00:00	116.000	9,909.4	9,922.6	9,986.6
03/02/86	16:00:00	117.000	9,910.2	9,923.4	9,987.4
03/02/86	17:00:00	118.000	9,911.0	9,924.2	9,988.2
03/02/86	18:00:00	119.000	9,911.8	9,925.0	9,989.0
03/02/86	19:00:00	120.000	9,912.5	9,925.7	9,989.7
03/02/86	20:00:00	121.000	9,913.3	9,926.5	9,990.5
03/02/86	21:00:00	122.000	9,914.1	9,927.3	9,991.3
03/02/86	22:00:00	123.000	9,914.9	9,928.1	9,992.1

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
03/02/86	23:00:00	124.000	9,915.6	9,928.8	9,992.8
03/03/86	00:00:00	125.000	9,916.4	9,929.6	9,993.6
03/03/86	01:00:00	126.000	9,917.2	9,930.4	9,994.4
03/03/86	02:00:00	127.000	9,918.0	9,931.2	9,995.2
03/03/86	03:00:00	128.000	9,918.8	9,932.0	9,996.0
03/03/86	04:00:00	129.000	9,919.5	9,932.7	9,996.7
03/03/86	05:00:00	130.000	9,920.3	9,933.5	9,997.5
03/03/86	06:00:00	131.000	9,921.1	9,934.3	9,998.3
03/03/86	07:00:00	132.000	9,921.9	9,935.1	9,999.1
03/03/86	08:00:00	133.000	9,922.2	9,935.4	9,999.4
03/03/86	09:00:00	134.000	9,922.4	9,935.6	9,999.6
03/03/86	10:00:00	135.000	9,922.7	9,935.9	9,999.9
03/03/86	11:00:00	136.000	9,922.9	9,936.1	10,000.1
03/03/86	12:00:00	137.000	9,923.1	9,936.3	10,000.3
03/03/86	13:00:00	138.000	9,923.4	9,936.6	10,000.6
03/03/86	14:00:00	139.000	9,923.6	9,936.8	10,000.8
03/03/86	15:00:00	140.000	9,923.9	9,937.1	10,001.1
03/03/86	16:00:00	141.000	9,924.1	9,937.3	10,001.3
03/03/86	17:00:00	142.000	9,924.3	9,937.5	10,001.5
03/03/86	18:00:00	143.000	9,924.6	9,937.8	10,001.8
03/03/86	19:00:00	144.000	9,924.8	9,938.0	10,002.0
03/03/86	20:00:00	145.000	9,925.1	9,938.3	10,002.3
03/03/86	21:00:00	146.000	9,925.3	9,938.5	10,002.5
03/03/86	22:00:00	147.000	9,925.5	9,938.7	10,002.7
03/03/86	23:00:00	148.000	9,926.0	9,939.2	10,003.2
03/04/86	00:00:00	149.000	9,926.7	9,939.9	10,003.9
03/04/86	01:00:00	150.000	9,927.4	9,940.6	10,004.6
03/04/86	02:00:00	151.000	9,928.0	9,941.2	10,005.2
03/04/86	03:00:00	152.000	9,928.7	9,941.9	10,005.9
03/04/86	04:00:00	153.000	9,929.4	9,942.6	10,006.6
03/04/86	05:00:00	154.000	9,930.1	9,943.3	10,007.3
03/04/86	06:00:00	155.000	9,930.8	9,944.0	10,008.0
03/04/86	07:00:00	156.000	9,931.5	9,944.7	10,008.7
03/04/86	08:00:00	157.000	9,932.2	9,945.4	10,009.4
03/04/86	09:00:00	158.000	9,932.9	9,946.1	10,010.1
03/04/86	10:00:00	159.000	9,933.5	9,946.7	10,010.7
03/04/86	11:00:00	160.000	9,934.2	9,947.4	10,011.4
03/04/86	12:00:00	161.000	9,934.9	9,948.1	10,012.1
03/04/86	13:00:00	162.000	9,935.6	9,948.8	10,012.8
03/04/86	14:00:00	163.000	9,936.3	9,949.5	10,013.5
03/04/86	15:00:00	164.000	9,936.9	9,950.1	10,014.1
03/04/86	16:00:00	165.000	9,937.6	9,950.8	10,014.8
03/04/86	17:00:00	166.000	9,938.2	9,951.4	10,015.4
03/04/86	18:00:00	167.000	9,938.8	9,952.0	10,016.0
03/04/86	19:00:00	168.000	9,939.5	9,952.7	10,016.7
03/04/86	20:00:00	169.000	9,940.1	9,953.3	10,017.3

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

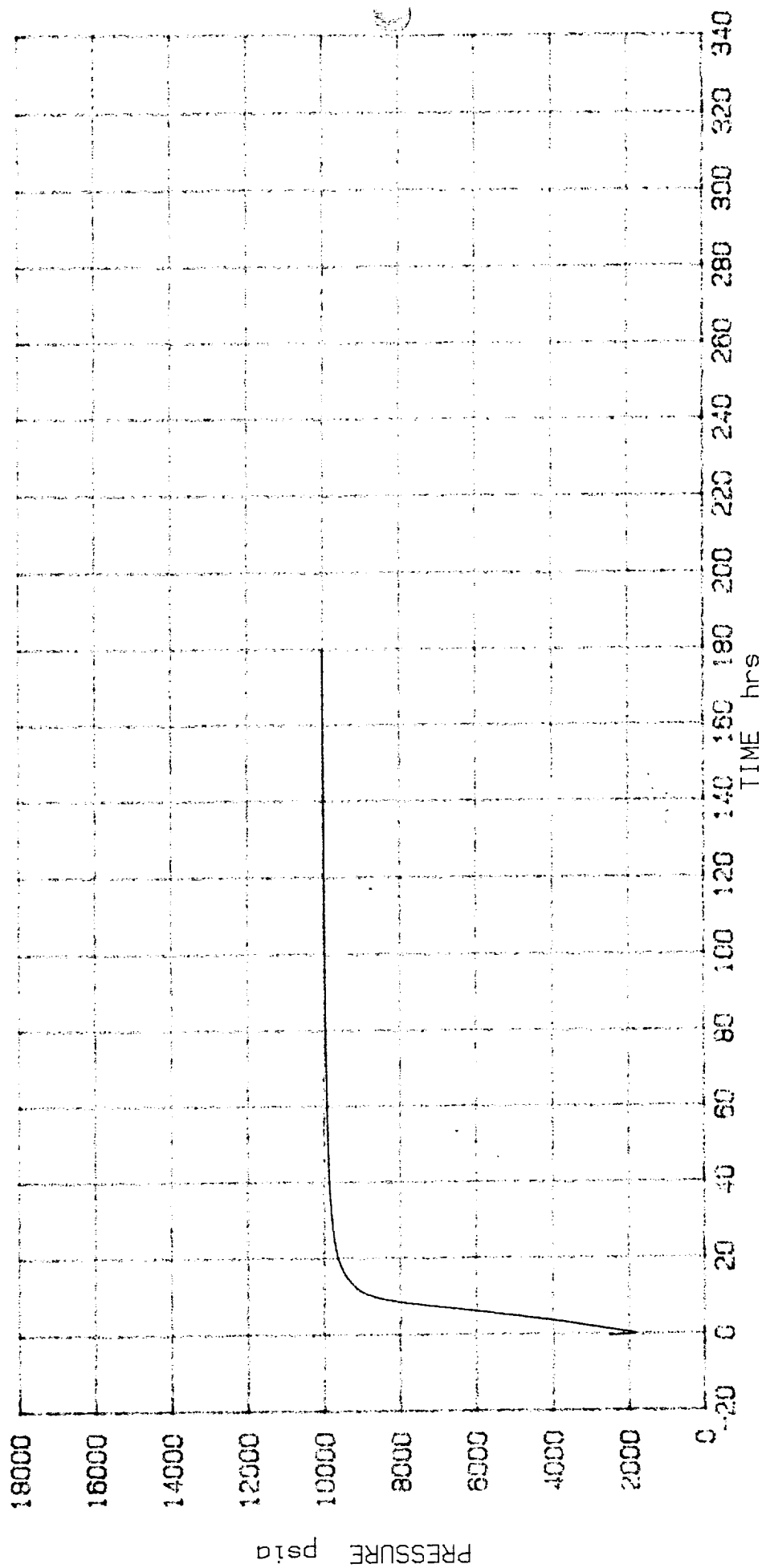
PRESSURE TRANSIENT TEST DATA

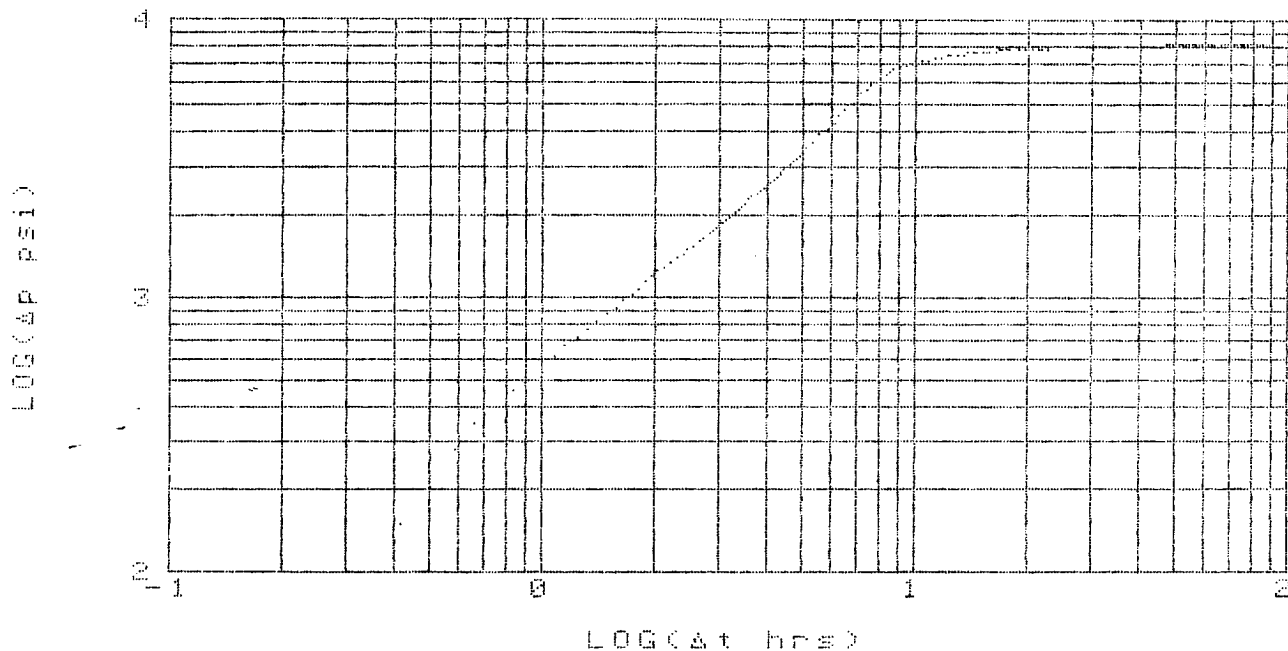
SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
03/04/86	21:00:00	170.000	9,940.7	9,953.9	10,017.9
03/04/86	22:00:00	171.000	9,941.4	9,954.6	10,018.6
03/04/86	23:00:00	172.000	9,942.0	9,955.2	10,019.2
03/05/86	00:00:00	173.000	9,942.6	9,955.8	10,019.8
03/05/86	01:00:00	174.000	9,943.3	9,956.5	10,020.5
03/05/86	02:00:00	175.000	9,943.9	9,957.1	10,021.1
03/05/86	03:00:00	176.000	9,944.5	9,957.7	10,021.7
03/05/86	04:00:00	177.000	9,945.2	9,958.4	10,022.4
03/05/86	05:00:00	178.000	9,945.8	9,959.0	10,023.0
03/05/86	06:00:00	179.000	9,946.4	9,959.6	10,023.6
03/05/86	07:00:00	180.000	9,947.1	9,960.3	10,024.3

TEST DATE: 02/25/86 TO 03/05/86
TEST DEPTH: 12040 ft
ELEMENT NO: RPC3#24374
RANGE: 12300 psig
CLOCK: 22863
RANGE: 180 hrs
OPERATOR: BO FAULKENBERRY

DAVE MOSER
EARLE M. CRAIG JR. CORP.
SPIITFIRE 25 #1
BENNETT-CATHEY WIRE LINE SERVICE Box 787 Artesia, N.M. 88210 (505) 748-3354





COMPANY: EARLE M. CRAIG JR. CORP.

LEASE: SPITFIRE 25

FIELD: PHANTOM DRAW

COUNTY: EDDY

STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST

CONTACT: DAVE MOSER

WELL: #1

ZONE: WOLFCAMP

STATE: NEW MEXICO

OPERATOR: BO FAULKENBERRY

PERFORATIONS FROM: 12227 ft

DEPTH: 12040 ft

TO: 12651 ft

TEMPERATURE: 300 °F

ELEMENT# RFG3#25670

CLOCK# 9499

ELEMENT# RFG3#24374

CLOCK# 22863

RANGE: 15125 psi

RANGE: 180 hrs

RANGE: 12300 psi

RANGE: 180 hrs

START CLOCK	02/25/86	17:24:00	1352 psig
SET ELEMENT	02/25/86	18:30:00	1352 psig
WELL SHUT IN	02/25/86	19:00:00	1352 psig
TEST ENDED	03/05/86	12:47:00	8235 psig

FILE: 125-FIRE:D701

240/qB= 0 hrs/psi

Gain= 1

tsi= 0 hrs

tp= 172 hrs

Dt/tD= 1 hrs

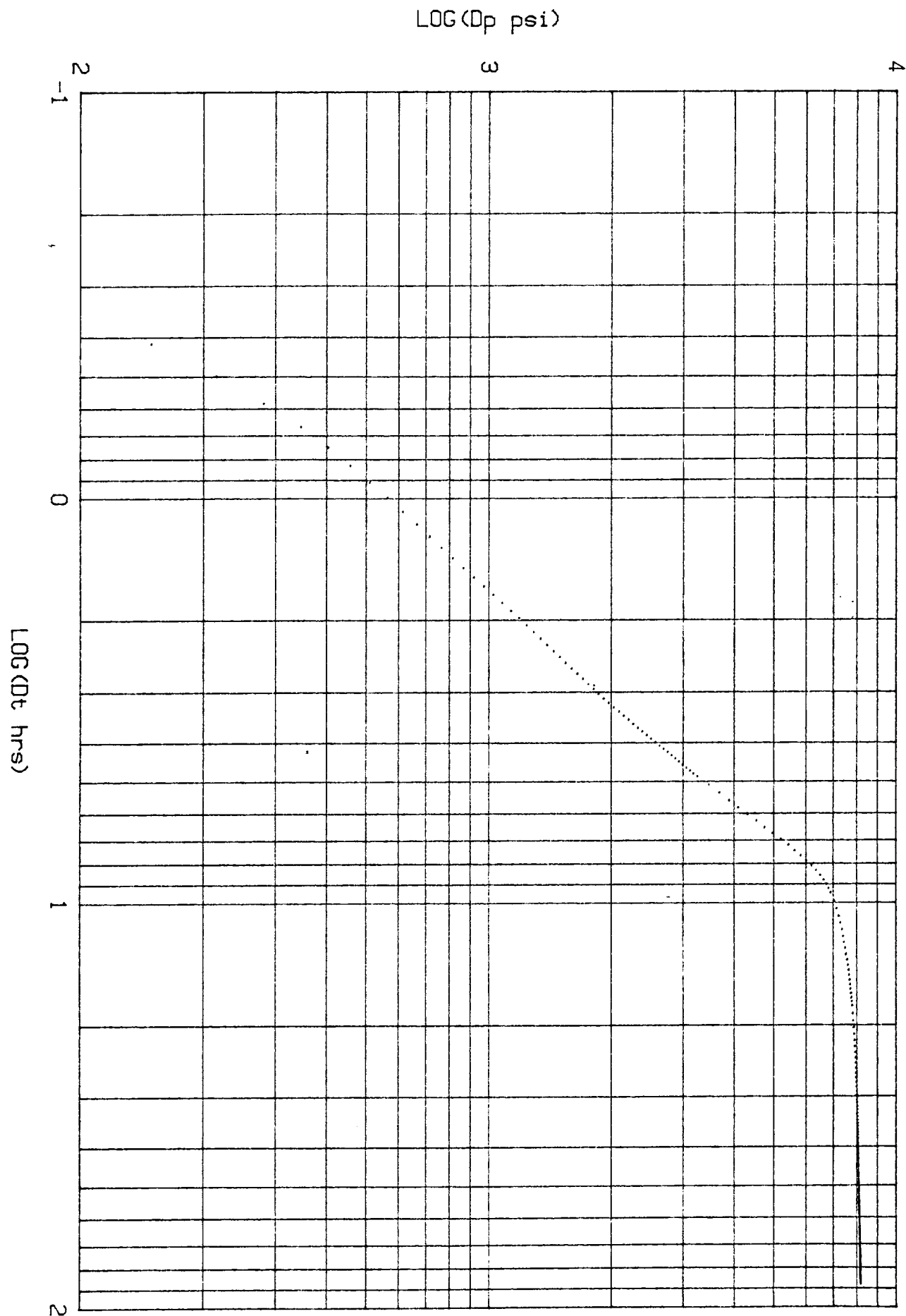
pA= 13.2 psia

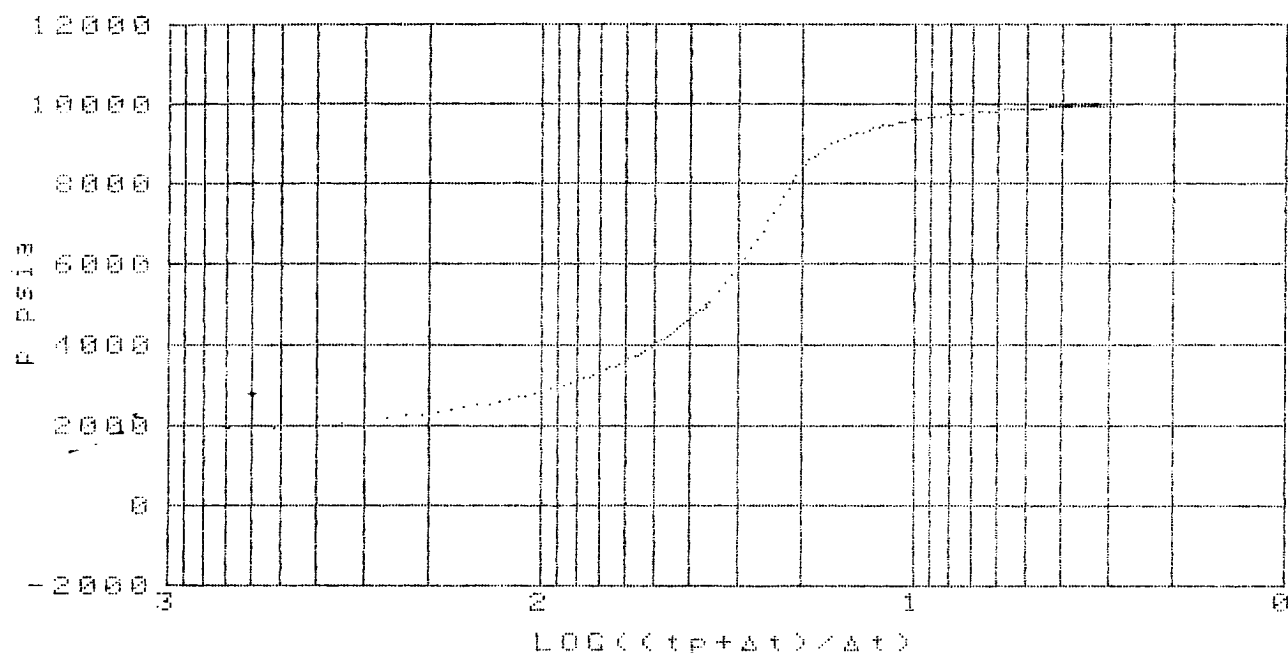
Bias= 64 psi

pwf= 1840.586 psia

dps= 0 psi

Dp/pD= 1 psi





COMPANY: EARLE M. CRAIG JR. CORP.
 LEASE: SPITFIRE 25
 FIELD: PHANTOM DRAW
 COUNTY: EDDY
 STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST

CONTACT: DAVE MOSER
 WELL: #1
 ZONE: WOLFCAMP
 STATE: NEW MEXICO
 OPERATOR: BO FAULKENBERRY

PERFORATIONS FROM: 12227 ft
 DEPTH: 12040 ft

TO: 12651 ft
 TEMPERATURE: 300°F

ELEMENT# RPG3#25670
 CLOCK# 9499
 ELEMENT# RPG3#24374
 CLOCK# 22863

RANGE: 15125 psi
 RANGE: 180 hrs
 RANGE: 12300 psi
 RANGE: 180 hrs

START CLOCK	02/25/86	17:24:00	1352 psig
SET ELEMENT	02/25/86	18:30:00	1352 psig
WELL SHUT IN	02/25/86	19:00:00	1352 psig
TEST ENDED	03/05/86	12:47:00	8235 psig

FILE: 125-FIRE:D701

24D/qB= 0 hrs/psi

Gain= 1

tsi= 0 hrs

tp= 172 hrs

m= 0 psi/cycle

pA= 13.2 psia

Bias= 64 psi

pwf= 1840.586 psia

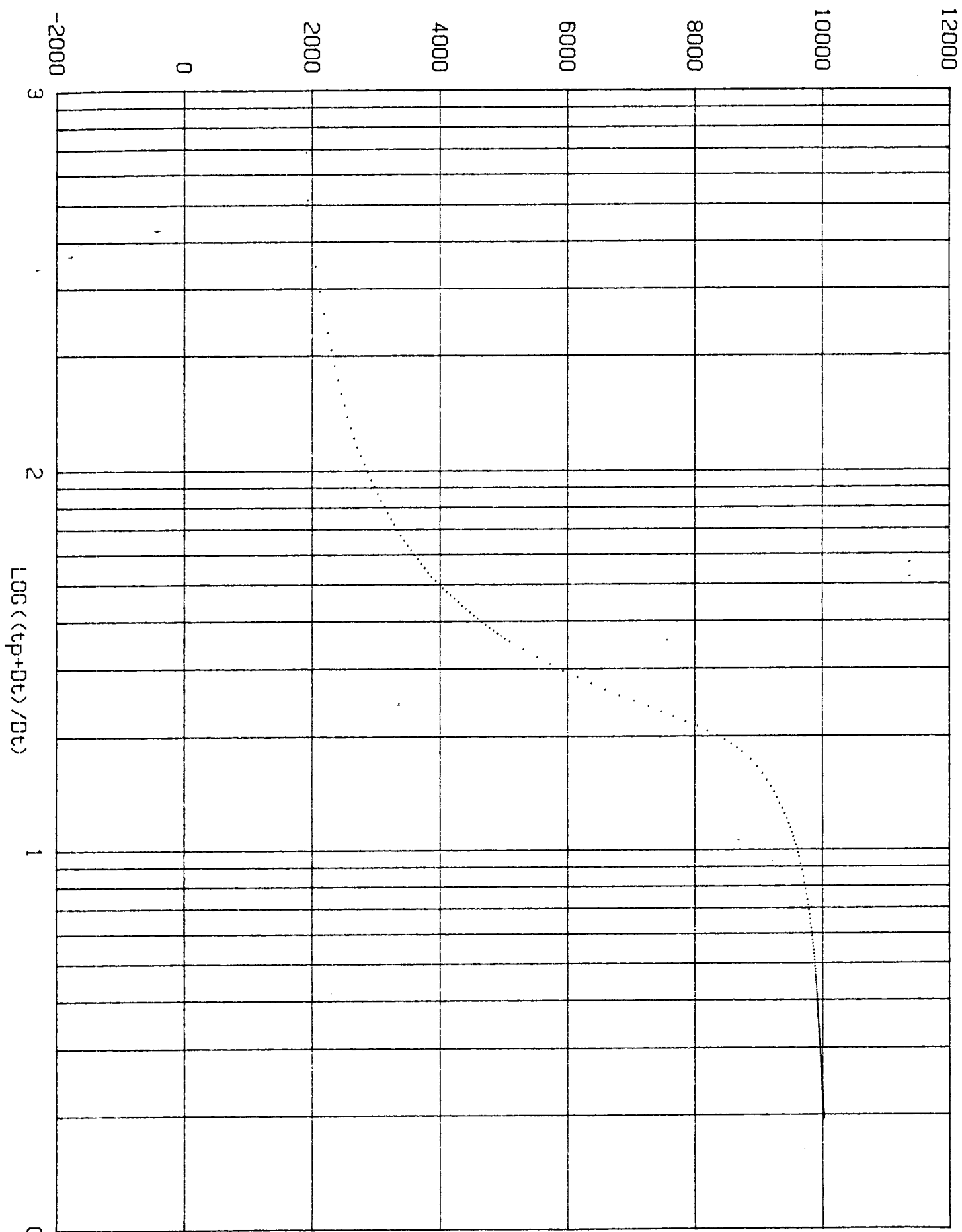
dps= 0 psi

p*= 0 psia

SPITFIRE 25 #1

02/25/86

p psia



UNIT :
 LEASE : SPITFIRE 25
 WELL : 1
 S/T/R : 25 26S 30E
 COUNTY: EDDY
 STATE : NEW MEXICO

TYPE TEST: 4 POINT
 : INITIAL
 TEST DATE: 2/25/86

NEW MEXICO OIL CONSERVATION COMMISSION
 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

COMPANY: EARL M CRAIG
 FIELD: PHANTOM DRAW POOL:
 COMPLETED 1 28 86 TD = 12804.
 CSG SIZE = 4.5000 WT = 11.60
 TBG SIZE = 2.3750 WT = 4.70
 TYPE COMPLETION: SINGLE
 PRODUCING THROUGH: TUBING
 RESERVOIR TEMP., F = 300. @12439. FT.
 CONNECTION: TO AIR
 RESERVOIR: WOLF CAMP
 PBD = 12719. ELEV = 3075.
 SET AT 12804. PERF: 12719.-12651.
 SET AT 12030. PERF: 0.- 0.
 PACKER SET AT: 12030.
 BARO.PRESS = 13.20 PSIA
 MEAN GROUND TEMP., F = 60.

L	H	G	% CO2	% N2	% H2S	PROVER	M-RUN	TAPS
12439.	12439.	0.657	1.09	5.88	0.	0.	4.0	FLANGE

NO.	LINE SIZE	ORI. SIZE	FLOW PSIG	HW IN.	FLOW TEMP	TBG. PSIG	TBG. TEMP	BHP PSIG	BH TEMP	FLOW HRS.
SI						8287		10127.	300.	72.0
1	4.03 X	1.250	495.	8.5	80.	6670	0.	8434.	300.	1.0 2/64
2	4.03 X	1.250	540.	11.0	83.	4452	0.	5996.	300.	1.0 3/64
3	4.03 X	1.250	510.	14.0	90.	2594	0.	3619.	300.	1.0 7/64
4	4.03 X	1.250	480.	10.0	92.	2040	0.	2933.	300.	1.0 12/64

NO.	COEFFICIENT (24 - HOUR)	SQRT. (HWPM)	PRESS. PM	T-FACTR F(T)	G-FACTR F(G)	SC-FACTR F(PV)	FLOW MCFD
1	7.47	65.72	508.2	0.9813	1.2337	1.0397	618.
2	7.47	78.01	553.2	0.9786	1.2337	1.0423	733.
3	7.47	85.59	523.2	0.9723	1.2337	1.0381	796.
4	7.47	70.23	493.2	0.9706	1.2337	1.0354	650.

NO.	F(R)	TEMP. R	T(R)	Z	GAS LIQ RATIO, MCF/BBL	0.
1	0.77	540.	1.51	0.925	API G OF HYDROCARBONS	0.
2	0.83	543.	1.51	0.920	SP G SEPARATOR GAS	0.657 XXXXX
3	0.79	550.	1.53	0.928	SP G FLOWILUID	XXXXX 0.657
4	0.74	552.	1.54	0.933	CRITICAL PRES., PSIA	664. 664.
					CRITICAL TEMP., R	358. 358.

NO.	PW	PW*PW	PC*PC-PW*PW	PC =	8498.6
1	6932.	48049.	24178.	PC =	8498.6
2	4747.	22532.	49695.	PC*PC =	72226.
3	2759.	7612.	64615.	PC*PC/(PC*PC-PW*PW) =	1.1178
4	2225.	4952.	67274.	(PC*PC/(PC*PC-PW*PW))**N =	1.0576
				ADF (MCF/DAY) =	842.

UNIT :
LEASE : SPITFIRE 25
WELL : 1
S/T/R : 25 26S 30E
COUNTY: EDDY
STATE : NEW MEXICO

TEST: 4 POINT
: INITIAL
TEST DATE: 2/25/86

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

PAGE 2

CALC WH OPEN FLOW= 842. MCFD @ 15.025, SLOPE ANGLE= 63.3, N= 0.503

APPROVED BY
COMMISSION: CONDUCTED BY: CALCULATED BY: CHECKED BY:

I, _____, BEING FIRST DULY SWORN ON OATH, STATE THAT
I AM FAMILIAR WITH FACTS AND FIGURES SET FORTH IN THIS REPORT,
AND THAT THE REPORT IS TRUE AND CORRECT.

SIGNATURE AND TITLE OF AFFIANT

COMPANY

SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ DAY OF _____, 19____

MY COMMISSION EXPIRES

NOTARY PUBLIC

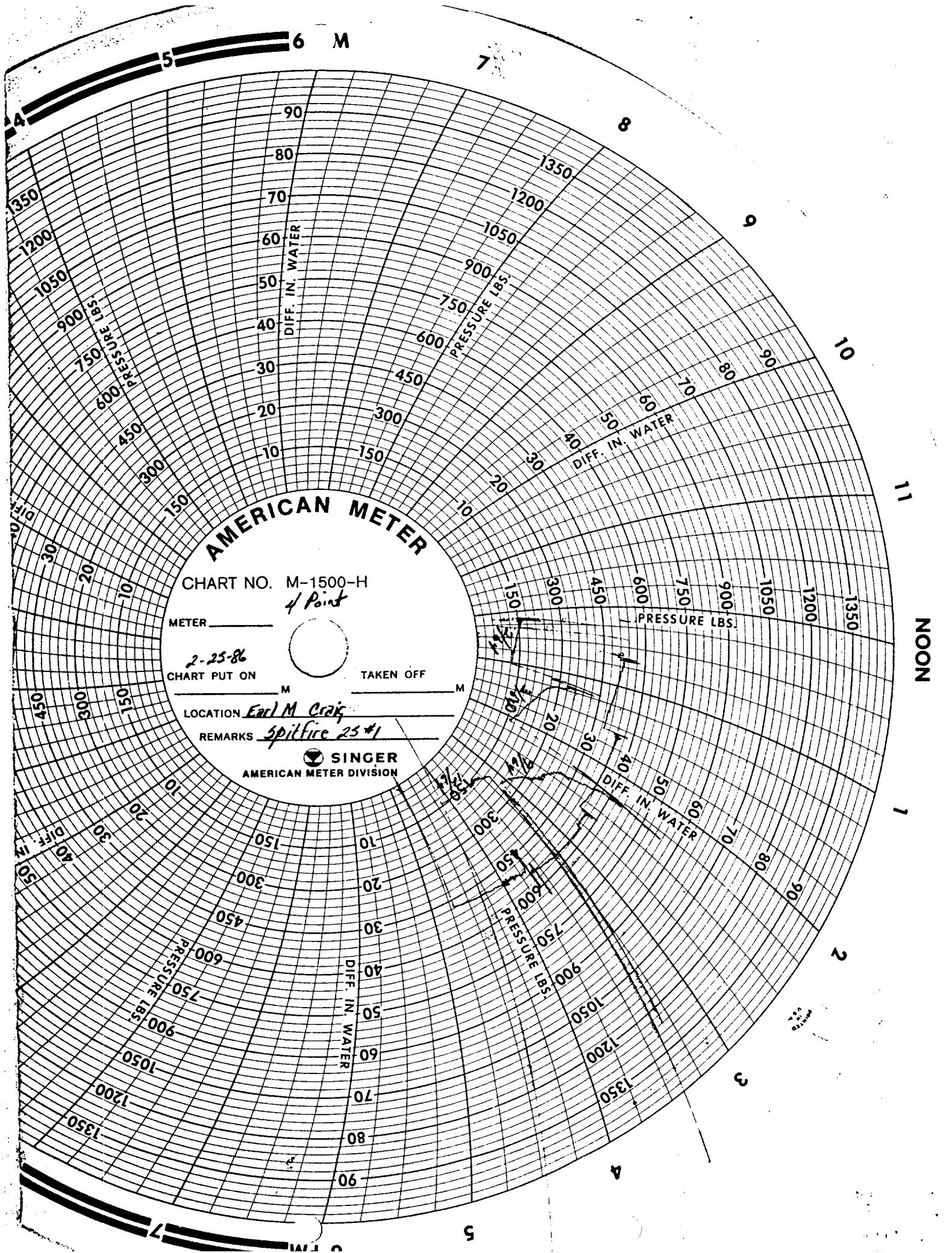


CHART NO. M-1500-H

4 Point

METER _____

2-25-86

CHART PUT ON _____

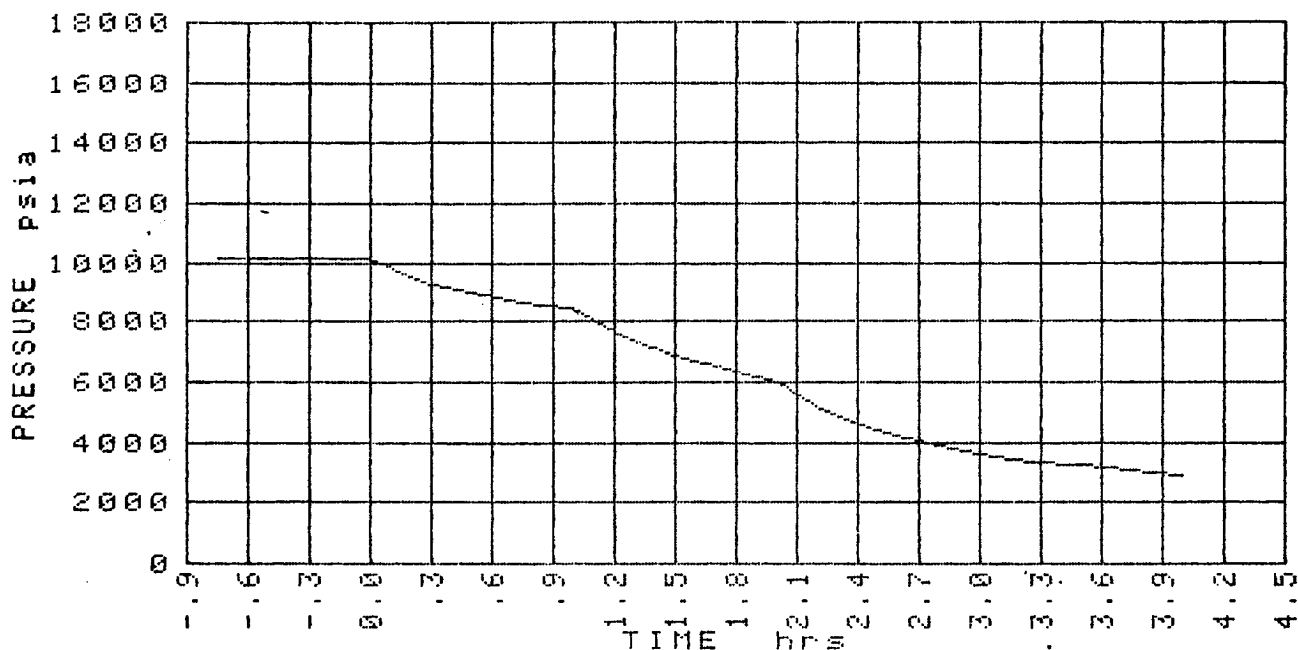
TAKEN OFF _____

LOCATION *Earl M Craig*

REMARKS *Spillfire 25 #1*



SINGER
AMERICAN METER DIVISION



COMPANY: EARL M. CRAIG
 LEASE: SPITFIRE 25
 FIELD:
 COUNTY: EDDY
 STATUS: FOUR POINT BACK PRESSURE TEST
 PERFORATIONS FROM: 12227 ft
 DEPTH: 12040 ft

CONTACT: DAVE MOSER
 WELL: #1
 ZONE: WOLFCAMP
 STATE: NEW MEXICO
 OPERATOR: RICHARD TOWNLEY
 TO: 12651 ft
 TEMPERATURE: 300°F

ELEMENT# RP63#25670
 CLOCK# 21664
 ELEMENT# RP63#24374
 CLOCK# 21663

ELEMENT RANGE: 15125 psig
 CLOCK RANGE: 12 hrs
 ELEMENT RANGE: 12300 psig
 CLOCK RANGE: 12 hrs

START CLOCK 02/25/86
 SET ELEMENT 02/25/86
 WELL SHUT IN 01/28/86
 TEST ENDED 02/25/86

09:37:00 8287 psig
 11:17:00 8287 psig
 12:00:00 0 psig
 16:30:00 2040 psig

GAIN= 1
 FILE: 125-SPIT:D701

BIAS= 83 psi
 BAROMETRIC PRESSURE= 13.2 psia

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

PRESSURE TRANSIENT TEST DATA

COMPANY: EARL M. CRAIG
 LEASE: SPITFIRE 25
 FIELD:
 COUNTY: EDDY
 STATUS: FOUR POINT BACK PRESSURE TEST

CONTACT: DAVE MOSER
 WELL: #1
 ZONE: WOLFCAMP
 STATE: NEW MEXICO
 OPERATOR: RICHARD TOWNLEY

PERFORATIONS FROM: 12,227.0'
 DEPTH: 12,040.0'

TO: 12,651.0'
 TEMPERATURE: 300.0°F

ELEMENT: RFG3#25670
 CLOCK: 21664
 ELEMENT: RFG3#24374
 CLOCK: 21663

RANGE: 15125 psig
 RANGE: 12 hrs
 RANGE: 12300 psig
 RANGE: 12 hrs

SURFACE PRESSURE MEASUREMENTS

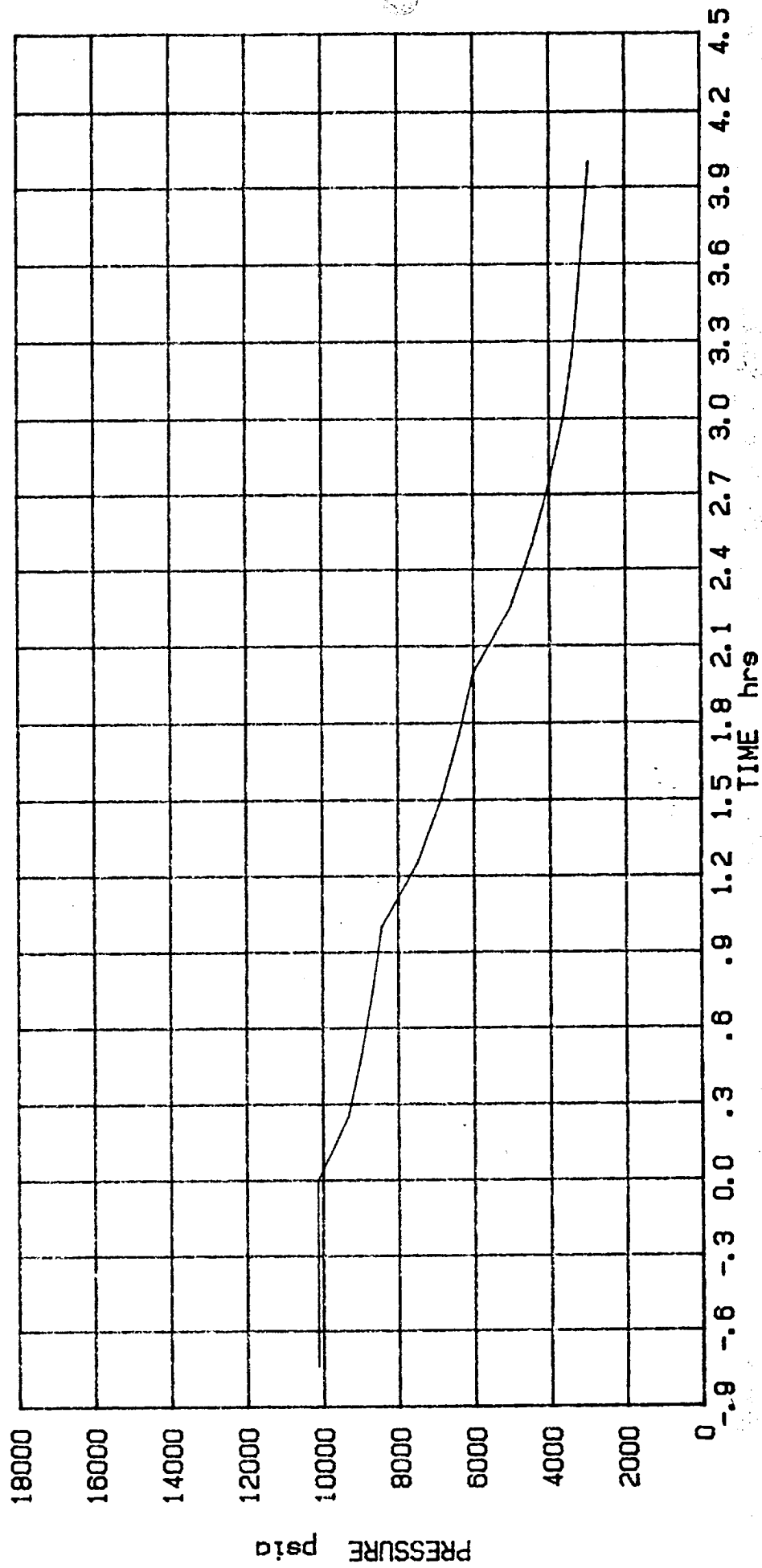
EVENT	DATE	TIME	DEAD WEIGHT PRESSURE
START CLOCK	02/25/86	09:37:00	8,287.0 psig
SET ELEMENT	02/25/86	11:17:00	8,287.0 psig
WELL SHUT IN	01/28/86	12:00:00	0.0 psig
TEST ENDED	02/25/86	16:30:00	2,040.0 psig

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
02/25/86	11:45:35	-.740	10,044.1	10,057.3	10,140.3
02/25/86	12:30:00	0.000	10,044.1	10,057.3	10,140.3
02/25/86	12:45:00	.250	9,245.1	9,258.3	9,341.3
02/25/86	13:00:01	.500	8,876.2	8,889.4	8,972.4
02/25/86	13:15:00	.750	8,587.4	8,600.6	8,683.6
02/25/86	13:30:00	1.000	8,351.1	8,364.3	8,447.3
02/25/86	13:45:00	1.250	7,410.8	7,424.0	7,507.0
02/25/86	14:00:00	1.500	6,784.5	6,797.7	6,880.7
02/25/86	14:15:00	1.750	6,303.3	6,316.5	6,399.5
02/25/86	14:30:00	2.000	5,913.3	5,926.5	6,009.5
02/25/86	14:45:00	2.250	4,935.4	4,948.6	5,031.6
02/25/86	15:00:00	2.500	4,352.9	4,366.1	4,449.1
02/25/86	15:15:00	2.750	3,903.1	3,916.3	3,999.3
02/25/86	15:30:00	3.000	3,536.0	3,549.2	3,632.2
02/25/86	15:45:00	3.250	3,288.0	3,301.2	3,384.2
02/25/86	16:00:00	3.500	3,132.5	3,145.7	3,228.7
02/25/86	16:15:00	3.750	2,983.2	2,996.4	3,079.4
02/25/86	16:30:00	4.000	2,849.9	2,863.1	2,946.1

TEST DATE: 02/25/86 TO 02/25/86
 TEST DEPTH: 12040 ft
 ELEMENT NO: RPC3#24374
 RANGE: 12300 psig
 CLOCK: 21663
 RANGE: 12 hrs
 OPERATOR: RICHARD TOWNLEY

DAVE MOSER
EARL M. CRAIG
SPITFIRE 25 #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

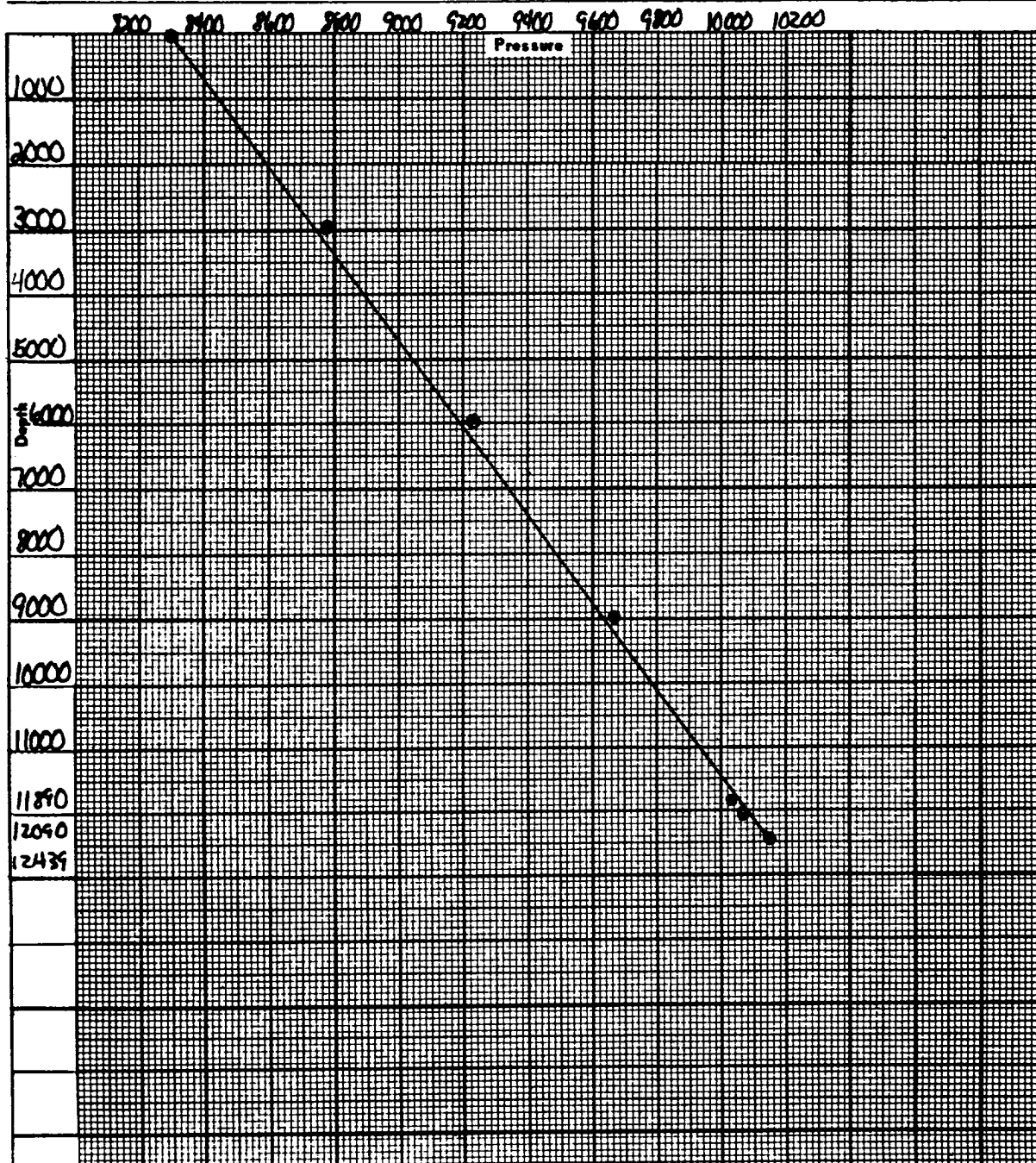


BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR EARLE M. CRAIG
LEASE SPIT FIRE 25
WELL NO. 1
POOL FORMATION WOLFCAMP
DATE 2-25-86 TIME 1630 HOURS
CO. MAN DAVE MOSER
STATUS SHUT IN TEST DEPTH 12040'
TIME S.I. 1200 HRS LAST TEST DATE 1-28-86
BHP LAST TEST 8300.2
TUB. PRES. 8300.2 BHP CHANGE 0
CAS. PRES. FLUID TOP
DATUM PLANE WATER TOP
DATUM PSIA 10153.2 RUN BY BO FAULKENBERRY
TEMP 300° CLOCK # 21663
PRESSURE RANGE 12300#
ELEMENT NO. RPG3#24374

DEPTH	PSIA PRESSURE	LBS/100 FT GRADIENT
0	8300.2	
3000	8780.2	16.0
6000	9231.2	15.0
9000	9663.2	14.4
11890	10039.2	13.0
12090	10070.2	20.7
12439	10153.2	20.8

12439 FEET WAS EXTRAPOLATED
TIME B.H.P. MEASURED 1630 HOURS
LENGTH OF TIME WELL SHUT IN
676 HOURS 30 MINUTES
PERFORATIONS FROM 12227 TO 12651





BENN. T-CATHEY WIRE LINE SERVICE

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BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR EARLE M. CRAIG
LEASE SPIT FIRE 25
WELL NO. 1
POOL FORMATION WOLFCAMP
DATE 2-25-86 **TIME** 1630 HOURS
CO. MAN DAVE MOSER
STATUS SHUT IN **TEST DEPTH** 12040'
TIME S.I. 1200 HRS **LAST TEST DATE** 1-28-86
BHP LAST TEST 8300.2
TUB. PRES. 8300.2 **BHP CHANGE** FLUID TOP
CAS. PRES. WATER TOP
DATUM PLANE 10153.2 **RUN BY** BO FAULKENBERRY
TEMP 300° **CLOCK #** 21663
PRESSURE RANGE 12300#
ELEMENT NO. RPG3#24374

DEPTH	PSIA PRESSURE	LBS/100 FT GRADIENT
0	8300.2	
3000	8780.2	16.0
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9000	9663.2	14.4
11890	10039.2	13.0
12090	10070.2	20.7
12439	10153.2	20.8

12439 FEET WAS EXTRAPOLATED

TIME B.H.P. MEASURED 1630 HOURS

 LENGTH OF TIME WELL SHUT IN
 676 HOURS 30 MINUTES

PERFORATIONS FROM 12227 TO 12651

