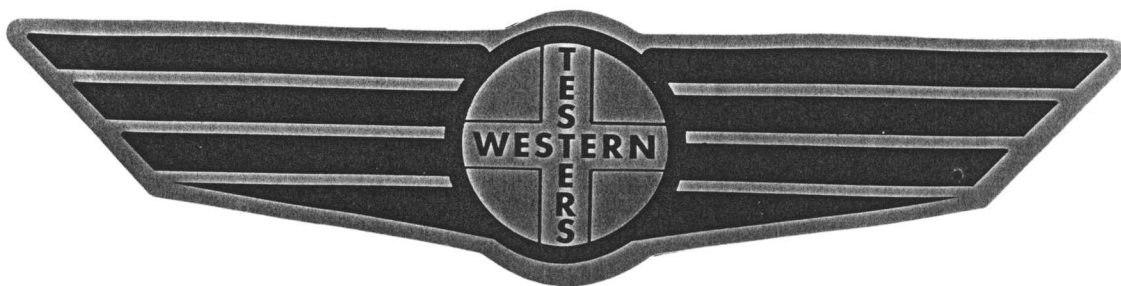


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 5/23/94
CUSTOMER : LANDMARK OIL EXPLORATION
WELL : #1-14
ELEVATION: 2749 GL
SECTION : 14
RANGE : 31W
GAUGE SN#: 4339
TEST: 1
COUNTY: SEWARD
RANGE : 4300
TICKET : 20572
LEASE : HEADRICK
GEOLOGIST: CAULK
FORMATION: UPPER MORROW
TOWNSHIP : 33S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5544.00 ft TO: 5620.00 ft TVD: 5620.0 ft
DEPTH OF SELECTIVE ZONE:
DEPTH OF RECORDERS: 5547.0 ft 5620.0 ft TEST TYPE: OIL
TEMPERATURE: 127.0
DRILL COLLAR LENGTH: 556.0 ft I.D.: 2.250 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 4960.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 28.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 76.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.785 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 5539.0 ft SIZE: 6.630 in
PACKER DEPTH: 5544.0 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. : MURFIN RIG 2
MUD TYPE : CHEMICAL
WEIGHT : 8.900 ppg
CHLORIDES : 2000 ppm
JARS-MAKE : WTC
DID WELL FLOW?: NO
VISCOSITY : 48.00 cp
WATER LOSS: 10.000 cc
SERIAL NUMBER: 321
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD 1 INCH BLOW SLOWLY BUILDING TO
5 INCHES. FINAL FLOW 6 INCH STEADY BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	0.0	0.0	0.0	100.0	DRILLING MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 4000 PPM

RATE INFORMATION

OIL VOLUME: 0.0000 STB
 GAS VOLUME: 0.0000 SCF
 MUD VOLUME: 0.2950 STB
 WATER VOLUME: 0.0000 STB
 TOTAL FLUID : 0.2950 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: 2701.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	90.00	56.00
INITIAL SHUT-IN	60.00		113.00
FINAL FLOW	60.00	90.00	45.00
FINAL SHUT-IN	120.00		193.00

FINAL HYDROSTATIC PRESSURE: 2755.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2733.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	93.00	67.00
INITIAL SHUT-IN	60.00		118.00
FINAL FLOW	60.00	79.00	49.00
FINAL SHUT-IN	120.00		201.00

FINAL HYDROSTATIC PRESSURE: 2718.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5/23/94	TICKET : 20572
CUSTOMER : LANDMARK OIL EXPLORATION	LEASE : HEADRICK
WELL : #1-14	GEOLOGIST: CAULK
ELEVATION: 2749 GL	FORMATION: UPPER MORROW
SECTION : 14	TOWNSHIP : 33S
RANGE : 31W	STATE : KS
GAUGE SN#: 4339	CLOCK : 12
COUNTY: SEWARD	
RANGE : 4300	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	93.00	93.00
5.00	93.00	0.00
10.00	85.00	-8.00
15.00	80.00	-5.00
20.00	75.00	-5.00
25.00	70.00	-5.00
30.00	67.00	-3.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	67.00	67.00	0.00
6.00	67.00	0.00	0.00
9.00	67.00	0.00	0.00
12.00	67.00	0.00	0.00
15.00	67.00	0.00	0.00
18.00	67.00	0.00	0.00
21.00	68.00	1.00	0.00
24.00	70.00	2.00	0.00
27.00	73.00	3.00	0.00
30.00	76.00	3.00	0.00
33.00	79.00	3.00	0.00
36.00	82.00	3.00	0.00
39.00	86.00	4.00	0.00
42.00	90.00	4.00	0.00
45.00	94.00	4.00	0.00
48.00	99.00	5.00	0.00
51.00	104.00	5.00	0.00
54.00	109.00	5.00	0.00
57.00	113.00	4.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	118.00	5.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	79.00	79.00
5.00	79.00	0.00
10.00	79.00	0.00
15.00	74.00	-5.00
20.00	70.00	-4.00
25.00	67.00	-3.00
30.00	65.00	-2.00
35.00	62.00	-3.00
40.00	59.00	-3.00
45.00	56.00	-3.00
50.00	53.00	-3.00
55.00	51.00	-2.00
60.00	49.00	-2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	49.00	49.00	0.00
6.00	49.00	0.00	0.00
9.00	49.00	0.00	0.00
12.00	50.00	1.00	0.00
15.00	55.00	5.00	0.00
18.00	58.00	3.00	0.00
21.00	61.00	3.00	0.00
24.00	66.00	5.00	0.00
27.00	72.00	6.00	0.00
30.00	77.00	5.00	0.00
33.00	83.00	6.00	0.00
36.00	89.00	6.00	0.00
39.00	95.00	6.00	0.00
42.00	102.00	7.00	0.00
45.00	107.00	5.00	0.00
48.00	109.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

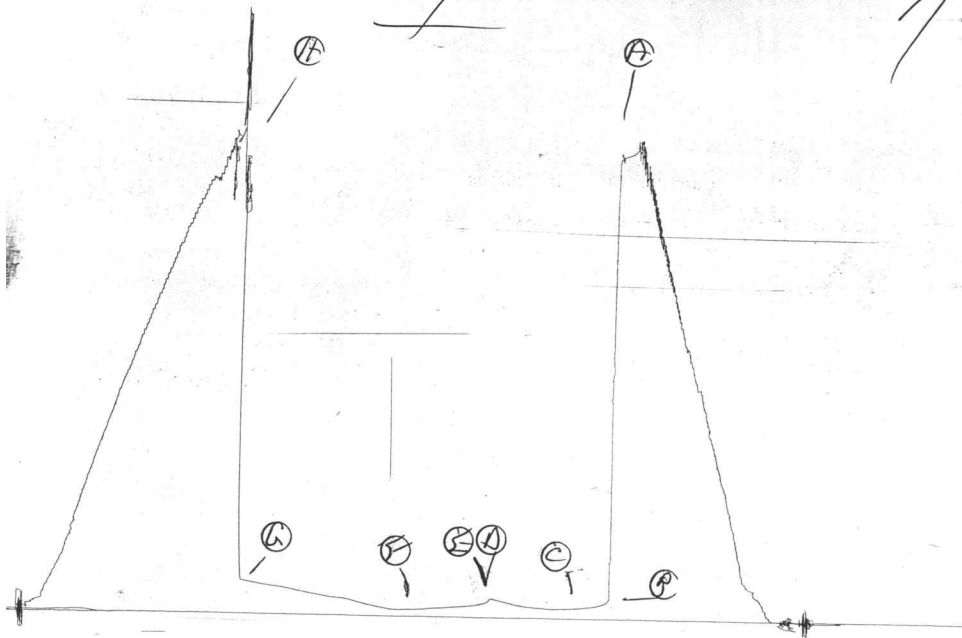
Time (min)	Pressure	Delta P	Horner T
51.00	111.00	2.00	0.00
54.00	114.00	3.00	0.00
57.00	117.00	3.00	0.00
60.00	119.00	2.00	0.00
63.00	125.00	6.00	0.00
66.00	130.00	5.00	0.00
69.00	133.00	3.00	0.00
72.00	136.00	3.00	0.00
75.00	141.00	5.00	0.00
78.00	146.00	5.00	0.00
81.00	151.00	5.00	0.00
84.00	156.00	5.00	0.00
87.00	161.00	5.00	0.00
90.00	166.00	5.00	0.00
93.00	170.00	4.00	0.00
96.00	174.00	4.00	0.00
99.00	178.00	4.00	0.00
102.00	181.00	3.00	0.00
105.00	183.00	2.00	0.00
108.00	185.00	2.00	0.00
111.00	187.00	2.00	0.00
114.00	189.00	2.00	0.00
117.00	200.00	11.00	0.00
120.00	201.00	1.00	0.00

JKT 20572

4339 D.57
20572 #7

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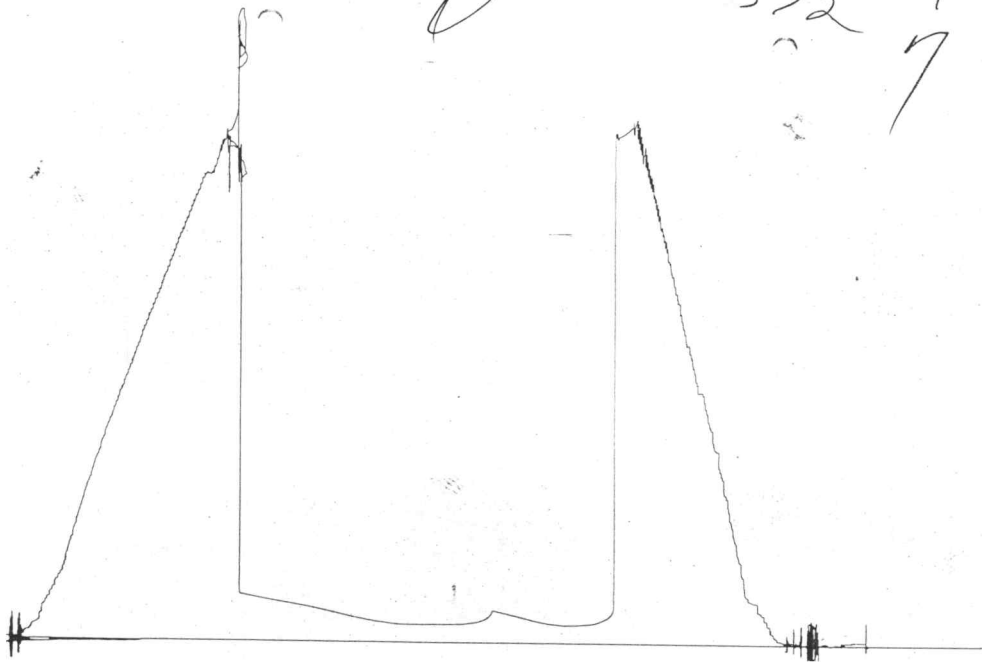
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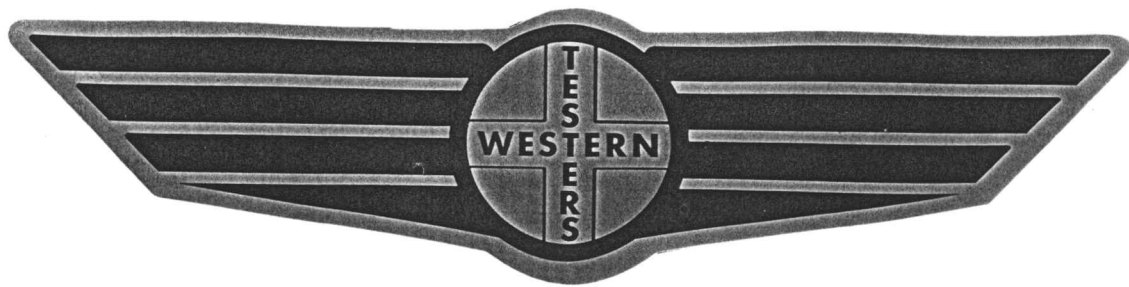
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20572 #1

7



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 5/24/94	TICKET	: 20573
CUSTOMER	: LANDMARK OIL EXPLORATION	LEASE	: HEADRICK
WELL	: #1-14	TEST: 2	GEOLOGIST: CAULK
ELEVATION	: 2749 GL	FORMATION	: LOWER MORROW
SECTION	: 14	TOWNSHIP	: 33S
RANGE	: 31W	COUNTY: SEWARD	STATE : KS
GAUGE SN#	: 4339	RANGE : 4300	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5542.00 ft	TO:	5631.00 ft	TVD:	5631.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5545.0 ft		5631.0 ft		
TEMPERATURE:	125.0				
DRILL COLLAR LENGTH:	556.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4958.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	89.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.785 in	TOOL JOINT SIZE :		4.5XH	
PACKER DEPTH:	5537.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	5542.0 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. :	MURFIN RIG 2	VISCOSITY :	48.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.200 cc
WEIGHT :	9.000 ppg		
CHLORIDES :	2000 ppm	SERIAL NUMBER:	321
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD 1 INCH BLOW SLOWLY BUILDING TO
10 INCHES. FINAL FLOW PERIOD OFF BOTTOM OF BUCKET
IN 2 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
65.0	0.0	0.0	0.0	100.0	DRILLING MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 3000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.3196	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.3196	STB		
			TOTAL FLOW TIME:	120.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2733.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	113.00	90.00
INITIAL SHUT-IN	60.00		181.00
FINAL FLOW	90.00	102.00	90.00
FINAL SHUT-IN	120.00		295.00

FINAL HYDROSTATIC PRESSURE: 2679.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2744.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	104.00	86.00
INITIAL SHUT-IN	60.00		191.00
FINAL FLOW	90.00	105.00	85.00
FINAL SHUT-IN	117.00		293.00

FINAL HYDROSTATIC PRESSURE: 2664.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 5/24/94	TICKET	: 20573
CUSTOMER	: LANDMARK OIL EXPLORATION	LEASE	: HEADRICK
WELL	: #1-14	TEST:	2
ELEVATION:	2749 GL	GEOLOGIST:	CAULK
SECTION	: 14	FORMATION:	LOWER MORROW
RANGE	: 31W	TOWNSHIP	: 33S
GAUGE SN#:	4339	STATE	: KS
	COUNTY: SEWARD	CLOCK	: 12
	RANGE : 4300		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	104.00	104.00
5.00	104.00	0.00
10.00	94.00	-10.00
15.00	90.00	-4.00
20.00	88.00	-2.00
25.00	86.00	-2.00
30.00	86.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	86.00	86.00	0.00
6.00	89.00	3.00	0.00
9.00	91.00	2.00	0.00
12.00	93.00	2.00	0.00
15.00	98.00	5.00	0.00
18.00	102.00	4.00	0.00
21.00	109.00	7.00	0.00
24.00	116.00	7.00	0.00
27.00	116.00	0.00	0.00
30.00	118.00	2.00	0.00
33.00	123.00	5.00	0.00
36.00	129.00	6.00	0.00
39.00	138.00	9.00	0.00
42.00	147.00	9.00	0.00
45.00	157.00	10.00	0.00
48.00	167.00	10.00	0.00
51.00	174.00	7.00	0.00
54.00	181.00	7.00	0.00
57.00	188.00	7.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	191.00	3.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	105.00	105.00
5.00	105.00	0.00
10.00	99.00	-6.00
15.00	94.00	-5.00
20.00	92.00	-2.00
25.00	92.00	0.00
30.00	92.00	0.00
35.00	93.00	1.00
40.00	93.00	0.00
45.00	93.00	0.00
50.00	88.00	-5.00
55.00	85.00	-3.00
60.00	85.00	0.00
65.00	85.00	0.00
70.00	85.00	0.00
75.00	85.00	0.00
80.00	85.00	0.00
85.00	85.00	0.00
90.00	85.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	85.00	85.00	0.00
6.00	85.00	0.00	0.00
9.00	85.00	0.00	0.00
12.00	85.00	0.00	0.00
15.00	88.00	3.00	0.00
18.00	92.00	4.00	0.00
21.00	97.00	5.00	0.00
24.00	100.00	3.00	0.00
27.00	102.00	2.00	0.00
30.00	105.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
33.00	110.00	5.00	0.00
36.00	117.00	7.00	0.00
39.00	125.00	8.00	0.00
42.00	131.00	6.00	0.00
45.00	135.00	4.00	0.00
48.00	141.00	6.00	0.00
51.00	146.00	5.00	0.00
54.00	155.00	9.00	0.00
57.00	160.00	5.00	0.00
60.00	167.00	7.00	0.00
63.00	179.00	12.00	0.00
66.00	185.00	6.00	0.00
69.00	190.00	5.00	0.00
72.00	194.00	4.00	0.00
75.00	200.00	6.00	0.00
78.00	211.00	11.00	0.00
81.00	219.00	8.00	0.00
84.00	227.00	8.00	0.00
87.00	234.00	7.00	0.00
90.00	242.00	8.00	0.00
93.00	248.00	6.00	0.00
96.00	251.00	3.00	0.00
99.00	256.00	5.00	0.00
102.00	264.00	8.00	0.00
105.00	272.00	8.00	0.00
108.00	277.00	5.00	0.00
111.00	286.00	9.00	0.00
114.00	290.00	4.00	0.00
117.00	293.00	3.00	0.00

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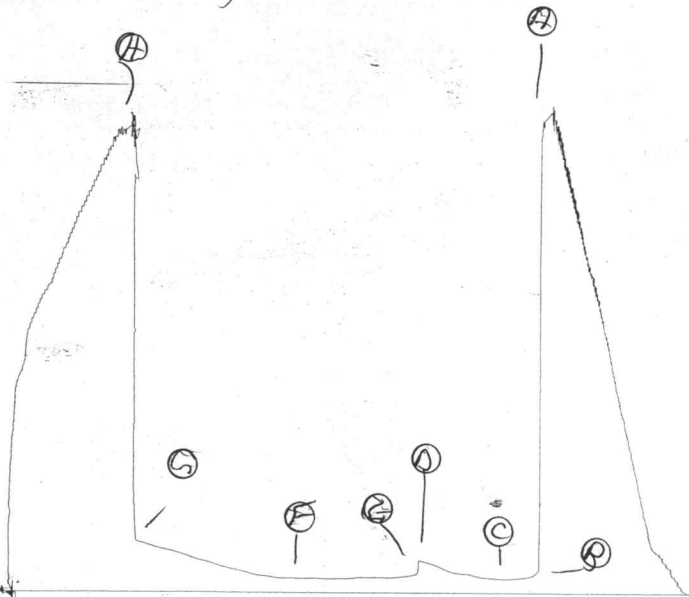
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