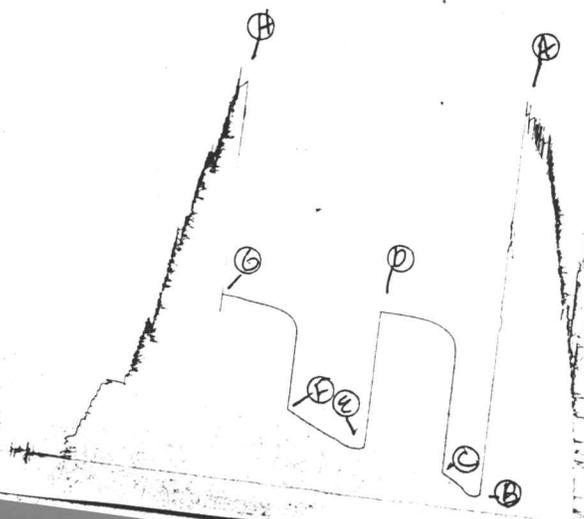


SK # 11545

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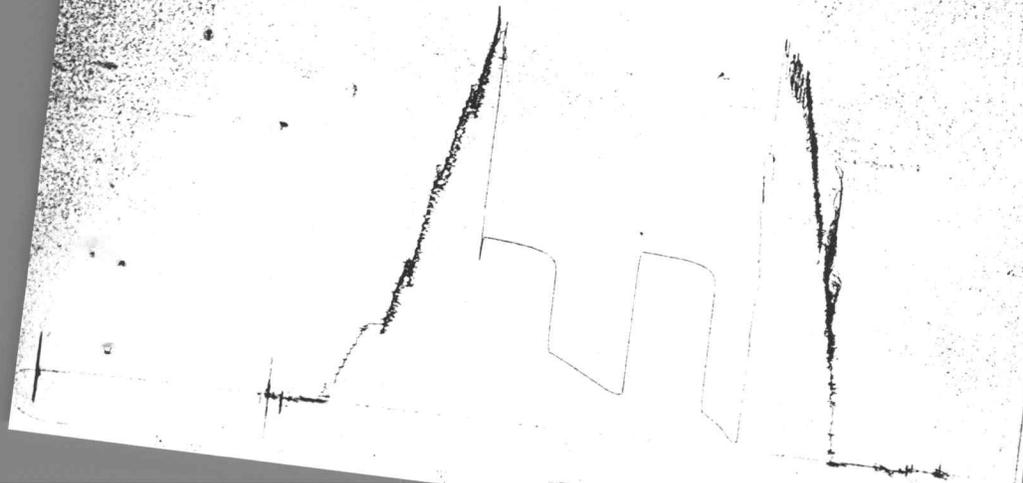
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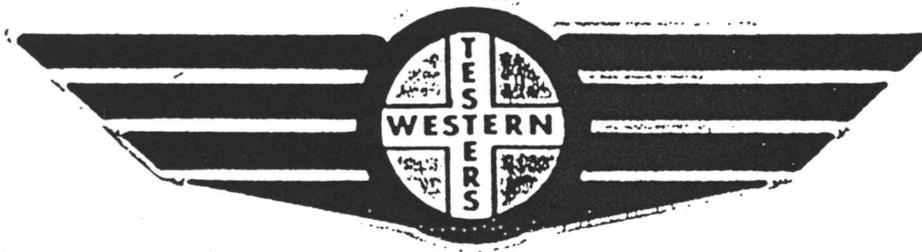
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY ENERGY EXPLORATION, INC. LEASE & WELL NO. HELENA #1 SEC. 23 TWP. 19SRGE. 29MTTEST NO. 1 DATE 9/29/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 9-29-88 TICKET : 11545
CUSTOMER : ENERGY EXPLORATION INC. LEASE : HELENA
WELL : #1 TEST: 1 GEOLOGIST : K ROBERTS
ELEVATION : 2846 KB FORMATION : LKC "J"
SECTION : 23 TOWNSHIP : 19S
RANGE : 29W COUNTY : LANE STATE : KANSAS
GAUGE SN# : 2605 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 4272 TO : 4286 TOTAL DEPTH : 4286
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4268 SIZE : 6.75
PACKER DEPTH : 4272 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BLUE GOOSE RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.5 WATER LOSS (CC) : 8.8
CHLORIDES (PPM) : 2000
JARS-MAKE : NO 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 : 3950 FT I.D. inch : 3.80
TEST TOOL LENGTH : 22 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 : INITIAL FLOW-FAIR BLOW IN WATER BUILDING TO BOTTOM
BLOW COMMENT #2 : OF BUCKET IN 13 MINUTES.
BLOW COMMENT #3 : FINAL FLOW-FAIR BLOW IN WATER BUILDING TO BOTTOM OF
BLOW COMMENT #4 : BUCKET IN 17 MINUTES.

RECOVERED : 990 FT OF: GAS CUT MUDDY WATER
5% GAS-25% MUD-70% WATER

CHLORIDES: 23000 PPM

Total Barrels Fluid = 11.09
Total Fluid Prod Rate = 177.42 BFPD
Indicated Wtr Rate = 124.19 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 2148 FEET OF GAS ABOVE FLUID.
REMARK 3 : WATER HAS STRONG H2S ODOR.
REMARK 4 :

SET PACKER(S) :	9:45 PM	TIME STARTED OFF BOTTOM :	1:15 AM
WELL TEMPERATURE :	128		
INITIAL HYDROSTATIC PRESSURE		(A)	2167
INITIAL FLOW PERIOD MIN:	30	(B)	80 PSI TO (C) : 188
INITIAL CLOSED IN PERIOD MIN:	63	(D)	1026
FINAL FLOW PERIOD MIN:	60	(E)	265 PSI TO (F) : 432
FINAL CLOSED IN PERIOD MIN:	60	(G)	1009
FINAL HYDROSTATIC PRESSURE		(H)	2140

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : HELENA
WELL : #1
DATE : 9-29-88
GAUGE NO : 2605

OPERATIONAL COMMENTS

RECOVERED 2148 FEET OF GAS ABOVE FLUID.
WATER HAS STRONG H2S ODOR.

WELL # : #1

JOB # : 11545

GAUGE # : 2605

DEPTH : 4286

DATE : 29/ 9/88

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	9:45: 0	0.000	80.000	128.00	0.000
3	9:49:59	0.083	80.000	128.00	0.000
4	9:55: 0	0.167	88.000	128.00	8.000
5	10: 0: 0	0.250	123.000	128.00	35.000
6	10: 4:59	0.333	145.000	128.00	22.000
7	10:10: 0	0.417	167.000	128.00	22.000
8	10:15: 0	0.500	188.000	128.00	21.000
INITIAL SHUT-IN					
9	10:18: 0	0.550	694.000	128.00	506.000
10	10:21: 0	0.600	910.000	128.00	216.000
11	10:24: 0	0.650	943.000	128.00	33.000
12	10:27: 0	0.700	962.000	128.00	19.000
13	10:30: 0	0.750	977.000	128.00	15.000
14	10:33: 0	0.800	987.000	128.00	10.000
15	10:36: 0	0.850	996.000	128.00	9.000
16	10:39: 0	0.900	1005.000	128.00	9.000
17	10:42: 0	0.950	1010.000	128.00	5.000
18	10:45: 0	1.000	1014.000	128.00	4.000
19	10:48: 0	1.050	1017.000	128.00	3.000
20	10:51: 0	1.100	1019.000	128.00	2.000
21	10:54: 0	1.150	1021.000	128.00	2.000
22	10:57: 0	1.200	1023.000	128.00	2.000
23	11: 0: 0	1.250	1024.000	128.00	1.000
24	11: 3: 0	1.300	1025.000	128.00	1.000
25	11: 6: 0	1.350	1026.000	128.00	1.000
26	11: 9: 0	1.400	1026.000	128.00	0.000
27	11:12: 0	1.450	1026.000	128.00	0.000
28	11:15: 0	1.500	1026.000	128.00	0.000
29	11:18: 0	1.550	1026.000	128.00	0.000
FINAL FLOW					
30	11:19: 0	1.567	265.000	128.00	-761.000
31	11:22:59	1.633	265.000	128.00	0.000
32	11:28: 0	1.717	265.000	128.00	0.000
33	11:33: 0	1.800	275.000	128.00	10.000
34	11:37:59	1.883	292.000	128.00	17.000
35	11:43: 0	1.967	308.000	128.00	16.000
36	11:48: 0	2.050	321.000	128.00	13.000
37	11:52:59	2.133	340.000	128.00	19.000
38	11:58: 0	2.217	355.000	128.00	15.000
39	12: 3: 0	2.300	371.000	128.00	16.000
40	12: 7:59	2.383	389.000	128.00	18.000
41	12:13: 0	2.467	408.000	128.00	19.000
42	12:18: 0	2.550	432.000	128.00	24.000
FINAL SHUT-IN					
43	12:21: 0	2.600	844.000	128.00	412.000
44	12:23:59	2.650	908.000	128.00	64.000
45	12:27: 0	2.700	933.000	128.00	25.000
46	12:30: 0	2.750	949.000	128.00	16.000
47	12:33: 0	2.800	959.000	128.00	10.000
48	12:36: 0	2.850	966.000	128.00	7.000

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 2605
DATE : 29/ 9/88

FIELD : HELENA
JOB # : 11545
DEPTH : 4286
TEST :

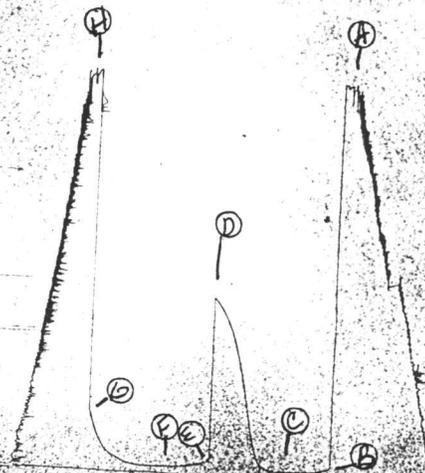
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	12:38:59	2.900			
50	12:42: 0	2.950	970.000	128.00	4.000
51	12:45: 0	3.000	975.000	128.00	5.000
52	12:48: 0	3.050	980.000	128.00	5.000
53	12:51: 0	3.100	985.000	128.00	5.000
54	12:54: 0	3.150	988.000	128.00	3.000
55	12:56:59	3.200	991.000	128.00	3.000
56	13: 0: 0	3.250	993.000	128.00	2.000
57	13: 3: 0	3.300	995.000	128.00	2.000
58	13: 6: 0	3.350	997.000	128.00	2.000
59	13: 9: 0	3.400	999.000	128.00	2.000
60	13:11:59	3.450	1002.000	128.00	3.000
61	13:15: 0	3.500	1005.000	128.00	3.000
62	13:18: 0	3.550	1007.000	128.00	2.000
			1009.000	128.00	2.000

WESTERN TESTING CO. INC.

Alt # 11546

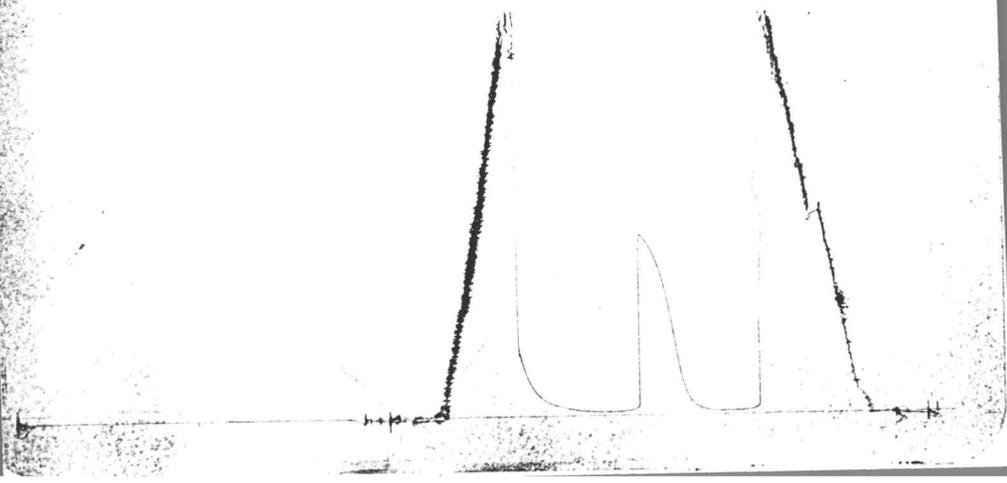
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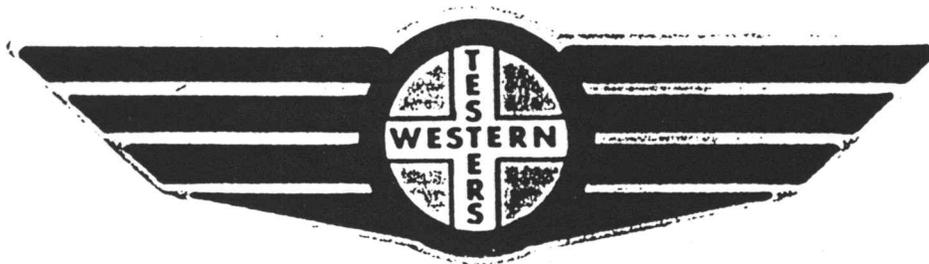


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JK # 11546
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 09-30-88 TICKET : 11546
CUSTOMER : ENERGY EXPLORATION INC. LEASE : HELENA
WELL : #1 TEST: 2 GEOLOGIST : K ROBERTS
ELEVATION : 2846 KB FORMATION : LKC "K"
SECTION : 23 TOWNSHIP : 19S
RANGE : 29W COUNTY : LANE STATE : KANSAS
GAUGE SN# : 2605 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 4294 TO : 4320 TOTAL DEPTH : 4320
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4289 SIZE : 6.75
PACKER DEPTH : 4294 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BLUE GOOSE RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 50
WEIGHT : 9.3 WATER LOSS (CC) : 9.6
CHLORIDES (PPM) : 3000
JARS-MAKE : NO 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 : 3972 FT I.D. inch : 3.80
TEST TOOL LENGTH : 22 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 26 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 IN WATER 1/4" DEEP.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 3 FT OF: FREE OIL
RECOVERED : 30 FT OF: OIL CUT MUD
5% OIL-95% MUD

CHLORIDES: 3000 PPM

Total Barrels Fluid = 0.16
Total Fluid Prod Rate = 3.72 BFPD
Indicated Oil Rate = 0.51 BOPD
Indicated Wtr Rate = 0.34 BWPD

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

SET PACKER(S) : 3:25 PM
WELL TEMPERATURE : 123
INITIAL HYDROSTATIC PRESSURE (A) 2168
INITIAL FLOW PERIOD MIN: 30 (B) 44 PSI TO (C) : 36
INITIAL CLOSED IN PERIOD MIN: 60 (D) 979
FINAL FLOW PERIOD MIN: 30 (E) 54 PSI TO (F) : 37
FINAL CLOSED IN PERIOD MIN: 60 (G) 328
FINAL HYDROSTATIC PRESSURE (H) 2168
TIME STARTED OFF BOTTOM : 6:25 PM

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : HELENA
WELL : #1
DATE : 09-30-88
GAUGE NO : 2605

OPERATIONAL COMMENTS

COMPANY : ENERGY EXPLORATION INC.
 WELL : #1
 GAUGE # : 2605
 DATE : 30/ 9/88

FIELD : HELENA
 JOB # : 11546
 DEPTH : 4320
 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	3:25: 0	0.000	44.000	123.00	0.000
3	3:29:59	0.083	44.000	123.00	0.000
4	3:35: 0	0.167	44.000	123.00	0.000
5	3:40: 0	0.250	40.000	123.00	-4.000
6	3:44:59	0.333	37.000	123.00	-3.000
7	3:50: 0	0.417	36.000	123.00	-1.000
8	3:55: 0	0.500	36.000	123.00	0.000
INITIAL SHUT-IN					
9	3:58: 0	0.550	36.000	123.00	0.000
10	4: 1: 0	0.600	36.000	123.00	0.000
11	4: 4: 0	0.650	36.000	123.00	0.000
12	4: 7: 0	0.700	36.000	123.00	0.000
13	4:10: 0	0.750	39.000	123.00	3.000
14	4:13: 0	0.800	48.000	123.00	9.000
15	4:16: 0	0.850	65.000	123.00	17.000
16	4:19: 0	0.900	99.000	123.00	34.000
17	4:22: 0	0.950	175.000	123.00	76.000
18	4:25: 0	1.000	291.000	123.00	116.000
19	4:28: 0	1.050	410.000	123.00	119.000
20	4:31: 0	1.100	531.000	123.00	121.000
21	4:34: 0	1.150	636.000	123.00	105.000
22	4:37: 0	1.200	719.000	123.00	83.000
23	4:40: 0	1.250	789.000	123.00	70.000
24	4:43: 0	1.300	846.000	123.00	57.000
25	4:46: 0	1.350	887.000	123.00	41.000
26	4:49: 0	1.400	925.000	123.00	38.000
27	4:52: 0	1.450	958.000	123.00	33.000
28	4:55: 0	1.500	979.000	123.00	21.000
FINAL FLOW					
29	4:56: 0	1.517	54.000	123.00	-925.000
30	4:59:59	1.583	54.000	123.00	0.000
31	5: 5: 0	1.667	54.000	123.00	0.000
32	5:10: 0	1.750	46.000	123.00	-8.000
33	5:14:59	1.833	41.000	123.00	-5.000
34	5:20: 0	1.917	37.000	123.00	-4.000
35	5:25: 0	2.000	37.000	123.00	0.000
FINAL SHUT-IN					
36	5:28: 0	2.050	37.000	123.00	0.000
37	5:31: 0	2.100	37.000	123.00	0.000
38	5:34: 0	2.150	37.000	123.00	0.000
39	5:37: 0	2.200	37.000	123.00	0.000
40	5:40: 0	2.250	37.000	123.00	0.000
41	5:43: 0	2.300	37.000	123.00	0.000
42	5:46: 0	2.350	37.000	123.00	0.000
43	5:49: 0	2.400	37.000	123.00	0.000
44	5:52: 0	2.450	40.000	123.00	3.000
45	5:55: 0	2.500	44.000	123.00	4.000
46	5:58: 0	2.550	50.000	123.00	6.000
47	6: 1: 0	2.600	59.000	123.00	9.000
48	6: 4: 0	2.650	70.000	123.00	11.000

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 2605
DATE : 30/ 9/88

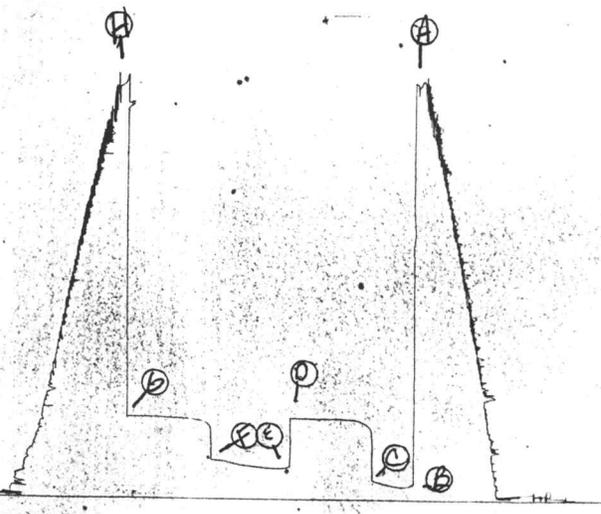
FIELD : HELENA
JOB # : 11546
DEPTH : 4320
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	6: 7: 0	2.700	82.000	123.00	12.000
50	6:10: 0	2.750	95.000	123.00	13.000
51	6:13: 0	2.800	112.000	123.00	17.000
52	6:16: 0	2.850	148.000	123.00	36.000
53	6:19: 0	2.900	190.000	123.00	42.000
54	6:22: 0	2.950	243.000	123.00	53.000
55	6:25: 0	3.000	328.000	123.00	85.000

WESTERN TESTING CO. INC.

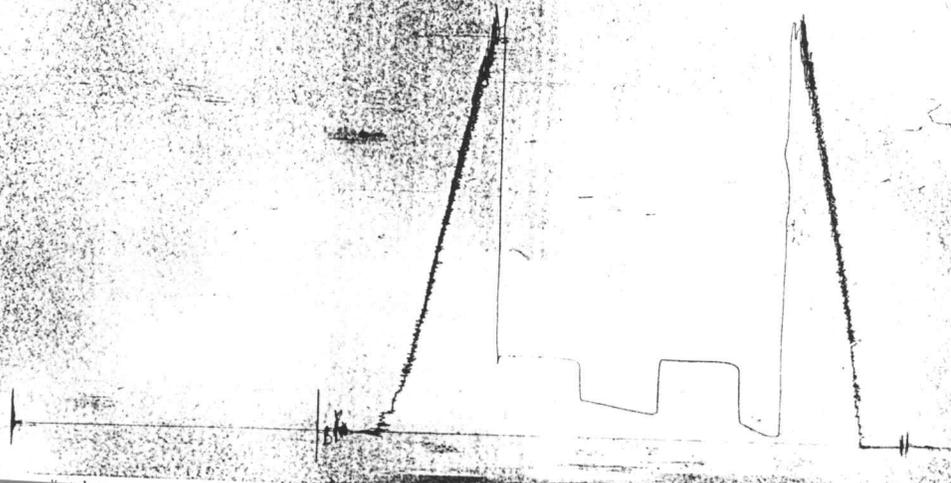
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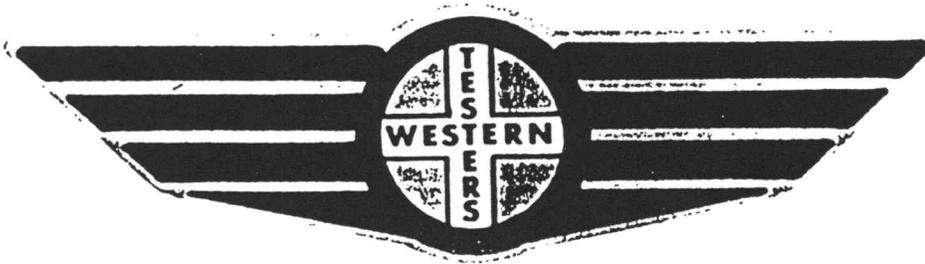


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JK-41547



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 10-1-88 TICKET : 11547
CUSTOMER : ENERGY EXPLORATION INC. LEASE : HELENA
WELL : #1 TEST: 3 GEOLOGIST : K ROBERTS
ELEVATION : 2846 KB FORMATION : ALTAMONT B
SECTION : 23 TOWNSHIP : 19S
RANGE : 29W COUNTY : LANE STATE : KANSAS
GAUGE SN# : 2605 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 4450 TO : 4480 TOTAL DEPTH : 4480
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4445 SIZE : 6.75
PACKER DEPTH : 4450 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BLUE GOOSE RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 47
WEIGHT : 9.4 WATER LOSS (CC) : 9.6
CHLORIDES (PPM) : 3000
JARS-MAKE : NO 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 : 4128 FT I.D. inch : 3.80
TEST TOOL LENGTH : 22 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 30 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 IN WATER-BUILDING TO 7" DEEP
BLOW COMMENT #2 : FINAL FLOW-FAIR BLOW IN WATER-BUILDING TO 5" DEEP.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

* RECOVERED : 87 FT OF: WATER CUT MUD
45% WATER-55% MUD
RECOVERED : 361 FT OF: MUD CUT WATER
10% MUD-90% WATER

CHLORIDES: 23000 PPM

Total Barrels Fluid = 3.49
Total Fluid Prod Rate = 55.78 BFPD
Indicated Wtr Rate = 45.94 BHPD

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

SET PACKER(S) : 8:40 PM

TIME STARTED OFF BOTTOM : 11:10 PM

WELL TEMPERATURE : 126

INITIAL HYDROSTATIC PRESSURE

(A) 2273

INITIAL FLOW PERIOD MIN: 30

(B) 72 PSI TO (C) : 108

INITIAL CLOSED IN PERIOD MIN: 63

(D) 456

FINAL FLOW PERIOD MIN: 60

(E) 176 PSI TO (F) : 221

FINAL CLOSED IN PERIOD MIN: 63

(G) 461

FINAL HYDROSTATIC PRESSURE

(H) 2252

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : HELENA
WELL : #1
DATE : 10-1-88
GAUGE NO : 2605

OPERATIONAL COMMENTS

COMPANY : ENERGY EXPLORATION INC.
 WELL : #1
 GAUGE # : 2605
 DATE : 1/10/88

FIELD : HELENA
 JOB # : 11547
 DEPTH : 4480
 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	8:40: 0	0.000	72.000	126.00	0.000
3	8:44:59	0.083	72.000	126.00	0.000
4	8:50: 0	0.167	72.000	126.00	0.000
5	8:55: 0	0.250	78.000	126.00	6.000
6	8:59:59	0.333	85.000	126.00	7.000
7	9: 5: 0	0.417	95.000	126.00	10.000
8	9:10: 0	0.500	108.000	126.00	13.000
INITIAL SHUT-IN					
9	9:13: 0	0.550	370.000	126.00	262.000
10	9:16: 0	0.600	415.000	126.00	45.000
11	9:19: 0	0.650	430.000	126.00	15.000
12	9:22: 0	0.700	438.000	126.00	8.000
13	9:25: 0	0.750	444.000	126.00	6.000
14	9:28: 0	0.800	449.000	126.00	5.000
15	9:31: 0	0.850	452.000	126.00	3.000
16	9:34: 0	0.900	453.000	126.00	1.000
17	9:37: 0	0.950	453.000	126.00	0.000
18	9:40: 0	1.000	454.000	126.00	1.000
19	9:43: 0	1.050	454.000	126.00	0.000
20	9:46: 0	1.100	454.000	126.00	0.000
21	9:49: 0	1.150	454.000	126.00	0.000
22	9:52: 0	1.200	454.000	126.00	0.000
23	9:55: 0	1.250	454.000	126.00	0.000
24	9:58: 0	1.300	454.000	126.00	0.000
25	10: 1: 0	1.350	455.000	126.00	1.000
26	10: 4: 0	1.400	455.000	126.00	0.000
27	10: 7: 0	1.450	456.000	126.00	1.000
28	10:10: 0	1.500	456.000	126.00	0.000
29	10:13: 0	1.550	456.000	126.00	0.000
FINAL FLOW					
30	10:14: 0	1.567	176.000	126.00	-280.000
31	10:17:59	1.633	176.000	126.00	0.000
32	10:23: 0	1.717	176.000	126.00	0.000
33	10:28: 0	1.800	176.000	126.00	0.000
34	10:32:59	1.883	179.000	126.00	3.000
35	10:38: 0	1.967	184.000	126.00	5.000
36	10:43: 0	2.050	188.000	126.00	4.000
37	10:47:59	2.133	192.000	126.00	4.000
38	10:53: 0	2.217	198.000	126.00	6.000
39	10:58: 0	2.300	207.000	126.00	9.000
40	11: 2:59	2.383	215.000	126.00	8.000
41	11: 8: 0	2.467	220.000	126.00	5.000
42	11:13: 0	2.550	221.000	126.00	1.000
FINAL SHUT-IN					
43	11:16: 0	2.600	413.000	126.00	192.000
44	11:18:59	2.650	432.000	126.00	19.000
45	11:22: 0	2.700	439.000	126.00	7.000
46	11:25: 0	2.750	442.000	126.00	3.000
47	11:28: 0	2.800	446.000	126.00	4.000
48	11:31: 0	2.850	449.000	126.00	3.000

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 2605
DATE : 1/10/88

FIELD : HELENA
JOB # : 11547
DEPTH : 4480
TEST :

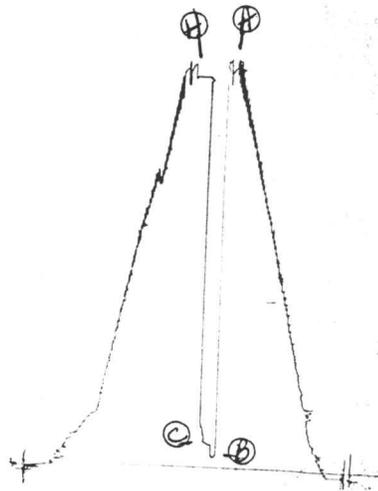
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49	11:33:59	2.900	451.000	126.00	2.000
50	11:37: 0	2.950	452.000	126.00	1.000
51	11:40: 0	3.000	453.000	126.00	1.000
52	11:43: 0	3.050	454.000	126.00	1.000
53	11:46: 0	3.100	455.000	126.00	1.000
54	11:49: 0	3.150	457.000	126.00	2.000
55	11:51:59	3.200	458.000	126.00	1.000
56	11:55: 0	3.250	459.000	126.00	1.000
57	11:58: 0	3.300	460.000	126.00	1.000
58	12: 1: 0	3.350	461.000	126.00	1.000
59	12: 4: 0	3.400	461.000	126.00	0.000
60	12: 6:59	3.450	461.000	126.00	0.000
61	12:10: 0	3.500	461.000	126.00	0.000
62	12:13: 0	3.550	461.000	126.00	0.000
63	12:16: 0	3.600	461.000	126.00	0.000

WESTERN TESTING CO. INC.

JK # 11548

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Site # 11548

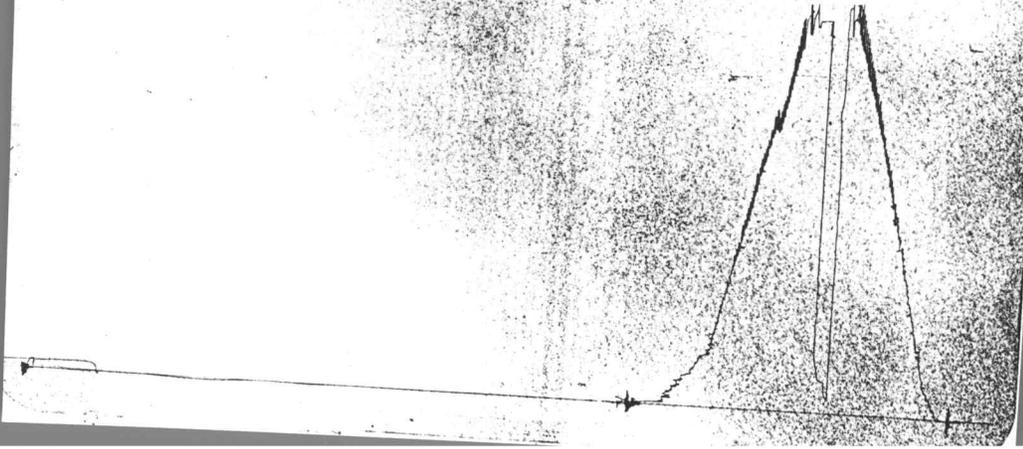
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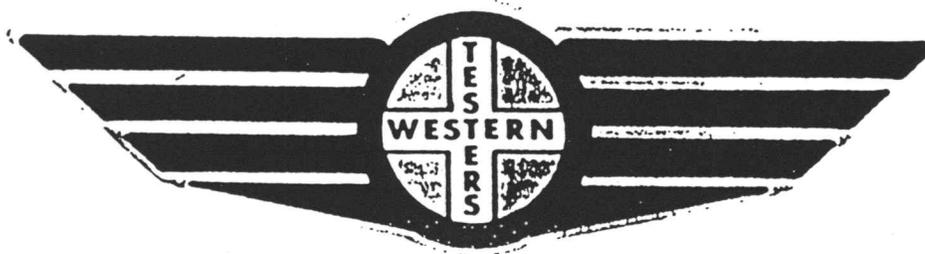
JK # 11548

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 10-2-88
CUSTOMER : ENERGY EXPLORATION INC.
WELL : #1 TEST: 4
ELEVATION : 2846 KB
SECTION : 23
RANGE : 29W COUNTY : LANE
GAUGE SN# : 2605 RANGE : 4150
TICKET : 11548
LEASE : HELENA
GEOLOGIST : K ROBERTS
FORMATION : LKC "H"
TOWNSHIP : 19S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4187 TO : 4227 TOTAL DEPTH : 4700
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4187 SIZE : 6.75
PACKER DEPTH : 4227 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BLUE GOOSE RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 52
WEIGHT : 9.4 WATER LOSS (CC) : 9.6
CHLORIDES (PPM) : 4000
JARS-MAKE : NO 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 : 3870 FT I.D. inch : 3.80
TEST TOOL LENGTH : 17 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 40 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 :
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 488 FT OF: MUD

Total Barrels Fluid = 4.05
Total Fluid Prod Rate = 582.82 BFPD
Indicated Wtr Rate = 58.52 BWPD

REMARK 1 : TOP PACKER HELD FOR ABOUT 2 MINUTES WHEN FLUID STARTED
DROPPING SLOWLY. MORE WEIGHT WAS ADDED-PACKER HELD ANOTHER
FEW MINUTES-STARTED LEAKING- MORE WEIGHT- MUD GONE.

REMARK 2 :

REMARK 3 :

REMARK 4 :

SET PACKER(S) : 5:05 AM

TIME STARTED OFF BOTTOM : 5:30 AM

WELL TEMPERATURE : 122

INITIAL HYDROSTATIC PRESSURE

(A) 2190

INITIAL FLOW PERIOD MIN: 10

(B) 65 PSI TO (C) : 148

INITIAL CLOSED IN PERIOD MIN: 0

(D) 0

FINAL FLOW PERIOD MIN: 0

(E) 0 PSI TO (F) : 0

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

FINAL HYDROSTATIC PRESSURE

(H) 2144

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : HELENA
WELL : #1
DATE : 10-2-88
GAUGE NO : 2605

OPERATIONAL COMMENTS

TOP PACKER HELD FOR ABOUT 2 MINUTES WHEN FLUID STARTED
DROPPING SLOWLY. MORE WEIGHT WAS ADDED-PACKER HELD ANOTHER
FEW MINUTES-STARTED LEAKING- MORE WEIGHT- MUD GONE.

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 2605
DATE : 2/10/88

FIELD : HELENA
JOB # : 11548
DEPTH : 4700
TEST :

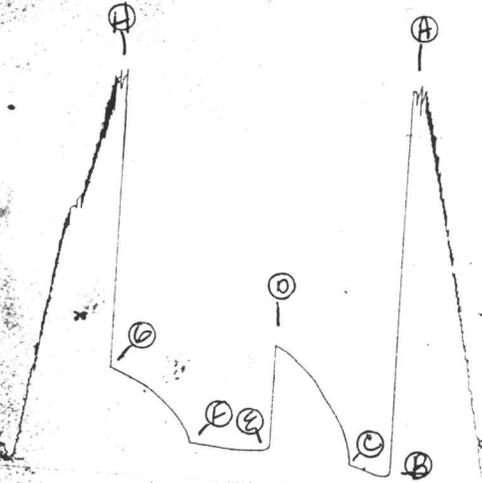
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	5: 5: 0	0.000	65.000	122.00	0.000
2	5: 9:59	0.083	65.000	122.00	0.000
3	5:15: 0	0.167	148.000	122.00	83.000

WESTERN TESTING CO. INC.

JK # 11549

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Jkt # 11549
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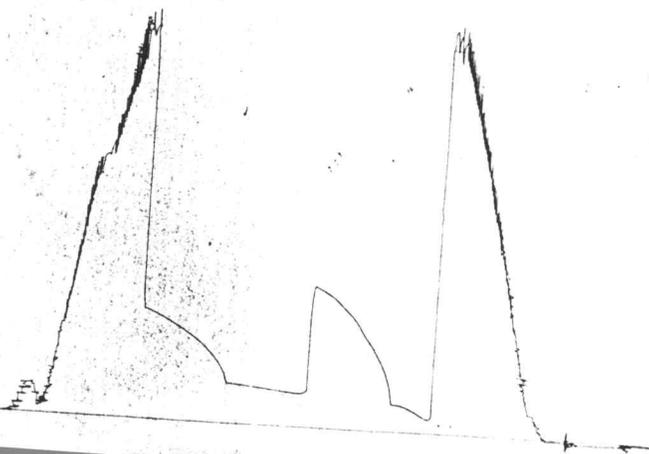
13551



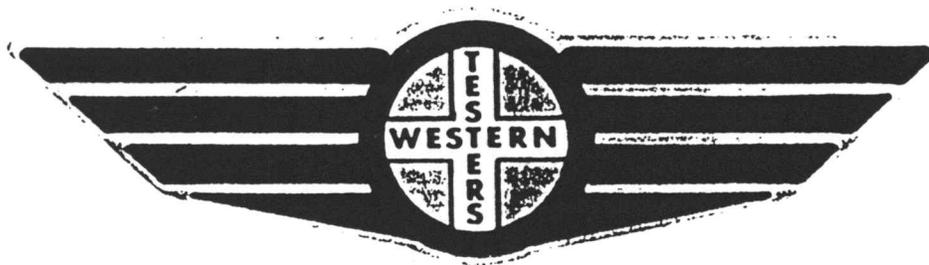
3849

JK # 11549

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 10-3-88 TICKET : 11549
CUSTOMER : ENERGY EXPLORATION INC. LEASE : HELENA
WELL : #1 TEST: 5 GEOLOGIST : K ROBERTS
ELEVATION : 2846 KB FORMATION : LKC "H"
SECTION : 23 TOWNSHIP : 19S
RANGE : 29W COUNTY : LANE STATE : KANSAS
GAUGE SN# : 2605 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 4184 TO : 4227 TOTAL DEPTH : 4700
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4179 SIZE : 6.75
PACKER DEPTH : 4184 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BLUE GOOSE RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 50
WEIGHT : 9.6 WATER LOSS (CC) : 10.4
CHLORIDES (PPM) : 3000
JARS-MAKE : NO 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 : 3862 FT I.D. inch : 3.80
TEST TOOL LENGTH : 22 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 43 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 IN WATER-BUILDING TO
BLOW COMMENT #2 : BOTTOM OF BUCKET IN 14 MINUTES.
BLOW COMMENT #3 : FINAL FLOW-WEAK BLOW IN WATER-BUILDING TO 4" DEEP.
BLOW COMMENT #4 :

RECOVERED : 36 FT OF: OIL CUT MUD
5% OIL-95% MUD
RECOVERED : 120 FT OF: OIL CUT MUD
1% OIL-99% MUD
RECOVERED : 292 FT OF: WATERY MUD WATER
50% WATER-50% MUD

CHLORIDES: 12000 PPM

Total Barrels Fluid = 3.49
Total Fluid Prod Rate = 55.78 BFPD
Indicated Oil Rate = 0.37 BOPD
Indicated Wtr Rate = 21.79 BWPD

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

SET PACKER(S) : 10:35 AM
WELL TEMPERATURE : 122
INITIAL HYDROSTATIC PRESSURE (A) 2194
INITIAL FLOW PERIOD MIN: 30 (B) 86 PSI TO (C) : 135
INITIAL CLOSED IN PERIOD MIN: 63 (D) 769
FINAL FLOW PERIOD MIN: 60 (E) 182 PSI TO (F) : 201
FINAL CLOSED IN PERIOD MIN: 63 (G) 585
FINAL HYDROSTATIC PRESSURE (H) 2163
TIME STARTED OFF BOTTOM : 2:05 PM

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : HELENA
WELL : #1
DATE : 10-3-88
GAUGE NO : 2605

OPERATIONAL COMMENTS

COMPANY : ENERGY EXPLORATION INC.
 WELL : #1
 GAUGE # : 2605
 DATE : 3/10/88

FIELD : HELENA
 JOB # : 11549
 DEPTH : 4700
 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	10:35:00	0.000	86.000	122.00	0.000
3	10:39:59	0.083	86.000	122.00	0.000
4	10:45:00	0.167	89.000	122.00	3.000
5	10:50:00	0.250	101.000	122.00	12.000
6	10:54:59	0.333	114.000	122.00	13.000
7	11:00:00	0.417	124.000	122.00	10.000
8	11:05:00	0.500	135.000	122.00	11.000
INITIAL SHUT-IN					
9	11:08:00	0.550	235.000	122.00	100.000
10	11:11:00	0.600	298.000	122.00	63.000
11	11:14:00	0.650	345.000	122.00	47.000
12	11:17:00	0.700	383.000	122.00	38.000
13	11:20:00	0.750	415.000	122.00	32.000
14	11:23:00	0.800	449.000	122.00	34.000
15	11:26:00	0.850	476.000	122.00	27.000
16	11:29:00	0.900	506.000	122.00	30.000
17	11:32:00	0.950	539.000	122.00	33.000
18	11:35:00	1.000	572.000	122.00	33.000
19	11:38:00	1.050	599.000	122.00	27.000
20	11:41:00	1.100	622.000	122.00	23.000
21	11:44:00	1.150	642.000	122.00	20.000
22	11:47:00	1.200	660.000	122.00	18.000
23	11:50:00	1.250	682.000	122.00	22.000
24	11:53:00	1.300	703.000	122.00	21.000
25	11:56:00	1.350	721.000	122.00	18.000
26	11:59:00	1.400	735.000	122.00	14.000
27	12:02:00	1.450	749.000	122.00	14.000
28	12:05:00	1.500	760.000	122.00	11.000
29	12:08:00	1.550	769.000	122.00	9.000
FINAL FLOW					
30	12:09:00	1.567	182.000	122.00	-587.000
31	12:12:59	1.633	182.000	122.00	0.000
32	12:18:00	1.717	182.000	122.00	0.000
33	12:23:00	1.800	182.000	122.00	0.000
34	12:27:59	1.883	182.000	122.00	0.000
35	12:33:00	1.967	183.000	122.00	1.000
36	12:38:00	2.050	183.000	122.00	0.000
37	12:42:59	2.133	186.000	122.00	3.000
38	12:48:00	2.217	189.000	122.00	3.000
39	12:53:00	2.300	192.000	122.00	3.000
40	12:57:59	2.383	195.000	122.00	3.000
41	13:03:00	2.467	198.000	122.00	3.000
42	13:08:00	2.550	201.000	122.00	3.000
FINAL SHUT-IN					
43	13:11:00	2.600	250.000	122.00	49.000
44	13:13:59	2.650	286.000	122.00	36.000
45	13:17:00	2.700	318.000	122.00	32.000
46	13:20:00	2.750	345.000	122.00	27.000
47	13:23:00	2.800	370.000	122.00	25.000
48	13:26:00	2.850	391.000	122.00	21.000

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 2605
DATE : 3/10/88

FIELD : HELENA
JOB # : 11549
DEPTH : 4700
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	13:28:59	2.900	412.000	122.00	21.000
50	13:32: 0	2.950	431.000	122.00	19.000
51	13:35: 0	3.000	449.000	122.00	18.000
52	13:38: 0	3.050	468.000	122.00	19.000
53	13:41: 0	3.100	483.000	122.00	15.000
54	13:44: 0	3.150	496.000	122.00	13.000
55	13:46:59	3.200	509.000	122.00	13.000
56	13:50: 0	3.250	520.000	122.00	11.000
57	13:53: 0	3.300	531.000	122.00	11.000
58	13:56: 0	3.350	541.000	122.00	10.000
59	13:59: 0	3.400	550.000	122.00	9.000
60	14: 1:59	3.450	560.000	122.00	10.000
61	14: 5: 0	3.500	569.000	122.00	9.000
62	14: 8: 0	3.550	578.000	122.00	9.000
63	14:11: 0	3.600	585.000	122.00	7.000

WESTERN TESTING CO. INC.