

W MEXICO OIL CONSERVATION COM. SION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Form 122
Revised 9-1-65
MAR 21 1985
O. C. D.
ARTIFICIAL LIFT OFFICE
d/sf
File

Type Test ☒ Initial ☐ Annual ☐ Special										Test Date	
Company STEVENS OPERATING ✓					Connection TO AIR						
Pool WILDCAT <i>Fusselman</i>					Formation FUSSELMAN					Unit F	
Completion Date 3/6/85			Total Depth 8075-8080		Plug Back To 7981-7984		Elevation 4035		Prop. or Lease Name OBRIAN OO		
Coq. Size 5.500	Wt. 17.0	d 4.892	Set At 8075	Perforations: From 7884 To 7890				Well No. #1			
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 7832	Perforations: From 0 To 0				Unit Sec. 1wp. Rys. F 33 7S 29E			
Type Well - Single - Pradhead - G.G. or G.O. Multiple SINGLE							Packer Set At 7832		County CHAVES		
Producing Thru TUBING		Reservoir Temp. *F 146# 7887		Mean Annual Temp. *F 60.0		Baro. Press. - P _g 13.2		State NEW MEXICO			
L 7887	H 7887	Gg 0.680	% CO ₂ 0.03	% N ₂ 7.87	% H ₂ S 0	Prover 0	Meter Run 4.0	Type FLANGE			

FLOW DATA							TUBING DATA		B.H.P.		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.	CHOKE	
51							2363		2987		72.0
1.	4.03	X	2.000	255.	4.0	101	2253	0	2858	11/64	1.0
2.	4.03	X	2.000	260.	7.7	84	2103	0	2730	12/64	1.0
3.	4.03	X	2.000	260.	15.0	64	1792	0	2482	14/64	1.0
4.	4.03	X	2.000	265	25.0	76	1535	0	2162	15/64	1.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mhd
1	19.81	32.75	268.2	0.9628	1.2127	1.0192	772.
2	19.81	46.01	273.2	0.9777	1.2127	1.0218	1105.
3	19.81	64.02	273.2	0.9962	1.2127	1.0257	1572.
4	19.81	83.40	278.2	0.9850	1.2127	1.0238	2021.
5.							

NO.	P _t	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
1.	0.41	561.	1.55	0.963	134.6	52.7	0.680		655.	362.
2.	0.42	544.	1.50	0.958						
3.	0.42	524.	1.45	0.951						
4.	0.42	536.	1.48	0.954						
5.										

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1	8244	2269.	5147.	487.	2.1099	1.5248
2	7525.	2166.	4690.	943.		
3	6226.	1970.	3880.	1754.		
4	4731.	1721.	2963.	2670.		
5						

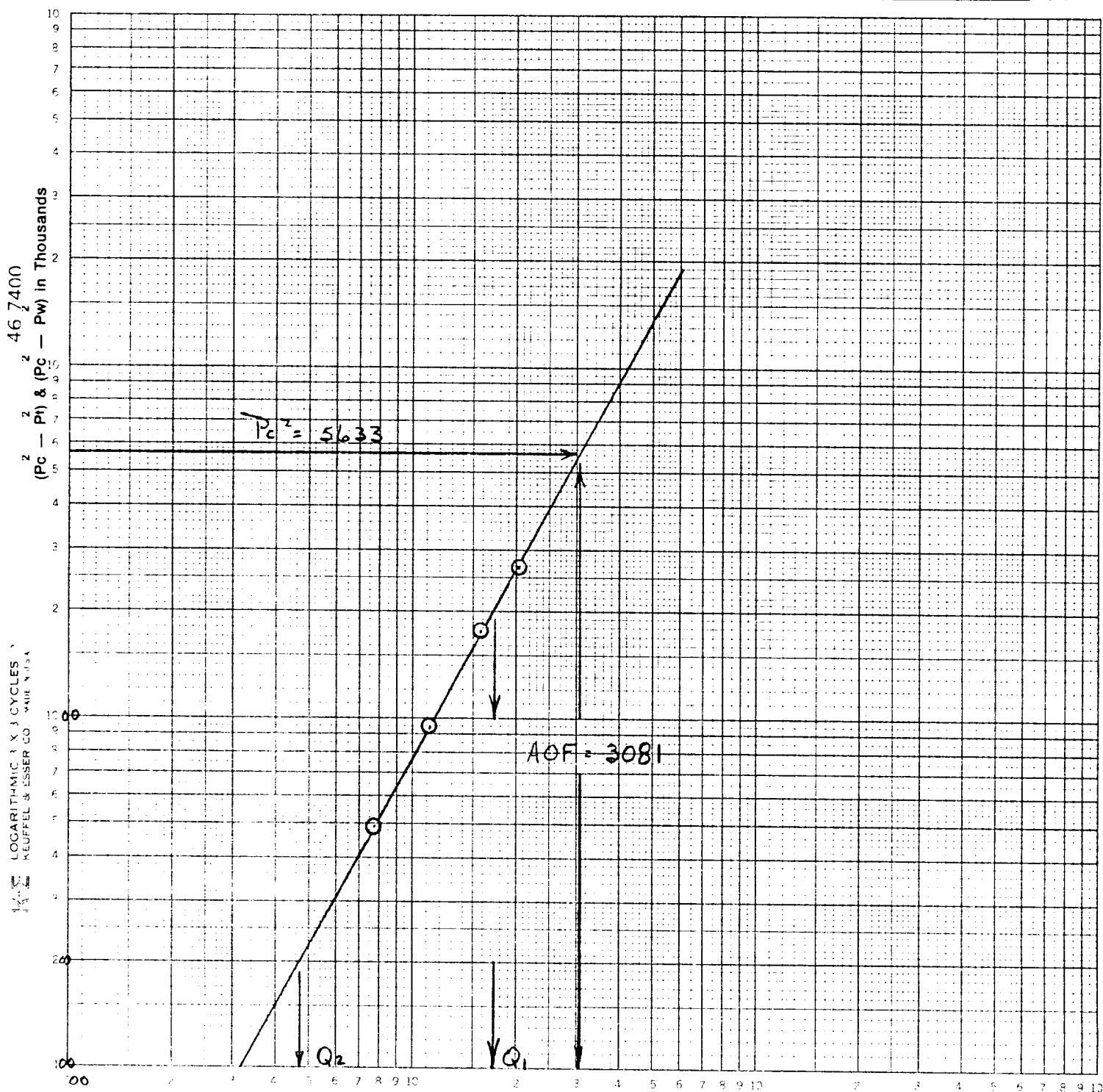
ADP = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3081.$

Post ID-2
4-5-85
Comp. & BK

Absolute Open Flow	3081.	Mhd @ 15.025	Angle of Slope @	60.5	Slope, n	0.565
Remarks:						
Approved By Consultant:						
Conducted By:		Calculated By:		Checked By:		

BENNETT & CATHEY PRODUCTION TESTING BACK PRESSURE CURV

Operator Stevens Operating Lease O'Brien 00 Well No. 1
 County Chavez Field Wildcat Location 33 7S 29E
 Date of Test 3-9-85 Slope "n" 0.565 Angle of Slope 60.5
 Calc. Abs. Potential 3081 MCF/D



$$\overline{\Delta P}_1^2 \quad P_c^2 - P_w^2 = \underline{2000}$$

$$\overline{\Delta P}_2^2 \quad P_c^2 - P_w^2 = \underline{200}$$

$$Q_1 = \underline{1733}$$

$$Q_2 = \underline{472}$$

Q in MCF/Day

$$\text{LOG } Q_1 = \underline{3.2388}$$

$$\text{LOG } Q_2 = \underline{2.6738}$$

$$n = \underline{0.565}$$

BENNETT-CATHEY

WIRE LINE SERVICE

P. O. BOX 767
ARTESIA, NEW MEXICO 88210
Phone (505) 748-3354

SUGGESTED FIELD DATA SHEET (NOT REQUIRED TO BE FILED)

RECEIVED BY

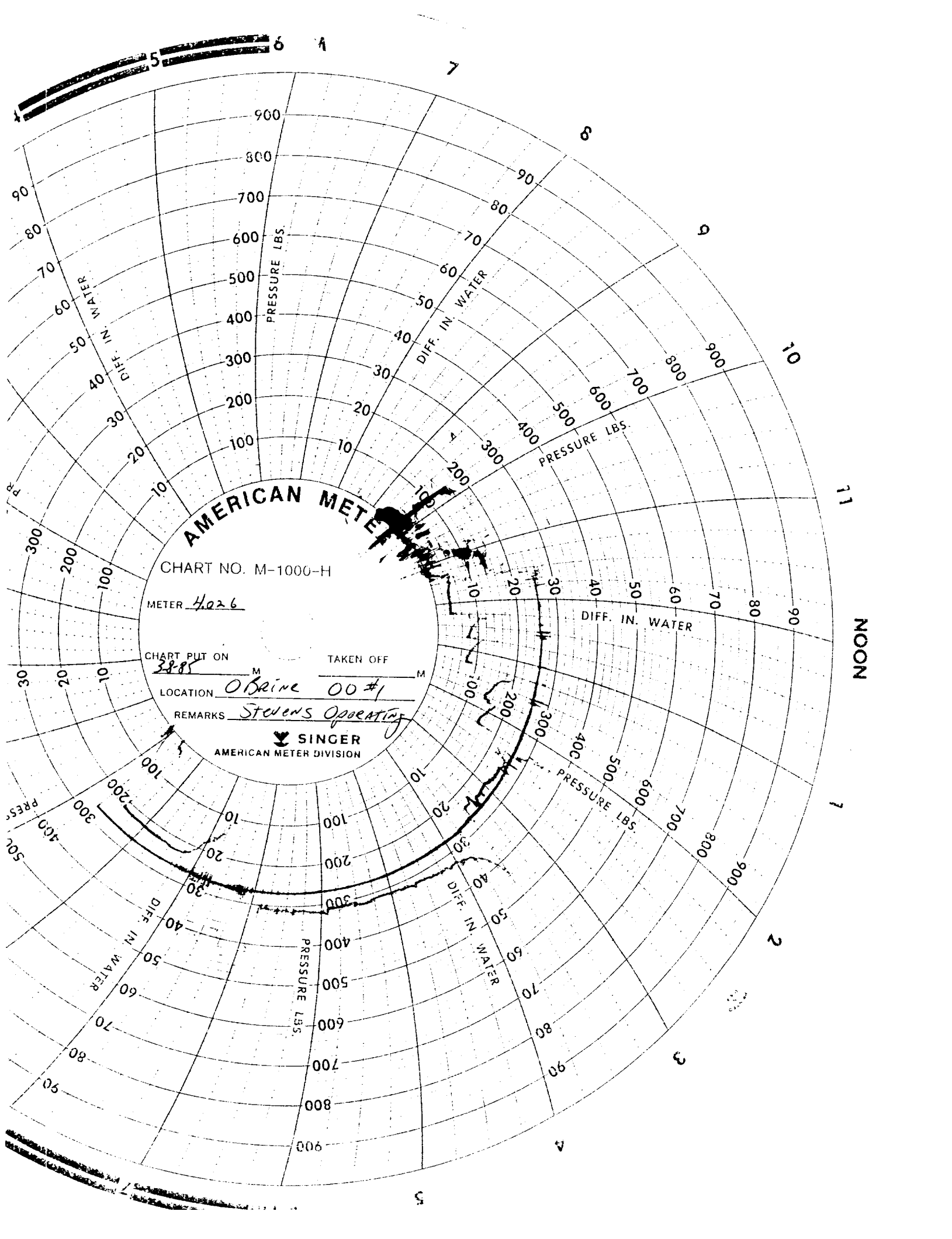
Type Test ☐ Initial ☐ Annual ☐ Special			Test Date 6/9/85			MAR 21 1985							
Company STEVENS OPERATING ✓			Connection AIR NEW WELL			O. C. D.							
Pool WILDCAT			Formations FUSSLEMAN			City ARTESIA, NM							
Completion Date 3/6/85		Total Depth 8075		Plug Back TD 7981		Elevation 4035 GL		Farm or Lease Name EL BRINE 00					
Cas. Size 5.5	Wt. 17#	d 8075	Set At 8075	Perforations: From 7884 To 7890		Well No. #1							
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7832	Perforations: From OPEN To		Unit 33		Twp. 7S					
Type Well - Single - Broadhead - G.G. or G.O. Multiple SINGLE				Packer Set At 7832		County CHAVES							
Producing thru TUBING		Reservoir Temp. °F 60		Moon Annual Temp. °F 13.2		Buro. Press. - P ₃ N.M.		State					
L 7887	H	Gg .680	% CO ₂ .031	% H ₂ 7.874	% H ₂ S	Prover	Meter Run 4.026	Tops FLANGE					
COMPANY REP. MIKE VOWELL			TEST RUN BY: DON BENNETT			TIME ARRV.		TIME RETURN					
MILEAGE LEAVE:		ARRV.:		TOTAL MILEAGE ONE WAY									
DATE TIME OF READING	ELAP HOUR	WELL HEAD PRESS. Tbg PSIG	CAG PSIG	TEMP °F	PRES PSI	DIFF.	TEMP °F	ORIF. SIZE	 MCFD	TOP FLUID	CUT H ₂ O	COND. MADE	H ₂ O MADE
10:00	0	2363			SHUT	IN 60°							
1145	0							2"	19.81	FACTOR			
1200	1/4	2310			260	4.25	92		812.7				
1215	1/2	2267			255	4.0	100		781.2				
1230	3/4	2257			255	4.0	100		781.2				
1245	1	2253			255	4.0	101	11/64	781.2				
1300	1 1/4	2160			260	8.25	92		1132.3				
1315	1 1/2	2137			260	10	89		1246.7				
1330	1 3/4	2120			260	9	87		1182.7				
1345	2	2103			260	7.75	84	12 1/64	1097.5				
1400	2 1/4	1940			260	16	71						
1415	2 1/2	1890			260	12.75	69		1407.7				
1430	2 3/4	1825			260	14	64		1475.1				
1445	3	1792			260	15	64	14/64	1526.9				
1500	3 1/4	1605			260	25	62						
1515	3 1/2	1557			265	25	60		1989.1				
1530	3 3/4	1545			265	24.75	76		1979.1				
1545	4	1535			265	25	76	15/64	1989.1				
1600	4 1/4	1405			270	40	81	17/64	2538.6				
1615	4 1/2	1362			270	35	80		2374.6				
1630	4 3/4	1315			270	33.75	81		2331.8				
1645	5	1285			270	33	81		2305.7				
1700	5 1/4	1275			270	32	81		2270.6				
1715	5 1/2	1268			270	32	81		2270.6				

BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787
ARTESIA, NEW MEXICO 88210
Phone (505) 748-3354

SUGGESTED FIELD DATA SHEET (NOT REQUIRED TO BE FILED)

Type Test				Initial		Annual		Special		Test Date					
Company				Connection											
Pool				Formation								Unit			
Completion Date				Total Depth		Plug Back TD		Elevation		Name of Land Owner					
Csg. Size		Wt.		d		Set At		Perforations:		Well No.					
Tbg. Size		Wt.		d		Set At		Perforations:		Unit		Sec. Twp. Rge.			
								From To							
Type Well - Single - Branched - G.C. or G.O. Multiple										Packer Set At		County			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State							
L		H		G _g		% CO ₂		% H ₂		% H ₂ S		Prover			
Meter Run		Taps													
COMPANY REP.				TEST RUN BY:				TIME ARRIV.				TIME RETURN:			
MILEAGE				LEAVE:				ARRV.:				TOTAL MILEAGE ONE WAY			
DATE		ELAP		WELL HEAD PRESS.		METER OR PROVER									
TIME OF		HOUR		TBG		PRES		TEMP		ORIF.		TOP		CUT	
READING				PSIG		PSI		F		SIZE		FLUID		H ₂ O	
				CAG		DIFF.		F				MADE		MADE	
				PSIG											
1730	5 3/4	1261			270	32	81	2"	2270.6						
1745	6	1255			270	31	81		2234.8						
1800	6 1/4	1247			270	32	81		2270.6						
1815	6 1/2	1240			270	31	81		2234.8						
1830	6 3/4	1229			270	31	81		2234.8						
1845	7	1213			270	32	81		2270.6						
1900	7 1/4	1203			270	31	81		2234.8						
1915	7 1/2	1197			270	31	80		2234.8						
1930	7 3/4	1192			270	31	80		2234.8						
1945	8	932			270	46	80	22/64	2722.						
2000	8 1/4	897			270	39	79		2507.						
2015	8 1/2	885			270	42	79		2601.						
2030	8 3/4	1245			270	17	79	15/64	1655.						
2045	9	1320			270	22	79		1883.						
2100	9 1/4	1445			270	22	79		1883.						
2115	9 1/2	1450			270	22	79		1883.						
2130	9 3/4	1451			270	22	79		1883.						
2145	10	1452			270	22	79		1883						
										TOTAL	14.194 BBLS OF WATER				
										TOTAL	0 BBLS OF COND.				



COMPANY: STEVENS OPERATING
LEASE: OBRIAN "00"
FIELD: WILDCAT
COUNTY: CHAVES
STATUS: FOUR POINT & FLOW TEST
PERFORATIONS FROM: 7884 ft
DEPTH: 7825 ft

CONTACT: FRANK LOOP
WELL: #1
ZONE: FUSSLEMAN
STATE: NEW MEXICO
OPERATOR: DON BENNETT
TO: 7890 ft
TEMPERATURE: 146°F

ELEMENT# RPG3#21121
CLOCK# 28660
ELEMENT# RPG3#23914
CLOCK# 28658

ELEMENT RANGE: 5175 psia
CLOCK RANGE: 120 hrs
ELEMENT RANGE: 5025 psia
CLOCK RANGE: 120 hrs

START CLOCK 03/08/85
SET ELEMENT 03/08/85
WELL SHUT IN 12/31/00
TEST ENDED 03/12/85

08:25:00 2363 psia
09:45:00 2363 psia
00:00:00 0 psia
22:00:00 1452 psia

GAIN= 1
FILE: 00-2:D701

BIAS= 5 psi
BAROMETRIC PRESSURE= 13.2 psia

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

PRESSURE TRANSIENT TEST DATA

COMPANY: STEVENS OPERATING	CONTACT: FRANK LOOP
LEASE: OBRIAN "00"	WELL: #1
FIELD: WILDCAT	ZONE: FUSSLEMAN
COUNTY: CHAVES	STATE: NEW MEXICO
STATUS: FOUR POINT & FLOW TEST	OPERATOR: DON BENNETT

PERFORATIONS FROM: 7,884.0'	TO: 7,890.0'
ELEMENT DEPTH: 7,825.0'	TEMPERATURE: 146.0°F

ELEMENT: RPG3#21121	RANGE: 5175 psig
CLOCK: 28660	RANGE: 120 hrs
ELEMENT: RPG3#23914	RANGE: 5025 psig
CLOCK: 28658	RANGE: 120 hrs

SURFACE PRESSURE MEASUREMENTS

EVENT	DATE	TIME	DEAD WEIGHT PRESSURE
START CLOCK	03/08/85	08:25:00	2,363.0 psig
SET ELEMENT	03/08/85	09:45:00	2,363.0 psig
WELL SHUT IN	12/31/00	00:00:00	0.0 psig
END OF TEST	03/12/85	22:00:00	1,452.0 psig

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
03/08/85	10:02:37	-1.706	2,382.4	2,995.6	3,000.6
03/08/85	11:45:00	0.000	2,982.4	2,995.6	3,000.6
03/08/85	11:59:59	.250	2,943.7	2,956.3	2,961.9
03/08/85	12:14:57	.499	2,892.8	2,906.0	2,911.0
03/08/85	12:30:04	.751	2,865.2	2,878.4	2,883.4
03/08/85	12:45:03	1.001	2,853.8	2,867.0	2,872.0
03/08/85	13:00:01	1.250	2,785.0	2,798.2	2,803.2
03/08/85	13:15:00	1.500	2,763.5	2,776.7	2,781.7
03/08/85	13:29:59	1.750	2,735.0	2,749.1	2,754.1
03/08/85	13:44:57	1.999	2,725.3	2,738.5	2,743.5
03/08/85	14:00:04	2.251	2,601.9	2,615.1	2,620.1
03/08/85	14:15:03	2.501	2,555.8	2,569.0	2,574.0
03/08/85	14:30:01	2.750	2,503.7	2,516.9	2,521.9
03/08/85	14:45:00	3.000	2,477.9	2,491.1	2,496.1
03/08/85	14:59:59	3.250	2,308.1	2,321.3	2,326.3
03/08/85	15:14:57	3.499	2,223.1	2,236.3	2,241.3
03/08/85	15:30:04	3.751	2,184.1	2,197.3	2,202.3
03/08/85	15:45:03	4.001	2,157.3	2,170.5	2,175.5
03/08/85	16:00:01	4.250	2,055.4	2,068.6	2,073.6
03/08/85	16:15:00	4.500	1,951.4	1,964.6	1,969.6
03/08/85	16:29:59	4.750	1,906.4	1,919.6	1,924.6
03/08/85	16:44:57	4.999	1,874.2	1,887.4	1,892.4

BENNETT-CATHEY WIRE LINE SERVICE
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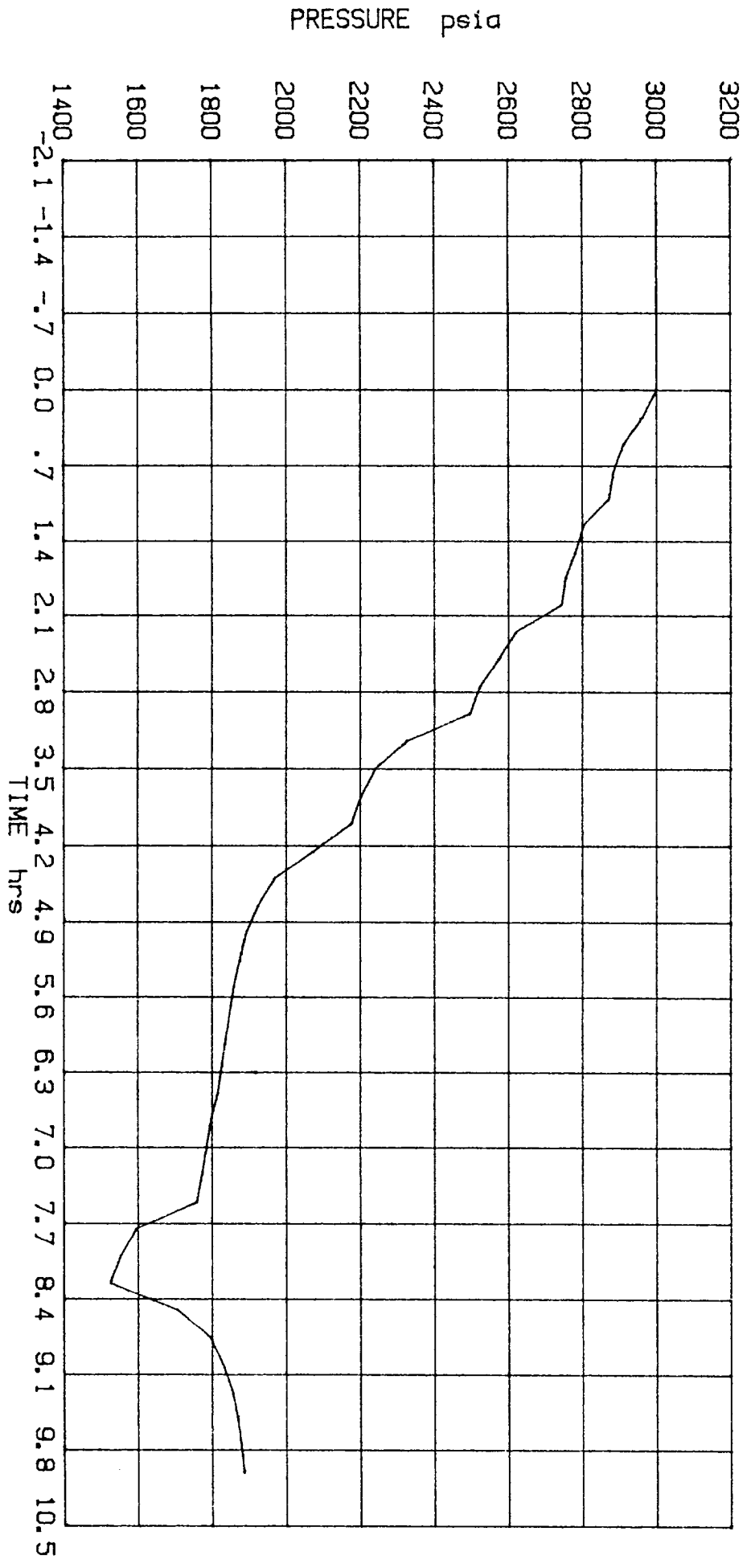
PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psia	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
03/08/85	17:00:04	5.251	1,856.5	1,869.7	1,874.7
03/08/85	17:15:03	5.501	1,840.3	1,853.5	1,858.5
03/08/85	17:45:00	6.000	1,818.1	1,831.3	1,836.3
03/08/85	17:59:59	6.250	1,807.4	1,820.6	1,825.6
03/08/85	18:14:57	6.499	1,796.8	1,810.0	1,815.0
03/08/85	18:30:04	6.751	1,778.1	1,791.3	1,796.3
03/08/85	18:45:03	7.001	1,766.7	1,779.9	1,784.9
03/08/85	19:00:01	7.250	1,754.6	1,767.8	1,772.8
03/08/85	19:15:00	7.500	1,740.4	1,753.6	1,758.6
03/08/85	19:29:59	7.750	1,577.2	1,590.4	1,595.4
03/08/85	19:44:57	7.999	1,534.4	1,547.6	1,552.6
03/08/85	20:00:04	8.251	1,506.4	1,519.6	1,524.6
03/08/85	20:15:03	8.501	1,686.2	1,699.4	1,704.4
03/08/85	20:30:01	8.750	1,774.5	1,787.7	1,792.7
03/08/85	20:45:00	9.000	1,810.0	1,823.2	1,828.2
03/08/85	20:59:59	9.250	1,835.5	1,848.7	1,853.7
03/08/85	21:14:57	9.499	1,849.7	1,862.9	1,867.9
03/08/85	21:30:04	9.751	1,860.1	1,873.3	1,878.3
03/08/85	21:45:03	10.001	1,867.9	1,881.1	1,886.1

TEST DATE: 03/08/85 TO 03/12/85
TEST DEPTH: 7825 ft
ELEMENT NO: RPC3#23914
RANGE: 5025 psig
CLOCK: 28658
RANGE: 120 hrs
OPERATOR: DON BENNETT

FRANK LOOP
STEVENS OPERATING
OBRIAN "00" #1
BENNETT-CATHEY WIRE LINE SERVICE
Box 787 Artesia, N.M. 88210 (505) 748-3354



COMPANY: STEVENS OPERATING

LEASE: OBRIAN "OO"

FIELD: WILDCAT

COUNTY: CHAVES

STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST

PERFORATIONS FROM: 7884 ft

DEPTH: 7825 ft

CONTACT: FRANK LOOP

WELL: #1

ZONE: FUSSLEMAN

STATE: NEW MEXICO

OPERATOR: B.J. CATHEY

TO: 7890 ft

TEMPERATURE: 146°F

ELEMENT# RPG3#21121

CLOCK# 28660

ELEMENT# RPG3#23914

CLOCK# 28658

ELEMENT RANGE: 5175 psia

CLOCK RANGE: 120 hrs

ELEMENT RANGE: 5025 psia

CLOCK RANGE: 120 hrs

START CLOCK 03/08/85

SET ELEMENT 03/08/85

WELL SHUT IN 03/08/85

TEST ENDED 03/12/85

08:25:00

09:45:00

22:00:00

09:18:00

2362 psia

2363 psia

1452 psia

2350 psia

GAIN= 1

FILE: OBRIAN-3:D701

BIAS= 5 psi

BAROMETRIC PRESSURE= 13.2 psia

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

PRESSURE TRANSIENT TEST DATA

COMPANY: STEVENS OPERATING	CONTACT: FRANK LOOP
LEASE: OBRIAN "00"	WELL: #1
FIELD: WILDCAT	ZONE: FUSSLEMAN
COUNTY: CHAVES	STATE: NEW MEXICO
STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST	OPERATOR: B.J. CATHEY

PERFORATIONS FROM: 7,884.0'	TO: 7,890.0'
ELEMENT DEPTH: 7,825.0'	TEMPERATURE: 146.0°F

ELEMENT: RPG8#21121	RANGE: 5175 psia
CLOCK: 28660	RANGE: 120 hrs
ELEMENT: RPG8#23914	RANGE: 5025 psia
CLOCK: 28658	RANGE: 120 hrs

SURFACE PRESSURE MEASUREMENTS

EVENT	DATE	TIME	DEAD WEIGHT PRESSURE
START CLOCK	03/08/85	08:25:00	2,363.0 psia
SET ELEMENT	03/08/85	09:45:00	2,363.0 psia
WELL SHUT IN	03/08/85	22:00:00	1,452.0 psia
END OF TEST	03/12/85	09:18:00	2,350.0 psia

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psia	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
03/08/85	22:00:00	0.000	1,867.6	1,880.8	1,885.3
03/08/85	22:05:00	.083	2,016.3	2,029.5	2,034.5
03/08/85	22:10:00	.167	2,140.6	2,153.8	2,158.8
03/08/85	22:15:00	.250	2,240.6	2,253.8	2,258.8
03/08/85	22:20:00	.333	2,325.3	2,338.5	2,343.5
03/08/85	22:25:00	.417	2,402.1	2,415.3	2,420.3
03/08/85	22:30:00	.500	2,461.2	2,474.4	2,479.4
03/08/85	22:35:00	.583	2,517.0	2,530.2	2,535.2
03/08/85	22:40:00	.667	2,567.8	2,581.0	2,586.0
03/08/85	22:45:00	.750	2,614.4	2,627.6	2,632.6
03/08/85	22:50:00	.833	2,651.0	2,664.2	2,669.2
03/08/85	22:55:00	.917	2,681.7	2,694.9	2,699.9
03/08/85	23:00:00	1.000	2,709.9	2,723.1	2,728.1
03/08/85	23:15:00	1.250	2,764.3	2,777.5	2,782.5
03/08/85	23:30:00	1.500	2,790.4	2,803.6	2,808.6
03/08/85	23:45:00	1.750	2,803.8	2,817.0	2,822.0
03/09/85	00:00:00	2.000	2,811.6	2,824.8	2,829.8
03/09/85	00:15:00	2.250	2,815.8	2,829.0	2,834.0
03/09/85	00:30:00	2.500	2,820.2	2,833.4	2,838.4
03/09/85	00:45:00	2.750	2,824.7	2,837.9	2,842.9
03/09/85	01:00:00	3.000	2,829.5	2,842.7	2,847.7
03/09/85	01:15:00	3.250	2,833.2	2,846.4	2,851.4

BENNETT-CATHEY WIRE LINE SERVICE
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 ARTESIA, NEW MEXICO, 88210

PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
03/09/85	01:30:00	3.500	2,836.0	2,850.0	2,855.0
03/09/85	01:45:00	3.750	2,840.3	2,853.5	2,858.5
03/09/85	02:00:00	4.000	2,843.8	2,857.0	2,862.0
03/09/85	02:15:00	4.250	2,847.0	2,860.2	2,865.2
03/09/85	02:30:00	4.500	2,849.9	2,863.1	2,868.1
03/09/85	02:45:00	4.750	2,852.9	2,866.1	2,871.1
03/09/85	03:00:00	5.000	2,855.5	2,868.7	2,873.7
03/09/85	03:15:00	5.250	2,858.1	2,871.3	2,876.3
03/09/85	03:30:00	5.500	2,860.6	2,873.8	2,878.8
03/09/85	03:45:00	5.750	2,863.1	2,876.3	2,881.3
03/09/85	04:00:00	6.000	2,865.4	2,878.6	2,883.6
03/09/85	04:15:00	6.250	2,867.8	2,881.0	2,886.0
03/09/85	04:30:00	6.500	2,870.0	2,883.2	2,888.2
03/09/85	04:45:00	6.750	2,871.7	2,884.9	2,889.9
03/09/85	05:00:00	7.000	2,873.4	2,886.6	2,891.6
03/09/85	05:15:00	7.250	2,875.1	2,888.3	2,893.3
03/09/85	05:30:00	7.500	2,876.9	2,890.1	2,895.1
03/09/85	05:45:00	7.750	2,878.7	2,891.9	2,896.9
03/09/85	06:00:00	8.000	2,880.5	2,893.7	2,898.7
03/09/85	06:15:00	8.250	2,882.3	2,895.5	2,900.5
03/09/85	06:30:00	8.500	2,884.0	2,897.2	2,902.2
03/09/85	06:45:00	8.750	2,885.8	2,899.0	2,904.0
03/09/85	07:00:00	9.000	2,887.5	2,900.7	2,905.7
03/09/85	07:15:00	9.250	2,889.1	2,902.3	2,907.3
03/09/85	07:30:00	9.500	2,890.6	2,903.8	2,908.8
03/09/85	07:45:00	9.750	2,892.1	2,905.3	2,910.3
03/09/85	08:00:00	10.000	2,893.6	2,906.8	2,911.8
03/09/85	08:15:00	10.250	2,895.1	2,908.3	2,913.3
03/09/85	08:30:00	10.500	2,896.6	2,909.8	2,914.8
03/09/85	08:45:00	10.750	2,898.1	2,911.3	2,916.3
03/09/85	09:00:00	11.000	2,899.7	2,912.9	2,917.9
03/09/85	09:15:00	11.250	2,901.2	2,914.4	2,919.4
03/09/85	09:30:00	11.500	2,902.7	2,915.9	2,920.9
03/09/85	09:45:00	11.750	2,904.0	2,917.2	2,922.2
03/09/85	10:00:00	12.000	2,904.8	2,918.0	2,923.0
03/09/85	10:15:00	12.250	2,905.7	2,918.9	2,923.9
03/09/85	10:30:00	12.500	2,906.6	2,919.8	2,924.8
03/09/85	10:45:00	12.750	2,907.4	2,920.6	2,925.6
03/09/85	11:00:00	13.000	2,908.3	2,921.5	2,926.5
03/09/85	11:15:00	13.250	2,909.2	2,922.4	2,927.4
03/09/85	11:30:00	13.500	2,910.1	2,923.3	2,928.3
03/09/85	11:45:00	13.750	2,911.2	2,924.4	2,929.4
03/09/85	12:00:00	14.000	2,912.2	2,925.4	2,930.4
03/09/85	12:15:00	14.250	2,913.2	2,926.4	2,931.4
03/09/85	12:30:00	14.500	2,914.2	2,927.4	2,932.4
03/09/85	12:45:00	14.750	2,915.2	2,928.4	2,933.4

BENNETT-CATHEY WIRE LINE SERVICE
 PHONE (505) 748-9354
 ARTESIA, NEW MEXICO, 88210

PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psia	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
03/09/85	13:00:00	15.000	2,916.2	2,929.4	2,934.4
03/09/85	13:15:00	15.250	2,917.3	2,930.5	2,935.5
03/09/85	13:30:00	15.500	2,918.1	2,931.3	2,936.3
03/09/85	13:45:00	15.750	2,918.3	2,932.0	2,937.0
03/09/85	14:00:00	16.000	2,919.4	2,932.6	2,937.6
03/09/85	14:15:00	16.250	2,920.1	2,933.3	2,938.3
03/09/85	14:30:00	16.500	2,920.7	2,933.9	2,938.9
03/09/85	14:45:00	16.750	2,921.4	2,934.6	2,939.6
03/09/85	15:00:00	17.000	2,922.0	2,935.2	2,940.2
03/09/85	15:15:00	17.250	2,922.7	2,935.9	2,940.9
03/09/85	15:30:00	17.500	2,923.3	2,936.5	2,941.5
03/09/85	15:45:00	17.750	2,924.0	2,937.2	2,942.2
03/09/85	16:00:00	18.000	2,924.6	2,937.8	2,942.8
03/09/85	16:15:00	18.250	2,925.3	2,938.5	2,943.5
03/09/85	16:30:00	18.500	2,926.0	2,939.2	2,944.2
03/09/85	16:45:00	18.750	2,926.6	2,939.8	2,944.8
03/09/85	17:00:00	19.000	2,927.2	2,940.4	2,945.4
03/09/85	17:15:00	19.250	2,927.8	2,941.0	2,946.0
03/09/85	17:30:00	19.500	2,928.4	2,941.6	2,946.6
03/09/85	17:45:00	19.750	2,929.0	2,942.2	2,947.2
03/09/85	18:00:00	20.000	2,929.6	2,942.8	2,947.8
03/09/85	18:15:00	20.250	2,930.3	2,943.5	2,948.5
03/09/85	18:30:00	20.500	2,930.9	2,944.1	2,949.1
03/09/85	18:45:00	20.750	2,931.5	2,944.7	2,949.7
03/09/85	19:00:00	21.000	2,932.1	2,945.3	2,950.3
03/09/85	19:15:00	21.250	2,932.7	2,945.9	2,950.9
03/09/85	19:30:00	21.500	2,933.1	2,946.3	2,951.3
03/09/85	19:45:00	21.750	2,933.4	2,946.6	2,951.6
03/09/85	20:00:00	22.000	2,933.7	2,946.9	2,951.9
03/09/85	20:15:00	22.250	2,934.0	2,947.2	2,952.2
03/09/85	20:30:00	22.500	2,934.4	2,947.6	2,952.6
03/09/85	20:45:00	22.750	2,934.7	2,947.9	2,952.9
03/09/85	21:00:00	23.000	2,935.0	2,948.2	2,953.2
03/09/85	21:15:00	23.250	2,935.3	2,948.5	2,953.5
03/09/85	21:30:00	23.500	2,935.7	2,948.9	2,953.9
03/09/85	21:45:00	23.750	2,936.0	2,949.2	2,954.2
03/09/85	22:00:00	24.000	2,936.3	2,949.5	2,954.5
03/09/85	22:15:00	24.250	2,936.6	2,949.8	2,954.8
03/09/85	22:30:00	24.500	2,937.0	2,950.2	2,955.2
03/09/85	22:45:00	24.750	2,937.3	2,950.5	2,955.5
03/09/85	23:00:00	25.000	2,937.6	2,950.8	2,955.8
03/09/85	23:15:00	25.250	2,937.9	2,951.1	2,956.1
03/09/85	23:30:00	25.500	2,938.2	2,951.5	2,956.5
03/09/85	23:45:00	25.750	2,938.6	2,951.8	2,956.8
03/10/85	00:00:00	26.000	2,938.9	2,952.1	2,957.1
03/10/85	00:15:00	26.250	2,939.2	2,952.4	2,957.4

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
03/10/85	00:30:00	26.500	2,939.5	2,952.7	2,957.7
03/10/85	00:45:00	26.750	2,939.7	2,952.9	2,957.9
03/10/85	01:00:00	27.000	2,939.9	2,953.1	2,958.1
03/10/85	01:15:00	27.250	2,940.1	2,953.3	2,958.3
03/10/85	01:30:00	27.500	2,940.3	2,953.5	2,958.5
03/10/85	01:45:00	27.750	2,940.5	2,953.7	2,958.7
03/10/85	02:00:00	28.000	2,940.7	2,953.9	2,958.9
03/10/85	02:15:00	28.250	2,940.9	2,954.1	2,959.1
03/10/85	02:30:00	28.500	2,941.1	2,954.3	2,959.3
03/10/85	02:45:00	28.750	2,941.3	2,954.5	2,959.5
03/10/85	03:00:00	29.000	2,941.5	2,954.7	2,959.7
03/10/85	03:15:00	29.250	2,941.7	2,954.9	2,959.9
03/10/85	03:30:00	29.500	2,941.9	2,955.1	2,960.1
03/10/85	03:45:00	29.750	2,942.1	2,955.3	2,960.3
03/10/85	04:00:00	30.000	2,942.3	2,955.5	2,960.5
03/10/85	04:15:00	30.250	2,942.5	2,955.7	2,960.7
03/10/85	04:30:00	30.500	2,942.7	2,955.9	2,960.9
03/10/85	04:45:00	30.750	2,942.9	2,956.1	2,961.1
03/10/85	05:00:00	31.000	2,943.1	2,956.3	2,961.3
03/10/85	05:15:00	31.250	2,943.3	2,956.5	2,961.5
03/10/85	05:30:00	31.500	2,943.5	2,956.7	2,961.7
03/10/85	05:45:00	31.750	2,943.7	2,956.9	2,961.9
03/10/85	06:00:00	32.000	2,943.9	2,957.1	2,962.1
03/10/85	06:15:00	32.250	2,944.1	2,957.3	2,962.3
03/10/85	06:30:00	32.500	2,944.2	2,957.4	2,962.4
03/10/85	06:45:00	32.750	2,944.4	2,957.6	2,962.6
03/10/85	07:00:00	33.000	2,944.6	2,957.8	2,962.8
03/10/85	07:15:00	33.250	2,944.8	2,958.0	2,963.0
03/10/85	07:30:00	33.500	2,945.0	2,958.2	2,963.2
03/10/85	07:45:00	33.750	2,945.1	2,958.3	2,963.3
03/10/85	08:00:00	34.000	2,945.3	2,958.5	2,963.5
03/10/85	08:15:00	34.250	2,945.5	2,958.7	2,963.7
03/10/85	08:30:00	34.500	2,945.7	2,958.9	2,963.9
03/10/85	08:45:00	34.750	2,945.8	2,959.0	2,964.0
03/10/85	09:00:00	35.000	2,946.0	2,959.2	2,964.2
03/10/85	09:15:00	35.250	2,946.2	2,959.4	2,964.4
03/10/85	09:30:00	35.500	2,946.4	2,959.6	2,964.6
03/10/85	09:45:00	35.750	2,946.6	2,959.8	2,964.8
03/10/85	10:00:00	36.000	2,946.7	2,959.9	2,964.9
03/10/85	10:15:00	36.250	2,946.9	2,960.1	2,965.1
03/10/85	10:30:00	36.500	2,947.1	2,960.3	2,965.3
03/10/85	10:45:00	36.750	2,947.3	2,960.5	2,965.5
03/10/85	11:00:00	37.000	2,947.4	2,960.6	2,965.6
03/10/85	11:15:00	37.250	2,947.6	2,960.8	2,965.8
03/10/85	11:30:00	37.500	2,947.8	2,961.0	2,966.0
03/10/85	11:45:00	37.750	2,948.0	2,961.2	2,966.2

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
03/10/85	12:00:00	38.000	2,948.1	2,961.3	2,966.3
03/10/85	12:15:00	38.250	2,948.1	2,961.3	2,966.3
03/10/85	12:30:00	38.500	2,948.2	2,961.4	2,966.4
03/10/85	12:45:00	38.750	2,948.3	2,961.5	2,966.5
03/10/85	13:00:00	39.000	2,948.4	2,961.6	2,966.6
03/10/85	13:15:00	39.250	2,948.5	2,961.7	2,966.7
03/10/85	13:30:00	39.500	2,948.6	2,961.8	2,966.8
03/10/85	13:45:00	39.750	2,948.7	2,961.9	2,966.9
03/10/85	14:00:00	40.000	2,948.8	2,962.0	2,967.0
03/10/85	14:15:00	40.250	2,948.8	2,962.0	2,967.0
03/10/85	14:30:00	40.500	2,948.9	2,962.1	2,967.1
03/10/85	14:45:00	40.750	2,949.0	2,962.2	2,967.2
03/10/85	15:00:00	41.000	2,949.1	2,962.3	2,967.3
03/10/85	15:15:00	41.250	2,949.2	2,962.4	2,967.4
03/10/85	15:30:00	41.500	2,949.3	2,962.5	2,967.5
03/10/85	15:45:00	41.750	2,949.4	2,962.6	2,967.6
03/10/85	16:00:00	42.000	2,949.5	2,962.7	2,967.7
03/10/85	16:15:00	42.250	2,949.5	2,962.7	2,967.7
03/10/85	16:30:00	42.500	2,949.6	2,962.8	2,967.8
03/10/85	16:45:00	42.750	2,949.7	2,962.9	2,967.9
03/10/85	17:00:00	43.000	2,949.8	2,963.0	2,968.0
03/10/85	17:15:00	43.250	2,949.9	2,963.1	2,968.1
03/10/85	17:30:00	43.500	2,950.0	2,963.2	2,968.2
03/10/85	17:45:00	43.750	2,950.1	2,963.3	2,968.3
03/10/85	18:00:00	44.000	2,950.1	2,963.3	2,968.3
03/10/85	18:15:00	44.250	2,950.2	2,963.4	2,968.4
03/10/85	18:30:00	44.500	2,950.3	2,963.5	2,968.5
03/10/85	18:45:00	44.750	2,950.4	2,963.6	2,968.6
03/10/85	19:00:00	45.000	2,950.5	2,963.7	2,968.7
03/10/85	19:15:00	45.250	2,950.6	2,963.8	2,968.8
03/10/85	19:30:00	45.500	2,950.7	2,963.9	2,968.9
03/10/85	19:45:00	45.750	2,950.7	2,963.9	2,968.9
03/10/85	20:00:00	46.000	2,950.8	2,964.0	2,969.0
03/10/85	20:15:00	46.250	2,950.9	2,964.1	2,969.1
03/10/85	20:30:00	46.500	2,951.0	2,964.2	2,969.2
03/10/85	20:45:00	46.750	2,951.1	2,964.3	2,969.3
03/10/85	21:00:00	47.000	2,951.2	2,964.4	2,969.4
03/10/85	21:15:00	47.250	2,951.2	2,964.4	2,969.4
03/10/85	21:30:00	47.500	2,951.3	2,964.5	2,969.5
03/10/85	21:45:00	47.750	2,951.4	2,964.6	2,969.6
03/10/85	22:00:00	48.000	2,951.5	2,964.7	2,969.7
03/10/85	22:15:00	48.250	2,951.6	2,964.8	2,969.8
03/10/85	22:30:00	48.500	2,951.7	2,964.9	2,969.9
03/10/85	22:45:00	48.750	2,951.7	2,964.9	2,969.9
03/10/85	23:00:00	49.000	2,951.8	2,965.0	2,970.0
03/10/85	23:15:00	49.250	2,951.9	2,965.1	2,970.1

BENNETT-CATHEY WIRE LINE SERVICE
 PHONE (505) 748-8354
 ARTESIA, NEW MEXICO, 88210

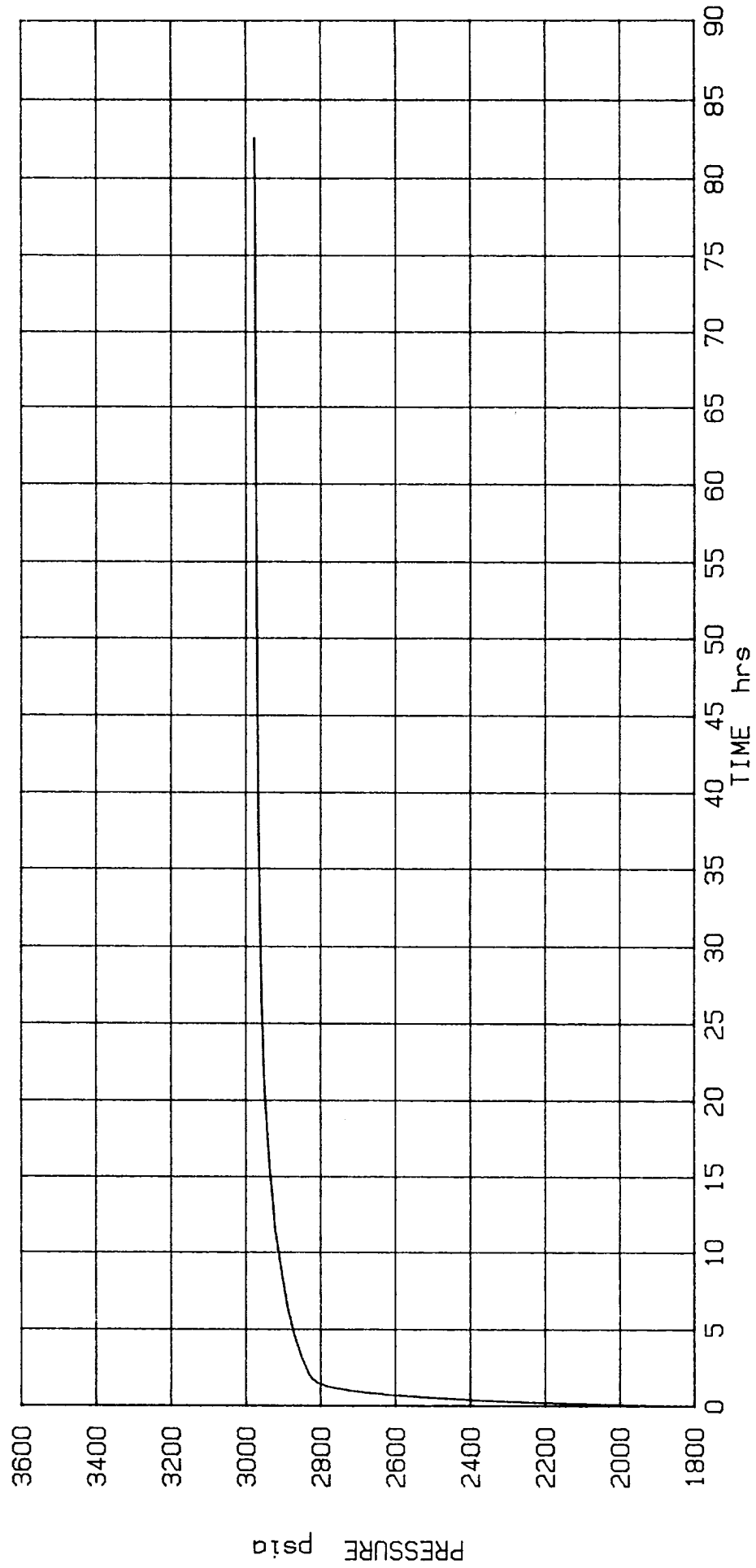
PRESSURE TRANSIENT TEST DATA

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
03/10/85	23:30:00	49.500	2,952.0	2,965.2	2,970.2
03/10/85	23:45:00	49.750	2,952.1	2,965.3	2,970.3
03/11/85	00:00:00	50.000	2,952.2	2,965.4	2,970.4
03/11/85	01:00:00	51.000	2,952.5	2,965.7	2,970.7
03/11/85	02:00:00	52.000	2,952.8	2,966.0	2,971.0
03/11/85	03:00:00	53.000	2,953.1	2,966.3	2,971.3
03/11/85	04:00:00	54.000	2,953.3	2,966.5	2,971.5
03/11/85	05:00:00	55.000	2,953.5	2,966.7	2,971.7
03/11/85	06:00:00	56.000	2,953.7	2,966.9	2,971.9
03/11/85	07:00:00	57.000	2,953.9	2,967.1	2,972.1
03/11/85	08:00:00	58.000	2,954.1	2,967.3	2,972.3
03/11/85	09:00:00	59.000	2,954.3	2,967.5	2,972.5
03/11/85	10:00:00	60.000	2,954.5	2,967.7	2,972.7
03/11/85	11:00:00	61.000	2,954.6	2,967.8	2,972.8
03/11/85	12:00:00	62.000	2,954.8	2,968.0	2,973.0
03/11/85	13:00:00	63.000	2,954.9	2,968.1	2,973.1
03/11/85	14:00:00	64.000	2,955.0	2,968.2	2,973.2
03/11/85	15:00:00	65.000	2,955.1	2,968.3	2,973.3
03/11/85	16:00:00	66.000	2,955.2	2,968.4	2,973.4
03/11/85	17:00:00	67.000	2,955.3	2,968.5	2,973.5
03/11/85	18:00:00	68.000	2,955.4	2,968.6	2,973.6
03/11/85	19:00:00	69.000	2,955.6	2,968.8	2,973.8
03/11/85	20:00:00	70.000	2,955.7	2,968.9	2,973.9
03/11/85	21:00:00	71.000	2,955.8	2,969.0	2,974.0
03/11/85	22:00:00	72.000	2,956.0	2,969.2	2,974.2
03/11/85	23:00:00	73.000	2,956.1	2,969.3	2,974.3
03/12/85	00:00:00	74.000	2,956.2	2,969.4	2,974.4
03/12/85	01:00:00	75.000	2,956.3	2,969.5	2,974.5
03/12/85	02:00:00	76.000	2,956.5	2,969.7	2,974.7
03/12/85	03:00:00	77.000	2,956.6	2,969.8	2,974.8
03/12/85	04:00:00	78.000	2,956.7	2,969.9	2,974.9
03/12/85	05:00:00	79.000	2,957.0	2,970.2	2,975.2
03/12/85	06:00:00	80.000	2,957.5	2,970.7	2,975.7
03/12/85	07:00:00	81.000	2,958.0	2,971.2	2,976.2
03/12/85	08:00:00	82.000	2,958.5	2,971.7	2,976.7
03/12/85	08:34:28	82.574	2,958.8	2,972.0	2,977.0

TEST DATE: 03/08/85 TO 03/12/85
TEST DEPTH: 7825 ft
ELEMENT NO: RPC3#23914
RANGE: 5025 psig
CLOCK: 28658
RANGE: 120 hrs
OPERATOR: B. J. CATHEY

FRANK LOOP
STEVENS OPERATING
OBRIAN "00" #1
BENNETT-CATHEY WIRE LINE SERVICE Box 787 Artesia, N.M. 88210 (505) 748-3354



COMPANY: STEVENS OPERATING
LEASE: OBRIAN "00"
FIELD: WILDCAT
COUNTY: CHAVES
STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST

CONTACT: FRANK LOOP
WELL: #1
ZONE: FUSSELMAN
STATE: NEW MEXICO
OPERATOR: B.J. CATHEY

PERFORATIONS FROM: 7884 ft
DEPTH: 7825 ft

TO: 7890 ft
TEMPERATURE: 146°F

ELEMENT# RPC3#21121
CLOCK# 28660
ELEMENT# RPC3#23914
CLOCK# 28658

RANGE: 5175 psi
RANGE: 120 hrs
RANGE: 5025 psi
RANGE: 120 hrs

START CLOCK	03/08/85	08:25:00	2363 psi
SET ELEMENT	03/08/85	09:45:00	2363 psi
WELL SHUT IN	03/08/85	22:00:00	1452 psi
TEST ENDED	03/12/85	09:18:00	2350 psi

FILE: OBRIAN-3:D701

C/pwf= 0 hrs/psi

Gain= 1

tsi= 0 hrs

tp= 22 hrs

Dt/tD= 1 hrs

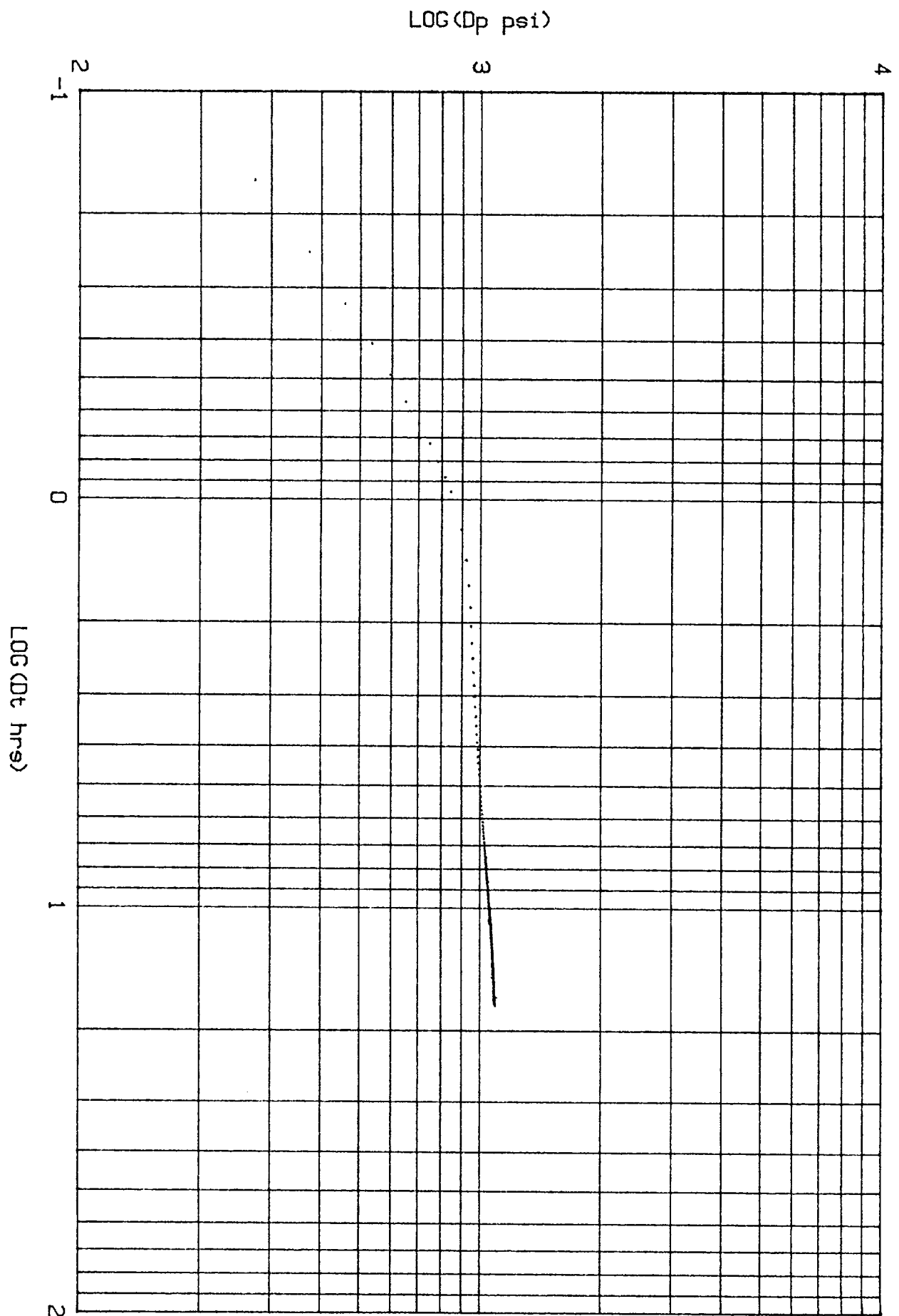
pA= 13.2 psia

Bias= 5 psi

pwf= 1885.846 psia

dps= 0 psi

Dp/pD= 1 psi



COMPANY: STEVENS OPERATING
LEASE: OBRIAN "00"
FIELD: WILDCAT
COUNTY: CHAVES
STATUS: BOTTOM HOLE PRESSURE BUILD UP TEST

CONTACT: FRANK LOOP
WELL: #1
ZONE: FUSSLEMAN
STATE: NEW MEXICO
OPERATOR: B.J. CATHEY

PERFORATIONS FROM: 7884 ft
DEPTH: 7825 ft

TO: 7890 ft
TEMPERATURE: 146°F

ELEMENT# RPG3#21121
CLOCK# 28660
ELEMENT# RPG3#23914
CLOCK# 28658

RANGE: 5175 psi
RANGE: 120 hrs
RANGE: 5025 psi
RANGE: 120 hrs

START CLOCK	03/08/85	08:25:00	2363 psig
SET ELEMENT	03/08/85	09:45:00	2363 psig
WELL SHUT IN	03/08/85	22:00:00	1452 psig
TEST ENDED	03/12/85	09:18:00	2350 psig

FILE: OBRIAN-3:D701

C/qwf= 0 hrs/psi

Gain= 1

tsi= 0 hrs

tp= 22 hrs

m= 0 psi/cycle

pA= 13.2 psia

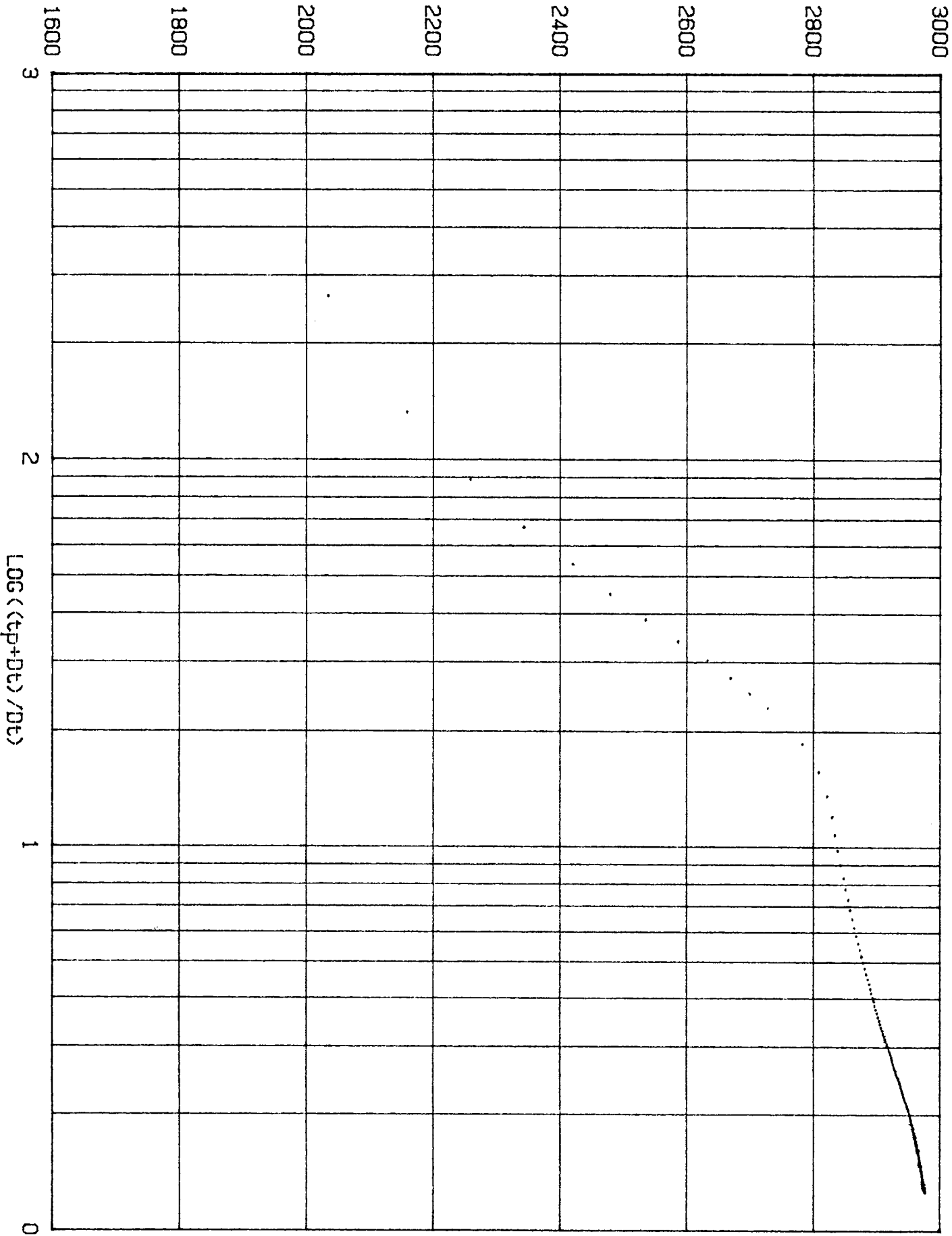
Bias= 5 psi

pwf= 1885.846 psia

dps= 0 psi

o*= 0 psia

p psia





E NETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787
ARTESIA, NEW MEXICO 88210
Phone (505) 746-3281

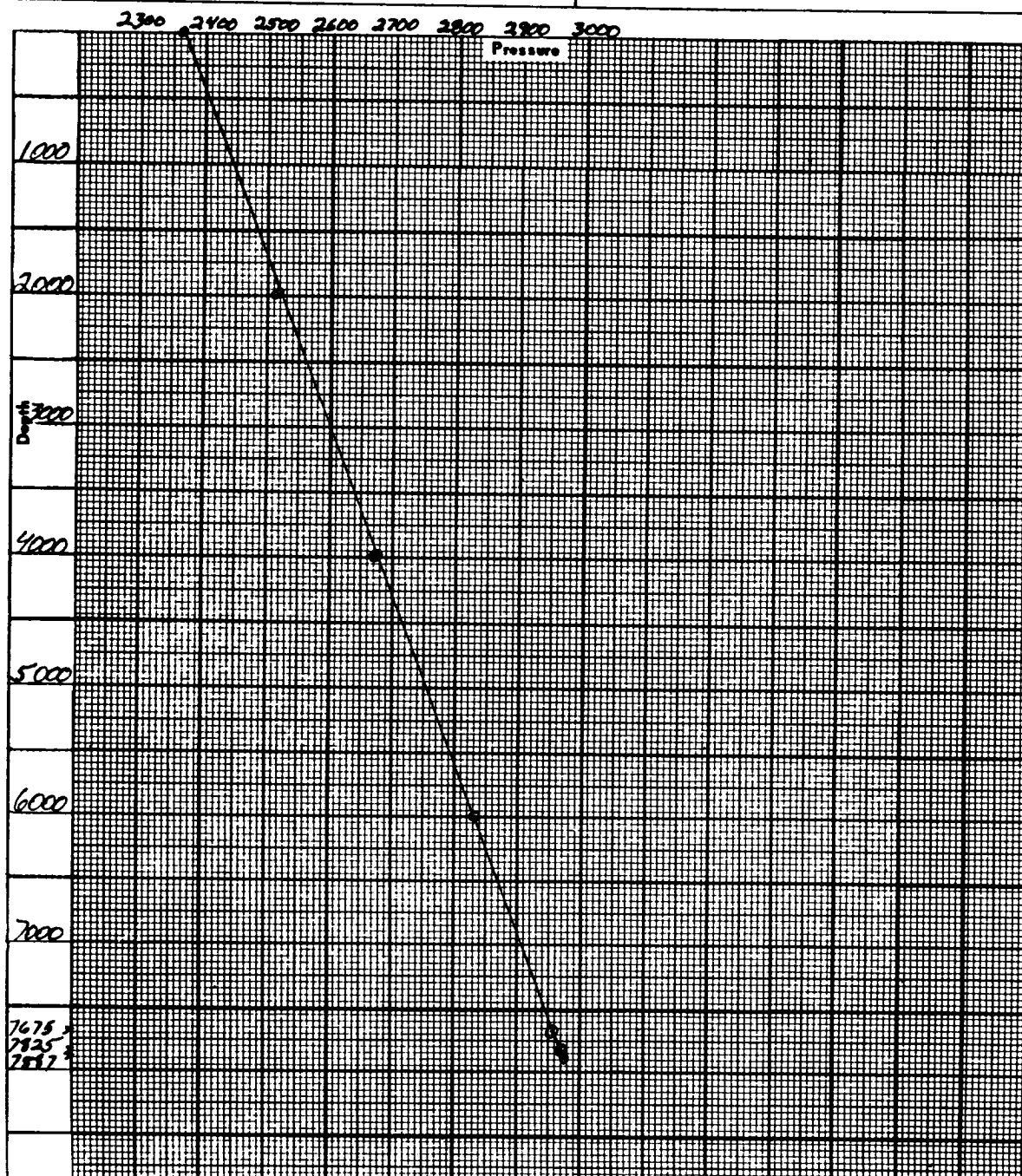


BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR STEVENS OPERATING
LEASE OBRIAN OO
WELL NO. #1
POOL FORMATION
DATE 3/12/85 TIME 0918 HOUR
CO. MAN FRANK LOOP
STATUS SHUT IN TEST DEPTH 7825
TIME S.I. 2200 LAST TEST DATE FIRST TEST
3/8/85 BHP LAST TEST
TUB. PRES. 2363.2 BHP CHANGE
CAS. PRES. FLUID TOP
DATUM PLANE WATER TOP
DATUM PSIA 2975.2 RUN BY BO FAULKENBERRY
TEMP 146° CLOCK # B 3443
PRESSURE RANGE 5625 LBS
ELEMENT NO. RPG3#23914

DEPTH	PSIA PRESSURE	LBS/100FT GRADIENT
0	2363.2	
2000	2515.2	7.6
4000	2672.2	7.8
6000	2831.2	7.9
7675	2958.2	7.6
7825	2970.2	8.0
7887	2975.2	8.2

7887 FEET WAS EXTRAPOLATED
TIME B.H.P. MEASURED 0918 HOUR
LENGTH OF TIME WELL SHUT IN 83 HOUR 18 MIN.
PERFORATIONS FROM 7884 TO 7890



Casper, WY 82601

Run No. 311-14
Date Run 03/11/85
Date Sampled 03/08/85

Lease:	O'Brien 00 #1	Producer	Stevens Operating Corp
Locat on	Red Lake Ridge	County	Chaves State New Mexico
Purpose	Well Test	Sampled By	B & C URLN.
Sampling Temp.	76 °F	Atmos Temp.	70 °F
Volume/day	1.987 MCF	Formation	Fuss.
Pressure on Bomb	265	PSIG: Line Pressure	278.2 PSIA PSIG

Press, Base: 14,73

GPM
Per MCF

BTU Dry	1074
BTU Wet	1057
Calc. Specific Gravity	4.00

@ Std. Press, 14.696

BTU Dry	1074
BTU Wet	1055

Calc. Vap. Press. #/Sq.In.

Reid Vap. Press. #/Sq.In.

Z Factor	.9975
N Value	1.2981
Ave Mol Wt	19.6540
Ave Cu Ft/Gal	

Run by Jeffrey A. Propp

Calculated By Jeffrey A. Propp

Pentane + G.P.M.			.293
Propane + GPM			1.319
6-lb Gasoline			

Ethane + GPM 3.222

Remarks: