

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/11/84 TICKET #4374
 CUSTOMER: C.E. KIMMELL LEASE: R.V. NELSON ET UX
 WELL: 1 TEST: 3 GEOLOGIST: LORENZ
 ELEVATION (KB): 0 FORMATION: MISSISSIPPI
 SECTION: 24 TOWNSHIP: 34S
 RANGE: 11W COUNTY: BARBER STATE: KANSAS
 GAUGE SN #13552 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4675 FT TO: 4700 FT TOTAL DEPTH: 4700 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4670 FT SIZE: 6 5/8 IN PACKER DEPTH: 4675 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: DUNNE - GARDNER
 MUD TYPE: CHEM/DRIS VISCOSITY: 42
 WEIGHT: 9.3 WATER LOSS (CC): 10.4
 CHLORIDES (P.P.M.): 11000
 JARS - MAKE: W.T.C. SERIAL NUMBER: 405
 DID WELL FLOW? YES REVERSED OUT? NO
 DRILL COLLAR LENGTH: FT I.D.: IN
 WEIGHT PIPE LENGTH: 378 FT I.D.: 2.7 IN
 DRILL PIPE LENGTH: 4278 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 O.D. IN
 ANCHOR LENGTH: 25 FT SIZE: 5 1/2 O.D. IN
 SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
 MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 X.H. IN

BLOW: STRONG BLOW THROUGHOUT TEST. GAS TO SURFACE
 IN 7 MINUTES ON SECOND FLOW. (22 min. total)

RECOVERED: 240 FT OF: GASSY OIL; GRAVITY 23
 RECOVERED: 240 FT OF: OIL & GAS CUT MUD; 15% OIL
 RECOVERED: 60 FT OF: HEAVY OIL & GAS CUT MUD; 60% OIL; 10% WATER
 RECOVERED: FT OF:
 RECOVERED: FT OF:
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 RECOVERED: FT OF:

REMARKS: TIGHT HOLE. READ BOTTOM CHART.

TIME SET PACKER(S): 7:50 P.M.
 WELL TEMPERATURE: 126 °F

INITIAL HYDROSTATIC PRESSURE: MIN: 10
 INITIAL FLOW PERIOD MIN: 60
 INITIAL CLOSED IN PERIOD MIN: 60
 FINAL FLOW PERIOD MIN: 60
 FINAL CLOSED IN PERIOD
 FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 11:10 P.M.

(A) 2294 PSI
 (B) 115 PSI TO (C) 115 PSI
 (D) 1851 PSI
 (E) 147 PSI TO (F) 207 PSI
 (G) 1751 PSI
 (H) 2261 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 5/11/84 TICKET #4374
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 ELEVATION (KB): 0 FORMATION: MISSISSIPPI
 SECTION: 24 TOWNSHIP: 34S
 RANGE: 11W COUNTY: BARBER STATE: KANSAS
 GAUGE SN #13552 RANGE: 4050 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2294 PSI
 (B) FIRST INITIAL FLOW PRESSURE: 115 PSI
 (C) FIRST FINAL FLOW PRESSURE: 115 PSI
 (D) INITIAL CLOSED-IN PRESSURE: 1851 PSI
 (E) SECOND INITIAL FLOW PRESSURE: 147 PSI
 (F) SECOND FINAL FLOW PRESSURE: 207 PSI
 (G) FINAL CLOSED-IN PRESSURE: 1751 PSI
 (H) FINAL HYDROSTATIC PRESSURE: 2261 PSI
 WELL TEMPERATURE: 126 °F
 OPEN TOOL: 7:50 P.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	15 MIN	10 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	115	0	115	0	147	0	207
2	5	115	3	313	5	147	3	374
3	10	115	6	1117	10	148	6	844
4			9	1516	15	153	9	1308
5			12	1634	20	160	12	1455
6			15	1688	25	167	15	1528
7			18	1721	30	175	18	1575
8			21	1748	35	183	21	1604
9			24	1765	40	189	24	1629
10			27	1780	45	196	27	1648
11			30	1792	50	201	30	1662
12			33	1803	55	205	33	1675
13			36	1812	60	207	36	1689
14			39	1821			39	1702
15			42	1828			42	1711
16			45	1833			45	1719
17			48	1838			48	1727
18			51	1843			51	1734
19			54	1847			54	1740
20			57	1849			57	1746
21			60	1851			60	1751
22								
23								
24								
25								
26								
27								
28								
29								
30								

DATE: 5/11/84
CUSTOMER: C.E. KIMMELL
WELL: 1
ELEVATION (KB): 0
SECTION: 24
RANGE: 11W
GAUGE SN #13552

TEST: 3

FORMATION: MISSISSIPPI

TOWNSHIP: 34S

COUNTY: BARBER

RANGE: 4050

TICKET #4374

LEASE: R.V. NELSON ET UX

GEOLOGIST: LORENZ

STATE: KANSAS

CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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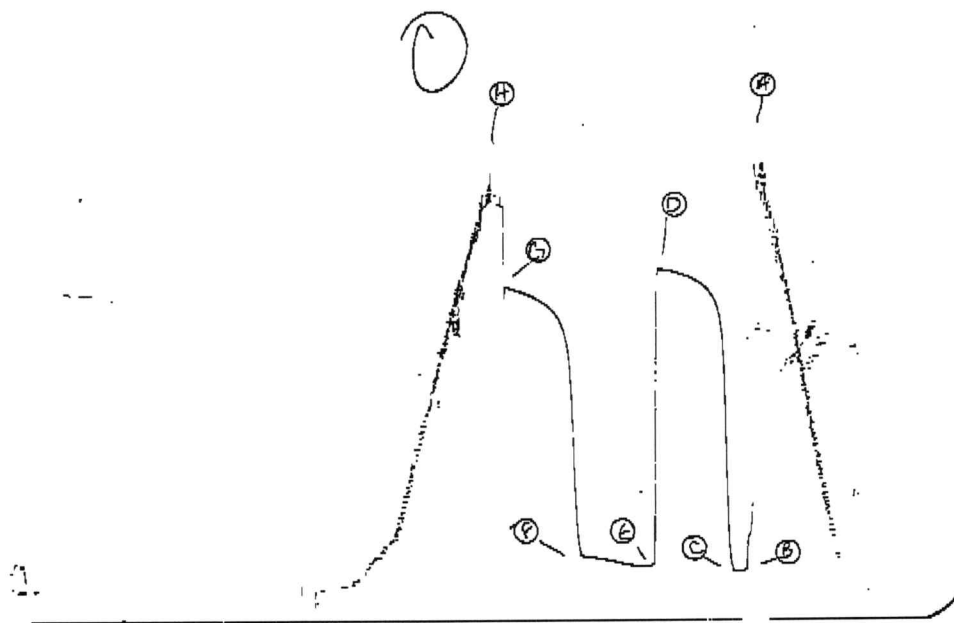
PRE FLOW

SECOND FLOW

10	MERLA	1/2	9 " WTR	18800 CFPD
20		"	10 " WTR	19900 " "
30		"	8 " WTR	17200 " "
40		"	6 " WTR	15400 " "
50		"	6 " WTR	15400 " "
60		"	6 " WTR	15400 " "

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED:

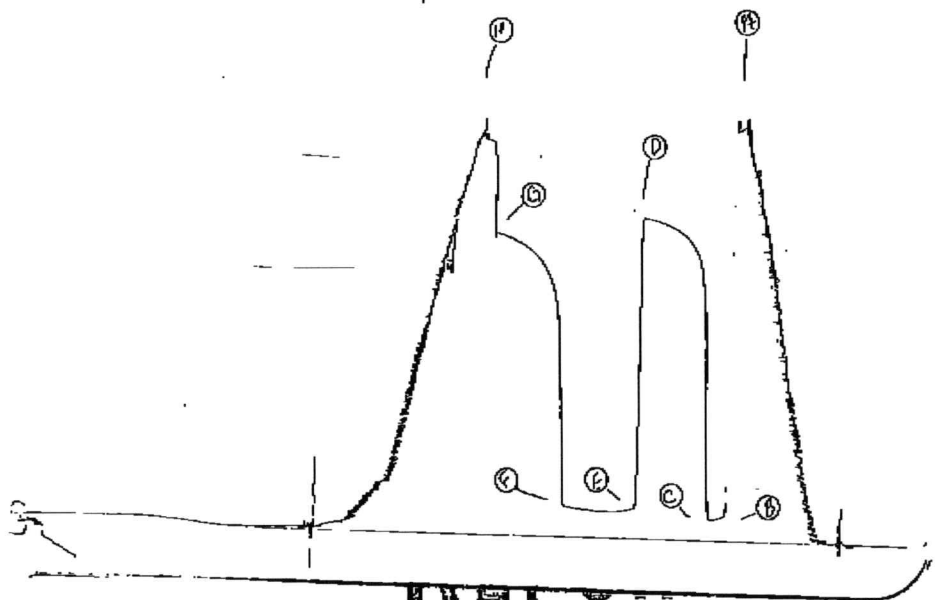
HE# 4374



Company C E KIMMELL Lease and Well No. #1 R V NELSON ETUX Sec. 24 Twp. 34S Rge

400# 4374

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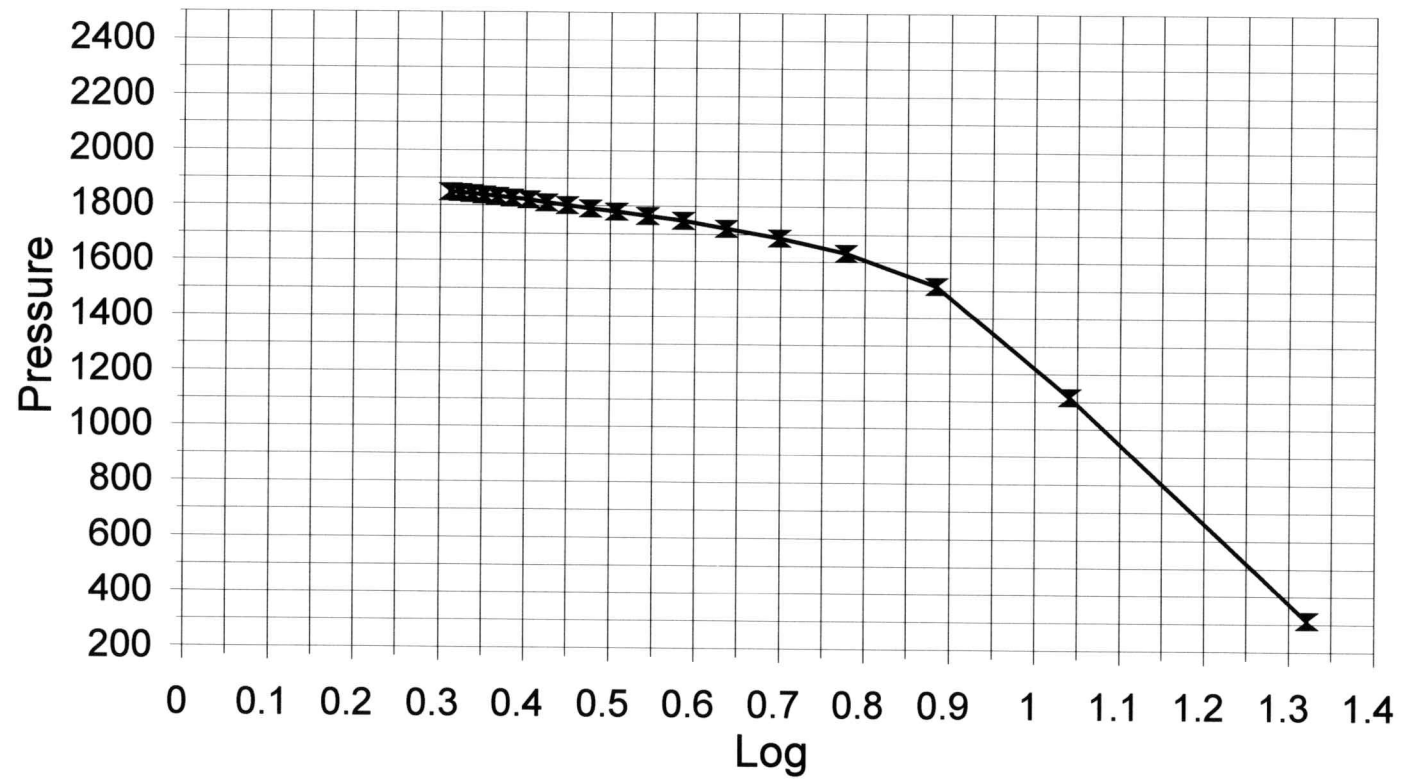
	Time	Pressure PSIg	Log Horn T	◇ Pressure	(T+dT)/dT
***Start Shutin 1	3	313.0	1.322	313.0	21.0
	6	1117.0	1.041	804.0	11.0
	9	1516.0	0.885	399.0	7.7
	12	1634.0	0.778	118.0	6.0
	15	1688.0	0.699	54.0	5.0
	18	1721.0	0.637	33.0	4.3
	21	1748.0	0.586	27.0	3.9
	24	1765.0	0.544	17.0	3.5
	27	1780.0	0.508	15.0	3.2
	30	1790.0	0.477	10.0	3.0
	33	1803.0	0.450	13.0	2.8
	36	1812.0	0.426	9.0	2.7
	39	1821.0	0.405	9.0	2.5
	42	1828.0	0.385	7.0	2.4
	45	1833.0	0.368	5.0	2.3
	48	1838.0	0.352	5.0	2.3
	51	1843.0	0.338	5.0	2.2
	54	1847.0	0.325	4.0	2.1
	57	1849.0	0.312	2.0	2.1
	60	1851.0	0.301	2.0	2.0

	Time	Pressure PSIg	Log Horn T	◇ Pressure	(T+dT)/dT

***Start Shutin 2	3	374.0	1.613	374.0	41.0
	6	844.0	1.322	470.0	21.0
	9	1308.0	1.156	464.0	14.3
	12	1455.0	1.041	147.0	11.0
	15	1528.0	0.954	73.0	9.0
	18	1575.0	0.885	47.0	7.7
	21	1604.0	0.827	29.0	6.7
	24	1629.0	0.778	25.0	6.0
	27	1648.0	0.736	19.0	5.4
	30	1662.0	0.699	14.0	5.0
	33	1675.0	0.666	13.0	4.6
	36	1689.0	0.637	14.0	4.3
	39	1702.0	0.610	13.0	4.1
	42	1711.0	0.586	9.0	3.9
	45	1719.0	0.564	8.0	3.7
	48	1727.0	0.544	8.0	3.5
	51	1734.0	0.525	7.0	3.4
	54	1740.0	0.508	6.0	3.2
	57	1746.0	0.492	6.0	3.1
	60	1751.0	0.477	5.0	3.0

Horner Plot: Shut-in #1

$P \cdot 1959.70$ Slope 361.105



Horner Plot: Shut-in #2

$P^*1944.37$ Slope 405.275

