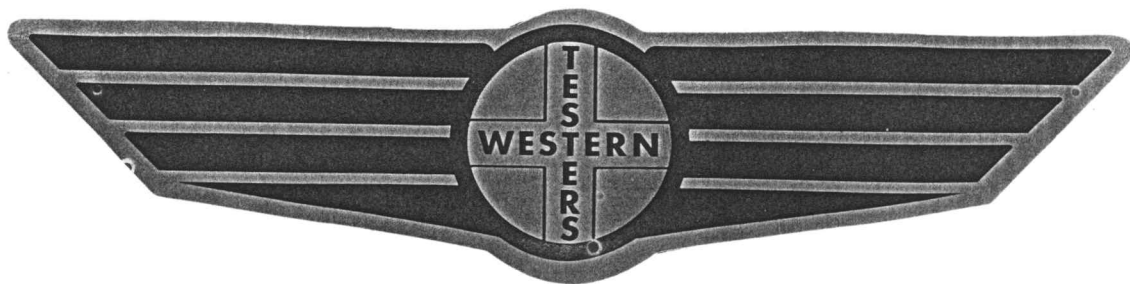


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 9-30-94	TICKET	: 20960
CUSTOMER	: LANDMARK OIL EXPLORATION	LEASE	: FINCHAM
WELL	: #1-30	TEST: 1	GEOLOGIST: CAULK
ELEVATION	: 2836 GL	FORMATION	: KANSAS CITY
SECTION	: 30	TOWNSHIP	: 30S
RANGE	: 31W	COUNTY: HASKELL	STATE : KS
GAUGE SN#	: 4339	RANGE : 4300	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4622.00 ft	TO:	4670.00 ft	TVD:	4670.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4620.0 ft		4670.0 ft		
TEMPERATURE:	118.0				
DRILL COLLAR LENGTH:	536.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4058.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	48.0 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:	4617.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	4622.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	MURFIN #25	VISCOSITY :	50.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.000 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	3000 ppm	SERIAL NUMBER:	405
JARS-MAKE :	WESTERN	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

GAS TO SURFACE IN 25 MINUTES. SEE ATTACHED SHEET.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
990.0	90.0	10.0	0.0	0.0	GASSY CLEAN OIL
180.0	40.0	50.0	0.0	10.0	GASSY MUDDY OIL
450.0	35.0	30.0	5.0	30.0	GASSY HEAVY OIL CUT MUD
180.0	5.0	5.0	20.0	70.0	OIL & GAS CUT MUDDY WATER

RATE INFORMATION

OIL VOLUME:	14.6258 STB	
GAS VOLUME:	20.3037 SCF	
MUD VOLUME:	1.7928 STB	
WATER VOLUME:	0.3305 STB	
TOTAL FLUID :	16.7491 STB	
		TOTAL FLOW TIME: 90.0000 min.
		AVERAGE OIL RATE: 252.9257 STB/D
		AVERAGE WATER RATE: 15.0601 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2243.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	270.00	291.00
INITIAL SHUT-IN	60.00		1409.00
FINAL FLOW	60.00	411.00	465.00
FINAL SHUT-IN	90.00		1431.00

FINAL HYDROSTATIC PRESSURE: 2177.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2266.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	246.00	265.00
INITIAL SHUT-IN	60.00		1391.00
FINAL FLOW	60.00	398.00	500.00
FINAL SHUT-IN	99.00		1401.00

FINAL HYDROSTATIC PRESSURE: 2171.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 9-30-94	TICKET : 20960
CUSTOMER : LANDMARK OIL EXPLORATION	LEASE : FINCHAM
WELL : #1-30 TEST: 1	GEOLOGIST: CAULK
ELEVATION: 2836 GL	FORMATION: KANSAS CITY
SECTION : 30	TOWNSHIP : 30S
RANGE : 31W COUNTY: HASKELL	STATE : KS
GAUGE SN#: 4339 RANGE : 4300	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
30 MIN	MERLA	0.250	12" WATER	5860 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.250	15" WATER	6550 SCF/D
20 MIN	MERLA	0.250	22" WATER	7880 SCF/D
30 MIN	MERLA	0.250	30" WATER	9200 SCF/D
40 MIN	MERLA	0.250	14" WATER	6330 SCF/D
50 MIN	MERLA	0.250	16" WATER	6720 SCF/D
60 MIN	MERLA	0.250	19" WATER	7320 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9-30-94	TICKET	: 20960
CUSTOMER	: LANDMARK OIL EXPLORATION	LEASE	: FINCHAM
WELL	: #1-30	TEST: 1	GEOLOGIST: CAULK
ELEVATION:	2836 GL	FORMATION:	KANSAS CITY
SECTION	: 30	TOWNSHIP	: 30S
RANGE	: 31W	COUNTY:	HASKELL
GAUGE SN#:	4339	RANGE	: 4300
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	246.00	246.00
5.00	246.00	0.00
10.00	246.00	0.00
15.00	248.00	2.00
20.00	250.00	2.00
25.00	256.00	6.00
30.00	265.00	9.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	434.00	434.00	0.00
6.00	891.00	457.00	0.00
9.00	1105.00	214.00	0.00
12.00	1171.00	66.00	0.00
15.00	1212.00	41.00	0.00
18.00	1240.00	28.00	0.00
21.00	1261.00	21.00	0.00
24.00	1279.00	18.00	0.00
27.00	1293.00	14.00	0.00
30.00	1306.00	13.00	0.00
33.00	1322.00	16.00	0.00
36.00	1337.00	15.00	0.00
39.00	1347.00	10.00	0.00
42.00	1367.00	20.00	0.00
45.00	1374.00	7.00	0.00
48.00	1378.00	4.00	0.00
51.00	1382.00	4.00	0.00
54.00	1386.00	4.00	0.00
57.00	1389.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	1391.00	2.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	398.00	398.00
5.00	398.00	0.00
10.00	398.00	0.00
15.00	398.00	0.00
20.00	400.00	2.00
25.00	409.00	9.00
30.00	430.00	21.00
35.00	445.00	15.00
40.00	453.00	8.00
45.00	465.00	12.00
50.00	477.00	12.00
55.00	490.00	13.00
60.00	500.00	10.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	849.00	849.00	0.00
6.00	1073.00	224.00	0.00
9.00	1152.00	79.00	0.00
12.00	1197.00	45.00	0.00
15.00	1235.00	38.00	0.00
18.00	1261.00	26.00	0.00
21.00	1279.00	18.00	0.00
24.00	1292.00	13.00	0.00
27.00	1299.00	7.00	0.00
30.00	1314.00	15.00	0.00
33.00	1322.00	8.00	0.00
36.00	1330.00	8.00	0.00
39.00	1337.00	7.00	0.00
42.00	1342.00	5.00	0.00
45.00	1349.00	7.00	0.00
48.00	1355.00	6.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	1360.00	5.00	0.00
54.00	1364.00	4.00	0.00
57.00	1369.00	5.00	0.00
60.00	1375.00	6.00	0.00
63.00	1377.00	2.00	0.00
66.00	1379.00	2.00	0.00
69.00	1380.00	1.00	0.00
72.00	1382.00	2.00	0.00
75.00	1384.00	2.00	0.00
78.00	1386.00	2.00	0.00
81.00	1388.00	2.00	0.00
84.00	1390.00	2.00	0.00
87.00	1393.00	3.00	0.00
90.00	1395.00	2.00	0.00
93.00	1397.00	2.00	0.00
96.00	1399.00	2.00	0.00
99.00	1401.00	2.00	0.00

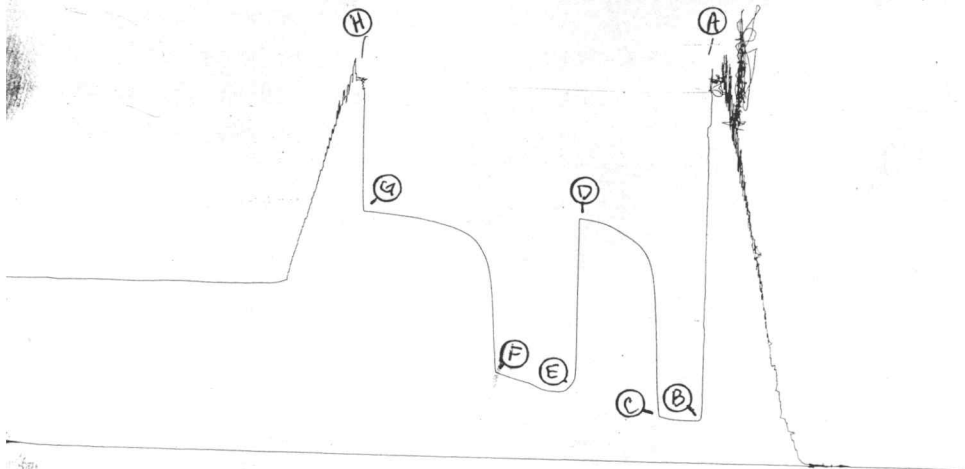
Kit# 20960

4339

20960



I



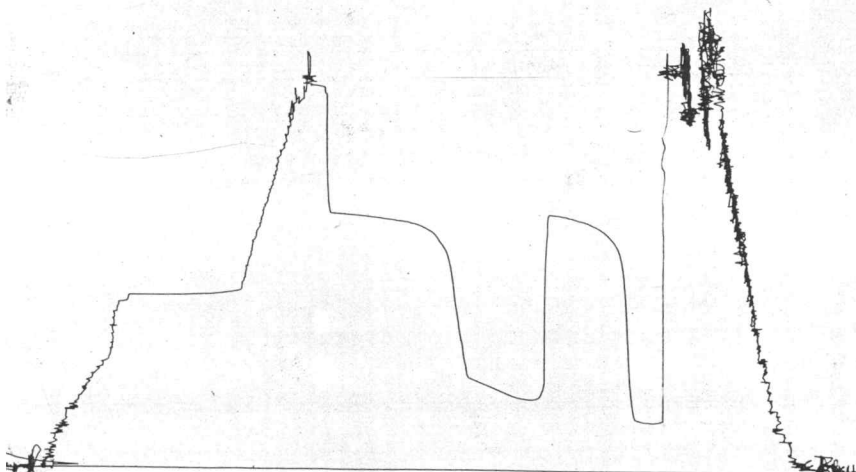
JKt # 20960

1560

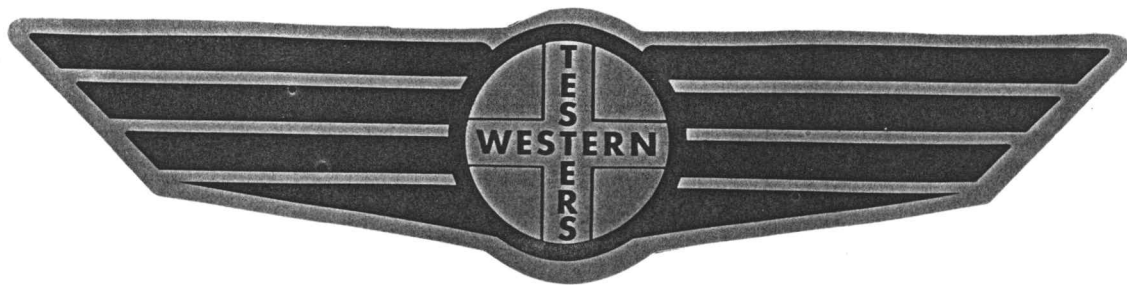
0

20960

~~10~~



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 10-3-94	TICKET	: 20825
CUSTOMER	: LANDMARK OIL EXPLORATION	LEASE	: FINCHAM
WELL	: #1-30	TEST: 2	GEOLOGIST: CAULK
ELEVATION	: 2856 GL	FORMATION	: MORROW
SECTION	: 30	TOWNSHIP	: 30S
RANGE	: 31W	COUNTY: HASKELL	STATE : KS
GAUGE SN#	: 2605	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5264.00 ft	TO:	5335.00 ft	TVD:	5335.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5274.0 ft	5277.0 ft			
TEMPERATURE:	139.0				
DRILL COLLAR LENGTH:	540.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4697.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	71.0 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:	5259.0 ft	SIZE:	6.625 in		
PACKER DEPTH:	5264.0 ft	SIZE:	6.625 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	MURFIN #25	VISCOSITY :	43.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.000 ppg		
CHLORIDES :	3000 ppm	SERIAL NUMBER:	408
JARS-MAKE :	WESTERN	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW- 1 INCH IN BUCKET.
FINAL FLOW: WEAK BLOW DECREASING TO SURFACE BLOW.
31 FT DRILL PIPE IN ANCHOR

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
210.0	0.0	0.0	0.0	100.0	DRILLING MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 3200 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.9873	STB	TOTAL FLOW TIME:	90.0000 min.
WATER VOLUME:	0.0000	STB	AVERAGE OIL RATE:	0.0000 STB/D
TOTAL FLUID :	0.9873	STB	AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2508.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	95.00	95.00
INITIAL SHUT-IN	60.00		211.00
FINAL FLOW	60.00	148.00	148.00
FINAL SHUT-IN	90.00		285.00

FINAL HYDROSTATIC PRESSURE: 2403.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2512.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	95.00	95.00
INITIAL SHUT-IN	66.00		218.00
FINAL FLOW	60.00	157.00	157.00
FINAL SHUT-IN	93.00		289.00

FINAL HYDROSTATIC PRESSURE: 2356.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10-3-94	TICKET : 20825
CUSTOMER : LANDMARK OIL EXPLORATION	LEASE : FINCHAM
WELL : #1-30	GEOLOGIST: CAULK
ELEVATION: 2856 GL	FORMATION: MORROW
SECTION : 30	TOWNSHIP : 30S
RANGE : 31W	STATE : KS
GAUGE SN#: 2605	CLOCK : 12
COUNTY: HASKELL	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	95.00	95.00
5.00	95.00	0.00
10.00	95.00	0.00
15.00	95.00	0.00
20.00	95.00	0.00
25.00	95.00	0.00
30.00	95.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	95.00	95.00	0.00
6.00	95.00	0.00	0.00
9.00	95.00	0.00	0.00
12.00	99.00	4.00	0.00
15.00	106.00	7.00	0.00
18.00	115.00	9.00	0.00
21.00	121.00	6.00	0.00
24.00	129.00	8.00	0.00
27.00	133.00	4.00	0.00
30.00	140.00	7.00	0.00
33.00	145.00	5.00	0.00
36.00	151.00	6.00	0.00
39.00	159.00	8.00	0.00
42.00	160.00	1.00	0.00
45.00	172.00	12.00	0.00
48.00	179.00	7.00	0.00
51.00	185.00	6.00	0.00
54.00	190.00	5.00	0.00
57.00	199.00	9.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	206.00	7.00	0.00
63.00	213.00	7.00	0.00
66.00	218.00	5.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	157.00	157.00
5.00	157.00	0.00
10.00	157.00	0.00
15.00	157.00	0.00
20.00	157.00	0.00
25.00	157.00	0.00
30.00	157.00	0.00
35.00	157.00	0.00
40.00	157.00	0.00
45.00	157.00	0.00
50.00	157.00	0.00
55.00	157.00	0.00
60.00	157.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	164.00	164.00	0.00
6.00	170.00	6.00	0.00
9.00	176.00	6.00	0.00
12.00	181.00	5.00	0.00
15.00	187.00	6.00	0.00
18.00	193.00	6.00	0.00
21.00	196.00	3.00	0.00
24.00	201.00	5.00	0.00
27.00	203.00	2.00	0.00
30.00	206.00	3.00	0.00
33.00	210.00	4.00	0.00
36.00	216.00	6.00	0.00
39.00	222.00	6.00	0.00
42.00	229.00	7.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

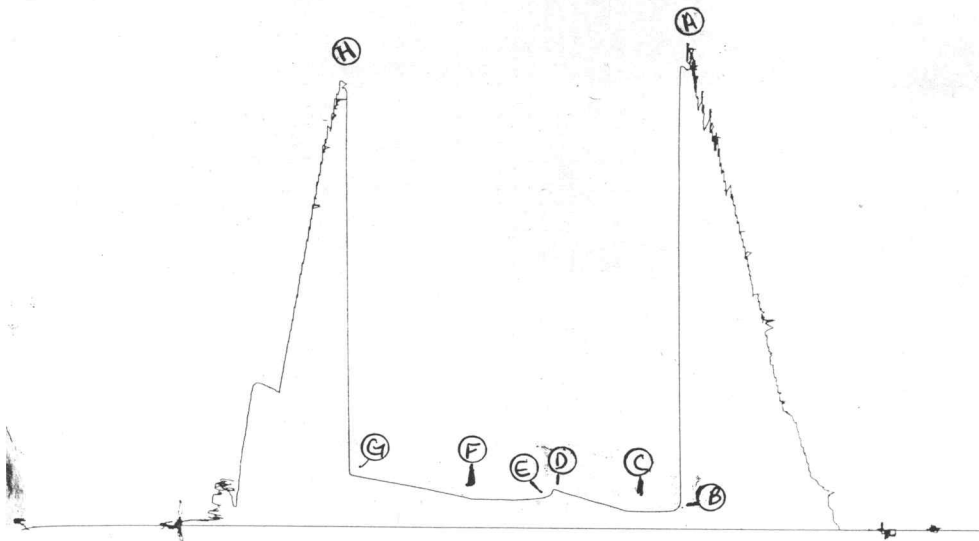
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
45.00	235.00	6.00	0.00
48.00	239.00	4.00	0.00
51.00	242.00	3.00	0.00
54.00	246.00	4.00	0.00
57.00	249.00	3.00	0.00
60.00	253.00	4.00	0.00
63.00	258.00	5.00	0.00
66.00	263.00	5.00	0.00
69.00	265.00	2.00	0.00
72.00	267.00	2.00	0.00
75.00	270.00	3.00	0.00
78.00	273.00	3.00	0.00
81.00	278.00	5.00	0.00
84.00	281.00	3.00	0.00
87.00	284.00	3.00	0.00
90.00	287.00	3.00	0.00
93.00	289.00	2.00	0.00

K600
DST #2
TOP

JKT # 20825

I

12



304
DST #2
Bottom

JKT # 20825
0

12

