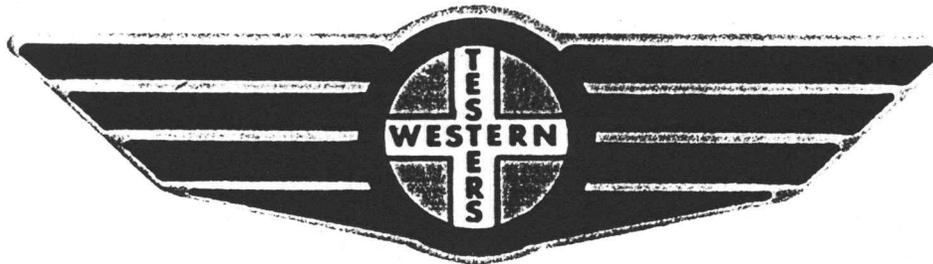


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-16-88 TICKET : 12686
CUSTOMER : LANDMARK OIL EXPLORATION INC. LEASE : BOONE
WELL : #2-34 TEST: 1 GEOLOGIST : R PATTON
ELEVATION : - FORMATION : LANSING B
SECTION : 34 TOWNSHIP : 8S
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS
GAUGE SN# : 6233 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3708 TO : 3728 TOTAL DEPTH : 3728

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3703 SIZE : 6.75
PACKER DEPTH : 3708 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : WARRIOR RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 41
WEIGHT : 9.5 WATER LOSS (CC) : 9.4
CHLORIDES (PPM) : 2000
JARS-MAKE : NO SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? :

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3685 FT I.D. inch : 3.80
TEST TOOL LENGTH : 23 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 20 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-AFTER FLUSH-STRONG BLOW-BOTTOM OF BUCKET
BLOW COMMENT #2 : IN 2 MINUTES.
BLOW COMMENT #3 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET.
BLOW COMMENT #4 :

RECOVERED : 1390 FT OF: OIL 40 GRAVITY CORRECTED TO 60 DEG.F.
RECOVERED : 92 FT OF: SLIGHTLY MUD CUT OIL
95% OIL-5% MUD
RECOVERED : 92 FT OF: MUD CUT OIL
75% OIL-25% MUD

CHLORIDES: 3000 PPM

Total Barrels Fluid = 22.08
Total Fluid Prod Rate = 353.24 BFPD
Indicated Oil Rate = 347.18 BOPD
Indicated Wtr Rate = 0.07 BWPD
Corrected Oil Rate = 302.15 BOPD
Corrected Wtr Rate = 0.06 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 1196 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 7:15 PM TIME STARTED OFF BOTTOM : 10:30 PM
WELL TEMPERATURE : 114
INITIAL HYDROSTATIC PRESSURE (A) 1863
INITIAL FLOW PERIOD MIN: 45 (B) 93 PSI TO (C) : 254
INITIAL CLOSED IN PERIOD MIN: 45 (D) 454
FINAL FLOW PERIOD MIN: 45 (E) 481 PSI TO (F) : 574
FINAL CLOSED IN PERIOD MIN: 60 (G) 784
FINAL HYDROSTATIC PRESSURE (H) 1863

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : LANDMARK OIL EXPLORATION INC.
RIG : SHERIDAN-KANSAS
FIELD : BOONE
WELL : #2-34
DATE : 12-16-88
GAUGE NO : 6233

OPERATIONAL COMMENTS

RECOVERED 1196 FEET OF GAS ABOVE FLUID.

COMPANY : LANDMARK OIL EXPLORATION INC. FIELD : BOONE
 WELL : #2-34 JOB # : 12686
 GAUGE # : 6233 DEPTH : 3728
 DATE : 16/12/88 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW * FLUSHED TOOL					
2	7:15:0	0.000	93.000	114.00	0.000
3	7:19:59	0.083	93.000	114.00	0.000
4	7:25:0	0.167	93.000	114.00	0.000
5	7:30:0	0.250	152.000	114.00	59.000
6	7:34:59	0.333	152.000	114.00	0.000
7	7:40:0	0.417	152.000	114.00	0.000
8	7:45:0	0.500	178.000	114.00	26.000
9	7:49:59	0.583	211.000	114.00	33.000
10	7:55:0	0.667	237.000	114.00	26.000
11	8:0:0	0.750	254.000	114.00	17.000
INITIAL SHUT-IN					
12	8:3:0	0.800	280.000	114.00	26.000
13	8:6:0	0.850	294.000	114.00	14.000
14	8:9:0	0.900	310.000	114.00	16.000
15	8:12:0	0.950	325.000	114.00	15.000
16	8:15:0	1.000	337.000	114.00	12.000
17	8:18:0	1.050	351.000	114.00	14.000
18	8:21:0	1.100	365.000	114.00	14.000
19	8:24:0	1.150	376.000	114.00	11.000
20	8:27:0	1.200	388.000	114.00	12.000
21	8:30:0	1.250	400.000	114.00	12.000
22	8:33:0	1.300	410.000	114.00	10.000
23	8:36:0	1.350	422.000	114.00	12.000
24	8:39:0	1.400	432.000	114.00	10.000
25	8:42:0	1.450	443.000	114.00	11.000
26	8:45:0	1.500	454.000	114.00	11.000
FINAL FLOW					
27	8:46:0	1.517	481.000	114.00	27.000
28	8:49:59	1.583	481.000	114.00	0.000
29	8:55:0	1.667	489.000	114.00	8.000
30	9:0:0	1.750	502.000	114.00	13.000
31	9:4:59	1.833	519.000	114.00	17.000
32	9:10:0	1.917	532.000	114.00	13.000
33	9:15:0	2.000	546.000	114.00	14.000
34	9:19:59	2.083	557.000	114.00	11.000
35	9:25:0	2.167	567.000	114.00	10.000
36	9:30:0	2.250	574.000	114.00	7.000
FINAL SHUT-IN					
37	9:33:0	2.300	719.000	114.00	145.000
38	9:36:0	2.350	739.000	114.00	20.000
39	9:39:0	2.400	750.000	114.00	11.000
40	9:42:0	2.450	756.000	114.00	6.000
41	9:45:0	2.500	762.000	114.00	6.000
42	9:48:0	2.550	766.000	114.00	4.000
43	9:51:0	2.600	768.000	114.00	2.000
44	9:54:0	2.650	770.000	114.00	2.000
45	9:57:0	2.700	772.000	114.00	2.000
46	10:0:0	2.750	774.000	114.00	2.000
47	10:3:0	2.800	776.000	114.00	2.000
48	10:6:0	2.850	777.000	114.00	1.000

COMPANY : LANDMARK OIL EXPLORATION INC. FIELD : BOONE
WELL : #2-34 JOB # : 12686
GAUGE # : 6233 DEPTH : 3728
DATE : 16/12/88 TEST :

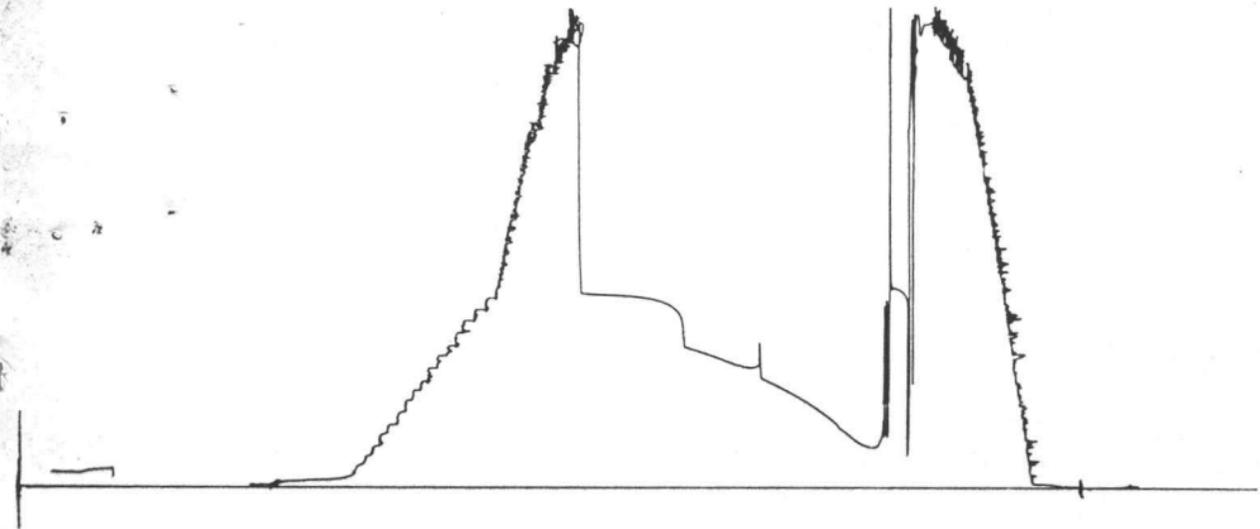
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	10: 9: 0	2.900	778.000	114.00	1.000
50	10:12: 0	2.950	779.000	114.00	1.000
51	10:15: 0	3.000	780.000	114.00	1.000
52	10:18: 0	3.050	781.000	114.00	1.000
53	10:21: 0	3.100	782.000	114.00	1.000
54	10:24: 0	3.150	783.000	114.00	1.000
55	10:27: 0	3.200	784.000	114.00	1.000
56	10:30: 0	3.250	784.000	114.00	0.000

WESTERN TESTING CO. INC.

1340

JK # 12686

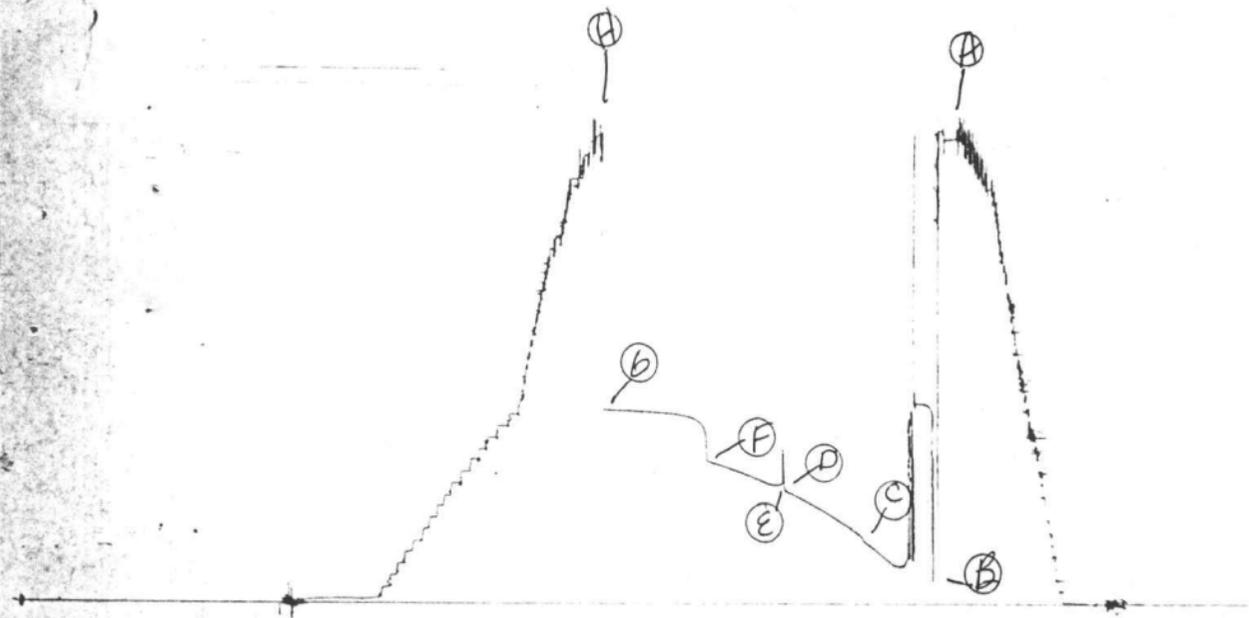
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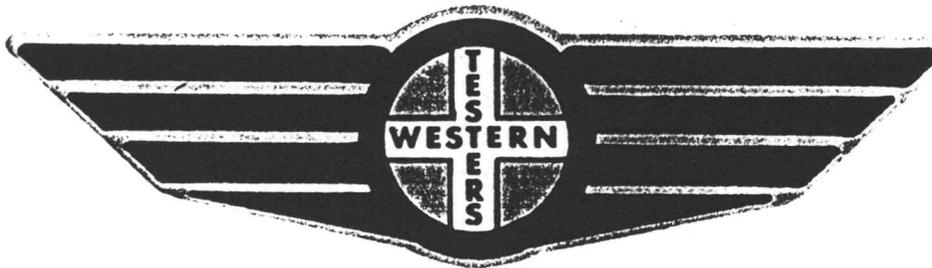
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JK # 12686

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY LANDMARK OIL EXPLORATION, INC. LEASE & WELL NO. BOONE #2-34 SEC. 34 TWP. 8S RGE. 26W TEST NO. 2 DATE 12/17/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-17-88 TICKET : 12687
CUSTOMER : LANDMARK OIL EXPLORATION INC. LEASE : BOONE
WELL : #2-34 TEST: 2 GEOLOGIST : R PATTON
ELEVATION : - FORMATION : LASNING D
SECTION : 34 TOWNSHIP : 8S
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS
GAUGE SN# : 13400 RANGE : 3950 CLOCK : 12

INTERVAL FROM : 3730 TO : 3750 TOTAL DEPTH : 3750

DEPTH OF SELECTIVE ZONE :

PACKER DEPTH : 3725 SIZE : 6.75

PACKER DEPTH : 3730 SIZE : 6.75

PACKER DEPTH : SIZE :

PACKER DEPTH : SIZE :

DRILLING CON. : WARRIOR RIG 2

MUD TYPE : CHEMICAL VISCOSITY : 44

WEIGHT : 9.4 WATER LOSS (CC) : 8.8

CHLORIDES (PPM) : 2000

JARS-MAKE : NO SERIAL NUMBER :

DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00

WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00

DRILL PIPE LENGTH : 3707 FT I.D. inch : 3.80

TEST TOOL LENGTH : 23 FT TOOL SIZE : 5.50

ANCHOR LENGTH : 20 FT ANCHOR SIZE : 5.50

SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75

MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 15 MINUTES.

BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 12 MINUTES.

BLOW COMMENT #3 :

BLOW COMMENT #4 :

RECOVERED : 225 FT OF: CLEAN OIL 39 GRAVITY CORRECTED TO 60 DEG.F

RECOVERED : 45 FT OF: MUD CUT OIL
80% OIL-20% MUD

Total Barrels Fluid = 3.79
Total Fluid Prod Rate = 72.71 BFPD
Indicated Oil Rate = 70.29 BOPD
Indicated Wtr Rate = 0.02 BWPD
Corrected Oil Rate = 52.46 BOPD
Corrected Wtr Rate = 0.02 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 1680 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 9:55 AM TIME STARTED OFF BOTTOM : 12:55 PM
WELL TEMPERATURE : 117
INITIAL HYDROSTATIC PRESSURE (A) 1826
INITIAL FLOW PERIOD MIN: 30 (B) 56 PSI TO (C) : 79
INITIAL CLOSED IN PERIOD MIN: 42 (D) 208
FINAL FLOW PERIOD MIN: 45 (E) 108 PSI TO (F) : 126
FINAL CLOSED IN PERIOD MIN: 60 (G) 209
FINAL HYDROSTATIC PRESSURE (H) 1826

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : LANDMARK OIL EXPLORATION INC.
RIG : SHERIDAN-KANSAS
FIELD : BOONE
WELL : #2-34
DATE : 12-17-88
GAUGE NO : 13400

OPERATIONAL COMMENTS

RECOVERED 1680 FEET OF GAS ABOVE FLUID.

COMPANY : LANDMARK OIL EXPLORATION INC. FIELD : BOONE
 WELL : #2-34 JOB # : 12687
 GAUGE # : 13400 DEPTH : 3750
 DATE : 17/12/88 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P(i-1)$
INITIAL FLOW					
2	9:55: 0	0.000	56.000	117.00	0.000
3	9:59:59	0.083	61.000	117.00	5.000
4	10: 5: 0	0.167	61.000	117.00	0.000
5	10:10: 0	0.250	63.000	117.00	2.000
6	10:14:59	0.333	67.000	117.00	4.000
7	10:20: 0	0.417	72.000	117.00	5.000
8	10:25: 0	0.500	79.000	117.00	7.000
INITIAL SHUT-IN					
9	10:28: 0	0.550	112.000	117.00	33.000
10	10:31: 0	0.600	151.000	117.00	39.000
11	10:34: 0	0.650	170.000	117.00	19.000
12	10:37: 0	0.700	182.000	117.00	12.000
13	10:40: 0	0.750	189.000	117.00	7.000
14	10:43: 0	0.800	196.000	117.00	7.000
15	10:46: 0	0.850	200.000	117.00	4.000
16	10:49: 0	0.900	203.000	117.00	3.000
17	10:52: 0	0.950	205.000	117.00	2.000
18	10:55: 0	1.000	206.000	117.00	1.000
19	10:58: 0	1.050	207.000	117.00	1.000
20	11: 1: 0	1.100	208.000	117.00	1.000
21	11: 4: 0	1.150	208.000	117.00	0.000
22	11: 7: 0	1.200	208.000	117.00	0.000
FINAL FLOW					
23	11: 8: 0	1.217	108.000	117.00	-100.000
24	11:11:59	1.283	108.000	117.00	0.000
25	11:17: 0	1.367	108.000	117.00	0.000
26	11:22: 0	1.450	109.000	117.00	1.000
27	11:26:59	1.533	114.000	117.00	5.000
28	11:32: 0	1.617	117.000	117.00	3.000
29	11:37: 0	1.700	120.000	117.00	3.000
30	11:41:59	1.783	122.000	117.00	2.000
31	11:47: 0	1.867	124.000	117.00	2.000
32	11:52: 0	1.950	126.000	117.00	2.000
FINAL SHUT-IN					
33	11:55: 0	2.000	151.000	117.00	25.000
34	11:58: 0	2.050	166.000	117.00	15.000
35	12: 1: 0	2.100	178.000	117.00	12.000
36	12: 4: 0	2.150	186.000	117.00	8.000
37	12: 7: 0	2.200	192.000	117.00	6.000
38	12:10: 0	2.250	196.000	117.00	4.000
39	12:13: 0	2.300	200.000	117.00	4.000
40	12:16: 0	2.350	203.000	117.00	3.000
41	12:19: 0	2.400	205.000	117.00	2.000
42	12:22: 0	2.450	207.000	117.00	2.000
43	12:25: 0	2.500	208.000	117.00	1.000
44	12:28: 0	2.550	209.000	117.00	1.000
45	12:31: 0	2.600	209.000	117.00	0.000
46	12:34: 0	2.650	209.000	117.00	0.000
47	12:37: 0	2.700	209.000	117.00	0.000
48	12:40: 0	2.750	209.000	117.00	0.000

COMPANY : LANDMARK OIL EXPLORATION INC.
WELL : #2-34
GAUGE # : 13400
DATE : 17/12/88

FIELD : BOONE
JOB # : 12687
DEPTH : 3750
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	12:43: 0	2.800	209.000	117.00	0.000
50	12:46: 0	2.850	209.000	117.00	0.000
51	12:49: 0	2.900	209.000	117.00	0.000
52	12:52: 0	2.950	209.000	117.00	0.000

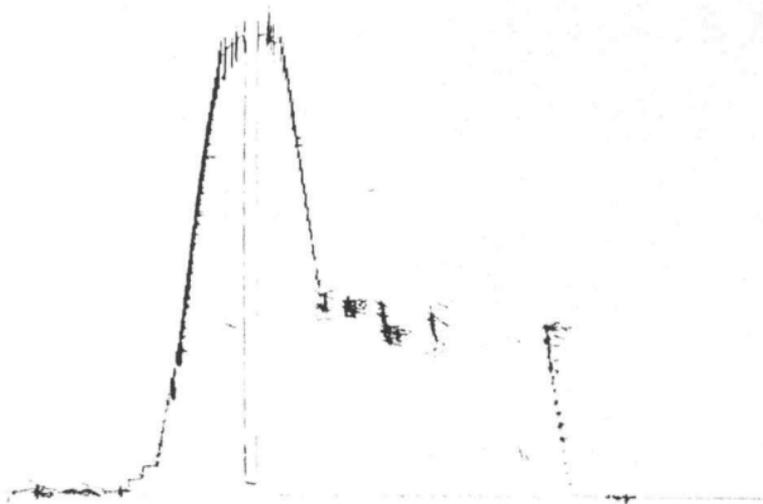
WESTERN TESTING CO. INC.

6233

DST#2

JK # 12687

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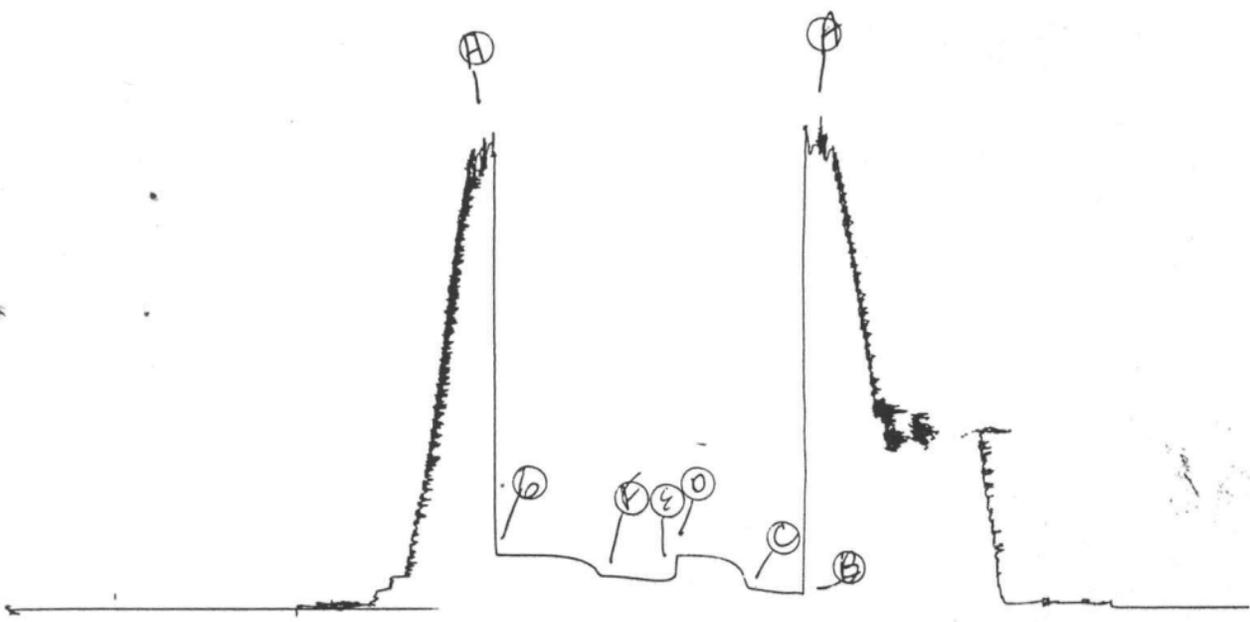


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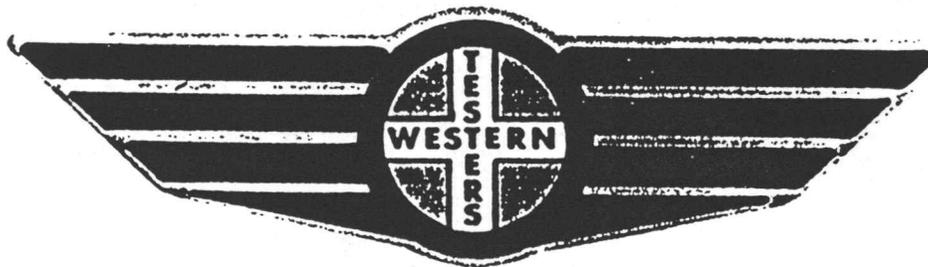
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Jkt # 12687

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY LANDMARK OIL EXPLORATION, INC. LEASE & WELL NO. BOONE #2-34 SEC. 34 TWP. 8S RGE. 26W TEST NO. 3 DATE 12/17/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-17-88 TICKET : 12688
CUSTOMER : LANDMARK OIL EXPLORATION INC. LEASE : BOONE
WELL : #2-34 TEST: 3 GEOLOGIST : R PATTON
ELEVATION : - FORMATION : -
SECTION : 34 TOWNSHIP : 8S
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS
GAUGE SN# : 6233 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3752 TO : 3773 TOTAL DEPTH : 3773
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3748 SIZE : 6.75
PACKER DEPTH : 3753 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : WARRIOR RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 44
WEIGHT : 9.4 WATER LOSS (CC) : 8.8
CHLORIDES (PPM) : 2000
JARS-MAKE : NO SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3730 FT I.D. inch : 3.80
TEST TOOL LENGTH : 23 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 20 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW DIED IN 20 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 10 FT OF: MUD

Total Barrels Fluid = 0.14
Total Fluid Prod Rate = 3.11 BFPD
Indicated Wtr Rate = 0.03 BWPD

REMARK 1 :
REMARK 2 : FLUSHED TOOL FINAL FLOW.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:40 AM

TIME STARTED OFF BOTTOM : 2:40 AM

WELL TEMPERATURE : 117

INITIAL HYDROSTATIC PRESSURE

(A) 1908

INITIAL FLOW PERIOD MIN: 35

(B) 42 PSI TO (C) : 42

INITIAL CLOSED IN PERIOD MIN: 30

(D) 940

FINAL FLOW PERIOD MIN: 30

(E) 56 PSI TO (F) : 48

FINAL CLOSED IN PERIOD MIN: 33

(G) 917

FINAL HYDROSTATIC PRESSURE

(H) 1902

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : LANDMARK OIL EXPLORATION INC.
RIG : SHERIDAN-KANSAS
FIELD : BOONE
WELL : #2-34
DATE : 12-17-88
GAUGE NO : 6233

OPERATIONAL COMMENTS

FLUSHED TOOL FINAL FLOW.

COMPANY : LANDMARK OIL EXPLORATION INC.
 WELL : #2-34
 GAUGE # : 6233
 DATE : 17/12/88

FIELD : BOONE
 JOB # : 12688
 DEPTH : 3773
 TEST :

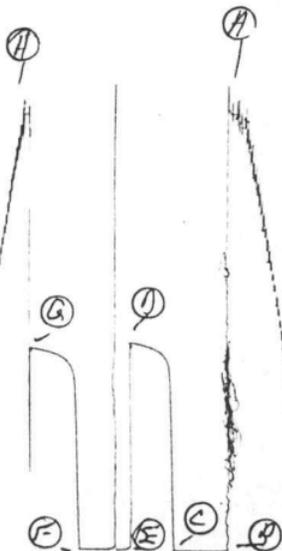
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	12:40:00	0.000	42.000	117.00	0.000
3	12:44:59	0.083	42.000	117.00	0.000
4	12:50:00	0.167	42.000	117.00	0.000
5	12:55:00	0.250	42.000	117.00	0.000
6	12:59:59	0.333	42.000	117.00	0.000
7	13:05:00	0.417	42.000	117.00	0.000
8	13:10:00	0.500	42.000	117.00	0.000
9	13:14:59	0.583	42.000	117.00	0.000
INITIAL SHUT-IN					
10	13:17:59	0.633	647.000	117.00	605.000
11	13:20:59	0.683	860.000	117.00	213.000
12	13:23:59	0.733	893.000	117.00	33.000
13	13:26:59	0.783	905.000	117.00	12.000
14	13:29:59	0.833	917.000	117.00	12.000
15	13:32:59	0.883	923.000	117.00	6.000
16	13:35:59	0.933	931.000	117.00	8.000
17	13:38:59	0.983	934.000	117.00	3.000
18	13:41:59	1.033	938.000	117.00	4.000
19	13:44:59	1.083	940.000	117.00	2.000
FINAL FLOW					
20	13:46:00	1.100	56.000	117.00	-884.000
21	13:49:59	1.167	47.000	117.00	-9.000
22	13:55:00	1.250	56.000	117.00	9.000
23	13:59:59	1.333	48.000	117.00	-8.000
24	14:04:59	1.417	48.000	117.00	0.000
25	14:10:00	1.500	48.000	117.00	0.000
26	14:14:59	1.583	48.000	117.00	0.000
FINAL SHUT-IN					
27	14:17:59	1.633	433.000	117.00	385.000
28	14:20:59	1.683	810.000	117.00	377.000
29	14:23:59	1.733	850.000	117.00	40.000
30	14:26:59	1.783	872.000	117.00	22.000
31	14:29:59	1.833	882.000	117.00	10.000
32	14:32:59	1.883	891.000	117.00	9.000
33	14:35:59	1.933	899.000	117.00	8.000
34	14:38:59	1.983	904.000	117.00	5.000
35	14:41:59	2.033	909.000	117.00	5.000
36	14:44:59	2.083	914.000	117.00	5.000
37	14:47:59	2.133	917.000	117.00	3.000

WESTERN TESTING CO. INC.

6233

PK 12688

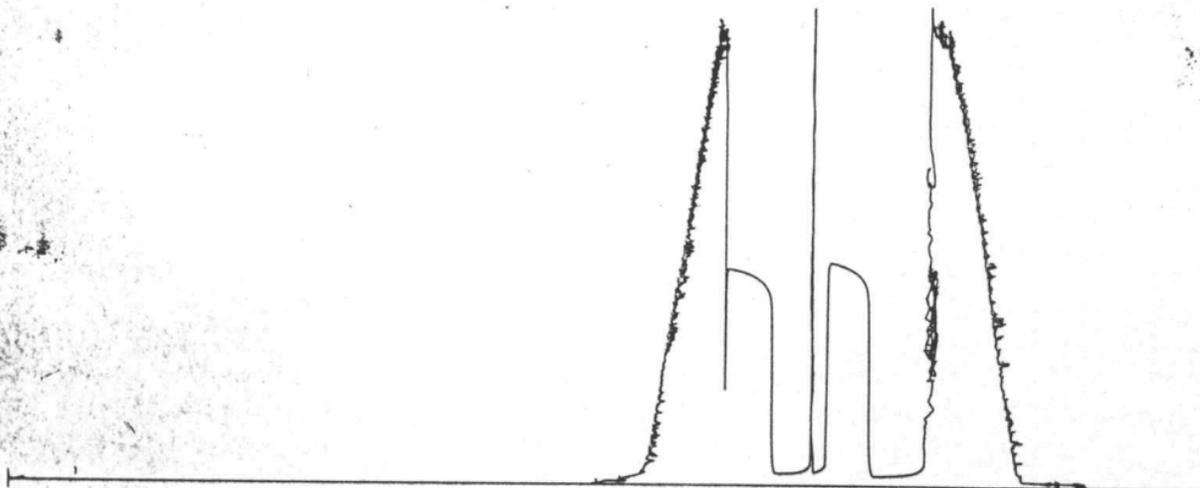
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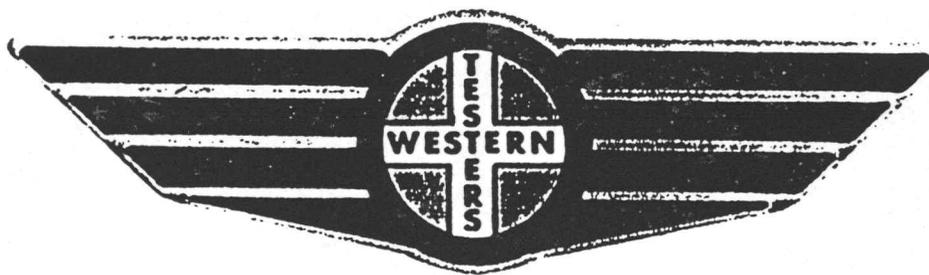
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY LANDMARK OIL EXPLORATION, INC. LEASE & WELL NO. BOONE #2-34 SEC. 34 TWP. 8S RGE. 26W TEST NO. 4 DATE 12/18/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-18-88
CUSTOMER : LANDMARK OIL EXPLORATION INC.
WELL : #2-34 TEST: 4
ELEVATION : -
SECTION : 34
RANGE : 26W COUNTY : SHERIDAN
GAUGE SN# : 6233 RANGE : 4000
TICKET : 12689
LEASE : BOONE
GEOLOGIST : R PATTON
FORMATION : -
TOWNSHIP : 8S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3800 TO : 3820 TOTAL DEPTH : 3820
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3795 SIZE : 6.75
PACKER DEPTH : 3800 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : WARRIOR RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 47
WEIGHT : 9.6 WATER LOSS (CC) : 9.2
CHLORIDES (PPM) : 3000
JARS-MAKE : NO SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3777 FT I.D. inch : 3.80
TEST TOOL LENGTH : 23 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 20 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-FAIR BLOW -3" IN WATER.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 10 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 75 FT OF: MUD CUT OIL
60% OIL-40% MUD

Total Barrels Fluid = 1.05
Total Fluid Prod Rate = 20.20 BFPD
Indicated Oil Rate = 12.12 BOPD
Indicated Wtr Rate = 0.08 BWPD
Corrected Oil Rate = 14.81 BOPD
Corrected Wtr Rate = 0.10 BWPD

REMARK 1 : INITIAL FLOW PLUGGED OFF
REMARK 2 : RECOVERED 540 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 1:30 PM TIME STARTED OFF BOTTOM : 4:30 PM
WELL TEMPERATURE : 120
INITIAL HYDROSTATIC PRESSURE (A) 1938
INITIAL FLOW PERIOD MIN: 30 (B) 30 PSI TO (C) : 30
INITIAL CLOSED IN PERIOD MIN: 48 (D) 157
FINAL FLOW PERIOD MIN: 45 (E) 50 PSI TO (F) : 50
FINAL CLOSED IN PERIOD MIN: 63 (G) 1021
FINAL HYDROSTATIC PRESSURE (H) 1914

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : LANDMARK OIL EXPLORATION INC.
RIG : SHERIDAN-KANSAS
FIELD : BOONE
WELL : #2-34
DATE : 12-18-88
GAUGE NO : 6233

OPERATIONAL COMMENTS

INITIAL FLOW PLUGGED OFF
RECOVERED 540 FEET OF GAS ABOVE FLUID.

COMPANY : LANDMARK OIL EXPLORATION INC.
 WELL : #2-34
 GAUGE # : 6233
 DATE : 18/12/88

FIELD : BOONE
 JOB # : 12689
 DEPTH : 3820
 TEST : INITIAL FLOW PLUGGED OFF

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	1:30:0	0.000	30.000	120.00	0.000
3	1:34:59	0.083	30.000	120.00	0.000
4	1:40:0	0.167	30.000	120.00	0.000
5	1:45:0	0.250	30.000	120.00	0.000
6	1:49:59	0.333	30.000	120.00	0.000
7	1:55:0	0.417	30.000	120.00	0.000
8	2:0:0	0.500	30.000	120.00	0.000
INITIAL SHUT-IN					
9	2:3:0	0.550	34.000	120.00	4.000
10	2:6:0	0.600	39.000	120.00	5.000
11	2:9:0	0.650	51.000	120.00	12.000
12	2:12:0	0.700	68.000	120.00	17.000
13	2:15:0	0.750	69.000	120.00	1.000
14	2:18:0	0.800	81.000	120.00	12.000
15	2:21:0	0.850	99.000	120.00	18.000
16	2:24:0	0.900	126.000	120.00	27.000
17	2:27:0	0.950	113.000	120.00	-13.000
18	2:30:0	1.000	124.000	120.00	11.000
19	2:33:0	1.050	149.000	120.00	25.000
20	2:36:0	1.100	114.000	120.00	-35.000
21	2:39:0	1.150	130.000	120.00	16.000
22	2:42:0	1.200	91.000	120.00	-39.000
23	2:45:0	1.250	125.000	120.00	34.000
24	2:48:0	1.300	157.000	120.00	32.000
FINAL FLOW					
25	2:49:0	1.317	50.000	120.00	-107.000
26	2:52:59	1.383	50.000	120.00	0.000
27	2:58:0	1.467	50.000	120.00	0.000
28	3:3:0	1.550	50.000	120.00	0.000
29	3:7:59	1.633	50.000	120.00	0.000
30	3:13:0	1.717	50.000	120.00	0.000
31	3:18:0	1.800	50.000	120.00	0.000
32	3:22:59	1.883	50.000	120.00	0.000
33	3:28:0	1.967	50.000	120.00	0.000
34	3:33:0	2.050	50.000	120.00	0.000
FINAL SHUT-IN					
35	3:36:0	2.100	64.000	120.00	14.000
36	3:38:59	2.150	107.000	120.00	43.000
37	3:42:0	2.200	191.000	120.00	84.000
38	3:45:0	2.250	372.000	120.00	181.000
39	3:48:0	2.300	655.000	120.00	283.000
40	3:51:0	2.350	886.000	120.00	231.000
41	3:53:59	2.400	962.000	120.00	76.000
42	3:57:0	2.450	991.000	120.00	29.000
43	4:0:0	2.500	1002.000	120.00	11.000
44	4:3:0	2.550	1008.000	120.00	6.000
45	4:6:0	2.600	1010.000	120.00	2.000
46	4:9:0	2.650	1015.000	120.00	5.000
47	4:11:59	2.700	1016.000	120.00	1.000
48	4:15:0	2.750	1016.000	120.00	0.000

COMPANY : LANDMARK OIL EXPLORATION INC.
WELL : #2-34
GAUGE # : 6233
DATE : 18/12/88

FIELD : BOONE
JOB # : 12689
DEPTH : 3820
TEST : INITIAL FLOW PLUGGED OFF

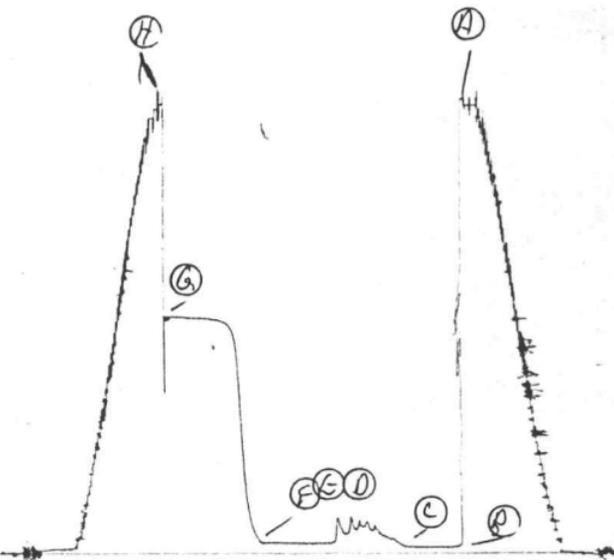
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	4:18:0	2.800	1016.000	120.00	0.000
50	4:21:0	2.850	1017.000	120.00	1.000
51	4:24:0	2.900	1019.000	120.00	2.000
52	4:26:59	2.950	1021.000	120.00	2.000
53	4:30:0	3.000	1021.000	120.00	0.000
54	4:33:0	3.050	1021.000	120.00	0.000
55	4:36:0	3.100	1021.000	120.00	0.000

WESTERN TESTING CO. INC.

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KT 12689

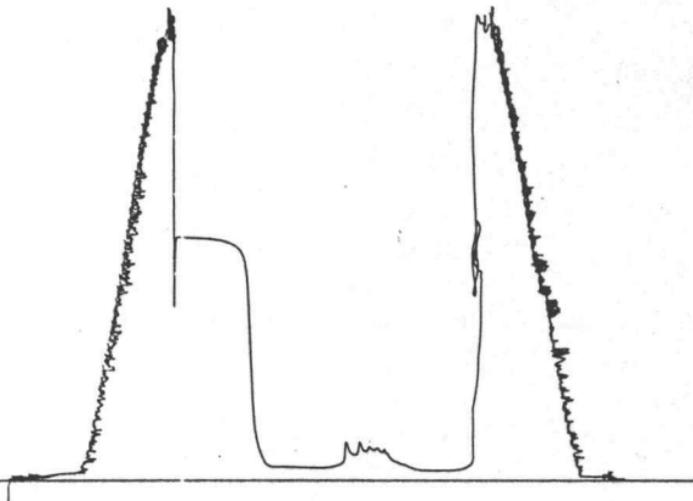
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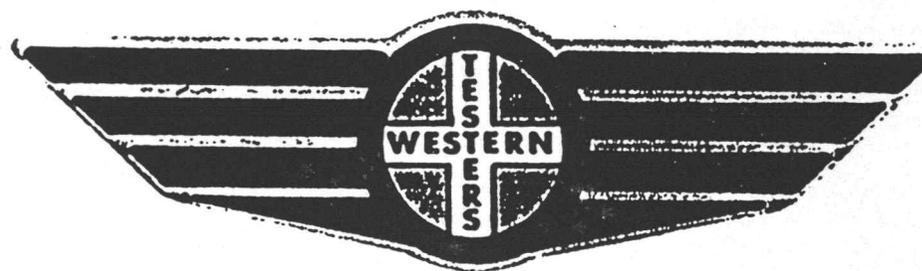
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TK 12.89

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

LANDMARK OIL EXPLORATION, INC. LEASE & WELL NO.

BOONE #2-34

SEC. 34 TWP. 8S RGE. 26W TEST NO. 5 DATE 12/19/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-19-88 TICKET : 12690
CUSTOMER : LANDMARK OIL EXPLORATION INC. LEASE : BOONE
WELL : #2-34 TEST: 5 GEOLOGIST : R PATTON
ELEVATION : - FORMATION : LANSING I&J
SECTION : 34 TOWNSHIP : 8S
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS
GAUGE SN# : 6233 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3832 TO : 3865 TOTAL DEPTH : 3865
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3827 SIZE : 6.75
PACKER DEPTH : 3832 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : WARRIOR RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 47
WEIGHT : 9.6 WATER LOSS (CC) : 9.2
CHLORIDES (PPM) : 3000
JARS-MAKE : NO SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3809 FT I.D. inch : 3.80
TEST TOOL LENGTH : 23 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 33 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 10 MINUTES
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 5 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 430 FT OF: OIL
37 GRAVITY CORRECTED TO 60 DEG.F.
RECOVERED : 184 FT OF: MUD CUT OIL
80% OIL-20% MUD

Total Barrels Fluid = 8.61
Total Fluid Prod Rate = 165.35 BFPD
Indicated Oil Rate = 150.06 BOPD
Indicated Wtr Rate = 1.00 BWPD
Corrected Oil Rate = 141.46 BOPD
Corrected Wtr Rate = 0.94 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 1980 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 3:45 AM TIME STARTED OFF BOTTOM : 6:45 AM
WELL TEMPERATURE : 119
INITIAL HYDROSTATIC PRESSURE (A) 1968
INITIAL FLOW PERIOD MIN: 30 (B) 61 PSI TO (C) : 127
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1002
FINAL FLOW PERIOD MIN: 45 (E) 159 PSI TO (F) : 252
FINAL CLOSED IN PERIOD MIN: 63 (G) 975
FINAL HYDROSTATIC PRESSURE (H) 1948

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : LANDMARK OIL EXPLORATION INC.
RIG : SHERIDAN-KANSAS
FIELD : BOONE
WELL : #2-34
DATE : 12-19-88
GAUGE NO : 6233

OPERATIONAL COMMENTS

RECOVERED 1980 FEET OF GAS ABOVE FLUID.

COMPANY : LANDMARK OIL EXPLORATION INC. FIELD : BOONE
 WELL : #2-34 JOB # : 12690
 GAUGE # : 6233 DEPTH : 3865
 DATE : 19/12/88 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	3:45: 0	0.000	61.000	119.00	0.000
3	3:49:59	0.083	61.000	119.00	0.000
4	3:55: 0	0.167	67.000	119.00	6.000
5	4: 0: 0	0.250	83.000	119.00	16.000
6	4: 4:59	0.333	100.000	119.00	17.000
7	4:10: 0	0.417	116.000	119.00	16.000
8	4:15: 0	0.500	127.000	119.00	11.000
INITIAL SHUT-IN					
9	4:18: 0	0.550	706.000	119.00	579.000
10	4:21: 0	0.600	883.000	119.00	177.000
11	4:24: 0	0.650	922.000	119.00	39.000
12	4:27: 0	0.700	941.000	119.00	19.000
13	4:30: 0	0.750	956.000	119.00	15.000
14	4:33: 0	0.800	966.000	119.00	10.000
15	4:36: 0	0.850	973.000	119.00	7.000
16	4:39: 0	0.900	979.000	119.00	6.000
17	4:42: 0	0.950	984.000	119.00	5.000
18	4:45: 0	1.000	990.000	119.00	6.000
19	4:48: 0	1.050	992.000	119.00	2.000
20	4:51: 0	1.100	995.000	119.00	3.000
21	4:54: 0	1.150	998.000	119.00	3.000
22	4:57: 0	1.200	1000.000	119.00	2.000
23	5: 0: 0	1.250	1002.000	119.00	2.000
FINAL FLOW					
24	5: 1: 0	1.267	159.000	119.00	-843.000
25	5: 4:59	1.333	159.000	119.00	0.000
26	5:10: 0	1.417	161.000	119.00	2.000
27	5:15: 0	1.500	175.000	119.00	14.000
28	5:19:59	1.583	188.000	119.00	13.000
29	5:25: 0	1.667	203.000	119.00	15.000
30	5:30: 0	1.750	219.000	119.00	16.000
31	5:34:59	1.833	234.000	119.00	15.000
32	5:40: 0	1.917	247.000	119.00	13.000
33	5:45: 0	2.000	252.000	119.00	5.000
FINAL SHUT-IN					
34	5:48: 0	2.050	740.000	119.00	488.000
35	5:51: 0	2.100	851.000	119.00	111.000
36	5:54: 0	2.150	882.000	119.00	31.000
37	5:57: 0	2.200	900.000	119.00	18.000
38	6: 0: 0	2.250	913.000	119.00	13.000
39	6: 3: 0	2.300	922.000	119.00	9.000
40	6: 6: 0	2.350	930.000	119.00	8.000
41	6: 9: 0	2.400	936.000	119.00	6.000
42	6:12: 0	2.450	941.000	119.00	5.000
43	6:15: 0	2.500	946.000	119.00	5.000
44	6:18: 0	2.550	950.000	119.00	4.000
45	6:21: 0	2.600	955.000	119.00	5.000
46	6:24: 0	2.650	958.000	119.00	3.000
47	6:27: 0	2.700	961.000	119.00	3.000
48	6:30: 0	2.750	964.000	119.00	3.000

COMPANY : LANDMARK OIL EXPLORATION INC. FIELD : BOONE
 WELL : #2-34 JOB # : 12690
 GAUGE # : 6233 DEPTH : 3865
 DATE : 19/12/88 TEST :

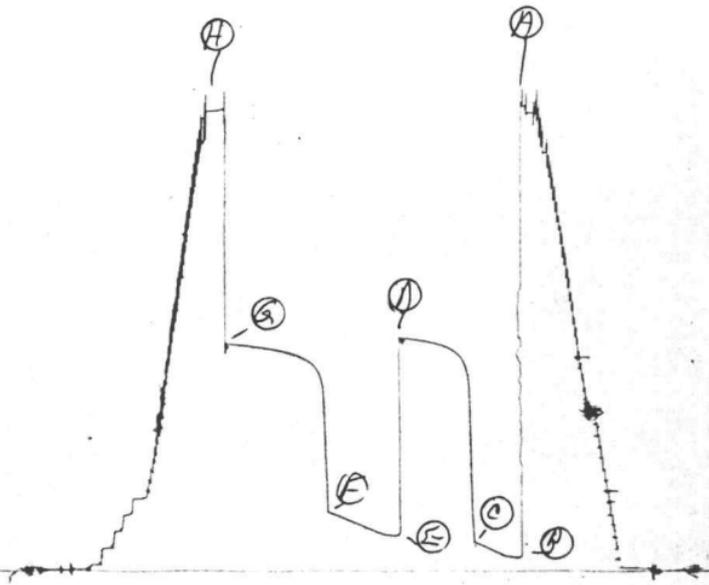
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49	6:33: 0	2.800	967.000	119.00	3.000
50	6:36: 0	2.850	970.000	119.00	3.000
51	6:39: 0	2.900	972.000	119.00	2.000
52	6:42: 0	2.950	973.000	119.00	1.000
53	6:45: 0	3.000	974.000	119.00	1.000
54	6:48: 0	3.050	975.000	119.00	1.000

WESTERN TESTING CO. INC.

67-33

K4 12690

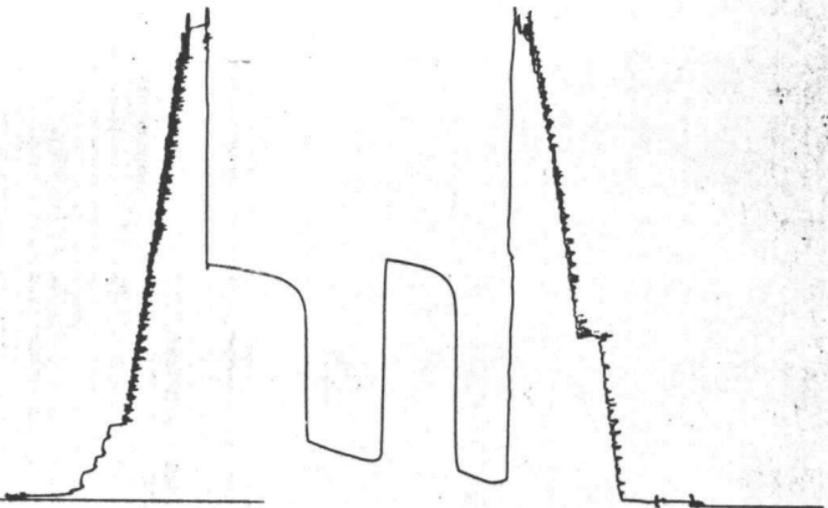
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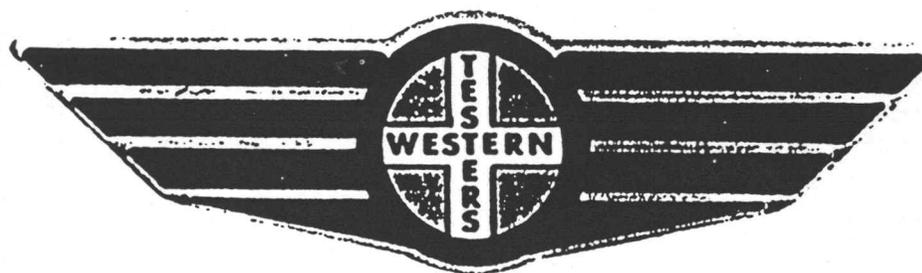
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KA 12690

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY LANDMARK OIL EXPLORATION, INC. EASE & WELL NO. BOONE #2-34 SEC. 34 TWP. 8S RGE. 26W TEST NO. 6 DATE 12/19/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-19-88 TICKET : 12691
CUSTOMER : LANDMARK OIL EXPLORATION INC. LEASE : BOONE
WELL : #2-34 TEST: 6 GEOLOGIST :
ELEVATION : - FORMATION : -
SECTION : 34 TOWNSHIP : 8S
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS
GAUGE SN# : 6233 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3863 TO : 3883 TOTAL DEPTH : 3883
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3858 SIZE : 6.75
PACKER DEPTH : 3863 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : WARRIOR RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 54
WEIGHT : 9.5 WATER LOSS (CC) : 9.8
CHLORIDES (PPM) : 3000
JARS-MAKE : NO SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3840 FT I.D. inch : 3.80
TEST TOOL LENGTH : 23 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 20 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW-1/4" IN WATER-1/2".
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW-1/4" IN WATER.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 25 FT OF: MUD

Total Barrels Fluid = 0.35
Total Fluid Prod Rate = 8.42 BFPD
Indicated Wtr Rate = 0.08 BWPD

REMARK 1 : FLUSHED TOOL FINAL FLOW
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 3:55 PM

TIME STARTED OFF BOTTOM : 5:55 PM

WELL TEMPERATURE : 119

INITIAL HYDROSTATIC PRESSURE

(A) 1944

INITIAL FLOW PERIOD MIN: 30

(B) 44 PSI TO (C) : 30

INITIAL CLOSED IN PERIOD MIN: 33

(D) 1256

FINAL FLOW PERIOD MIN: 30

(E) 55 PSI TO (F) : 41

FINAL CLOSED IN PERIOD MIN: 30

(G) 1200

FINAL HYDROSTATIC PRESSURE

(H) 1930

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : LANDMARK OIL EXPLORATION INC.
RIG : SHERIDAN-KANSAS
FIELD : BOONE
WELL : #2-34
DATE : 12-19-88
GAUGE NO : 6233

OPERATIONAL COMMENTS

FLUSHED TOOL FINAL FLOW

COMPANY : LANDMARK OIL EXPLORATION INC.
 WELL : #2-34
 GAUGE # : 6233
 DATE : 19/12/88

FIELD : BOONE
 JOB # : 12691
 DEPTH : 3883
 TEST : FLUSHED TOOL FINAL FLOW

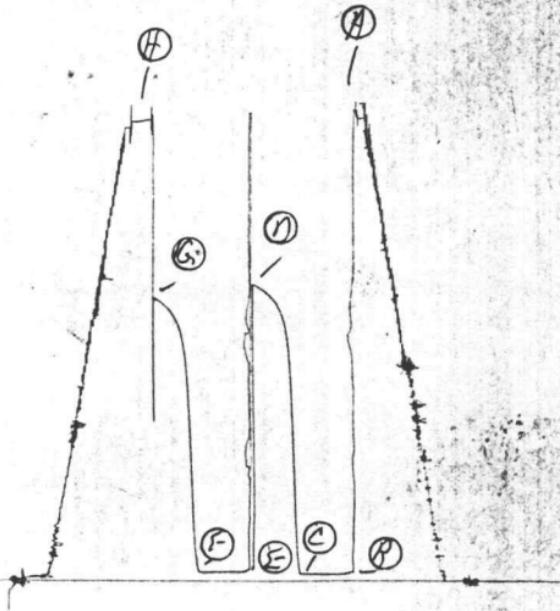
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	3:55: 0	0.000	44.000	119.00	0.000
3	3:59:59	0.083	30.000	119.00	-14.000
4	4: 5: 0	0.167	30.000	119.00	0.000
5	4:10: 0	0.250	30.000	119.00	0.000
6	4:14:59	0.333	30.000	119.00	0.000
7	4:20: 0	0.417	30.000	119.00	0.000
8	4:25: 0	0.500	30.000	119.00	0.000
INITIAL SHUT-IN					
9	4:28: 0	0.550	85.000	119.00	55.000
10	4:31: 0	0.600	453.000	119.00	368.000
11	4:34: 0	0.650	1005.000	119.00	552.000
12	4:37: 0	0.700	1075.000	119.00	70.000
13	4:40: 0	0.750	1141.000	119.00	66.000
14	4:43: 0	0.800	1178.000	119.00	37.000
15	4:46: 0	0.850	1206.000	119.00	28.000
16	4:49: 0	0.900	1226.000	119.00	20.000
17	4:52: 0	0.950	1239.000	119.00	13.000
18	4:55: 0	1.000	1252.000	119.00	13.000
19	4:58: 0	1.050	1256.000	119.00	4.000
FINAL FLOW					
20	4:59: 0	1.067	55.000	119.00	-1201.000
21	5: 2:59	1.133	44.000	119.00	-11.000
22	5: 8: 0	1.217	41.000	119.00	-3.000
23	5:13: 0	1.300	41.000	119.00	0.000
24	5:17:59	1.383	41.000	119.00	0.000
25	5:23: 0	1.467	41.000	119.00	0.000
26	5:28: 0	1.550	41.000	119.00	0.000
FINAL SHUT-IN					
27	5:31: 0	1.600	129.000	119.00	88.000
28	5:34: 0	1.650	504.000	119.00	375.000
29	5:37: 0	1.700	846.000	119.00	342.000
30	5:40: 0	1.750	1010.000	119.00	164.000
31	5:43: 0	1.800	1086.000	119.00	76.000
32	5:46: 0	1.850	1124.000	119.00	38.000
33	5:49: 0	1.900	1151.000	119.00	27.000
34	5:52: 0	1.950	1171.000	119.00	20.000
35	5:55: 0	2.000	1190.000	119.00	19.000
36	5:58: 0	2.050	1200.000	119.00	10.000

WESTERN TESTING CO. INC.

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