

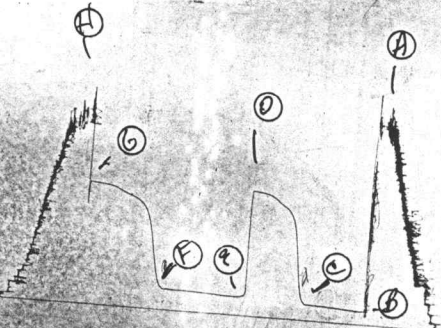
Site # 13107

I

10979

0571

13107

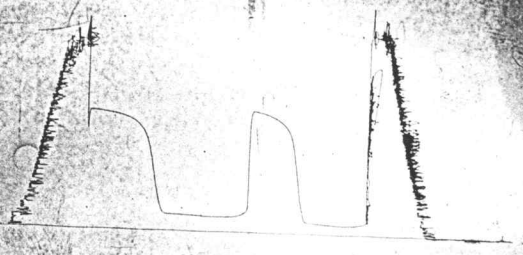


Kit # 13107

0

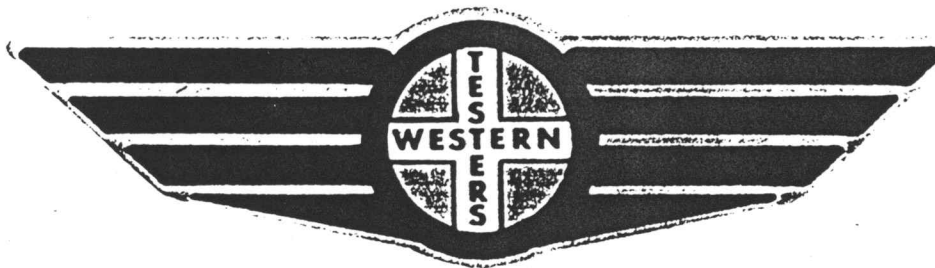
13107

13107



13265

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY LITTLE NELL OIL CORPORATION LEASE & WELL NO. LANGFORD #1 SEC. 5 TWP. 28S RGE. 10E TEST NO. 1 DATE 4/20/87

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 4-20-87 TICKET : 13107  
CUSTOMER : LITTLE NELL OIL CORPORATION LEASE : LANGFORD  
WELL : #1 TEST: 1 GEOLOGIST : D. SEEBER  
ELEVATION : 1197 KB FORMATION : MISSISSIPPI  
SECTION : 5 TOWNSHIP : 28S  
RANGE : 10E COUNTY : GREENWOOD STATE : KANSAS  
GAUGE SN# : 10979 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 2161 TO : 2175 TOTAL DEPTH : 2175  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 2161 SIZE : 6.75  
PACKER DEPTH : 2156 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : WHITE & ELLIS RIG #7  
MUD TYPE : CHEMICAL VISCOSITY : 38  
WEIGHT : 9.0 WATER LOSS (CC) : 12.2  
CHLORIDES (PPM) : 800  
JARS-MAKE : - SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 240 FT I.D. inch : 2.25  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 1901 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 14 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 : FAIR BLOW THROUGHOUT THE TEST.  
BLOW COMMENT #2 :  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 120 FT OF: OIL & GAS CUT MUD  
20% OIL @ TOP-10% OIL @ BOTTOM OF SAMPLE  
RECOVERED : 55 FT OF: SLIGHTLY OIL CUT MUDDY SALT WATER  
5% OIL- 95% MDY SALT WTR

CHLORIDES: 51000 PPM

Total Barrels Fluid = 0.86  
Total Fluid Prod Rate = 11.80 BFPD  
Indicated Oil Rate = 1.21 BOPD  
Indicated Wtr Rate = 4.05 BWPD

REMARK 1 :  
REMARK 2 : RECOVERED 125 FEET OF GAS ABOVE FLUID.  
REMARK 3 : SLID TOOL 6 FEET TO BOTTOM  
REMARK 4 :

SET PACKER(S) : 1:15 AM TIME STARTED OFF BOTTOM : 4:45 AM  
WELL TEMPERATURE : 101  
INITIAL HYDROSTATIC PRESSURE (A) 1078  
INITIAL FLOW PERIOD MIN: 45 (B) 58 PSI TO (C) : 73  
INITIAL CLOSED IN PERIOD MIN: 45 (D) 673  
FINAL FLOW PERIOD MIN: 60 (E) 88 PSI TO (F) : 98  
FINAL CLOSED IN PERIOD MIN: 60 (G) 659  
FINAL HYDROSTATIC PRESSURE (H) 1038

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
-----

COMPANY : LITTLE NELL OIL CORPORATION  
RIG : GREENWOOD-KANSAS  
FIELD : LANGFORD  
WELL : #1  
DATE : 4-20-87  
GAUGE NO : 10979

OPERATIONAL COMMENTS

RECOVERED 125 FEET OF GAS ABOVE FLUID.  
SLID TOOL 6 FEET TO BOTTOM

COMPANY : LITTLE NELL OIL CORPORATION  
 WELL : #1  
 GAUGE # : 10979  
 DATE : 20/ 4/87

FIELD : LANGFORD  
 JOB # : 13107  
 DEPTH : 2175  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:15: 0	0.000	58.000	101.00	0.000
2	1:19:59	0.083	58.000	101.00	0.000
3	1:25: 0	0.167	62.000	101.00	4.000
4	1:30: 0	0.250	64.000	101.00	2.000
5	1:34:59	0.333	66.000	101.00	2.000
6	1:40: 0	0.417	68.000	101.00	2.000
7	1:45: 0	0.500	70.000	101.00	2.000
8	1:49:59	0.583	71.000	101.00	1.000
9	1:55: 0	0.667	72.000	101.00	1.000
10	2: 0: 0	0.750	73.000	101.00	1.000
11	2: 3: 0	0.800	90.000	101.00	17.000
12	2: 6: 0	0.850	167.000	101.00	77.000
13	2: 9: 0	0.900	307.000	101.00	140.000
14	2:12: 0	0.950	448.000	101.00	141.000
15	2:15: 0	1.000	536.000	101.00	88.000
16	2:18: 0	1.050	578.000	101.00	42.000
17	2:21: 0	1.100	598.000	101.00	20.000
18	2:24: 0	1.150	610.000	101.00	12.000
19	2:27: 0	1.200	624.000	101.00	14.000
20	2:30: 0	1.250	643.000	101.00	19.000
21	2:33: 0	1.300	657.000	101.00	14.000
22	2:36: 0	1.350	663.000	101.00	6.000
23	2:39: 0	1.400	667.000	101.00	4.000
24	2:42: 0	1.450	670.000	101.00	3.000
25	2:45: 0	1.500	673.000	101.00	3.000
26	2:46: 0	1.517	88.000	101.00	-585.000
27	2:49:59	1.583	88.000	101.00	0.000
28	2:55: 0	1.667	88.000	101.00	0.000
29	3: 0: 0	1.750	88.000	101.00	0.000
30	3: 4:59	1.833	90.000	101.00	2.000
31	3:10: 0	1.917	92.000	101.00	2.000
32	3:15: 0	2.000	94.000	101.00	2.000
33	3:19:59	2.083	96.000	101.00	2.000
34	3:25: 0	2.167	97.000	101.00	1.000
35	3:30: 0	2.250	98.000	101.00	1.000
36	3:34:59	2.333	98.000	101.00	0.000
37	3:40: 0	2.417	98.000	101.00	0.000
38	3:45: 0	2.500	98.000	101.00	0.000
39	3:48: 0	2.550	113.000	101.00	15.000
40	3:51: 0	2.600	173.000	101.00	60.000
41	3:54: 0	2.650	277.000	101.00	104.000
42	3:57: 0	2.700	396.000	101.00	119.000
43	4: 0: 0	2.750	485.000	101.00	89.000
44	4: 3: 0	2.800	535.000	101.00	50.000
45	4: 6: 0	2.850	562.000	101.00	27.000
46	4: 9: 0	2.900	578.000	101.00	16.000
47	4:12: 0	2.950	592.000	101.00	14.000
48	4:15: 0	3.000	600.000	101.00	8.000
49	4:18: 0	3.050	608.000	101.00	8.000
50	4:21: 0	3.100	618.000	101.00	10.000
51	4:24: 0	3.150	630.000	101.00	12.000
52	4:27: 0	3.200	641.000	101.00	11.000

COMPANY : LITTLE NELL OIL CORPORATION  
WELL : #1  
GAUGE # : 10979  
DATE : 20/ 4/87

FIELD : LANGFORD  
JOB # : 13107  
DEPTH : 2175  
TEST :

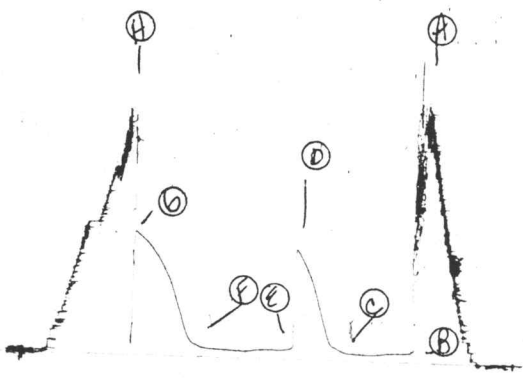
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	4:30: 0	3.250	645.000	101.00	4.000
54	4:33: 0	3.300	649.000	101.00	4.000
55	4:36: 0	3.350	651.000	101.00	2.000
56	4:39: 0	3.400	655.000	101.00	4.000
57	4:42: 0	3.450	657.000	101.00	2.000
58	4:45: 0	3.500	659.000	101.00	2.000

WESTERN TESTING CO. INC.

OK # 13108

I

h



13108

DST # 2

10979

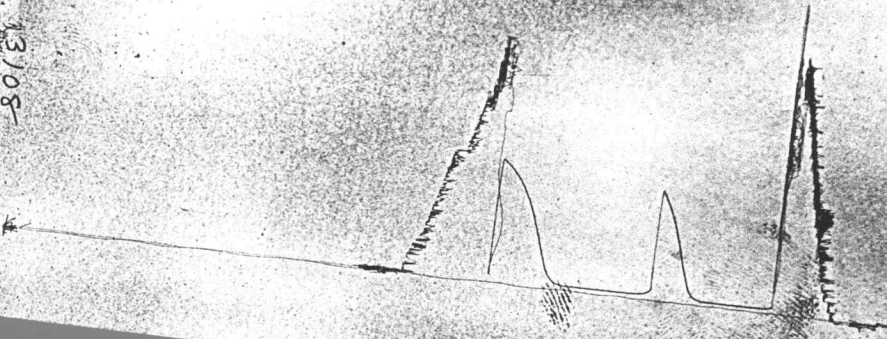
Kit # 13108

0

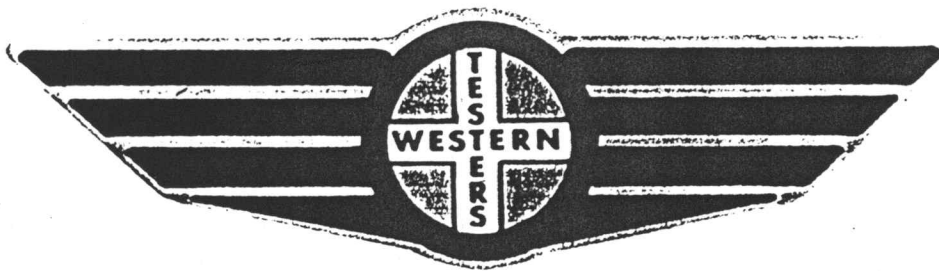
13265

05TH

13108



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 4-21-87 TICKET : 13108  
CUSTOMER : LITTLE NELL OIL CORPORATION LEASE : LANGFORD  
WELL : #1 TEST: 2 GEOLOGIST : D. SEEBER  
ELEVATION : 1197 KB FORMATION : ARBUCKLE  
SECTION : 5 TOWNSHIP : 28S  
RANGE : 10E COUNTY : GREENWOOD STATE : KANSAS  
GAUGE SN# : 10979 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 2510 TO : 2524 TOTAL DEPTH : 2524  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 2510 SIZE : 6.75  
PACKER DEPTH : 2505 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : WHITE & ELLIS RIG #7  
MUD TYPE : CHEMICAL VISCOSITY : 48  
WEIGHT : 9.5 WATER LOSS (CC) : 11.2  
CHLORIDES (PPM) : 1300  
JARS-MAKE : - SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 360 FT I.D. inch : 2.25  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 2130 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 14 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 : WEAK TO VERY WEAK BLOW FOR 30 MINUTES.  
BLOW COMMENT #2 :  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: DRILLING MUD

Total Barrels Fluid = 0.15  
Total Fluid Prod Rate = 2.02 BFPD  
Indicated Wtr Rate = 0.20 BWPD

REMARK 1 :  
REMARK 2 : CHLORIDES: 1500 PPM  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 7:15 PM TIME STARTED OFF BOTTOM : 10:45 PM

WELL TEMPERATURE : 107

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 45

INITIAL CLOSED IN PERIOD MIN: 45

FINAL FLOW PERIOD MIN: 60

FINAL CLOSED IN PERIOD MIN: 60

FINAL HYDROSTATIC PRESSURE

(A) 1303

(B) 39 PSI TO (C) : 39

(D) 603

(E) 45 PSI TO (F) : 45

(G) 677

(H) 1263

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report

COMPANY : LITTLE NELL OIL CORPORATION  
RIG : GREENWOOD-KANSAS  
FIELD : LANGFORD  
WELL : #1  
DATE : 4-21-87  
GAUGE NO : 10979

OPERATIONAL COMMENTS

CHLORIDES: 1500 PPM

COMPANY : LITTLE NELL OIL CORPORATION  
 WELL : #1  
 GAUGE # : 10979  
 DATE : 21/ 4/87

FIELD : LANGFORD  
 JOB # : 13408  
 DEPTH : 2524  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	7:15: 0	0.000	39.000	107.00	0.000
2	7:19:59	0.083	39.000	107.00	0.000
3	7:25: 0	0.167	39.000	107.00	0.000
4	7:30: 0	0.250	39.000	107.00	0.000
5	7:34:59	0.333	39.000	107.00	0.000
6	7:40: 0	0.417	39.000	107.00	0.000
7	7:45: 0	0.500	39.000	107.00	0.000
8	7:49:59	0.583	39.000	107.00	0.000
9	7:55: 0	0.667	39.000	107.00	0.000
10	8: 0: 0	0.750	39.000	107.00	0.000
11	8: 3: 0	0.800	41.000	107.00	2.000
12	8: 6: 0	0.850	45.000	107.00	4.000
13	8: 9: 0	0.900	53.000	107.00	8.000
14	8:12: 0	0.950	64.000	107.00	11.000
15	8:15: 0	1.000	74.000	107.00	10.000
16	8:18: 0	1.050	100.000	107.00	26.000
17	8:21: 0	1.100	172.000	107.00	72.000
18	8:24: 0	1.150	244.000	107.00	72.000
19	8:27: 0	1.200	335.000	107.00	91.000
20	8:30: 0	1.250	404.000	107.00	69.000
21	8:33: 0	1.300	466.000	107.00	62.000
22	8:36: 0	1.350	519.000	107.00	53.000
23	8:39: 0	1.400	557.000	107.00	38.000
24	8:42: 0	1.450	591.000	107.00	34.000
25	8:45: 0	1.500	603.000	107.00	12.000
26	8:46: 0	1.517	45.000	107.00	-558.000
27	8:49:59	1.583	45.000	107.00	0.000
28	8:55: 0	1.667	45.000	107.00	0.000
29	9: 0: 0	1.750	45.000	107.00	0.000
30	9: 4:59	1.833	45.000	107.00	0.000
31	9:10: 0	1.917	45.000	107.00	0.000
32	9:15: 0	2.000	45.000	107.00	0.000
33	9:19:59	2.083	45.000	107.00	0.000
34	9:25: 0	2.167	45.000	107.00	0.000
35	9:30: 0	2.250	45.000	107.00	0.000
36	9:34:59	2.333	45.000	107.00	0.000
37	9:40: 0	2.417	45.000	107.00	0.000
38	9:45: 0	2.500	45.000	107.00	0.000
39	9:48: 0	2.550	48.000	107.00	3.000
40	9:51: 0	2.600	52.000	107.00	4.000
41	9:54: 0	2.650	59.000	107.00	7.000
42	9:57: 0	2.700	69.000	107.00	10.000
43	10: 0: 0	2.750	86.000	107.00	17.000
44	10: 3: 0	2.800	122.000	107.00	36.000
45	10: 6: 0	2.850	196.000	107.00	74.000
46	10: 9: 0	2.900	272.000	107.00	76.000
47	10:12: 0	2.950	338.000	107.00	66.000
48	10:15: 0	3.000	405.000	107.00	67.000
49	10:18: 0	3.050	453.000	107.00	48.000
50	10:21: 0	3.100	495.000	107.00	42.000
51	10:24: 0	3.150	532.000	107.00	37.000
52	10:27: 0	3.200	565.000	107.00	33.000

COMPANY : LITTLE NELL OIL CORPORATION  
WELL : #1  
GAUGE # : 10979  
DATE : 21/ 4/87

FIELD : LANGFORD  
JOB # : 13108  
DEPTH : 2524  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	10:30: 0	3.250	595.000	107.00	30.000
54	10:33: 0	3.300	618.000	107.00	23.000
55	10:36: 0	3.350	640.000	107.00	22.000
56	10:39: 0	3.400	658.000	107.00	18.000
57	10:42: 0	3.450	675.000	107.00	17.000
58	10:45: 0	3.500	677.000	107.00	2.000

WESTERN TESTING CO. INC.