

Operator Name Roberts & Murphy, Inc. Lease Name Miller Well # 1-34

Sec. 34 Twp. 34S Rge. 20 East West County Comanche

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

DST #1 5242-5283 30-60-60-90
 IHP 2591
 IFP 46-130
 ISIP 1989
 FFP 74-111
 FSIP 1915
 FHP 2587

Name	Formation Description	
	Top	Bottom
Heebner	-4161	(-2430)
Lansing	-4350	(-2619)
Morrow Sh.	-5179	(-3448)
Miss.	-5212	(-3481)
Viola	-6168	(-4437)
Simpson	-6362	(-4631)
Arbuckle	-6489	(-4758)

Rec. Gas & Gas Cut Mud

DST #2 6201-6244 15-60
 IHP 2957
 IFP 2345-2448
 ISIP 2469
 FHP 2957

Rec. Gas/Oil & Mud

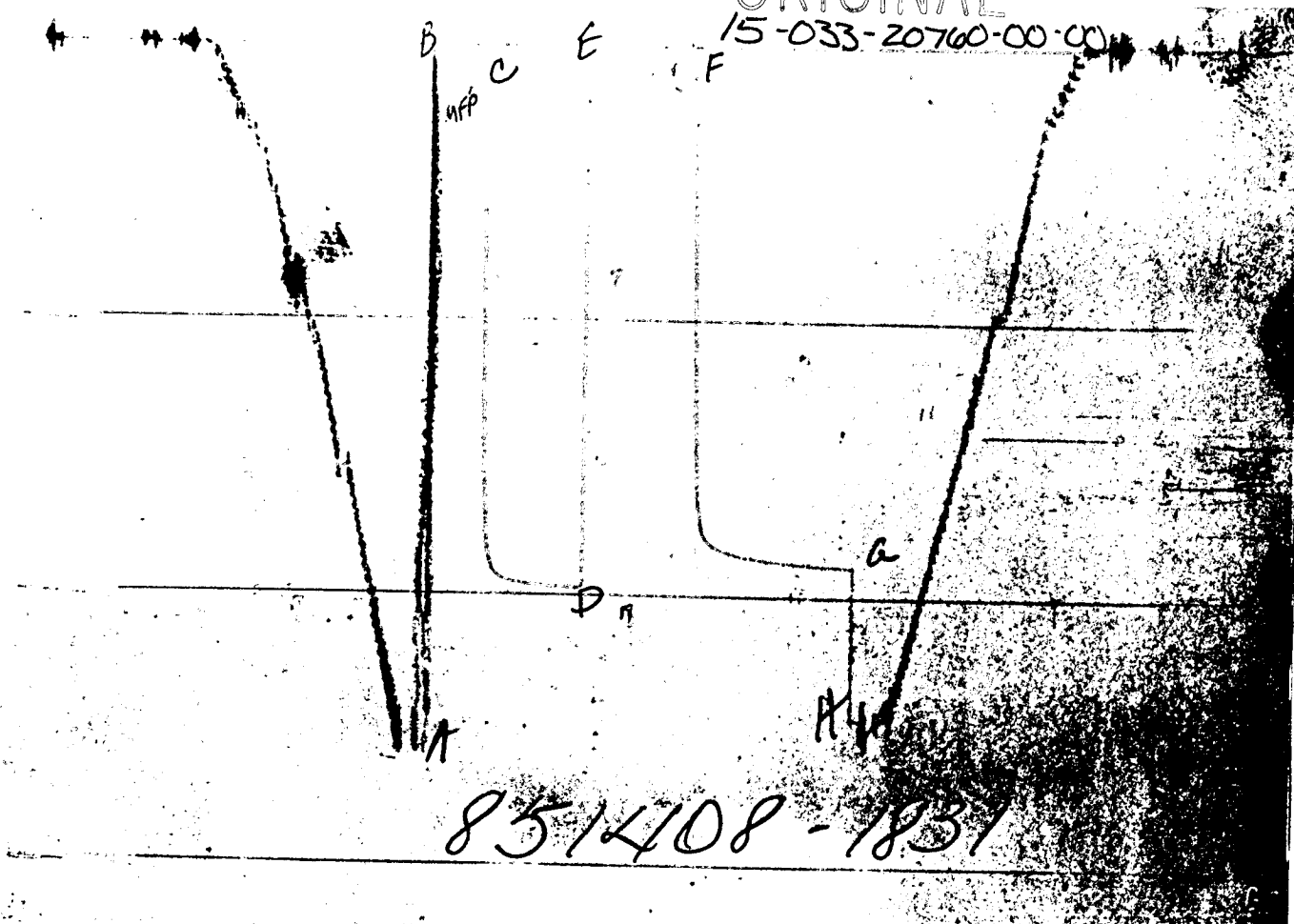
CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Conductor	30	20"		80	Common		
Surface	10-3/8	8-5/8"	24#	650	Common	200	10% Salt 12#
LongString	7-7/8	4-1/2"	10.50#	6500	50/50/np	450	75 gal. Floce 1
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
4SPF	6228-6238			None			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
132 Bbls		600 MCF	0 Bbls	--	CFPB	43	

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Sold Used on Lease
 Open Hole Perforation Other (Specify) 6228-6238.....
 Dually Completed Commingled

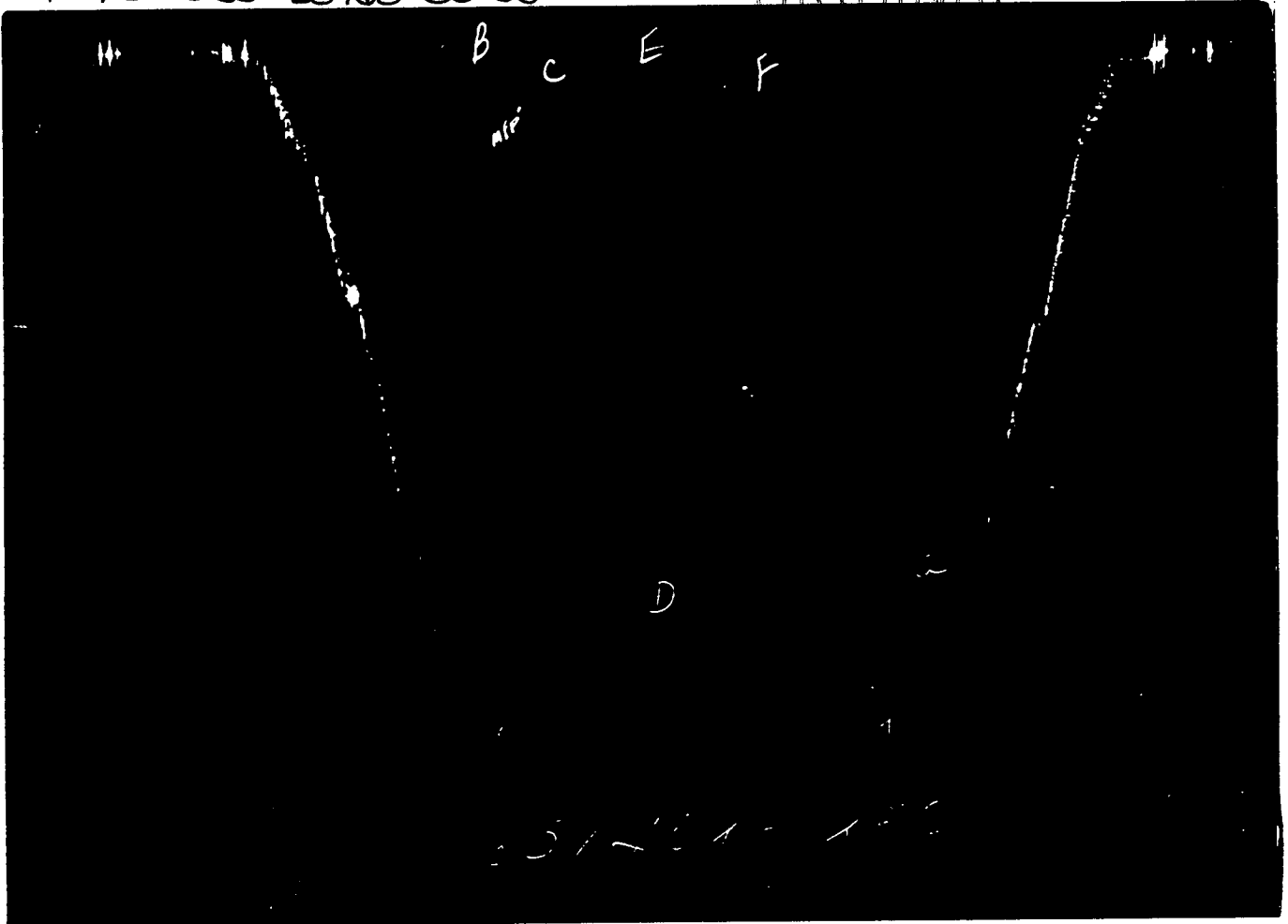
ORIGINAL
15-033-20760-00-00



851408-1831

GAUGE NO: 1831 DEPTH: 5221.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2500.3			
B	INITIAL FIRST FLOW		51.1			
C	FINAL FIRST FLOW		117.1	30.0	29.5	F
C	INITIAL FIRST CLOSED-IN		117.1			
D	FINAL FIRST CLOSED-IN		1981.3	60.0	58.0	C
E	INITIAL SECOND FLOW		85.4			
F	FINAL SECOND FLOW		105.8	60.0	60.8	F
F	INITIAL SECOND CLOSED-IN		105.8			
G	FINAL SECOND CLOSED-IN		1902.1	90.0	91.7	C
H	FINAL HYDROSTATIC		2456.9			



GAUGE NO: 1830 DEPTH: 5280.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2591	2524.0			
B	INITIAL FIRST FLOW	46	70.5			
C	FINAL FIRST FLOW	130	140.8	30.0	29.5	F
C	INITIAL FIRST CLOSED-IN	130	140.8			
D	FINAL FIRST CLOSED-IN	1989	1993.2	60.0	58.0	C
E	INITIAL SECOND FLOW	74	97.6			
F	FINAL SECOND FLOW	111	123.6	60.0	60.8	F
F	INITIAL SECOND CLOSED-IN	111	123.6			
G	FINAL SECOND CLOSED-IN	1915	1913.8	90.0	91.7	C
H	FINAL HYDROSTATIC	2587	2478.2			

RT 11 200

000 3 1 1

FROM CONFIDENTIAL

15-033-20760-00-00

EQUIPMENT & HOLE DATA

TICKET NUMBER: 85140800

FORMATION TESTED: MISSISSIPPI

DATE: 9-19-89 TEST NO: 1

NET PAY (ft): 12.0

GROSS TESTED FOOTAGE: 41.0

TYPE DST: OPEN HOLE

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft):

FIELD CAMP:

HOLE OR CASING SIZE (in): 7.875

PRATT

ELEVATION (ft):

TOTAL DEPTH (ft): 5283.0

TESTER: DON PARADIS

PACKER DEPTH(S) (ft): 5236.5242

WITNESS: LEE JENKINS

FINAL SURFACE CHOKE (in): 0.50000

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.00

MUD VISCOSITY (sec): 34

DRILLING CONTRACTOR:

ESTIMATED HOLE TEMP. (°F): 120

RINE DRILLING

ACTUAL HOLE TEMP. (°F): @ ft

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SAMPLER DATA

SOURCE	RESISTIVITY	CHLORIDES
PIT	°F	9500 ppm
	°F	ppm
	°F	ppm
	°F	ppm
	°F	ppm
	°F	ppm

Psig AT SURFACE: _____
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: _____
 TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

CUSHION DATA

OIL GRAVITY (°API): @ °F
 GAS/OIL RATIO (cu.ft. per bbl):
 GAS GRAVITY:

TYPE AMOUNT WEIGHT

RECOVERED :

180 FEET OF GAS CUT MUD

MEASURED FROM TESTER VALVE

REMARKS :

15-033-20760-00-00

TICKET NO: 85140800
CLOCK NO: 17485 HOUR: 12

GAUGE NO: 1831
DEPTH: 5221.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	51.1			
2	2.0	52.7	1.6		
3	4.0	65.6	12.9		
4	6.0	75.7	10.1		
5	8.0	82.3	6.7		
6	10.0	94.5	12.1		
7	12.0	106.8	12.3		
8	14.0	117.3	10.6		
9	16.0	128.5	11.2		
10	18.0	138.8	10.3		
11	20.0	146.5	7.7		
<input type="checkbox"/> 12	20.8	155.8	9.3		
13	22.0	149.1	-6.7		
14	24.0	142.1	-6.9		
15	26.0	130.4	-11.8		
16	28.0	125.7	-4.7		
C 17	29.5	117.1	-8.6		
FIRST CLOSED-IN					
C 1	0.0	117.1			
2	1.0	161.3	44.3	0.9	1.502
3	2.0	525.1	408.0	1.9	1.197
4	3.0	1522.6	1405.5	2.7	1.037
5	4.0	1746.4	1629.4	3.5	0.920
6	5.0	1847.1	1730.1	4.3	0.837
7	6.0	1875.8	1758.7	5.0	0.774
8	7.0	1899.4	1782.4	5.6	0.719
9	8.0	1914.1	1797.1	6.3	0.672
10	9.0	1924.9	1807.9	6.9	0.633
11	10.0	1932.4	1815.4	7.5	0.598
12	12.0	1943.1	1826.0	8.5	0.539
13	14.0	1949.5	1832.4	9.5	0.492
14	16.0	1954.1	1837.1	10.4	0.454
15	18.0	1957.9	1840.9	11.2	0.422
16	20.0	1961.5	1844.5	11.9	0.394
17	22.0	1964.0	1846.9	12.6	0.369
18	24.0	1965.4	1848.4	13.2	0.349
19	26.0	1967.3	1850.3	13.8	0.329
20	28.0	1968.3	1851.3	14.4	0.313
21	30.0	1970.8	1853.8	14.9	0.298
22	35.0	1973.1	1856.1	16.0	0.266
23	40.0	1976.5	1859.4	17.0	0.240
24	45.0	1977.3	1860.3	17.8	0.219
25	50.0	1979.6	1862.6	18.6	0.202
26	55.0	1980.9	1863.9	19.2	0.187
D 27	58.0	1981.3	1864.3	19.6	0.179

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW					
E 1	0.0	85.4			
2	3.0	64.7	-20.7		
3	6.0	67.0	2.3		
4	9.0	73.6	6.6		
5	12.0	78.0	4.4		
6	15.0	81.4	3.4		
7	18.0	86.2	4.8		
8	21.0	88.2	1.9		
9	24.0	91.4	3.2		
10	27.0	92.8	1.4		
11	30.0	94.2	1.4		
12	33.0	96.1	1.9		
13	36.0	97.2	1.1		
14	39.0	98.3	1.0		
15	42.0	98.9	0.6		
16	45.0	99.8	0.9		
17	48.0	101.0	1.2		
18	51.0	101.9	0.8		
19	54.0	102.3	0.5		
20	57.0	103.2	0.8		
F 21	60.8	105.8	2.7		
SECOND CLOSED-IN					
F 1	0.0	105.8			
2	1.0	258.5	152.7	1.0	1.956
3	2.0	886.6	780.7	1.9	1.671
4	3.0	1286.3	1180.5	2.9	1.496
5	4.0	1600.8	1495.0	3.9	1.368
6	5.0	1694.9	1589.1	4.7	1.280
7	6.0	1752.0	1646.2	5.6	1.206
8	7.0	1775.8	1669.9	6.5	1.143
9	8.0	1788.0	1682.1	7.4	1.088
10	9.0	1799.4	1693.5	8.2	1.041
11	10.0	1806.9	1701.0	9.0	1.001
12	12.0	1819.9	1714.0	10.6	0.931
13	14.0	1828.3	1722.5	12.2	0.871
14	16.0	1834.6	1728.8	13.6	0.822
15	18.0	1841.4	1735.5	15.0	0.780
16	20.0	1845.1	1739.2	16.4	0.742
17	22.0	1847.9	1742.0	17.7	0.708
18	24.0	1852.7	1746.8	18.9	0.678
19	26.0	1856.7	1750.8	20.2	0.650
20	28.0	1860.0	1754.2	21.4	0.626
21	30.0	1863.2	1757.4	22.5	0.603
22	35.0	1867.3	1761.5	25.2	0.554
23	40.0	1874.4	1768.5	27.7	0.513
24	45.0	1878.0	1772.1	30.0	0.478
25	50.0	1882.2	1776.3	32.2	0.448
26	55.1	1884.5	1778.6	34.2	0.421

LEGEND:
 END OF BLEED-OFF

REMARKS:
 ALL READINGS HIGHLY QUESTIONABLE DUE TO BROADNESS OF SCRIBE LINES ON CHART.

TICKET NO: 85140800
 CLOCK NO: 17485 HOUR: 12

GAUGE NO: 1831
 DEPTH: 5221.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
SECOND CLOSED-IN - CONTINUED					
27	60.0	1887.7	1781.9	36.0	0.399
28	70.0	1892.4	1786.6	39.4	0.360
29	80.0	1896.7	1790.9	42.4	0.328
30	90.0	1902.0	1796.2	45.1	0.302
G 31	91.7	1902.1	1796.2	45.5	0.298

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$

LEGEND:
 END OF BLEED-OFF

REMARKS:
 ALL READINGS HIGHLY QUESTIONABLE DUE TO BROADNESS OF SCRIBE LINES ON CHART.

15-033-20760-00-00

TICKET NO: 85140800
 CLOCK NO: 17482 HOUR: 12

GAUGE NO: 1830
 DEPTH: 5280.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	70.5		
	2	2.0	78.6	8.0	
	3	4.0	90.4	11.9	
	4	6.0	101.5	11.0	
	5	8.0	110.2	8.7	
	6	10.0	119.8	9.6	
	7	12.0	131.5	11.7	
	8	14.0	142.5	11.0	
	9	16.0	152.6	10.1	
	10	18.0	161.8	9.2	
	11	20.0	172.4	10.6	
<input checked="" type="checkbox"/>	12	20.8	175.1	2.7	
	13	22.0	171.9	-3.2	
	14	24.0	161.8	-10.0	
	15	26.0	152.9	-8.9	
	16	28.0	145.1	-7.8	
C	17	29.5	140.8	-4.3	
FIRST CLOSED-IN					
C	1	0.0	140.8		
	2	1.0	1008.8	868.0	1.0 1.480
	3	2.0	1527.7	1386.9	1.9 1.202
	4	3.0	1773.1	1632.4	2.8 1.031
	5	4.0	1855.4	1714.7	3.5 0.923
	6	5.0	1901.5	1760.8	4.3 0.836
	7	6.0	1920.0	1779.2	5.0 0.772
	8	7.0	1932.1	1791.3	5.7 0.716
	9	8.0	1941.0	1800.3	6.3 0.670
	10	9.0	1946.7	1805.9	6.9 0.630
	11	10.0	1951.7	1811.0	7.5 0.596
	12	12.0	1958.8	1818.0	8.6 0.538
	13	14.0	1963.4	1822.6	9.5 0.492
	14	16.0	1967.1	1826.3	10.4 0.455
	15	18.0	1969.8	1829.1	11.2 0.422
	16	20.0	1972.9	1832.1	11.9 0.394
	17	21.9	1975.6	1834.8	12.6 0.371
	18	24.0	1977.2	1836.5	13.2 0.348
	19	26.0	1979.4	1838.6	13.8 0.329
	20	28.0	1980.6	1839.8	14.4 0.313
	21	30.0	1981.9	1841.1	14.9 0.298
	22	35.0	1985.5	1844.7	16.0 0.266
	23	40.0	1987.8	1847.0	17.0 0.240
	24	45.0	1989.6	1848.9	17.8 0.219
	25	50.0	1991.1	1850.3	18.6 0.202
	26	55.0	1992.6	1851.8	19.2 0.187
D	27	58.0	1993.2	1852.5	19.6 0.179

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW					
E	1	0.0	97.6		
	2	3.0	85.0	-12.6	
	3	6.0	89.5	4.5	
	4	9.0	94.1	4.6	
	5	12.0	97.6	3.5	
	6	15.0	103.1	5.5	
	7	18.0	106.3	3.2	
	8	21.0	109.2	2.9	
	9	24.0	111.5	2.3	
	10	27.0	113.1	1.6	
	11	30.0	114.3	1.2	
	12	33.0	116.0	1.7	
	13	36.0	116.9	0.9	
	14	39.0	117.9	1.0	
	15	42.0	118.9	0.9	
	16	45.0	119.8	0.9	
	17	48.0	120.6	0.8	
	18	51.0	121.3	0.7	
	19	54.0	121.8	0.5	
	20	57.0	123.2	1.4	
F	21	60.8	123.6	0.5	
SECOND CLOSED-IN					
F	1	0.0	123.6		
	2	1.0	620.6	496.9	1.0 1.961
	3	2.0	1267.4	1143.7	2.0 1.659
	4	3.0	1563.0	1439.4	2.9 1.496
	5	4.0	1694.0	1570.4	3.8 1.373
	6	5.0	1759.3	1635.7	4.8 1.276
	7	6.0	1785.1	1661.5	5.6 1.206
	8	7.0	1804.6	1681.0	6.5 1.141
	9	8.0	1814.7	1691.1	7.4 1.088
	10	9.0	1822.6	1698.9	8.2 1.043
	11	10.0	1829.0	1705.4	9.0 1.003
	12	12.0	1839.3	1715.6	10.6 0.930
	13	14.0	1847.0	1723.3	12.2 0.871
	14	16.0	1852.2	1728.6	13.6 0.823
	15	18.0	1857.3	1733.6	15.0 0.779
	16	20.0	1861.2	1737.5	16.4 0.742
	17	22.0	1864.9	1741.3	17.7 0.709
	18	24.0	1867.9	1744.3	19.0 0.677
	19	26.0	1870.7	1747.0	20.2 0.650
	20	28.0	1873.7	1750.1	21.4 0.626
	21	30.0	1876.0	1752.4	22.5 0.603
	22	35.0	1881.6	1757.9	25.2 0.554
	23	40.0	1886.4	1762.7	27.7 0.513
	24	45.0	1891.1	1767.4	30.0 0.478
	25	50.0	1895.0	1771.4	32.2 0.448
	26	55.0	1898.4	1774.7	34.2 0.422

LEGEND:

MAXIMUM FLOW PRESSURE

REMARKS:















TICKET NO: 85140800
CLOCK NO: 17482 HOUR: 12

GAUGE NO: 1830
DEPTH: 5280.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
SECOND CLOSED-IN - CONTINUED					
27	60.0	1900.6	1776.9	36.1	0.399
28	70.0	1905.6	1781.9	39.4	0.360
29	80.0	1909.5	1785.9	42.4	0.328
30	90.0	1913.0	1789.3	45.1	0.302
G 31	91.7	1913.8	1790.1	45.5	0.298

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$

LEGEND:
 MAXIMUM FLOW PRESSURE
 REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4577.0	
3		DRILL COLLARS.....	6.250	2.250	510.0	
50		IMPACT REVERSING SUB.....	5.000	3.000	1.0	5087.5
3		DRILL COLLARS.....	6.250	2.250	120.0	
5		CROSSOVER.....	5.000	3.000	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5219.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	5221.0
15		JAR.....	5.000	1.750	5.0	
15		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	5236.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	5242.0
20		FLUSH JOINT ANCHOR.....	5.000	3.840	35.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	5280.0
TOTAL DEPTH						5283.0

15-033-20760-00-00
ORIGINAL

RECEIVED

DEC 13 1991

FROM: CONFIDENTIAL



HALLIBURTON SERVICES

THIS REPORT IS BASED ON SOUND ENGINEERING PRACTICES, BUT
BECAUSE OF VARIABLE WELL CONDITIONS AND OTHER INFORMATION
WHICH MUST BE RELIED UPON HALLIBURTON MAKES NO WARRANTY,
EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE DATA OR ANY
CALCULATIONS OR OPINIONS EXPRESSED HEREIN. YOU AGREE THAT
HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE
WHETHER DUE TO NEGLIGENCE OR OTHERWISE, ARISING OUT OF OR
IN CONNECTION WITH SUCH DATA, CALCULATIONS, OR OPINIONS.

Lease Name MILLER
Lease Owner ROBERTS & MURPHY

Well No. 1-34
Date 10-3-89

Test No. 2
Ticket No. 816166

JAN 25 1991

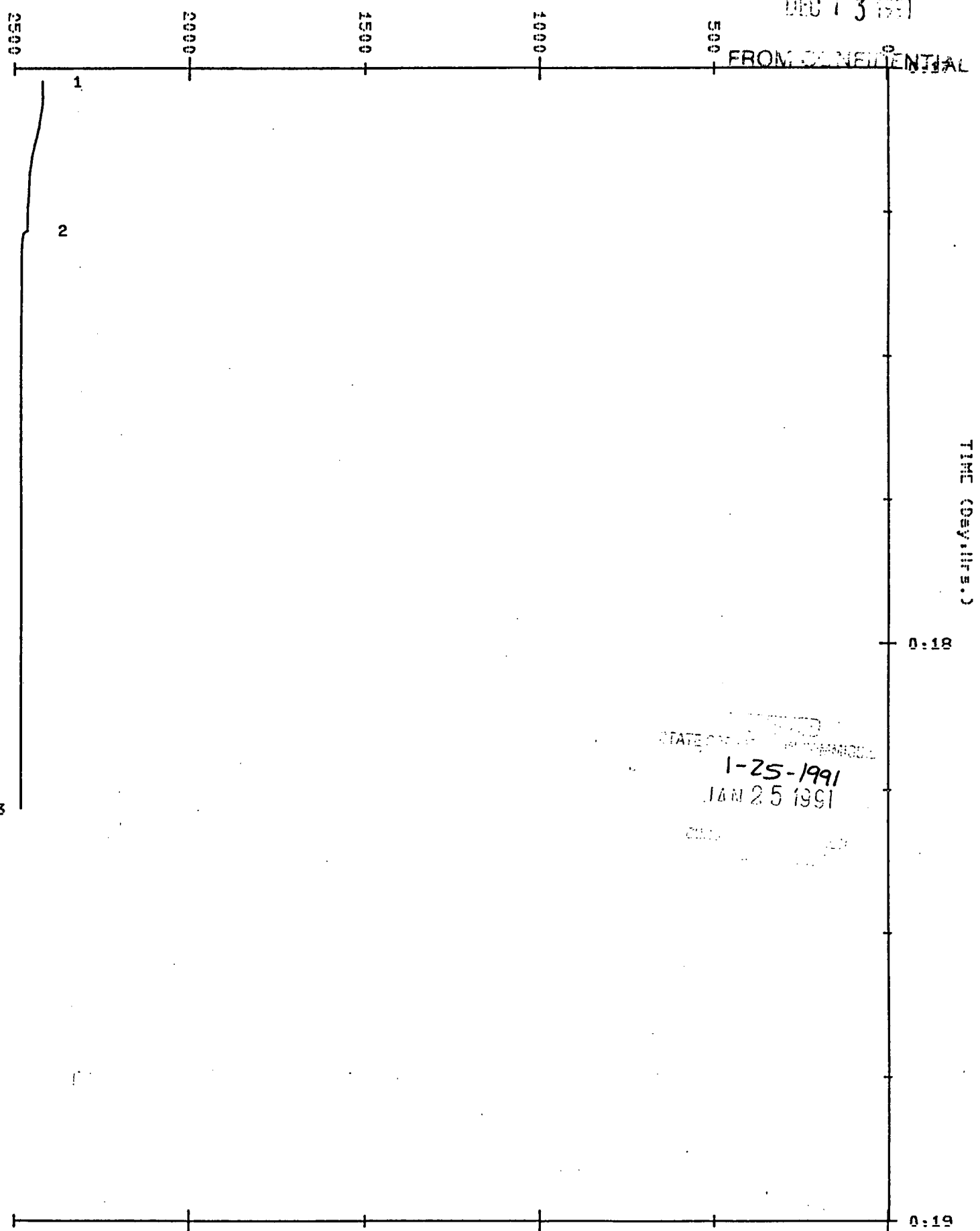
15-033-20760-00-00

Lease Name MILLER Well No. 1-34 Test No. 2
Lease Owner ROBERTS & MURPHY Date 10-3-89 Ticket no. 816166
Gauge Sn. 005604

ORIGINAL RELEASED

DEC 13 1991

Pressure



STATE OF TEXAS
1-25-1991
JAN 25 1991

15-033-20760-00-00

Lease Name MILLER Well No. 1-34 Test No. 2
Lease Owner ROBERTS & MURPHY Date 10-3-89 Ticket no. 816166
Gauge Sn. 005604

ORIGINAL

loc.	Time	Description	Press.	Delta t	Time int.
0	0:17:00:00	Start Time			
1	0:17:01:20	initial flow # 1	2418.22	1.333	0 1
2	0:17:16:52	final flow # 1	2460.14	15.533	1 2
3	0:18:16:50	closed in # 1	2477.33	59.967	2 3

RELEASED
12-13-1991
DEC 13 1991

FROM CONFIDENTIAL

15-033-20760-00-00

Lease Name MILLER

Date 10-3-89

Ticket No. 816166

Period # 0

Time	Press.	Temp	Delta t	Ps	P10	CCc	
0:17:02:52	2418.22	141					initial flow # 1
0:17:03:40	2418.53	141	2.3				ORIGINAL
0:17:06:22	2429.92	141	5.0				
0:17:08:01	2440.68	141	6.7				
0:17:09:13	2448.24	141	7.9				
0:17:11:01	2455.49	141	9.7				
0:17:14:23	2459.52	141	13.1				
0:17:16:52	2460.14	141	15.5				
0:17:16:55	2460.14	141	.1				
0:17:17:01	2465.84	141	.1				
0:17:17:06	2469.46	141	.2				
0:17:17:15	2471.53	141	.4				
0:17:17:42	2474.12	141	.8				
0:17:18:40	2475.78	141	1.8	475.51	471.81	.977411	
0:17:59:59	2476.60	141	43.1	472.22	470.85	.899341	
0:18:16:50	2477.33	141	60.0	472.13	470.82	.924697	

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12-13-1991
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final flow # 1

STATE OF
1-25-1991
25 1991
COMMISSION

Lease Name MILLER	Well No. 1-34	Test No. 2
Lease Owner ROBERTS & MURPHY	Date 10-3-89	Ticket no. 816166
Gauge Sn. 005604		

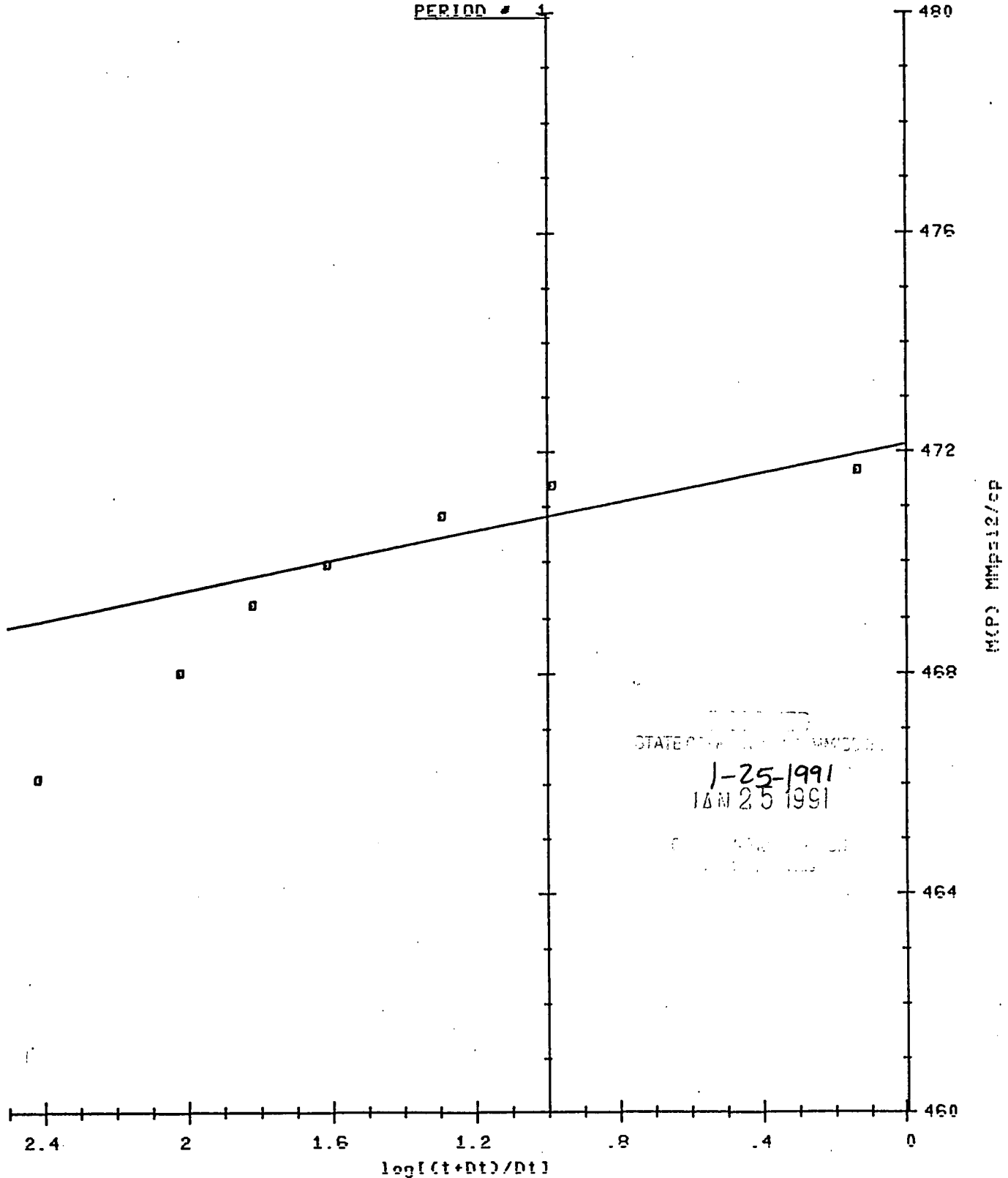
RELEASED

DEC 13 1991
12-13-1991

ORIGINAL

FROM CONFIDENTIAL

HORNER PLOT
 Ps= 2477.99
 P10= 2474.10
 MCPs)= 472.13
 MCP10)= 470.82
 CC= .924697
 PERIOD # 1



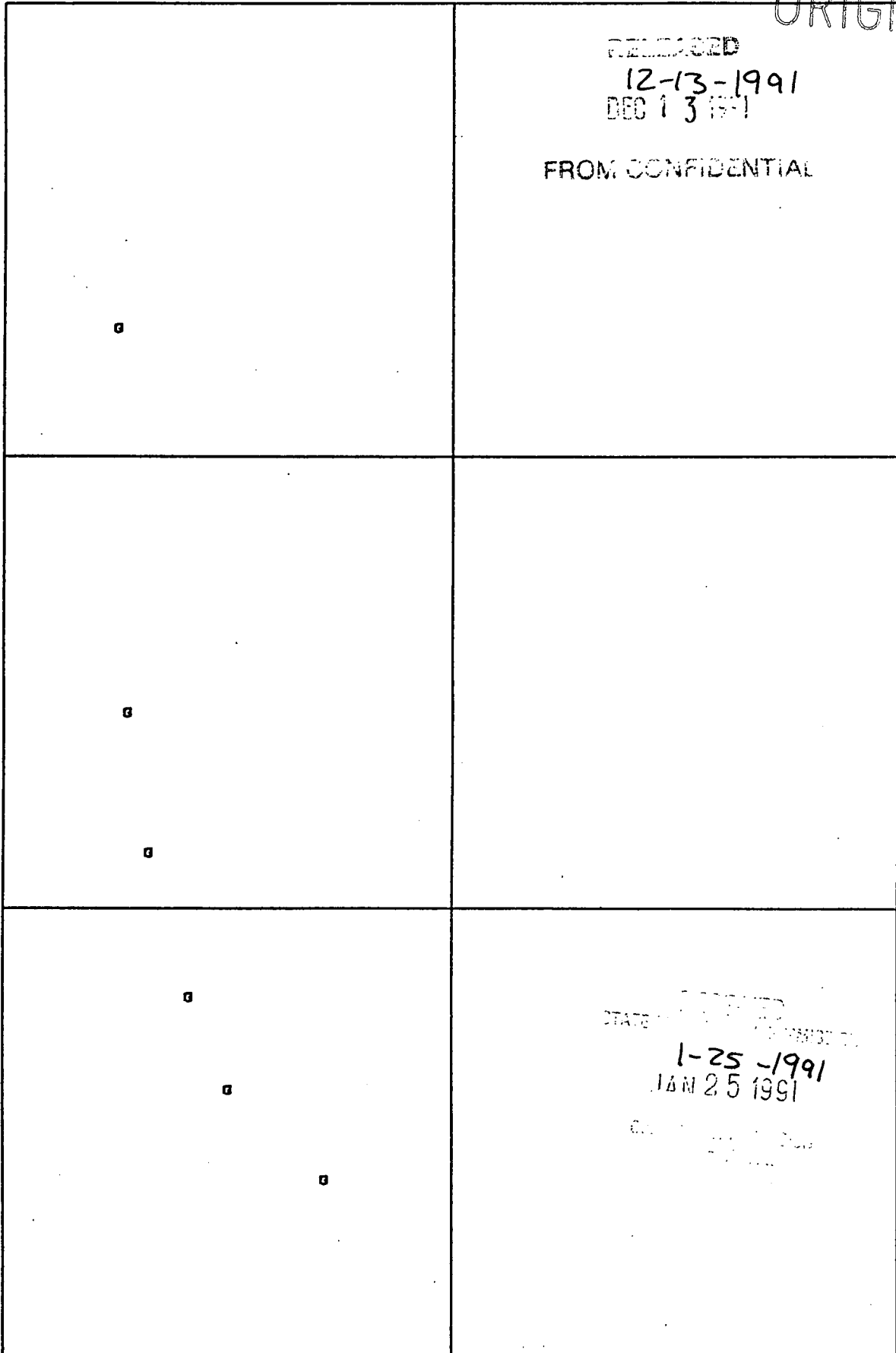
STATE OF TEXAS

1-25-1991
JAN 25 1991

15-033-20760-00-00

Lease Name MILLER	Well No. 1-34	Test No. 2
Lease Owner ROBERTS & MURPHY	Date 10-3-89	Ticket no. 816166
Gauge Sn. 005604	Log-Log PLOT	
	PERIOD # 1	

ORIGINAL



.1

.01

.001

(t+1)/(t+1)

10

1

.1

DELTA M(p) MMpsi2/cp

ORIGINAL

15-033-20760-00-00

HALLIBURTON SERVICES

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Lease Name	MILLER	Well No.	1-34	Test No.	FROM CONFIDENTIAL
Lease Owner	ROBERTS & MURPHY	Date	10-3-89	Ticket no.	816166
Gauge Sn.	005604				

1-25-1991
JAN 25 1991
COMMISSION

GAS PRODUCTION
PERIOD # 1

GAS GRAVITY	.650000	TEMPERATURE	141.000000	F	
NET PAY	43.000000	ft	POROSITY	10.000000	%
RADIUS OF WELL BORE	.328125	ft	VISCOSITY	.017959	cp
GAS DEVIATION FACTOR	.822377	GAS PROPERTIES AT	2477.329193	Psig	
SYS. COMPRESSIBILITY	.000456	v/v/p			

GAUGE DEPTH		6241.000000	ft
FINAL FLOW PRESSURE		2460.144928	Psig
TOTAL FLOW TIME		15.525824	min
CALC. STATIC PRESS.	Ps	2477.988539	Psig
EXTRA. PRESS.	m(Ps)	472.132108	
ONE CYCLE PRESS.	m(P10)	470.819795	
PRODUCTION RATE	Q	10739.000000	MCFD
TRANSMISSIBILITY	kh/u	448308.748936	mf/c
FLOW CAPACITY	kh	8050.998292	mdft
PERMEABILITY	k	187.232518	md
SKIN FACTOR	S	-1.066767	
DAMAGE RATIO	DR	.831598	
INDICATED RATE MAX ADF1		843016.318620	MCFD
INDICATED RATE MIN ADF2		95148.054345	MCFD
THEO. RATE	DR*ADF1	843016.318620	MCFD
THEO. RATE	DR*ADF2	95148.054345	MCFD
RADIUS OF INVEST.	ri	246.105184	ft

WALLBURY SERVICES
JOB LOG

WELL NO: 1-37 LEASE WILMER TICKET NO. 8116166
 CUSTOMER ROBERT MURPHY INC PAGE NO. 1
 JOB TYPE DST #2 TIGHT HOLE DATE 10-3-89

FORM 2013 R-2

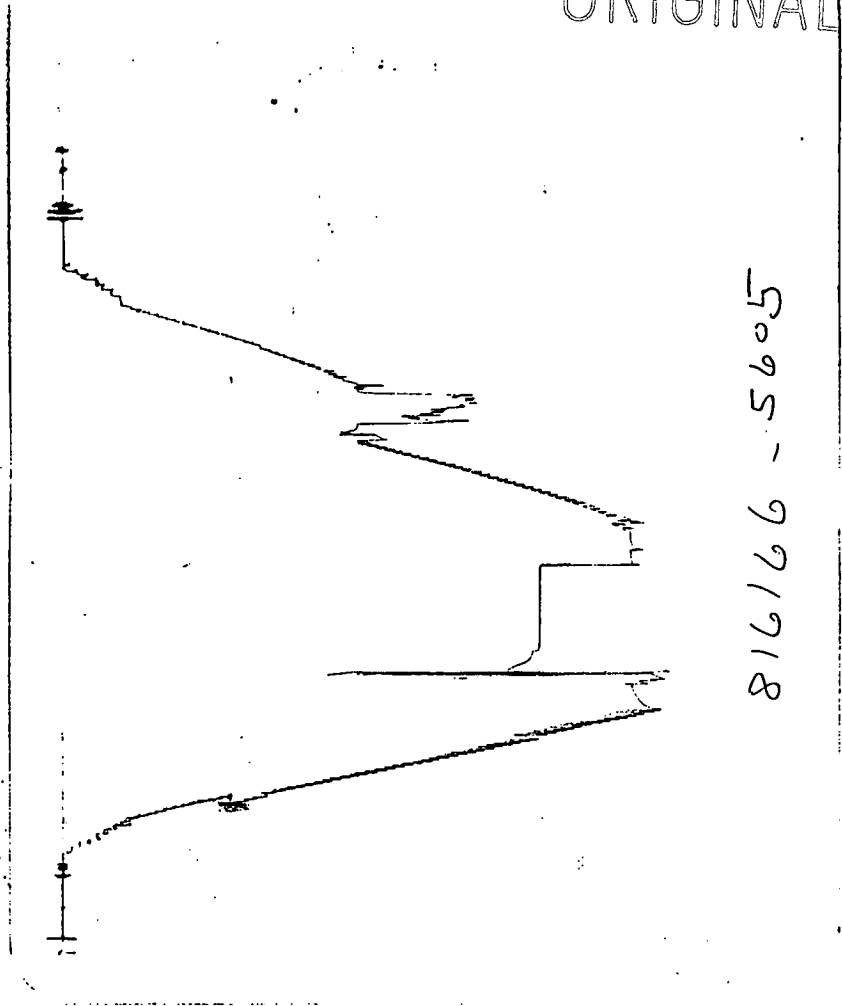
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0745							CALLED OUT
	1330							ON LOCATION PULLING
	1400							PICKUP TOOL
	1440							TOOL IN TABLE
	1445							TOOL THROUGH TABLE
	1657							ON BOTTOM
	1700							TOOL OPEN STRONG BLOW
	1701							OPEN 2 INCH LINE W/ 1/2 INCH CHOKE
	1702	CHOKE SIZE	PSI					GAS TO SURFACE
	1706							OIL + GAS TO SURFACE
	1710	1/2"	1650			10,426-6		
	1715	1/2"	1700			10,739-711		CLOSED TOOL
	1815							OFF BOTTOM
	2200							REVERSED OUT
								TOOL IN TABLE
								TIME INTERVAL 15-60
								Hyd PSI 2957
								IF 2345 2448
								ICIP 2469
								Hyd PSI 2957
								TEMP 141
								RECOVERY
								GAS + UNKNOWN AMOUNT OIL

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 12-13-1991
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 STATE OF TEXAS
 1-25-1991
 JAN 25 1991

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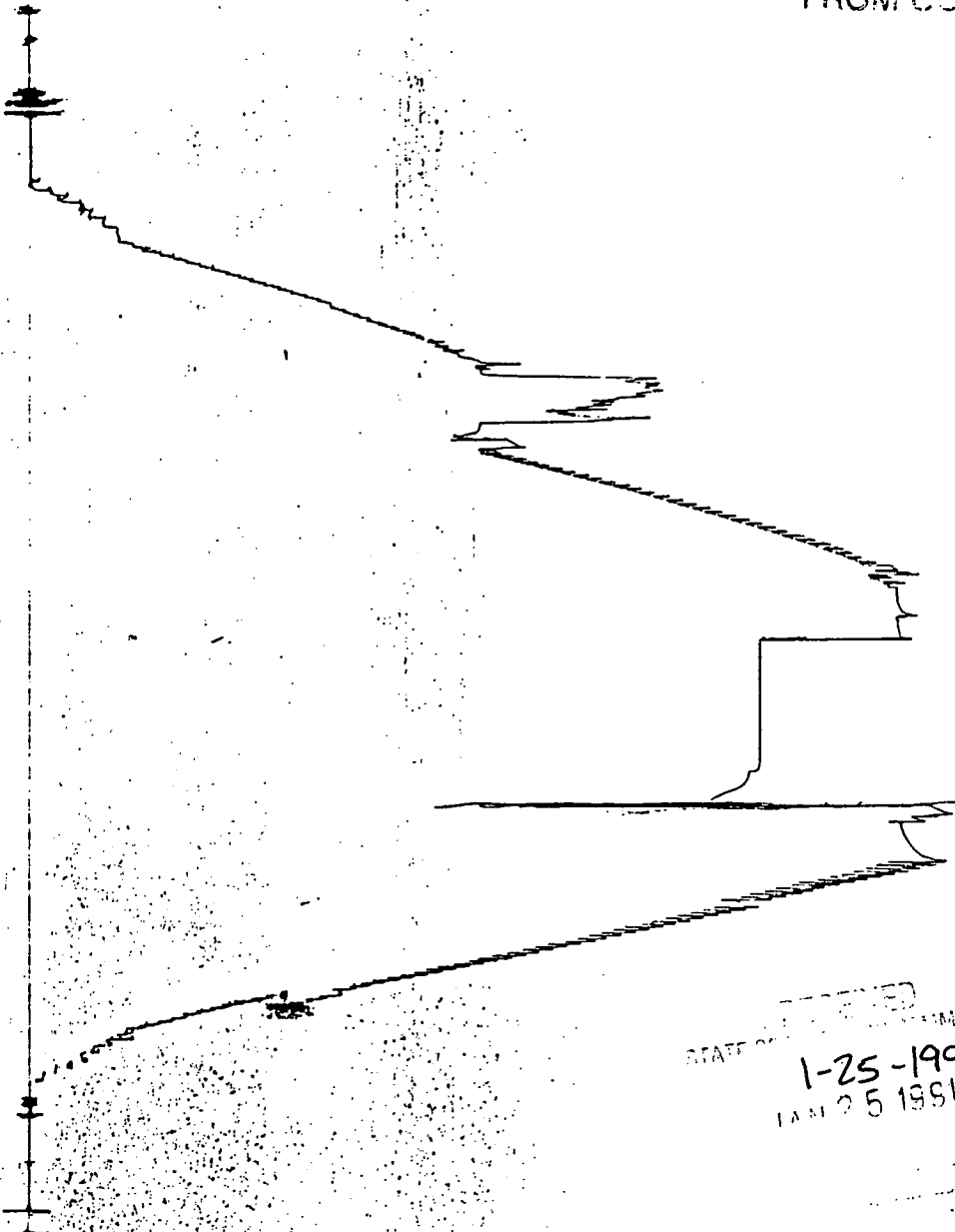
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STATE DEPT. MISSOURI

JAN 25 1991
1-25-1991

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12-13-1991
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STATE OF CALIFORNIA
1-25-1991
JAN 25 1991