FROM CONFIDENTIAL

15-033-20760

ROBERTS AND MURPHY

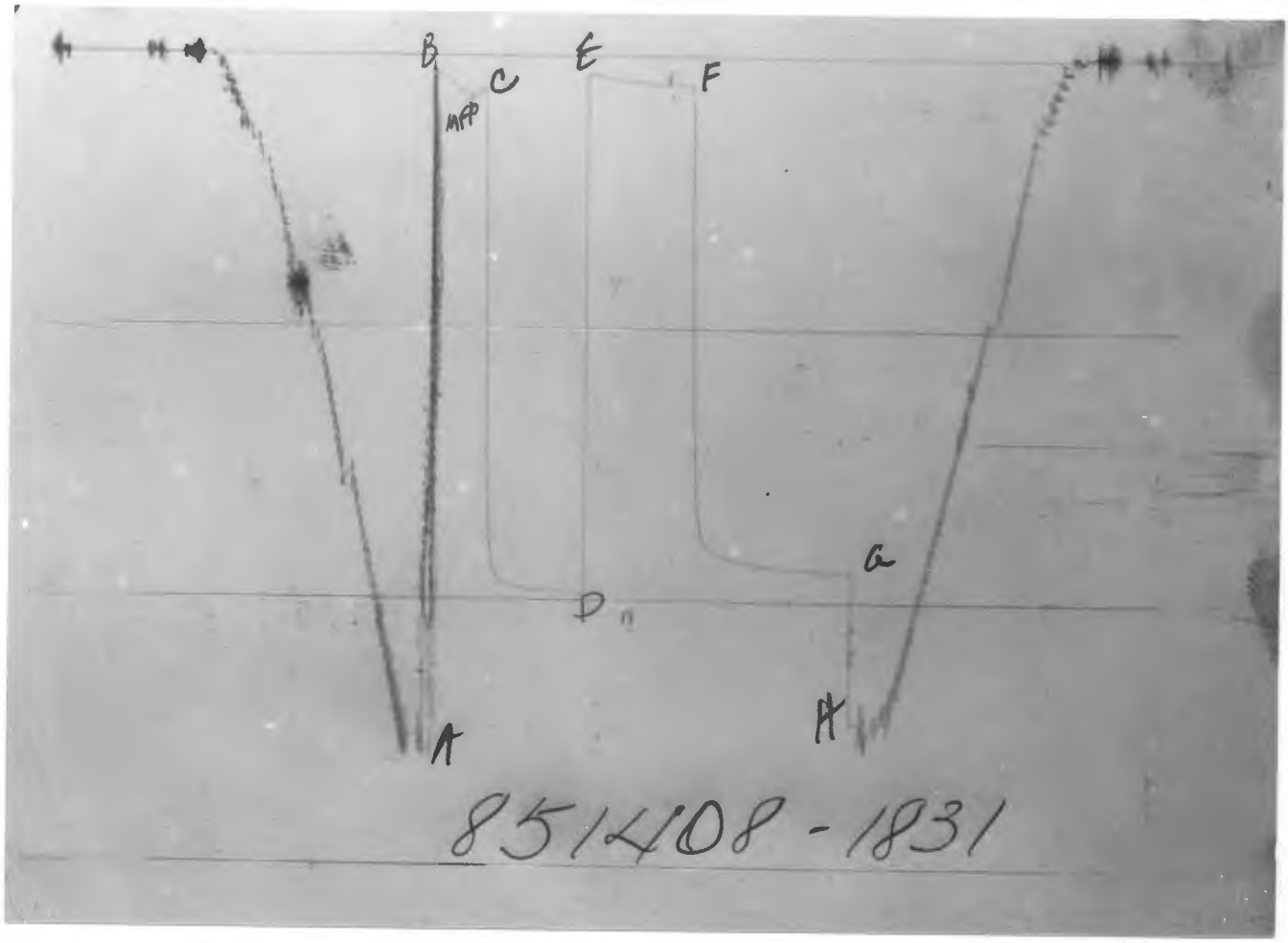
LEASE : MILLER

WELL NO.: 1-34

TEST NO.: 1

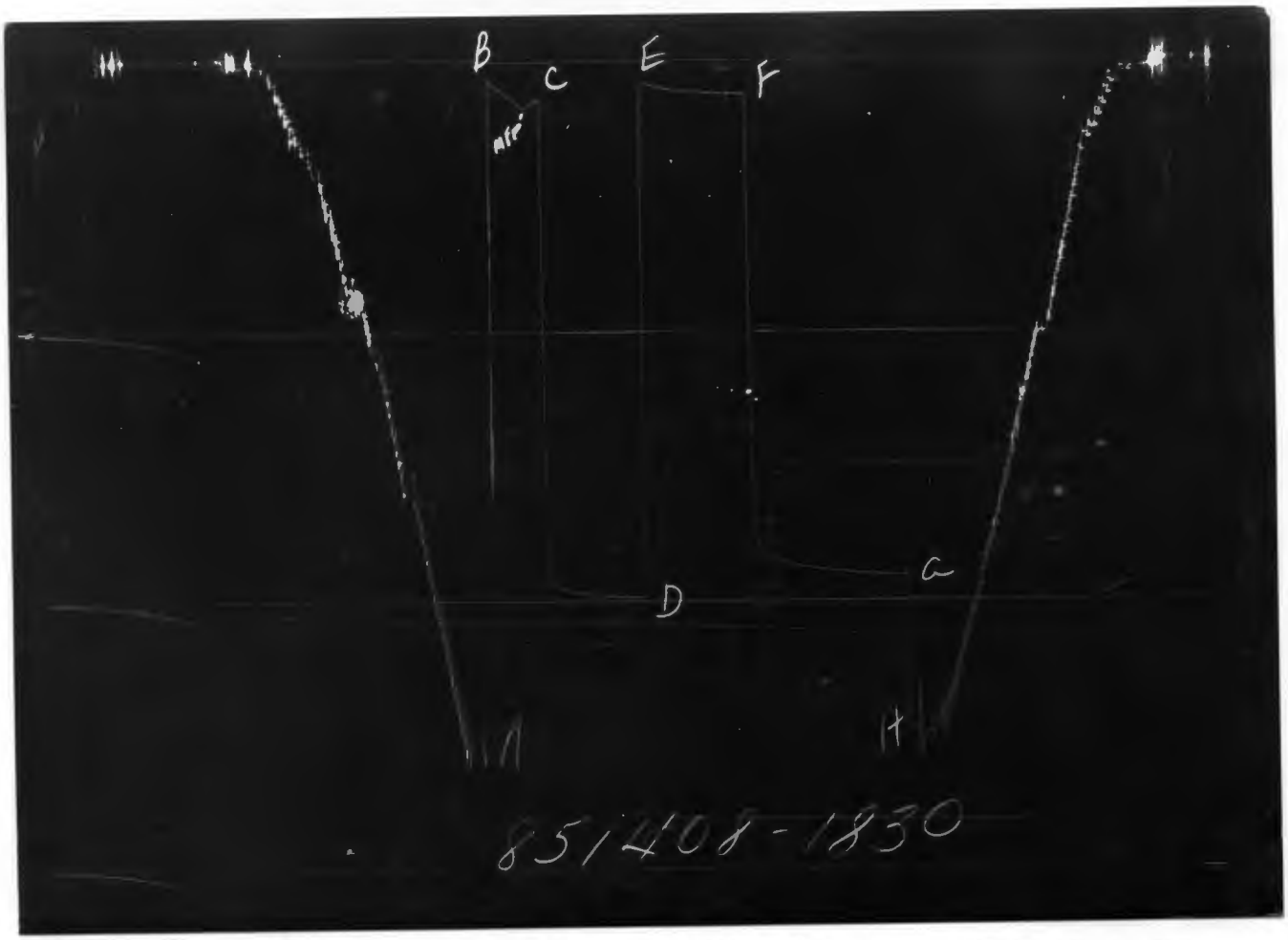
TICKET NO. 85140800
04-OCT-89
PRATT

LEGAL LOCATION SEC. - TWP. - RNG.	34-34-20W	FIELD AREA		LEASE NAME	MILLER
COUNTY	COMANCHE	WELL NO.	1-34		
STATE	KANSAS	TEST NO.	1		
		TESTED INTERVAL	5242.0 - 5283.0		
LEASE OWNER/COMPANY NAME	ROBERTS AND MURPHY				



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	30.0	29.5	F
C	FINAL FIRST FLOW		117.1			
C	INITIAL FIRST CLOSED-IN		117.1	60.0	58.0	C
D	FINAL FIRST CLOSED-IN		1981.3			
E	INITIAL SECOND FLOW		85.4	60.0	60.8	F
F	FINAL SECOND FLOW		105.8			
F	INITIAL SECOND CLOSED-IN		105.8	90.0	91.7	C
G	FINAL SECOND CLOSED-IN		1902.1			
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	30.0	29.5	F
C	FINAL FIRST FLOW	130	140.8			
C	INITIAL FIRST CLOSED-IN	130	140.8	60.0	58.0	C
D	FINAL FIRST CLOSED-IN	1989	1993.2			
E	INITIAL SECOND FLOW	74	97.6	60.0	60.8	F
F	FINAL SECOND FLOW	111	123.6			
F	INITIAL SECOND CLOSED-IN	111	123.6	90.0	91.7	C
G	FINAL SECOND CLOSED-IN	1915	1913.8			
H	FINAL HYDROSTATIC	2587	2478.2			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPI
NET PAY (ft): 12.0
GROSS TESTED FOOTAGE: 41.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft):
TOTAL DEPTH (ft): 5283.0
PACKER DEPTH(S) (ft): 5236, 5242
FINAL SURFACE CHOKE (in): 0.50000
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.00
MUD VISCOSITY (sec): 34
ESTIMATED HOLE TEMP. (°F): 120
ACTUAL HOLE TEMP. (°F): ____ @ _____ ft

TICKET NUMBER: 85140800
DATE: 9-19-89 TEST NO: 1
TYPE DST: OPEN HOLE
FIELD CAMP: PRATT
TESTER: DON PARADIS
WITNESS: LEE JENKINS
DRILLING CONTRACTOR: RINE DRILLING

FLUID PROPERTIES FOR RECOVERED MUD & WATER

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

SAMPLER DATA

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

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

180 FEET OF GAS CUT MUD

MEASURED FROM TESTER VALVE

REMARKS:

TYPE & SIZE MEASURING DEVICE: MERLA - 1/2" | TICKET NO: 85140800

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
9-29-89					
1215					ON LOCATION
1345					STARTED CLOCKS
1435					PICKED UP TOOLS
1710					TOOL ON BOTTOM, 86,000# WEIGHT
1715					OPENED TOOL WITH A GOOD BLOW
1729					GAS TO THE SURFACE IN 14 MIN.
1734	.50	12	128		
1739	.50	70	440		PINCHED VALVE...OPENED
1744	.50	56	370		
1745	.50				CLOSED TOOL
1845	.50				REOPENED TOOL FOR SECOND FLOW
					PERIOD
1855	.50	37	265		
1905	.50	42	296		
1915	.50	42	296		
1925	.50	43	301		
1935	.50	42	296		
1945	.50	42	296		CLOSED TOOL FOR SECOND CIP
					PERIOD
2115					TOOL OFF BOTTOM, 94,000# WEIGHT
2340					TOOL AT TABLE
9-30-89					
0030					TOOLS LOADED OUT

TICKET NO: 85140800

CLOCK NO: 17485 HOUR: 12

GAUGE NO: 1831

DEPTH: 5221.0

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
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		
[1]	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

SECOND FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
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:
[1] END OF BLEED-OFF

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

TICKET NO: 85140800	GAUGE NO: 1831
CLOCK NO: 17485 HOUR: 12	DEPTH: 5221.0

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

LEGEND:
[1] END OF BLEED-OFF

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

TICKET NO: 85140800

CLOCK NO: 17482 HOUR: 12

GAUGE NO: 1830

DEPTH: 5280.0

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
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		
[1]	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

SECOND FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
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:
[1] MAXIMUM FLOW PRESSURE

REMARKS:

TICKET NO: 85140800	GAUGE NO: 1830
CLOCK NO: 17482 HOUR: 12	DEPTH: 5280.0

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

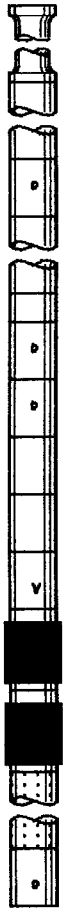
REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

LEGEND:
[1] MAXIMUM FLOW PRESSURE

REMARKS:

TICKET NO. 85140800

		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	
16	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



EQUIPMENT DATA

Computer Inventoried

HALLIBURTON SERVICES

Lease Name MILLER Well No. 1-34

Lease Owner ROBERTS & MURPHY Date 10-3-89

Test No. 2

Ticket No. 816166

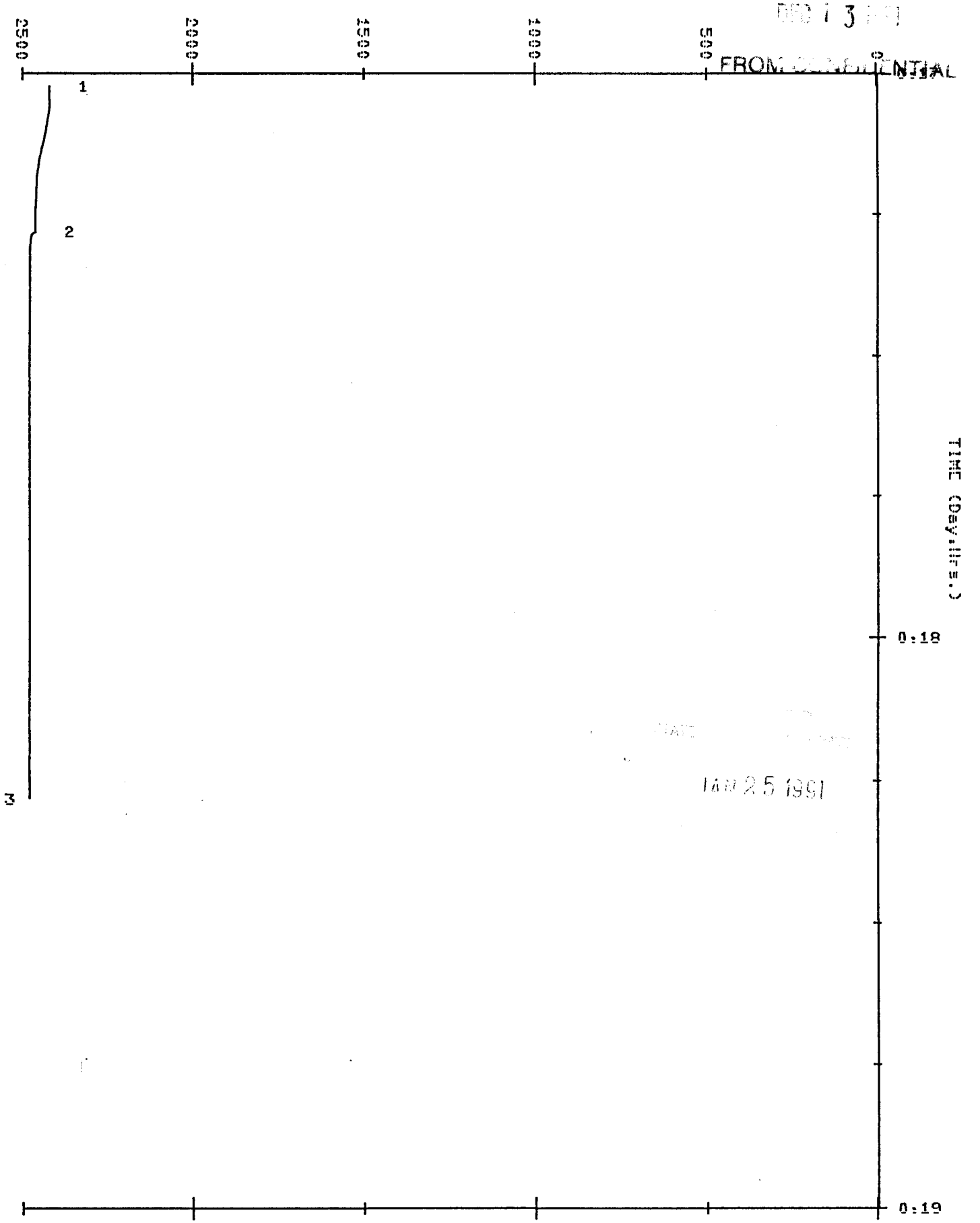
34-34-20W

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 | Well No. 1-34 | Test No. 2

Lease Owner ROBERTS & MURPHY | Date 10-3-89 | Ticket no. 816166

Gauge Sn. 005604



Lease Name MILLER | Well No. 1-34 | Test No. 2

Lease Owner ROBERTS & MURPHY | Date 10-3-89 | Ticket no. 816166

Gauge Sn. 005604

loc.	Time	Description	Press.	Delta t	Time int.
0	0:17:00:00	Start Time			
1	0:17:01:20	inital 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

Lease Name MILLER Date 10-3-89 Ticket No. 816166 Period # 0

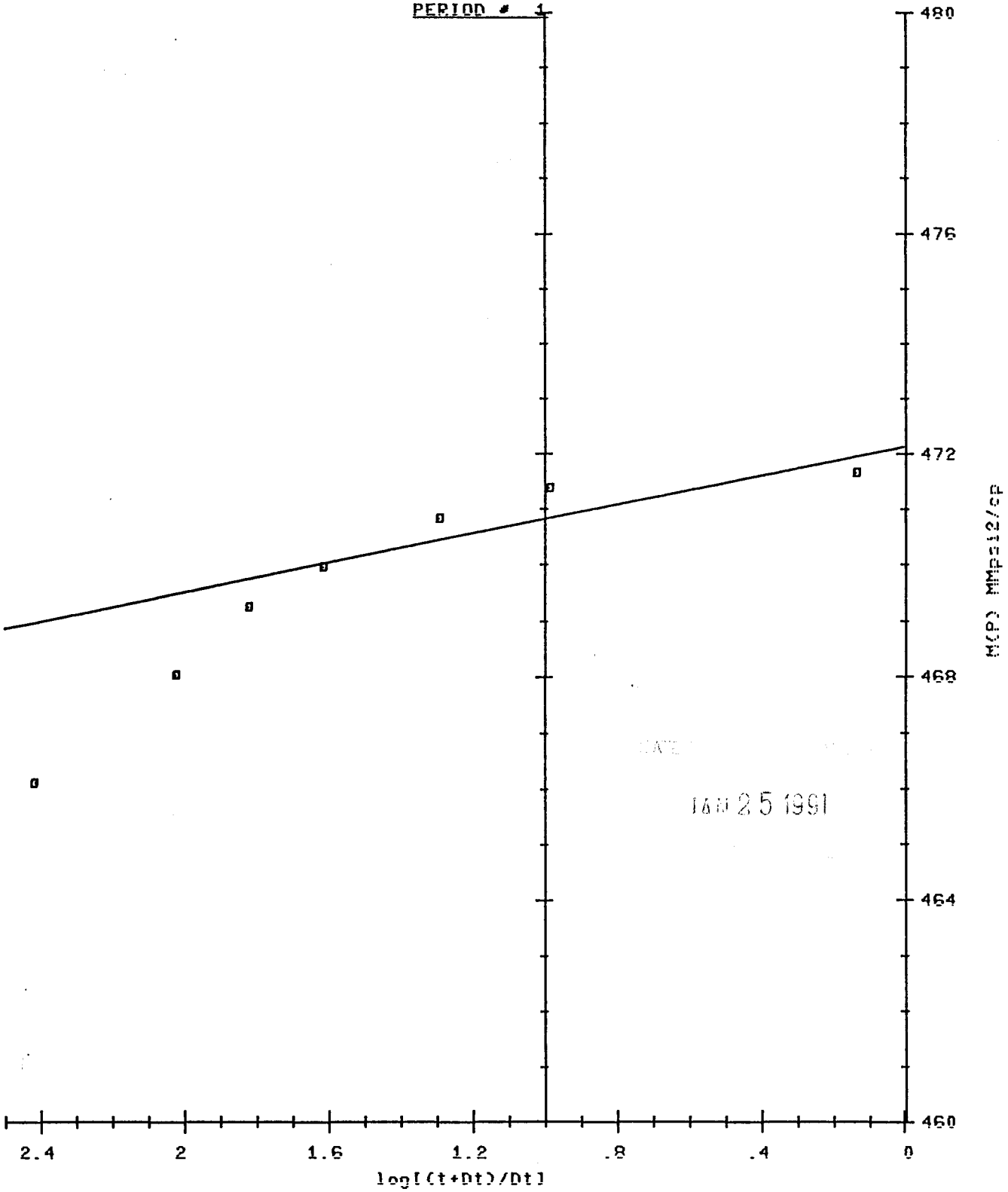
Time	Press.	Temp	Delta t	Ps	P10	CCc	
0:17:02:52	2418.22	141					inital flow # 1
0:17:03:40	2418.53	141	2.3				
0:17:06:22	2429.92	141	5.0				
0:17:08:01	2440.68	141	6.7				
0:17:09:13	2448.24	141	7.9				
0:17:11:01	2455.49	141	9.7				
0:17:14:23	2459.52	141	13.1				
0:17:16:52	2460.14	141	15.5				
0:17:16:55	2460.14	141	.1				final flow # 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	

Lease Name MILLER | Well No. 1-34 | Test No. 2

Lease Owner ROBERTS & MURPHY | Date 10-3-89 | Ticket no. 816166

Gauge Sn. 005604

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



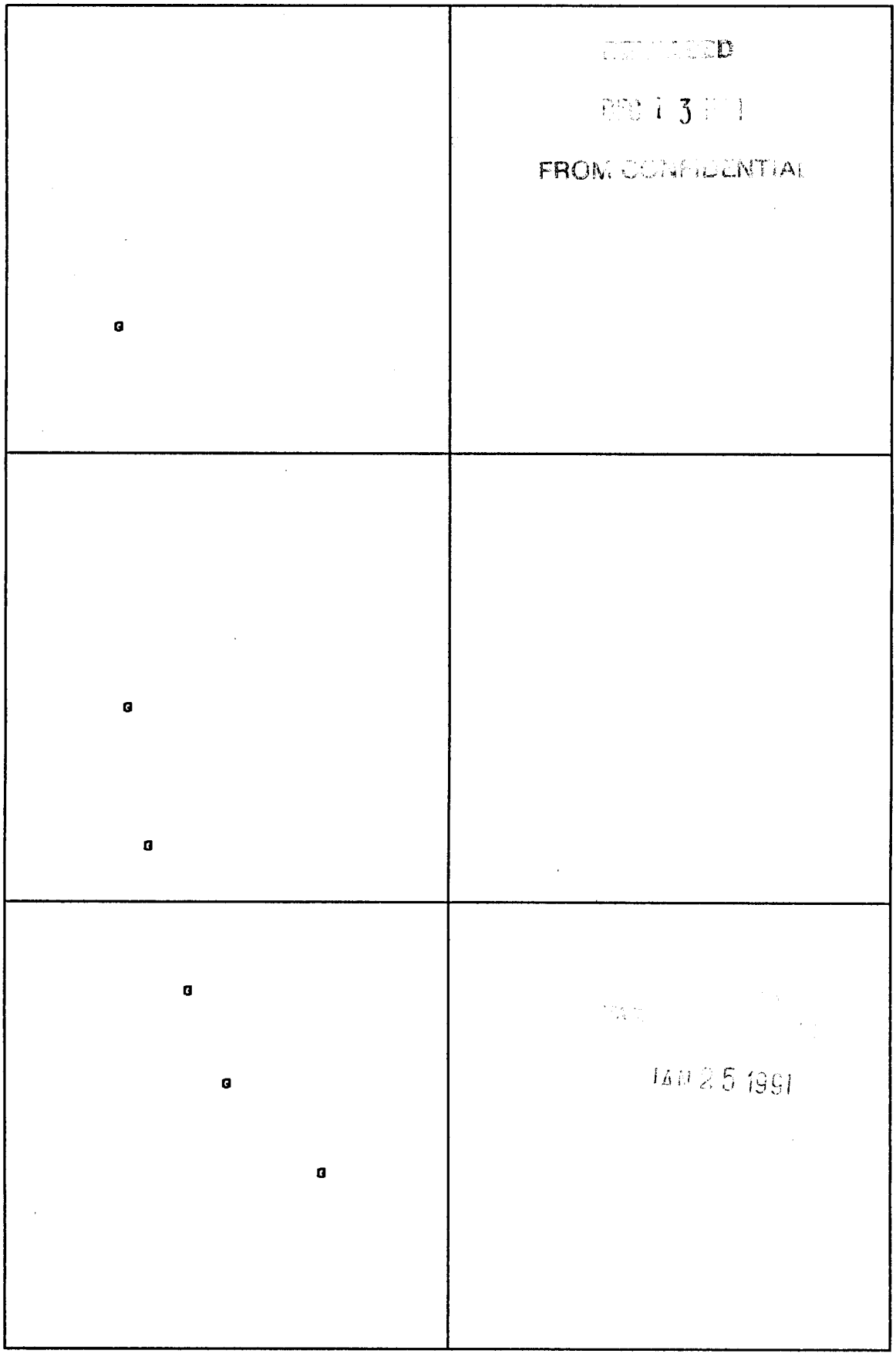
Lease Name MILLER | Well No. 1-34 | Test No. 2

Lease Owner ROBERTS & MURPHY | Date 10-3-89 | Ticket no. 816166

Gauge Sn. 005604

Log-Log PLOT

PERIOD # 1



DELTA M(p) MMpsi2/cp

HALLIBURTON SERVICES

JOB LOG

FORM 2013 R-2

WELL NO. 1-34Y LEASE [redacted] TICKET NO. 816166

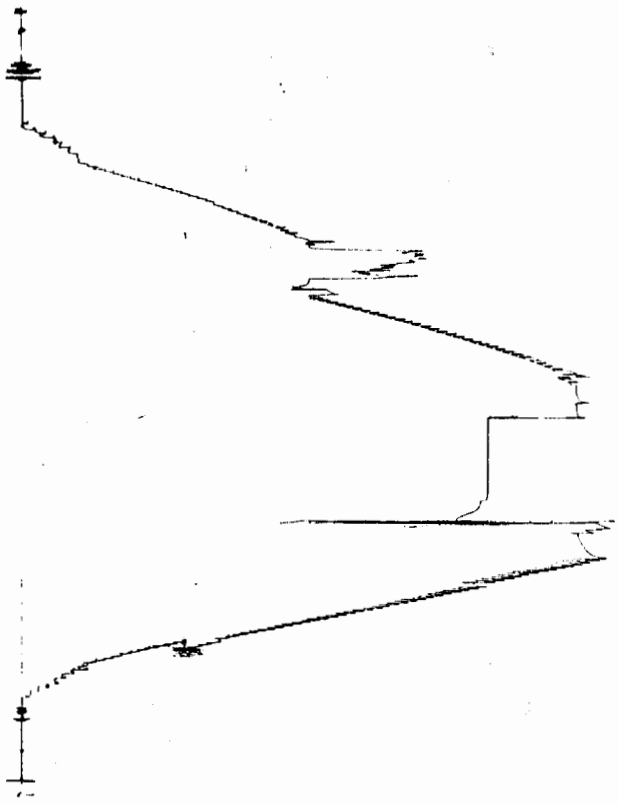
CUSTOMER ROBERT MURPHY INC PAGE NO. 1

JOB TYPE DST #2 TIGHT HOLE DATE 10-3-89

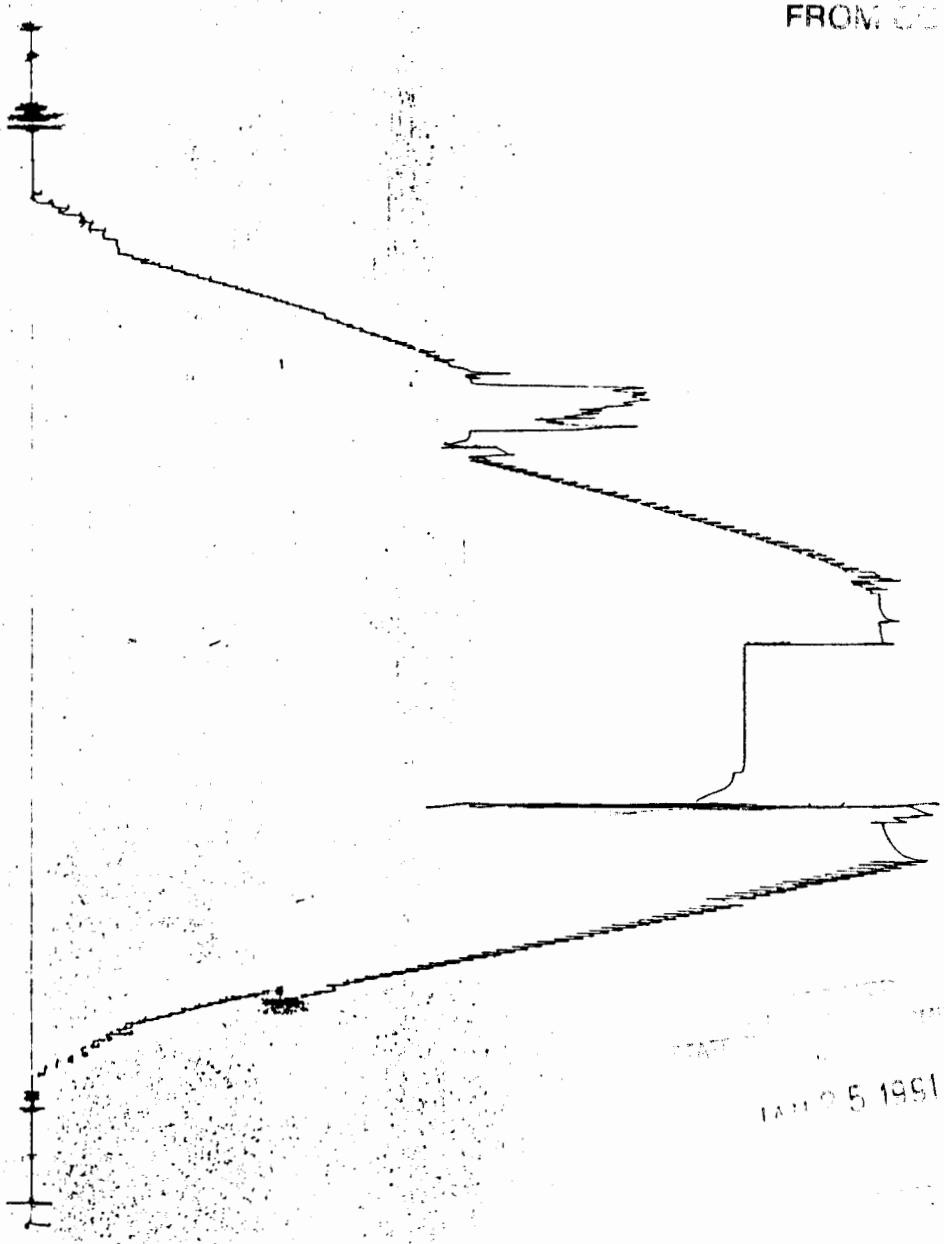
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0745							CALLED OUT
	1330							ON LOCATION PULLING PIPE
	1400							Pickup Tool
	1440							Tool IN TABLE
	1445							Tool Through TABLE
	1657							ON BOTTOM
	1700							Tool OPEN STRONG BLOW
	1701							OPEN 2 INCH LINE W/ 1/2 INCH CHOKE
	1702	CHOKE SIZE	PSI					GAS TO SURFACE
	1706					[redacted]		Oil + GAS TO SURFACE
	1710	1/2"	1650			10,426.6		
	1715	1/2"	1700			10,739.711		CLOSED TOOL
	1815							OFF BOTTOM
								REVERSED OUT
	2200							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

CONFIDENTIAL

JAN 25 1991



8116166 - 5605



HALLIBURTON SERVICES

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

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	AOF1	843016.318620	MCFD
INDICATED RATE MIN	AOF2	95148.054345	MCFD
THEO. RATE	DR*AOF1	843016.318620	MCFD
THEO. RATE	DR*AOF2	95148.054345	MCFD
RADIUS OF INVEST.	ri	246.105184	ft