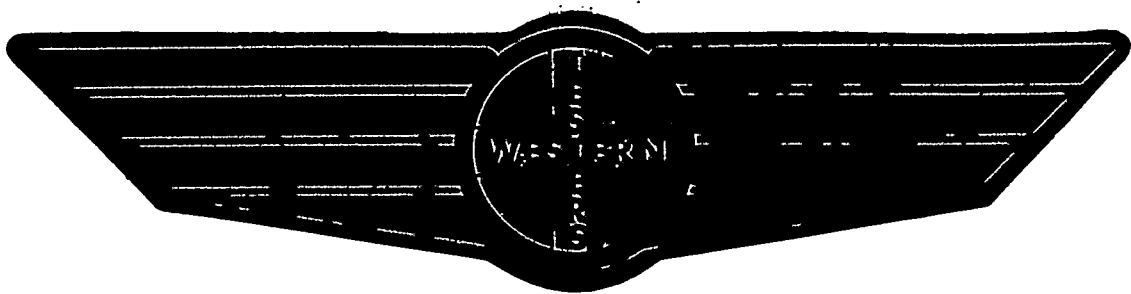


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY NORTHERN LIGHTS OIL COMPANY LEASE & WELL NO. #1 HESKETT SEC. 1 TWP. 7S RGE. 26W TEST NO. 1 DATE 12/2/86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-2-86 TICKET : 12304
CUSTOMER : NORTHERN LIGHTS OIL CO. LEASE : HISKETT
WELL : #1 TEST: 1 GEOLOGIST : K. SMITH
ELEVATION : 2584 KB FORMATION : TOR-LANS A
SECTION : 1 TOWNSHIP : 7S
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS
GAUGE SN# : 1566 RANGE : 4300 CLOCK : 12

INTERVAL FROM : 3658 TO : 3705 TOTAL DEPTH : 3705
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3653 SIZE : 6.75
PACKER DEPTH : 3658 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG #1
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.4 WATER LOSS (CC) : 8
CHLORIDES (PPM) : 2000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3338 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 47 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-2" IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-VERY WEAK BLOW-1/2" IN BUCKET.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTERS, INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : NORTHERN LIGHTS OIL CO.
RIG : SHERIDAN-KANSAS
FIELD : HISKETT
WELL : #1
DATE : 12-2-86
GAUGE NO : 1566

OPERATIONAL COMMENTS

FLUSHED TOOL FINAL FLOW
CHLORIDES: 3000 PPM

RECOVERED : 70 FT OF: OIL CUT MUD-10%OIL-90%MUD

Total Barrels Fluid = 0.33
Total Fluid Prod Rate = 11.85 BFPD
Indicated Oil Rate = 5.92 BOPD
Indicated Wtr Rate = 9.65 BWPD
Corrected Oil Rate = 11.86 BOPD
Corrected Wtr Rate = 19.32 BWPD

REMARK 1 : FLUSHED TOOL FINAL FLOW

REMARK 2 : CHLORIDES: 3000 PPM

REMARK 3 :

REMARK 4 :

SET PACKER(S) : 11:15 PM

TIME STARTED OFF BOTTOM : 12:25 AM

WELL TEMPERATURE : 114

INITIAL HYDROSTATIC PRESSURE

(A) 1852

INITIAL FLOW PERIOD MIN: 30

(B) 48 PSI TO (C) : 48

INITIAL CLOSED IN PERIOD MIN: 30

(D) 937

FINAL FLOW PERIOD MIN: 10

(E) 91 PSI TO (F) : 79

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

FINAL HYDROSTATIC PRESSURE

(H) 1826

COMPANY : NORTHERN LIGHTS OIL CO.
WELL : #1
GAUGE # : 1566
DATE : 2/12/86

FIELD : HISKETT
JOB # : 12304
DEPTH : 3705
TEST : FLUSHED TOOL FINAL FLOW

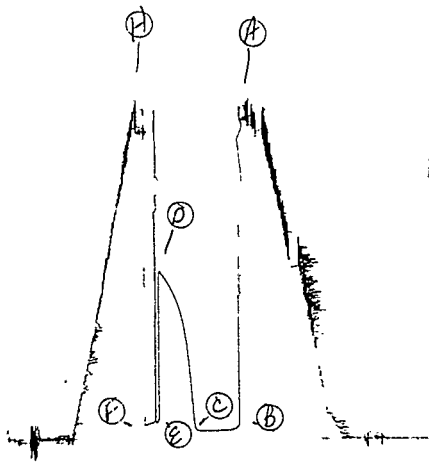
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	11:15: 0	0.000	48.000	45.56	0.000
2	11:19:60	0.083	48.000	45.56	0.000
3	11:25: 1	0.167	48.000	45.56	0.000
4	11:30: 0	0.250	48.000	45.56	0.000
5	11:34:60	0.333	48.000	45.56	0.000
6	11:40: 1	0.417	48.000	45.56	0.000
7	11:45: 0	0.500	48.000	45.56	0.000
8	11:48: 0	0.550	88.000	45.56	40.000
9	11:51: 0	0.600	289.000	45.56	201.000
10	11:54: 0	0.650	480.000	45.56	191.000
11	11:57: 0	0.700	615.000	45.56	135.000
12	12: 0: 0	0.750	709.000	45.56	94.000
13	12: 3: 0	0.800	776.000	45.56	67.000
14	12: 6: 0	0.850	825.000	45.56	49.000
15	12: 9: 0	0.900	871.000	45.56	46.000
16	12:12: 0	0.950	903.000	45.56	32.000
17	12:15: 0	1.000	937.000	45.56	34.000
18	12:19:60	1.083	90.000	45.56	-847.000
19	12:25: 1	1.167	79.000	45.56	-11.000

WESTERN TESTERS INC.

1566

NORTHERN LIGHTS
DIST 1.

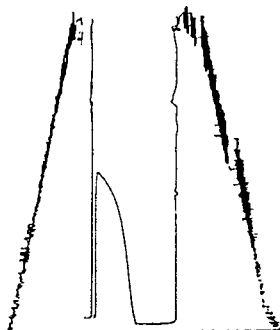
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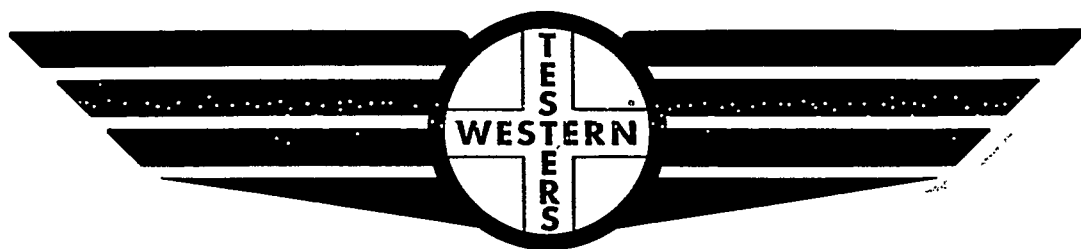
13629

Northern Lights
PST 1
1978

SK # 12304
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY NORTHERN LIGHTS OIL COMPANY LEASE & WELL NO. #1 HESKETT SEC. 1 TWP. 7S RGE. 26W TEST NO. 2 DATE 12/3/86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-3-86 TICKET : 12305
CUSTOMER : NORTHERN LIGHTS OIL CO. LEASE : HESKETT
WELL : #1 TEST: 2 GEOLOGIST : K. SMITH
ELEVATION : 2584 KB FORMATION : LANSING B
SECTION : 1 TOWNSHIP : 7S
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS
GAUGE SN# : 1566 RANGE : 4300 CLOCK : 12

INTERVAL FROM : 3712 TO : 3730 TOTAL DEPTH : 3730
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3707 SIZE : 6.75
PACKER DEPTH : 3712 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG #1
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.4 WATER LOSS (CC) : 7.8
CHLORIDES (PPM) : 2000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3392 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 18 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 6 MINUTES
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 14 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 15 FT OF: FREE OIL-GRAVITY 36 @ 66 DEG.
RECOVERED : 600 FT OF: MUDDY WATER WITH SCUM-OF OIL

Total Barrels Fluid = 5.83
Total Fluid Prod Rate = 139.89 BFPD
Indicated Oil Rate = 3.64 BOPD
Indicated Wtr Rate = 133.75 BWPD
Corrected Oil Rate = 106.96 BOPD
Corrected Wtr Rate = 3930.65 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES: 44000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 9:55 AM TIME STARTED OFF BOTTOM : 11:55 AM
WELL TEMPERATURE : 114
INITIAL HYDROSTATIC PRESSURE (A) 1915
INITIAL FLOW PERIOD MIN: 30 (B) 108 PSI TO (C) : 195
INITIAL CLOSED IN PERIOD MIN: 33 (D) 997
FINAL FLOW PERIOD MIN: 30 (E) 250 PSI TO (F) : 280
FINAL CLOSED IN PERIOD MIN: 33 (G) 988
FINAL HYDROSTATIC PRESSURE (H) 1869

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : NORTHERN LIGHTS OIL CO.
RIG : SHERIDAN-KANSAS
FIELD : HESKETT
WELL : #1
DATE : 12-3-86
GAUGE NO : 1566

OPERATIONAL COMMENTS

CHLORIDES: 44000 PPM

COMPANY : NORTHERN LIGHTS OIL CO.
WELL : #1
GAUGE # : 1566
DATE : 3/12/86

FIELD : HESKETT
JOB # : 12305
DEPTH : 3730
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	9:55: 0	0.000	108.000	45.56	0.000
2	9:59:60	0.083	108.000	45.56	0.000
3	10: 5: 1	0.167	117.000	45.56	9.000
4	10:10: 0	0.250	144.000	45.56	27.000
5	10:14:60	0.333	159.000	45.56	15.000
6	10:20: 1	0.417	179.000	45.56	20.000
7	10:25: 0	0.500	195.000	45.56	16.000
8	10:28: 0	0.550	696.000	45.56	501.000
9	10:31: 0	0.600	815.000	45.56	119.000
10	10:34: 0	0.650	868.000	45.56	53.000
11	10:37: 0	0.700	904.000	45.56	36.000
12	10:40: 0	0.750	928.000	45.56	24.000
13	10:43: 0	0.800	946.000	45.56	18.000
14	10:46: 0	0.850	961.000	45.56	15.000
15	10:49: 0	0.900	971.000	45.56	10.000
16	10:52: 0	0.950	982.000	45.56	11.000
17	10:55: 0	1.000	991.000	45.56	9.000
18	10:58: 0	1.050	997.000	45.56	6.000
19	10:59: 1	1.067	250.000	45.56	-747.000
20	11: 2:60	1.133	250.000	45.56	0.000
21	11: 8: 1	1.217	250.000	45.56	0.000
22	11:13: 0	1.300	253.000	45.56	3.000
23	11:17:60	1.383	262.000	45.56	9.000
24	11:23: 1	1.467	273.000	45.56	11.000
25	11:28: 0	1.550	280.000	45.56	7.000
26	11:31: 0	1.600	766.000	45.56	486.000
27	11:34: 0	1.650	838.000	45.56	72.000
28	11:37: 0	1.700	881.000	45.56	43.000
29	11:40: 0	1.750	907.000	45.56	26.000
30	11:43: 0	1.800	926.000	45.56	19.000
31	11:46: 0	1.850	941.000	45.56	15.000
32	11:49: 0	1.900	954.000	45.56	13.000
33	11:52: 0	1.950	965.000	45.56	11.000
34	11:55: 0	2.000	973.000	45.56	8.000
35	11:58: 0	2.050	980.000	45.56	7.000
36	12: 1: 0	2.100	988.000	45.56	8.000

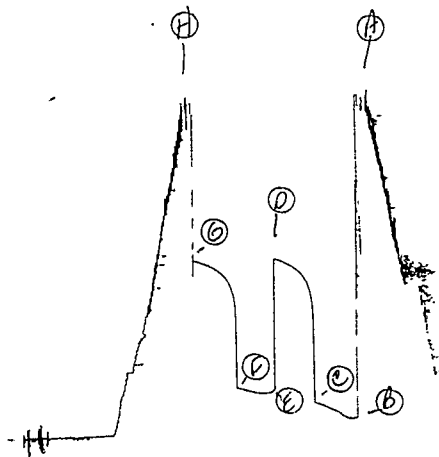
WESTERN TESTERS INC.

1564

Northern Lights
Dist 2

Alt # 12305

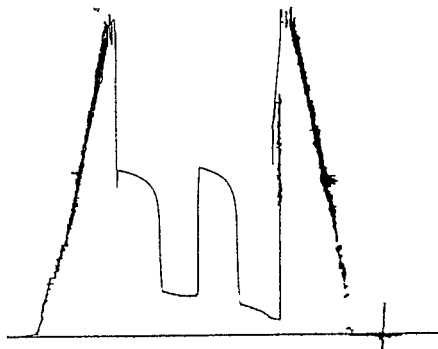
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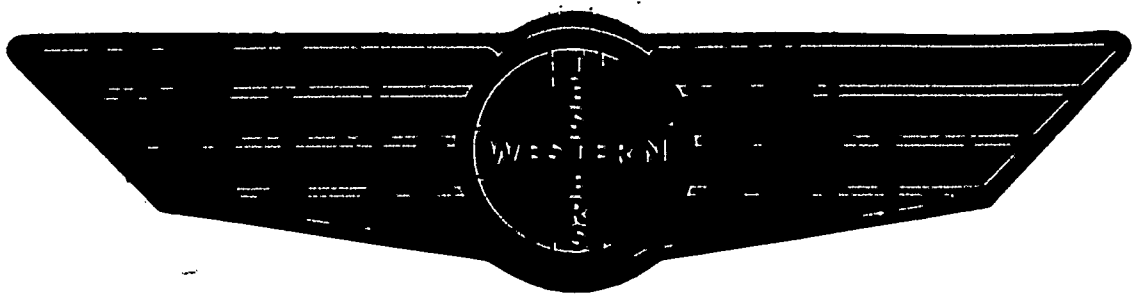
13629

Northern Lights
DST

Alt # 12305
O



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY NORTHERN LIGHTS OIL COMPANY LEASE & WELL NO. #1 HESKETT SEC. 1 TWP. 7S RGE. 26W TEST NO. 3 DATE 12/3/86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-3-86 TICKET : 12306
CUSTOMER : NORTHERN LIGHTS OIL CO. LEASE : HESKETT
WELL : #1 TEST: 3 GEOLOGIST : K. SMITH
ELEVATION : 2584 KB FORMATION : LANS. D-E-F
SECTION : 1 TOWNSHIP : 7S
RANGE : 26W COUNTY : SHERIDAN STATE : KANSAS
GAUGE SN# : 1566 RANGE : 4300 CLOCK : 12

INTERVAL FROM : 3734 TO : 3771 TOTAL DEPTH : 3771
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3729 SIZE : 6.75
PACKER DEPTH : 3734 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG #1
MUD TYPE : CHEMICAL VISCOSITY : 44
WEIGHT : 9.2 WATER LOSS (CC) : 7.6
CHLORIDES (PPM) : 2000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3414 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 37 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 5 MINUTES
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET IN 10 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 820 FT OF: MUDDY WATER

Total Barrels Fluid = 8.70
Total Fluid Prod Rate = 208.90 BFPD
Indicated Wtr Rate = 198.71 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES: 48000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	12:30 AM	TIME STARTED OFF BOTTOM :	2:30 AM
WELL TEMPERATURE :	115		
INITIAL HYDROSTATIC PRESSURE		(A)	1919
INITIAL FLOW PERIOD MIN:	30	(B)	101 PSI TO (C) : 250
INITIAL CLOSED IN PERIOD MIN:	30	(D)	1002
FINAL FLOW PERIOD MIN:	30	(E)	313 PSI TO (F) : 378
FINAL CLOSED IN PERIOD MIN:	30	(G)	960
FINAL HYDROSTATIC PRESSURE		(H)	1882

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : NORTHERN LIGHTS OIL CO.
RIG : SHERIDAN-KANSAS
FIELD : HESKETT
WELL : #1
DATE : 12-3-86
GAUGE NO : 1566

OPERATIONAL COMMENTS

CHLORIDES: 48000 PPM

COMPANY : NORTHERN LIGHTS OIL CO.
WELL : #1
GAUGE # : 1566
DATE : 3/12/86

FIELD : HESKETT
JOB # : 12306
DEPTH : 3771
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	12:30: 0	0.000	101.000	46.11	0.000
2	12:34:60	0.083	105.000	46.11	4.000
3	12:40: 1	0.167	141.000	46.11	36.000
4	12:45: 0	0.250	170.000	46.11	29.000
5	12:49:60	0.333	196.000	46.11	26.000
6	12:55: 1	0.417	220.000	46.11	24.000
7	13: 0: 0	0.500	250.000	46.11	30.000
8	13: 3: 0	0.550	832.000	46.11	582.000
9	13: 6: 0	0.600	883.000	46.11	51.000
10	13: 9: 0	0.650	916.000	46.11	33.000
11	13:12: 0	0.700	937.000	46.11	21.000
12	13:15: 0	0.750	950.000	46.11	13.000
13	13:18: 0	0.800	965.000	46.11	15.000
14	13:21: 0	0.850	979.000	46.11	14.000
15	13:24: 0	0.900	988.000	46.11	9.000
16	13:27: 0	0.950	995.000	46.11	7.000
17	13:30: 0	1.000	1002.000	46.11	7.000
18	13:31: 1	1.017	313.000	46.11	-689.000
19	13:34:60	1.083	313.000	46.11	0.000
20	13:40: 1	1.167	317.000	46.11	4.000
21	13:45: 0	1.250	332.000	46.11	15.000
22	13:49:60	1.333	348.000	46.11	16.000
23	13:55: 1	1.417	365.000	46.11	17.000
24	14: 0: 0	1.500	378.000	46.11	13.000
25	14: 3: 0	1.550	815.000	46.11	437.000
26	14: 6: 0	1.600	858.000	46.11	43.000
27	14: 9: 0	1.650	877.000	46.11	19.000
28	14:12: 0	1.700	896.000	46.11	19.000
29	14:15: 0	1.750	911.000	46.11	15.000
30	14:18: 0	1.800	922.000	46.11	11.000
31	14:21: 0	1.850	933.000	46.11	11.000
32	14:24: 0	1.900	941.000	46.11	8.000
33	14:27: 0	1.950	950.000	46.11	9.000
34	14:30: 0	2.000	960.000	46.11	10.000

WESTERN TESTERS INC.

NATURAL GAS ANALYSIS REPORT
GPA 2145-09

Sampled by:
Trilobite Testing, Inc.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 785-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-624-5389
Fax: 620-626-7108

Lab Number:	20100959	Analyzed:	03/25/10
Sample From:	Guilinger 1	Pressure:	
Producer:	Red Cloud	Temperature:	
Date:		Location:	12-9-19
Time:		County:	Jefferson
Sampler:		State:	Kansas
Source:	Flow Test	Formation:	McLouth

	Mole %	GPM
Helium	He: 0.116	0.000
Hydrogen	H2: 0.083	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.886	0.000
Carbon Dioxide	CO2: 0.429	0.000
Methane	C1: 94.915	0.000
Ethane	C2: 0.185	0.069
Propane	C3: 0.125	0.047
Iso Butane	iC4: 0.057	0.017
Normal Butane	nC4: 0.074	0.024
Iso Pentane	iC5: 0.069	0.019
Normal Pentane	nC5: 0.041	0.011
Hexanes Plus	C6+: 0.020	0.005

TOTAL: 100.000 0.192
Z Fact: 0.9999
SP.GR.: 0.5802
BTU (SAT): 977.4 @ 14.73 psia
BTU (DRY): 994.7 @ 14.73 psia
OCTANE RATING: 123.9

COMMENTS:

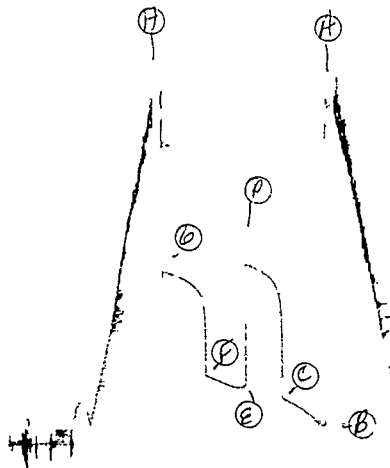
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NORTHERN LIGHTS
DIST 3

TK4 # 12306

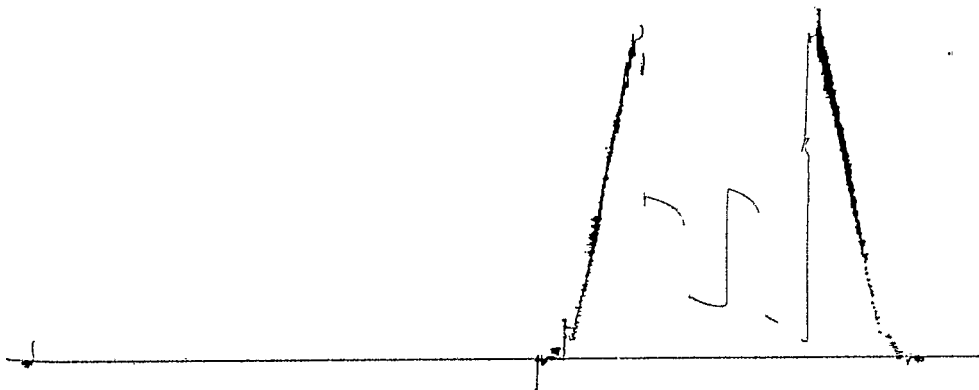
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Northern Lights
P&T 3

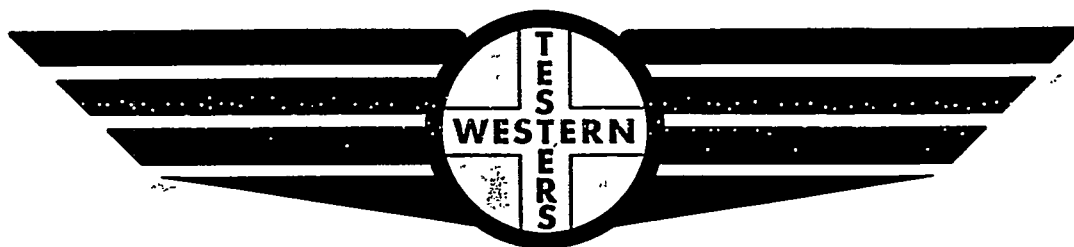
TKT # 12306
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY NORTHERN LIGHTS OIL COMPANY LEASE & WELL NO. #1 HESKETT SEC. 1 TWP. 7S RGE. 26W TEST NO. 4 DATE 12/4/86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 12-4-86	TICKET	: 12307
CUSTOMER	: NORTHERN LIGHTS OIL CO.	LEASE	: HESKETT
WELL	: #1 TEST: 4	GEOLOGIST	: K. SMITH
ELEVATION	: 2584 KB	FORMATION	: LANSING I
SECTION	: 1	TOWNSHIP	: 7S
RANGE	: 26W	COUNTY	: SHERIDAN
GAUGE SN#	: 1566	STATE	: KANSAS
		RANGE	: 4300
		CLOCK	: 12

INTERVAL FROM	: 3824	TO	: 3855	TOTAL DEPTH	: 3855
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3819	SIZE	: 6.75		
PACKER DEPTH	: 3824	SIZE	: 6.75		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: MALLARD DRILLING RIG #1		
MUD TYPE	: CHEMICAL	VISCOSITY	: 44
WEIGHT	: 9.3	WATER LOSS (CC)	: 8.2
CHLORIDES (PPM)	: 2000		
JARS-MAKE	:	SERIAL NUMBER	:
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 300 FT	I.D. inch	: 2.20
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3504 FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 20 FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 31 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 BUILDING TO STRONG BLOW
BLOW COMMENT #2 : OFF BOTTOM OF BUCKET IN 25 MINUTES.
BLOW COMMENT #3 : FINAL FLOW- WEAK BLOW BUILDING TO STRONG BLOW
BLOW COMMENT #4 : OFF BOTTOM OF BUCKET IN 25 MINUTES.

RECOVERED : 300 FT OF: MUD CUT OIL(20%M-70%O-10%G)

Total Barrels Fluid = 1.41
Total Fluid Prod Rate = 27.08 BFPD
Indicated Oil Rate = 18.96 BOPD
Indicated Wtr Rate = 4.87 BWPD
Corrected Oil Rate = 21.70 BOPD
Corrected Wtr Rate = 5.58 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 4:45 PM

TIME STARTED OFF BOTTOM : 7:15 PM

WELL TEMPERATURE : 116

INITIAL HYDROSTATIC PRESSURE

(A) 1978

INITIAL FLOW PERIOD MIN: 30

(B) 59 PSI TO (C) : 76

INITIAL CLOSED IN PERIOD MIN: 33

(D) 1297

FINAL FLOW PERIOD MIN: 45

(E) 116 PSI TO (F) : 148

FINAL CLOSED IN PERIOD MIN: 45

(G) 1285

FINAL HYDROSTATIC PRESSURE

(H) 1947

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : NORTHERN LIGHTS OIL CO.
RIG : SHERIDAN-KANSAS
FIELD : HESKETT
WELL : #1
DATE : 12-4-86
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : NORTHERN LIGHTS OIL CO.

FIELD : HESKETT

WELL : #1

JOB # : 12307

GAUGE # : 1566

DEPTH : 3855

DATE : 4/12/86

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	4:45: 0	0.000	59.000	116.00	0.000
2	4:49:59	0.083	59.000	116.00	0.000
3	4:55: 0	0.167	59.000	116.00	0.000
4	5: 0: 0	0.250	59.000	116.00	0.000
5	5: 4:59	0.333	64.000	116.00	5.000
6	5:10: 0	0.417	71.000	116.00	7.000
7	5:15: 0	0.500	76.000	116.00	5.000
8	5:18: 0	0.550	434.000	116.00	358.000
9	5:21: 0	0.600	1012.000	116.00	578.000
10	5:24: 0	0.650	1184.000	116.00	172.000
11	5:27: 0	0.700	1233.000	116.00	49.000
12	5:30: 0	0.750	1251.000	116.00	18.000
13	5:33: 0	0.800	1266.000	116.00	15.000
14	5:36: 0	0.850	1276.000	116.00	10.000
15	5:39: 0	0.900	1283.000	116.00	7.000
16	5:42: 0	0.950	1289.000	116.00	6.000
17	5:45: 0	1.000	1294.000	116.00	5.000
18	5:48: 0	1.050	1297.000	116.00	3.000
19	5:49: 0	1.067	116.000	116.00	-1181.000
20	5:52:59	1.133	116.000	116.00	0.000
21	5:58: 0	1.217	116.000	116.00	0.000
22	6: 3: 0	1.300	119.000	116.00	3.000
23	6: 7:59	1.383	124.000	116.00	5.000
24	6:13: 0	1.467	130.000	116.00	6.000
25	6:18: 0	1.550	135.000	116.00	5.000
26	6:22:59	1.633	138.000	116.00	3.000
27	6:28: 0	1.717	145.000	116.00	7.000
28	6:33: 0	1.800	148.000	116.00	3.000
29	6:36: 0	1.850	433.000	116.00	285.000
30	6:39: 0	1.900	890.000	116.00	457.000
31	6:42: 0	1.950	1135.000	116.00	245.000
32	6:45: 0	2.000	1200.000	116.00	65.000
33	6:48: 0	2.050	1228.000	116.00	28.000
34	6:51: 0	2.100	1242.000	116.00	14.000
35	6:53:59	2.150	1252.000	116.00	10.000
36	6:57: 0	2.200	1259.000	116.00	7.000
37	7: 0: 0	2.250	1265.000	116.00	6.000
38	7: 3: 0	2.300	1271.000	116.00	6.000
39	7: 6: 0	2.350	1276.000	116.00	5.000
40	7: 9: 0	2.400	1281.000	116.00	5.000
41	7:11:59	2.450	1285.000	116.00	4.000
42	7:15: 0	2.500	1285.000	116.00	0.000
43	7:18: 0	2.550	1285.000	116.00	0.000

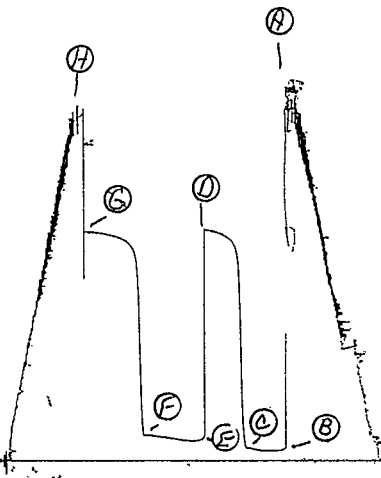
WESTERN TESTERS INC.

1566

TKT 12307

Northern Lights

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Northern Lights
PST 9

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