

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 3-28-94	TICKET	: 20451
CUSTOMER	: OXY U.S.A. INC.	LEASE	: HARBAUGH B
WELL	: #1	TEST: 1	GEOLOGIST: KEN LABLANC
ELEVATION	: 1715 G.L.	FORMATION	: MISSISSIPPI
SECTION	: 22	TOWNSHIP	: 33S
RANGE	: 14W	COUNTY: BARBER	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4606.00 ft	TO:	4730.00 ft	TVD:	4730.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	4722.0 ft		4725.0 ft		
TEMPERATURE:	125.0				
DRILL COLLAR LENGTH:	180.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4399.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	124.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5XH	
PACKER DEPTH:	4601.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4606.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	ALLEN DRLG. #2	VISCOSITY :	50.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.800 cc
WEIGHT :	9.000 ppg		
CHLORIDES :	4500 ppm	SERIAL NUMBER:	422
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

WEAK BUILDING TO A FAIR BLOW 1/2" TO 6" BLOW ON
INITIAL FLOW PERIOD. STRONG BLOW THROUGHOUT FINAL
FLOW PERIOD.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
45.0	0.0	0.0	0.0	100.0	MUD
0.0	0.0	0.0	0.0	0.0	2245' GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.2116	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.2116	STB		
			TOTAL FLOW TIME:	90.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2306.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	83.00	83.00
INITIAL SHUT-IN	60.00		281.00
FINAL FLOW	60.00	83.00	83.00
FINAL SHUT-IN	120.00		364.00

FINAL HYDROSTATIC PRESSURE: 2275.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2368.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	99.00	99.00
INITIAL SHUT-IN	60.00		287.00
FINAL FLOW	60.00	103.00	103.00
FINAL SHUT-IN	126.00		367.00

FINAL HYDROSTATIC PRESSURE: 2294.00

PRESSURE TRANSIENT REPORT

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WELL : #1	GEOLOGIST: KEN LABLANC
ELEVATION: 1715 G.L.	FORMATION: MISSISSIPPI
SECTION : 22	TOWNSHIP : 33S
RANGE : 14W	STATE : KS
Gauge SN#: 10270	CLOCK : 12
COUNTY: BARBER	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	99.00	99.00
5.00	99.00	0.00
10.00	99.00	0.00
15.00	99.00	0.00
20.00	99.00	0.00
25.00	99.00	0.00
30.00	99.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	105.00	105.00	31.00
6.00	112.00	7.00	16.00
9.00	124.00	12.00	11.00
12.00	134.00	10.00	8.50
15.00	146.00	12.00	7.00
18.00	159.00	13.00	6.00
21.00	168.00	9.00	5.29
24.00	181.00	13.00	4.75
27.00	190.00	9.00	4.33
30.00	202.00	12.00	4.00
33.00	209.00	7.00	3.73
36.00	220.00	11.00	3.50
39.00	231.00	11.00	3.31
42.00	240.00	9.00	3.14
45.00	249.00	9.00	3.00
48.00	258.00	9.00	2.88
51.00	265.00	7.00	2.76
54.00	271.00	6.00	2.67
57.00	279.00	8.00	2.58

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	287.00	8.00	2.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	103.00	103.00
5.00	103.00	0.00
10.00	103.00	0.00
15.00	103.00	0.00
20.00	103.00	0.00
25.00	103.00	0.00
30.00	103.00	0.00
35.00	103.00	0.00
40.00	103.00	0.00
45.00	103.00	0.00
50.00	103.00	0.00
55.00	103.00	0.00
60.00	103.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	103.00	103.00	0.00
6.00	108.00	5.00	0.00
9.00	114.00	6.00	0.00
12.00	120.00	6.00	0.00
15.00	125.00	5.00	0.00
18.00	134.00	9.00	0.00
21.00	144.00	10.00	0.00
24.00	151.00	7.00	0.00
27.00	158.00	7.00	0.00
30.00	168.00	10.00	0.00
33.00	175.00	7.00	0.00
36.00	181.00	6.00	0.00
39.00	188.00	7.00	0.00
42.00	196.00	8.00	0.00
45.00	204.00	8.00	0.00
48.00	212.00	8.00	0.00

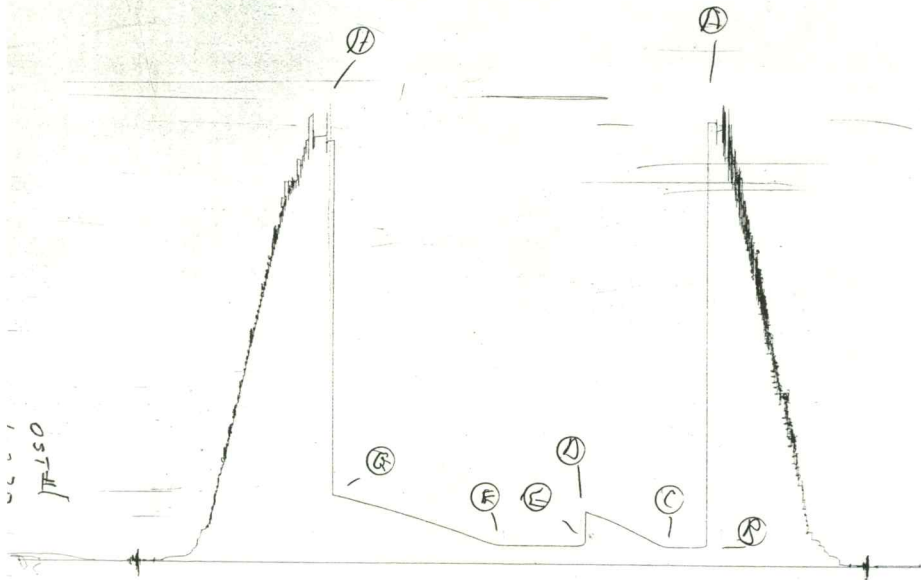
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
51.00	219.00	7.00	0.00
54.00	227.00	8.00	0.00
57.00	231.00	4.00	0.00
60.00	238.00	7.00	0.00
63.00	245.00	7.00	0.00
66.00	251.00	6.00	0.00
69.00	258.00	7.00	0.00
72.00	265.00	7.00	0.00
75.00	271.00	6.00	0.00
78.00	277.00	6.00	0.00
81.00	282.00	5.00	0.00
84.00	291.00	9.00	0.00
87.00	296.00	5.00	0.00
90.00	303.00	7.00	0.00
93.00	308.00	5.00	0.00
96.00	313.00	5.00	0.00
99.00	318.00	5.00	0.00
102.00	324.00	6.00	0.00
105.00	329.00	5.00	0.00
108.00	335.00	6.00	0.00
111.00	341.00	6.00	0.00
114.00	348.00	7.00	0.00
117.00	353.00	5.00	0.00
120.00	358.00	5.00	0.00
123.00	362.00	4.00	0.00
126.00	367.00	5.00	0.00

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