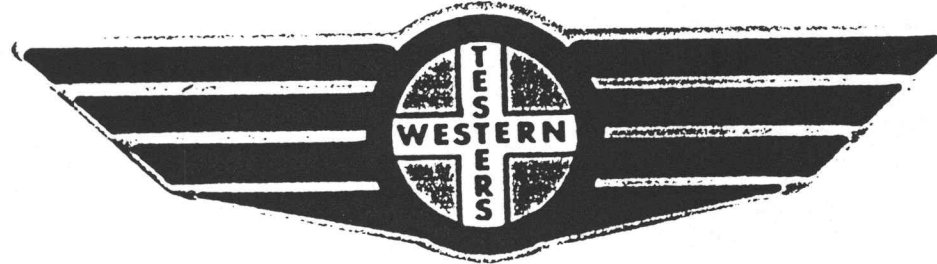


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

ENERGY EXPLORATION, INC.

LEASE & WELL NO.

PAM #1

SEC. 21 TWP. 16S RGE. 29W TEST NO. 1 DATE 9/20/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	9/20/87	TICKET	:	8575
CUSTOMER	:	ENERGY EXPLORATION INC.	LEASE	:	PAM
WELL	:	1	TEST:	:	1
ELEVATION	:		GEOLOGIST	:	HOWARD
SECTION	:	21	FORMATION	:	KANSAS CITY K
RANGE	:	29W	TOWNSHIP	:	15S
GAUGE SN#	:	3849	COUNTY	:	LANE
			STATE	:	KANSAS
			RANGE	:	4200
			CLOCK	:	12

INTERVAL FROM	:	4209	TO	:	4225	TOTAL DEPTH	:	4225
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4204	SIZE	:	6.75			
PACKER DEPTH	:	4209	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 DRLG RIG 7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	47
WEIGHT	:	9.4	WATER LOSS (CC)	:	
CHLORIDES (PPM)	:	1500			
JARS-MAKE	:		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	:	4189	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	16	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD STRONG BLOW INCREASING TO
BLOW COMMENT #2 : BOTTOM OF WATER IN BUCKET IN 25 MINUTES.
BLOW COMMENT #3 : FINAL FLOW PERIOD STRONG BLOW IN WATER INCREASING
BLOW COMMENT #4 : TO BOTTOM OF BUCKET IN 50 MINUTES.

RECOVERED : 30 FT OF: FREE OIL
RECOVERED : 0 FT OF: 36 GRAVITY CORRECTED TO 60 DEGREES F
RECOVERED : 250 FT OF: MUDDY WATER W/FEW OIL SPOTS
RECOVERED : 0 FT OF: 25% MUD; 75% WATER; OIL LESS THAN 1%

Total Barrels Fluid = 3.93
Total Fluid Prod Rate = 62.84 BFPD
Indicated Oil Rate = 6.73 BOPD
Indicated Wtr Rate = 42.08 BWPD
Corrected Oil Rate = 73.62 BOPD
Corrected Wtr Rate = 460.15 BWPD

REMARK 1 :
REMARK 2 : 120 FT. OF GAS ABOVE FLUID
REMARK 3 :
REMARK 4 : CHLORIDES 50000 PPM

SET PACKER(S) : 1:05 PM
WELL TEMPERATURE : 122
INITIAL HYDROSTATIC PRESSURE (A) 2131
INITIAL FLOW PERIOD MIN: 30 (B) 31 PSI TO (C) : 73
INITIAL CLOSED IN PERIOD MIN: 60 (D) 354
FINAL FLOW PERIOD MIN: 60 (E) 106 PSI TO (F) : 151
FINAL CLOSED IN PERIOD MIN: 60 (G) 335
FINAL HYDROSTATIC PRESSURE (H) 2049
TIME STARTED OFF BOTTOM : 4:35 PM

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : PAM
WELL : 1
DATE : 9/20/87
GAUGE NO : 3849

OPERATIONAL COMMENTS

120 FT. OF GAS ABOVE FLUID

CHLORIDES 50000 PPM

COMPANY : ENERGY EXPLORATION INC.
WELL : 1
GAUGE # : 3849
DATE : 20/ 9/87

FIELD : PAM
JOB # : 8575
DEPTH : 4225
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: 5: 0	0.000	31.000	122.00	0.000
2	1: 9:59	0.083	34.000	122.00	3.000
3	1:15: 0	0.167	39.000	122.00	5.000
4	1:20: 0	0.250	52.000	122.00	13.000
5	1:24:59	0.333	62.000	122.00	10.000
6	1:30: 0	0.417	69.000	122.00	7.000
7	1:35: 0	0.500	73.000	122.00	4.000
8	1:38: 0	0.550	265.000	122.00	192.000
9	1:41: 0	0.600	291.000	122.00	26.000
10	1:44: 0	0.650	304.000	122.00	13.000
11	1:47: 0	0.700	315.000	122.00	11.000
12	1:50: 0	0.750	322.000	122.00	7.000
13	1:53: 0	0.800	326.000	122.00	4.000
14	1:56: 0	0.850	328.000	122.00	2.000
15	1:59: 0	0.900	330.000	122.00	2.000
16	2: 2: 0	0.950	332.000	122.00	2.000
17	2: 5: 0	1.000	335.000	122.00	3.000
18	2: 8: 0	1.050	339.000	122.00	4.000
19	2:11: 0	1.100	342.000	122.00	3.000
20	2:14: 0	1.150	344.000	122.00	2.000
21	2:17: 0	1.200	346.000	122.00	2.000
22	2:20: 0	1.250	347.000	122.00	1.000
23	2:23: 0	1.300	349.000	122.00	2.000
24	2:26: 0	1.350	351.000	122.00	2.000
25	2:29: 0	1.400	353.000	122.00	2.000
26	2:32: 0	1.450	354.000	122.00	1.000
27	2:35: 0	1.500	354.000	122.00	0.000
28	2:36: 0	1.517	106.000	122.00	-248.000
29	2:39:59	1.583	106.000	122.00	0.000
30	2:45: 0	1.667	106.000	122.00	0.000
31	2:50: 0	1.750	110.000	122.00	4.000
32	2:54:59	1.833	117.000	122.00	7.000
33	3: 0: 0	1.917	125.000	122.00	8.000
34	3: 5: 0	2.000	130.000	122.00	5.000
35	3: 9:59	2.083	135.000	122.00	5.000
36	3:15: 0	2.167	140.000	122.00	5.000
37	3:20: 0	2.250	146.000	122.00	6.000
38	3:24:59	2.333	148.000	122.00	2.000
39	3:30: 0	2.417	150.000	122.00	2.000
40	3:35: 0	2.500	151.000	122.00	1.000
41	3:38: 0	2.550	247.000	122.00	96.000
42	3:41: 0	2.600	272.000	122.00	25.000
43	3:44: 0	2.650	287.000	122.00	15.000
44	3:47: 0	2.700	298.000	122.00	11.000
45	3:50: 0	2.750	304.000	122.00	6.000
46	3:53: 0	2.800	312.000	122.00	8.000
47	3:56: 0	2.850	314.000	122.00	2.000
48	3:59: 0	2.900	318.000	122.00	4.000
49	4: 2: 0	2.950	320.000	122.00	2.000
50	4: 5: 0	3.000	322.000	122.00	2.000
51	4: 8: 0	3.050	325.000	122.00	3.000
52	4:11: 0	3.100	327.000	122.00	2.000

COMPANY : ENERGY EXPLORATION INC.

WELL : 1

GAUGE # : 3849

DATE : 20/ 9/87

FIELD : PAM

JOB # : 18575

DEPTH : 4225

TEST :

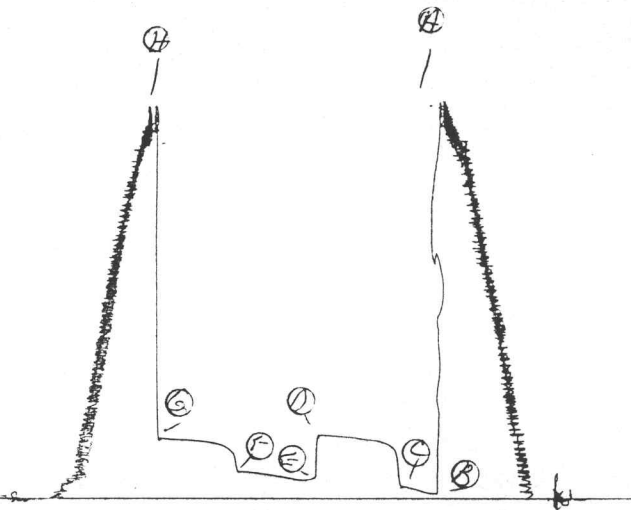
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	4:14: 0	3.150	329.000	122.00	2.000
54	4:17: 0	3.200	329.000	122.00	0.000
55	4:20: 0	3.250	329.000	122.00	0.000
56	4:23: 0	3.300	330.000	122.00	1.000
57	4:26: 0	3.350	331.000	122.00	1.000
58	4:29: 0	3.400	333.000	122.00	2.000
59	4:32: 0	3.450	335.000	122.00	2.000
60	4:35: 0	3.500	335.000	122.00	0.000

WESTERN TESTING CO. INC.

3049

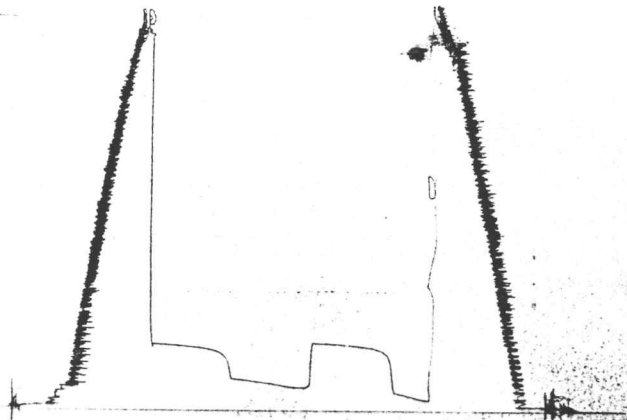
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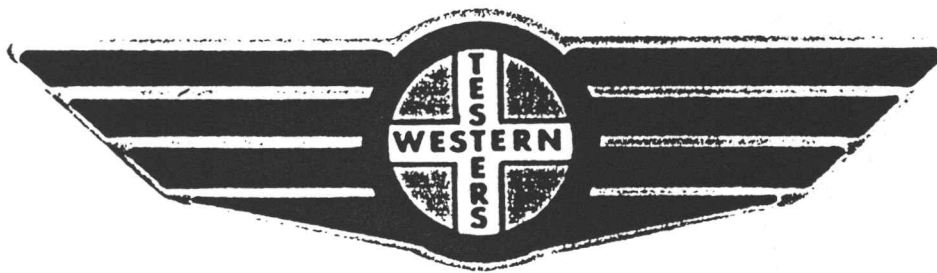


1355

TK 8575
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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. PAM #1 SEC. 21 TWP. 16S RGE. 29W TEST NO. 2 DATE 9/21/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 9/21/87
CUSTOMER : ENERGY EXPLORATION INC.
WELL : 1 TEST: 2
ELEVATION : 2810 KB
SECTION : 21
RANGE : 29W COUNTY : LANE
GAUGE SN# : 3849 RANGE : 4200

TICKET : 11776
LEASE : PAM
GEOLOGIST : HOWARD
FORMATION : MARMATON
TOWNSHIP : 16S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4274 TO : 4396 TOTAL DEPTH : 4396
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4269 SIZE : 6.75
PACKER DEPTH : 4274 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : H-30 DRLG RIG 7
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.4 WATER LOSS (CC) : 10.8
CHLORIDES (PPM) : 2000
JARS-MAKE :
DID WELL FLOW ? : NO SERIAL NUMBER :
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 : 4254 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 122 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW - 1/4 INCH IN
BLOW COMMENT #2 : WATER. DYING IN 15 MINUTES.
BLOW COMMENT #3 : FINAL FLOW PERIOD NO BLOW. FLUSHED TOOL AT
BLOW COMMENT #4 : START OF FLOW PERIOD.

RECOVERED : 15 FT OF: MUD WITH FEW SPOTS OF OIL ON*
RECOVERED : 0 FT OF: TOP OF TOOL

Total Barrels Fluid = 0.21
Total Fluid Prod Rate = 5.05 BFPD
Indicated Wtr Rate = 0.50 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES 3000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 7:10 PM

TIME STARTED OFF BOTTOM : 9:10 PM

WELL TEMPERATURE : 124

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 27

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 30

FINAL HYDROSTATIC PRESSURE

(A) 2119

(B) 22 PSI TO (C) : 22

(D) 52

(E) 48 PSI TO (F) : 27

(G) 36

(H) 2040

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : PAM
WELL : 1
DATE : 9/21/87
GAUGE NO : 3849

OPERATIONAL COMMENTS

CHLORIDES 3000 PPM

COMPANY : ENERGY EXPLORATION INC.
WELL : 1
GAUGE # : 3849
DATE : 21/ 9/87

FIELD : PAM
JOB # : 11776
DEPTH : 4396
TEST :

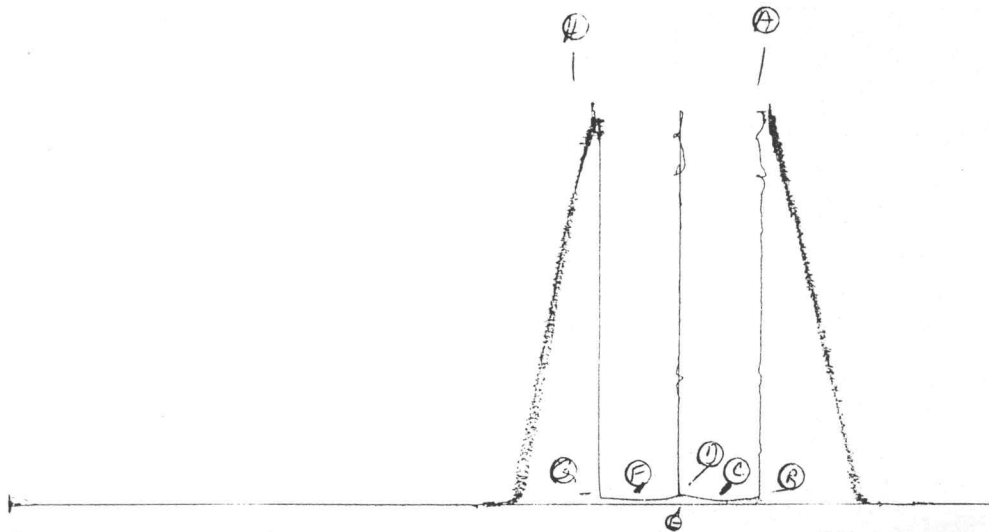
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	7:10: 0	0.000	22.000	124.00	0.000
2	7:14:59	0.083	22.000	124.00	0.000
3	7:20: 0	0.167	22.000	124.00	0.000
4	7:25: 0	0.250	22.000	124.00	0.000
5	7:29:59	0.333	22.000	124.00	0.000
6	7:35: 0	0.417	22.000	124.00	0.000
7	7:40: 0	0.500	22.000	124.00	0.000
8	7:43: 0	0.550	22.000	124.00	0.000
9	7:46: 0	0.600	25.000	124.00	3.000
10	7:49: 0	0.650	28.000	124.00	3.000
11	7:52: 0	0.700	33.000	124.00	5.000
12	7:55: 0	0.750	35.000	124.00	2.000
13	7:58: 0	0.800	40.000	124.00	5.000
14	8: 1: 0	0.850	45.000	124.00	5.000
15	8: 4: 0	0.900	49.000	124.00	4.000
16	8: 7: 0	0.950	52.000	124.00	3.000
17	8: 8: 0	0.967	48.000	124.00	-4.000
18	8:11:59	1.033	43.000	124.00	-5.000
19	8:17: 0	1.117	33.000	124.00	-10.000
20	8:22: 0	1.200	29.000	124.00	-4.000
21	8:26:59	1.283	27.000	124.00	-2.000
22	8:32: 0	1.367	27.000	124.00	0.000
23	8:37: 0	1.450	27.000	124.00	0.000
24	8:40: 0	1.500	27.000	124.00	0.000
25	8:43: 0	1.550	28.000	124.00	1.000
26	8:46: 0	1.600	29.000	124.00	1.000
27	8:49: 0	1.650	30.000	124.00	1.000
28	8:52: 0	1.700	31.000	124.00	1.000
29	8:55: 0	1.750	32.000	124.00	1.000
30	8:58: 0	1.800	33.000	124.00	1.000
31	9: 1: 0	1.850	34.000	124.00	1.000
32	9: 4: 0	1.900	35.000	124.00	1.000
33	9: 7: 0	1.950	36.000	124.00	1.000

WESTERN TESTING CO. INC.

3249

KF 11776

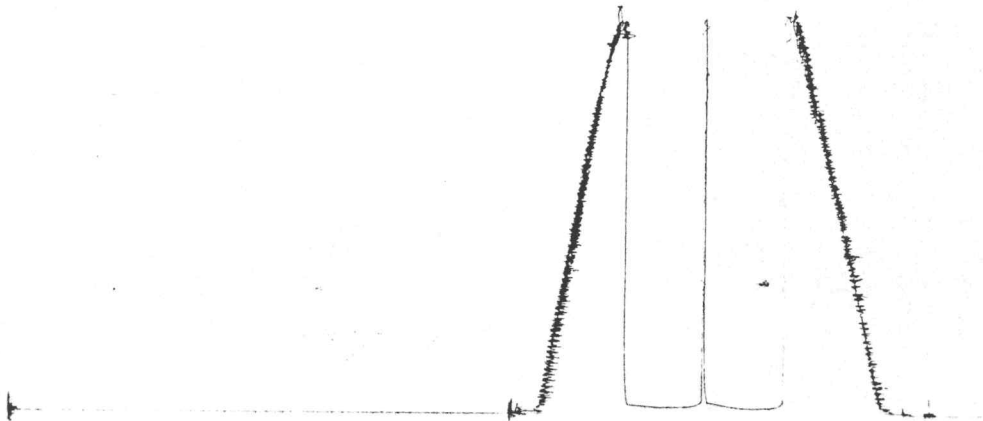
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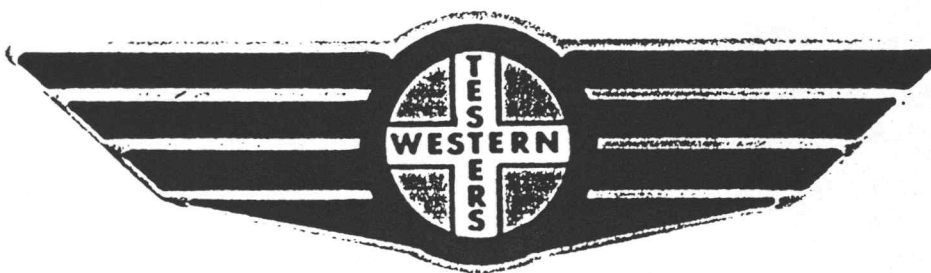
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TKT 11776

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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. PAM #1 SEC. 21 TWP. 16S RGE. 29W TEST NO. 3 DATE 9/22/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	9/22/87	TICKET	:	11777	
CUSTOMER	:	ENERGY EXPLORATION INC.	LEASE	:	PAM	
WELL	:	1	TEST:	:	3	
ELEVATION	:	2810 KB	GEOLOGIST	:	HOWARD	
SECTION	:	21	FORMATION	:	PAWNEE-FT SCOTT	
RANGE	:	29W	TOWNSHIP	:	16S	
GAUGE SN#	:	3849	STATE	:	KANSAS	
		COUNTY :	LANE		CLOCK :	12
		RANGE :	4200			

INTERVAL FROM	:	4418	TO	:	4470	TOTAL DEPTH	:	4470
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4413	SIZE	:	6.75			
PACKER DEPTH	:	4418	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 DRLG RIG 7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	42
WEIGHT	:	9.4	WATER LOSS (CC)	:	
CHLORIDES (PPM)	:	2000			
JARS-MAKE	:		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	:	4398	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	52	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5XH

BLOW COMMENT #1	:	INITIAL FLOW PERIOD WEAK BLOW - 1/2 INCH
BLOW COMMENT #2	:	IN WATER.
BLOW COMMENT #3	:	FINAL FLOW PERIOD NO BLOW.
BLOW COMMENT #4	:	

RECOVERED * : 1 FT OF: FREE OIL
RECOVERED : 29 FT OF: MUD WITH SCUM OF OIL

Total Barrels Fluid = 0.42
Total Fluid Prod Rate = 6.73 BFPD
Indicated Oil Rate = 0.22 BOPD
Indicated Wtr Rate = 0.65 BWPD
Corrected Oil Rate = 2.99 BOPD
Corrected Wtr Rate = 8.68 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES 3000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 4:15 PM
WELL TEMPERATURE : 126
INITIAL HYDROSTATIC PRESSURE
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 63
FINAL FLOW PERIOD MIN: 60
FINAL CLOSED IN PERIOD MIN: 57
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM : 7:45 PM

(A) 2184
(B) 25 PSI TO (C) : 25
(D) 1046
(E) 20 PSI TO (F) : 20
(G) 582
(H) 2146

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : PAM
WELL : 1
DATE : 9/22/87
GAUGE NO : 3849

OPERATIONAL COMMENTS

CHLORIDES 3000 PPM

COMPANY : ENERGY EXPLORATION INC.
WELL : 1
GAUGE # : 3849
DATE : 22/ 9/87

FIELD : PAM
JOB # : 11777
DEPTH : 4470
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	4:15: 0	0.000	25.000	126.00	0.000
2	4:19:59	0.083	25.000	126.00	0.000
3	4:25: 0	0.167	25.000	126.00	0.000
4	4:30: 0	0.250	25.000	126.00	0.000
5	4:34:59	0.333	25.000	126.00	0.000
6	4:40: 0	0.417	25.000	126.00	0.000
7	4:45: 0	0.500	25.000	126.00	0.000
8	4:48: 0	0.550	25.000	126.00	0.000
9	4:51: 0	0.600	28.000	126.00	3.000
10	4:54: 0	0.650	39.000	126.00	11.000
11	4:57: 0	0.700	70.000	126.00	31.000
12	5: 0: 0	0.750	155.000	126.00	85.000
13	5: 3: 0	0.800	277.000	126.00	122.000
14	5: 6: 0	0.850	433.000	126.00	156.000
15	5: 9: 0	0.900	594.000	126.00	161.000
16	5:12: 0	0.950	699.000	126.00	105.000
17	5:15: 0	1.000	782.000	126.00	83.000
18	5:18: 0	1.050	832.000	126.00	50.000
19	5:21: 0	1.100	877.000	126.00	45.000
20	5:24: 0	1.150	915.000	126.00	38.000
21	5:27: 0	1.200	944.000	126.00	29.000
22	5:30: 0	1.250	970.000	126.00	26.000
23	5:33: 0	1.300	987.000	126.00	17.000
24	5:36: 0	1.350	1004.000	126.00	17.000
25	5:39: 0	1.400	1019.000	126.00	15.000
26	5:42: 0	1.450	1032.000	126.00	13.000
27	5:45: 0	1.500	1043.000	126.00	11.000
28	5:48: 0	1.550	1046.000	126.00	3.000
29	5:49: 0	1.567	20.000	126.00	-1026.000
30	5:52:59	1.633	20.000	126.00	0.000
31	5:58: 0	1.717	20.000	126.00	0.000
32	6: 3: 0	1.800	20.000	126.00	0.000
33	6: 7:59	1.883	20.000	126.00	0.000
34	6:13: 0	1.967	20.000	126.00	0.000
35	6:18: 0	2.050	20.000	126.00	0.000
36	6:22:59	2.133	20.000	126.00	0.000
37	6:28: 0	2.217	20.000	126.00	0.000
38	6:33: 0	2.300	20.000	126.00	0.000
39	6:37:59	2.383	20.000	126.00	0.000
40	6:43: 0	2.467	20.000	126.00	0.000
41	6:48: 0	2.550	20.000	126.00	0.000
42	6:51: 0	2.600	25.000	126.00	5.000
43	6:53:59	2.650	27.000	126.00	2.000
44	6:57: 0	2.700	31.000	126.00	4.000
45	7: 0: 0	2.750	36.000	126.00	5.000
46	7: 3: 0	2.800	40.000	126.00	4.000
47	7: 6: 0	2.850	46.000	126.00	6.000
48	7: 8:59	2.900	53.000	126.00	7.000
49	7:12: 0	2.950	60.000	126.00	7.000
50	7:15: 0	3.000	74.000	126.00	14.000
51	7:18: 0	3.050	86.000	126.00	12.000
52	7:21: 0	3.100	102.000	126.00	16.000

COMPANY : ENERGY EXPLORATION INC.
WELL : 1
GAUGE # : 3849
DATE : 22/ 9/87

FIELD : PAM
JOB # : 11777
DEPTH : 4470
TEST :

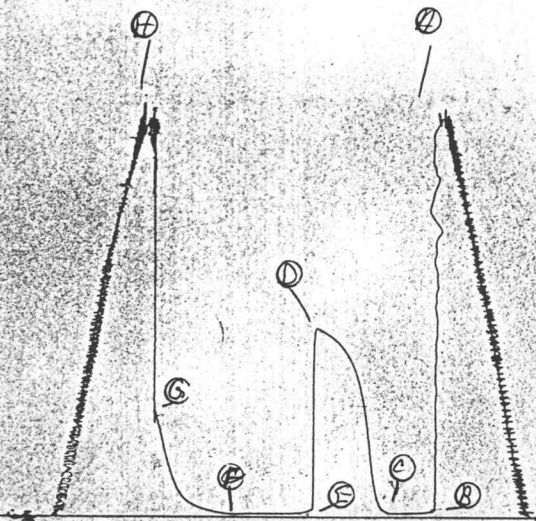
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	7:24: 0	3.150	126.000	126.00	24.000
54	7:26:59	3.200	154.000	126.00	28.000
55	7:30: 0	3.250	206.000	126.00	52.000
56	7:33: 0	3.300	257.000	126.00	51.000
57	7:36: 0	3.350	342.000	126.00	85.000
58	7:39: 0	3.400	427.000	126.00	85.000
59	7:41:59	3.450	513.000	126.00	86.000
60	7:45: 0	3.500	582.000	126.00	69.000

WESTERN TESTING CO. INC.

3849

TK4 11777

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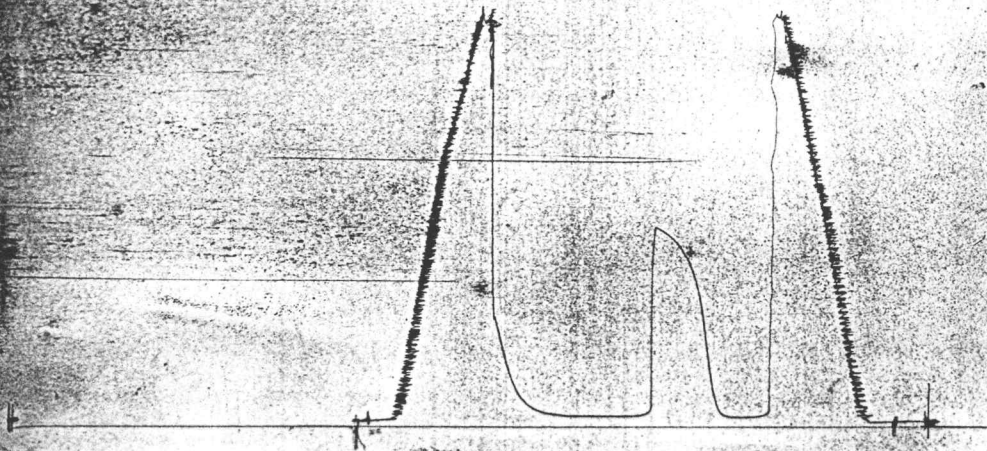


13550

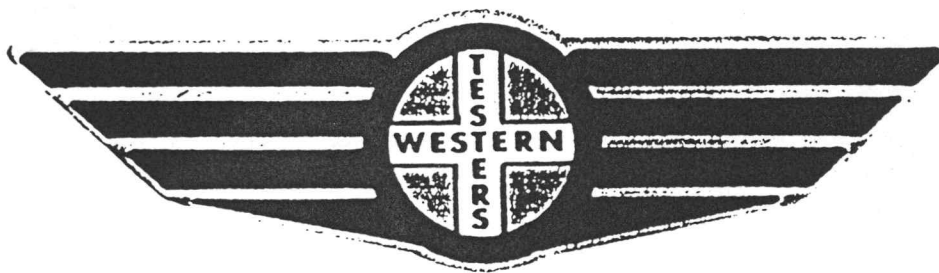
K4

11777

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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	:	9-23-87	TICKET	:	11779	
CUSTOMER	:	ENERGY EXPLORATION INC.	LEASE	:	PAM	
WELL	:	#1	TEST:	:	4	
ELEVATION	:	2810 KB	GEOLOGIST	:	K. HOWARD	
SECTION	:	21	FORMATION	:	LANSING L	
RANGE	:	29W	TOWNSHIP	:	16S	
GAUGE SN#	:	3849	STATE	:	KANSAS	
		COUNTY :	LANE			
		RANGE :	4200	CLOCK	:	12

INTERVAL FROM	:	4238	TO	:	4260	TOTAL DEPTH	:	4614
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4233	SIZE	:	6.75			
PACKER DEPTH	:	4238	SIZE	:	6.75			
PACKER DEPTH	:	4260	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30	RIG #7		
MUD TYPE	:	CHEMICAL	VISCOSITY	:	15
WEIGHT	:	9.4	WATER LOSS (CC)	:	11.2
CHLORIDES (PPM)	:	2000			
JARS-MAKE	:	-	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	:	4218	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	22	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-INCREASING TO BOTTOM OF BUCKET IN 20 MINUTES.

BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW IN WATER-INCREASING TO BOTTOM OF BUCKET IN 55 MINUTES.

BLOW COMMENT #3 :

BLOW COMMENT #4 :

RECOVERED : 368 FT OF: MUDDY WATER
90% WATER-10% WATER
CHLORIDES: 23000 PPM

Total Barrels Fluid = 5.16
Total Fluid Prod Rate = 82.59 BFPD
Indicated Wtr Rate = 74.28 BWPD

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

SET PACKER(S) :	1:50 AM	TIME STARTED OFF BOTTOM :	5:20 AM
WELL TEMPERATURE :	123		
INITIAL HYDROSTATIC PRESSURE		(A)	2184
INITIAL FLOW PERIOD MIN:	30	(B)	47 PSI TO (C) : 83
INITIAL CLOSED IN PERIOD MIN:	60	(D)	409
FINAL FLOW PERIOD MIN:	60	(E)	122 PSI TO (F) : 188
FINAL CLOSED IN PERIOD MIN:	60	(G)	402
FINAL HYDROSTATIC PRESSURE		(H)	2108

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : PAM
WELL : #1
DATE : 9-23-87
GAUGE NO : 3849

OPERATIONAL COMMENTS

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 3849
DATE : 23/ 9/87

FIELD : PAM
JOB # : 11779
DEPTH : 4614
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:50: 0	0.000	47.000	123.00	0.000
2	1:54:59	0.083	47.000	123.00	0.000
3	2: 0: 0	0.167	48.000	123.00	1.000
4	2: 5: 0	0.250	57.000	123.00	9.000
5	2: 9:59	0.333	70.000	123.00	13.000
6	2:15: 0	0.417	81.000	123.00	11.000
7	2:20: 0	0.500	83.000	123.00	2.000
8	2:23: 0	0.550	273.000	123.00	190.000
9	2:26: 0	0.600	317.000	123.00	44.000
10	2:29: 0	0.650	340.000	123.00	23.000
11	2:32: 0	0.700	354.000	123.00	14.000
12	2:35: 0	0.750	365.000	123.00	11.000
13	2:38: 0	0.800	371.000	123.00	6.000
14	2:41: 0	0.850	379.000	123.00	8.000
15	2:44: 0	0.900	383.000	123.00	4.000
16	2:47: 0	0.950	387.000	123.00	4.000
17	2:50: 0	1.000	390.000	123.00	3.000
18	2:53: 0	1.050	393.000	123.00	3.000
19	2:56: 0	1.100	395.000	123.00	2.000
20	2:59: 0	1.150	399.000	123.00	4.000
21	3: 2: 0	1.200	402.000	123.00	3.000
22	3: 5: 0	1.250	404.000	123.00	2.000
23	3: 8: 0	1.300	406.000	123.00	2.000
24	3:11: 0	1.350	408.000	123.00	2.000
25	3:14: 0	1.400	409.000	123.00	1.000
26	3:17: 0	1.450	409.000	123.00	0.000
27	3:20: 0	1.500	409.000	123.00	0.000
28	3:21: 0	1.517	122.000	123.00	-287.000
29	3:24:59	1.583	122.000	123.00	0.000
30	3:30: 0	1.667	122.000	123.00	0.000
31	3:35: 0	1.750	126.000	123.00	4.000
32	3:39:59	1.833	131.000	123.00	5.000
33	3:45: 0	1.917	142.000	123.00	11.000
34	3:50: 0	2.000	151.000	123.00	9.000
35	3:54:59	2.083	160.000	123.00	9.000
36	4: 0: 0	2.167	168.000	123.00	8.000
37	4: 5: 0	2.250	174.000	123.00	6.000
38	4: 9:59	2.333	180.000	123.00	6.000
39	4:15: 0	2.417	186.000	123.00	6.000
40	4:20: 0	2.500	188.000	123.00	2.000
41	4:23: 0	2.550	311.000	123.00	123.000
42	4:26: 0	2.600	334.000	123.00	23.000
43	4:29: 0	2.650	348.000	123.00	14.000
44	4:32: 0	2.700	357.000	123.00	9.000
45	4:35: 0	2.750	367.000	123.00	10.000
46	4:38: 0	2.800	373.000	123.00	6.000
47	4:41: 0	2.850	379.000	123.00	6.000
48	4:44: 0	2.900	384.000	123.00	5.000
49	4:47: 0	2.950	387.000	123.00	3.000
50	4:50: 0	3.000	390.000	123.00	3.000
51	4:53: 0	3.050	393.000	123.00	3.000
52	4:56: 0	3.100	394.000	123.00	1.000

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 3849
DATE : 23/ 9/87

FIELD : PAM
JOB # : 11779
DEPTH : 4614
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	4:59: 0	3.150	395.000	123.00	1.000
54	5: 2: 0	3.200	397.000	123.00	2.000
55	5: 5: 0	3.250	399.000	123.00	2.000
56	5: 8: 0	3.300	400.000	123.00	1.000
57	5:11: 0	3.350	401.000	123.00	1.000
58	5:14: 0	3.400	402.000	123.00	1.000
59	5:17: 0	3.450	402.000	123.00	0.000
60	5:20: 0	3.500	402.000	123.00	0.000

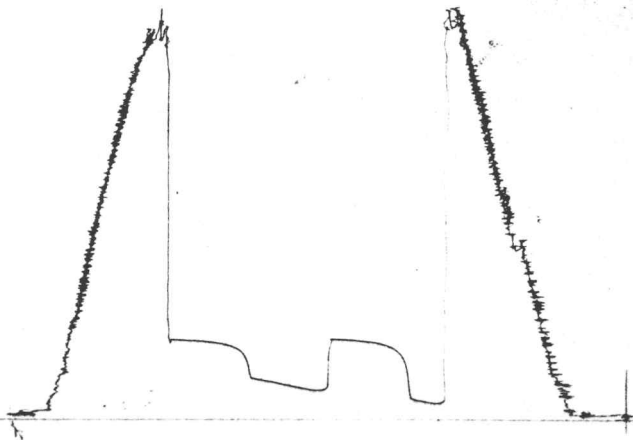
WESTERN TESTING CO. INC.

13550

DST #4

Sk # 11779

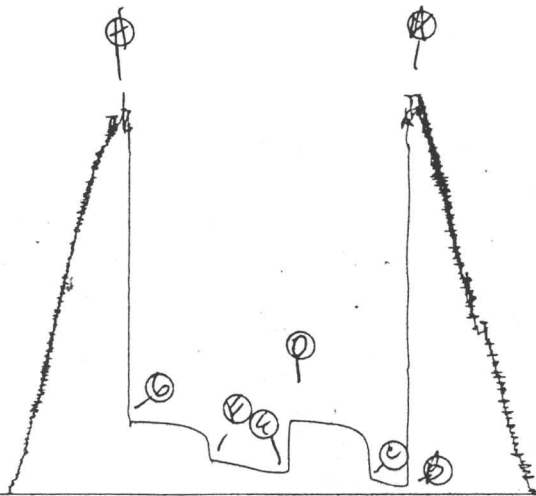
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3849.

DST # 4

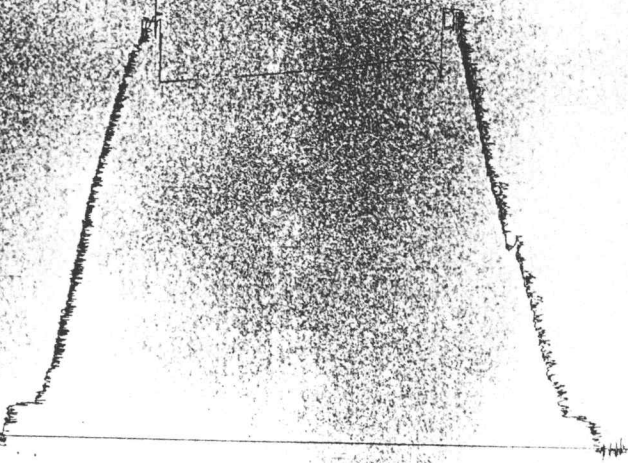
St # 11779
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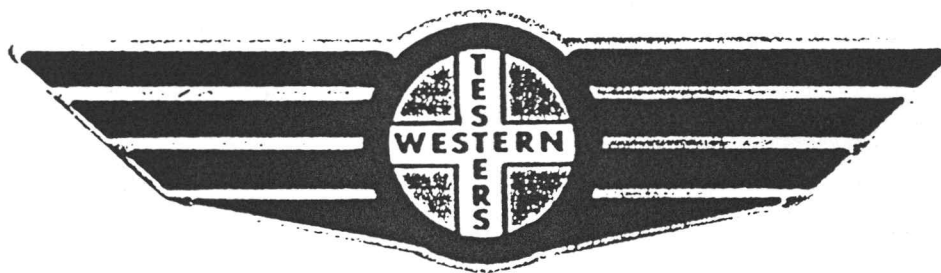
DST #4

Lot #11779

Below Straddle



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	9-24-87	TICKET	:	11780
CUSTOMER	:	ENERGY EXPLORATION INC.	LEASE	:	PAM
WELL	:	#1 TEST: 5	GEOLOGIST	:	K. HOWARD
ELEVATION	:	2810 KB	FORMATION	:	L-KC-K
SECTION	:	21	TOWNSHIP	:	16S
RANGE	:	29W	STATE	:	KANSAS
GAUGE SN#	:	3849	CLOCK	:	12
		COUNTY :	LANE		
		RANGE :	4200		

INTERVAL FROM	:	4190	TO	:	4212	TOTAL DEPTH	:	4614
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4185	SIZE	:	6.75			
PACKER DEPTH	:	4190	SIZE	:	6.75			
PACKER DEPTH	:	4212	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 RIG #7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	45
WEIGHT	:	9.4	WATER LOSS (CC)	:	11.2
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	:	4170	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	22	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-INCREASING TO 4" IN WATER.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW-3/4" IN WATER.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 16 FT OF: OIL
RECOVERED : 95 FT OF: WATERY MUD WITH SCUM OF OIL
40% WATER-60% MUD-LESS THAN 1% OIL

CHLORIDES: 16000 PPM

Total Barrels Fluid = 1.56
Total Fluid Prod Rate = 24.91 BFPD
Indicated Oil Rate = 5.16 BOPD
Indicated Wtr Rate = 9.87 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 30 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 8:55 AM
WELL TEMPERATURE : 125
INITIAL HYDROSTATIC PRESSURE (A) 2182
INITIAL FLOW PERIOD MIN: 30 (B) 42 PSI TO (C) : 47
INITIAL CLOSED IN PERIOD MIN: 60 (D) 440
FINAL FLOW PERIOD MIN: 60 (E) 63 PSI TO (F) : 78
FINAL CLOSED IN PERIOD MIN: 60 (G) 353
FINAL HYDROSTATIC PRESSURE (H) 2119
TIME STARTED OFF BOTTOM : 12:25 PM

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : ENERGY EXPLORATION INC.
RIG : LANE-KANSAS
FIELD : PAM
WELL : #1
DATE : 9-24-87
GAUGE NO : 3849

OPERATIONAL COMMENTS

RECOVERED 30 FEET OF GAS ABOVE FLUID.

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 3849
DATE : 24/ 9/87

FIELD : PAM
JOB # : 11780
DEPTH : 4614
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	8:55: 0	0.000	42.000	125.00	0.000
2	8:59:59	0.083	42.000	125.00	0.000
3	9: 5: 0	0.167	42.000	125.00	0.000
4	9:10: 0	0.250	42.000	125.00	0.000
5	9:14:59	0.333	43.000	125.00	1.000
6	9:20: 0	0.417	45.000	125.00	2.000
7	9:25: 0	0.500	47.000	125.00	2.000
8	9:28: 0	0.550	109.000	125.00	62.000
9	9:31: 0	0.600	221.000	125.00	112.000
10	9:34: 0	0.650	281.000	125.00	60.000
11	9:37: 0	0.700	304.000	125.00	23.000
12	9:40: 0	0.750	321.000	125.00	17.000
13	9:43: 0	0.800	333.000	125.00	12.000
14	9:46: 0	0.850	342.000	125.00	9.000
15	9:49: 0	0.900	348.000	125.00	6.000
16	9:52: 0	0.950	353.000	125.00	5.000
17	9:55: 0	1.000	355.000	125.00	2.000
18	9:58: 0	1.050	360.000	125.00	5.000
19	10: 1: 0	1.100	367.000	125.00	7.000
20	10: 4: 0	1.150	377.000	125.00	10.000
21	10: 7: 0	1.200	388.000	125.00	11.000
22	10:10: 0	1.250	401.000	125.00	13.000
23	10:13: 0	1.300	412.000	125.00	11.000
24	10:16: 0	1.350	419.000	125.00	7.000
25	10:19: 0	1.400	429.000	125.00	10.000
26	10:22: 0	1.450	435.000	125.00	6.000
27	10:25: 0	1.500	440.000	125.00	5.000
28	10:26: 0	1.517	63.000	125.00	-377.000
29	10:29:59	1.583	63.000	125.00	0.000
30	10:35: 0	1.667	63.000	125.00	0.000
31	10:40: 0	1.750	63.000	125.00	0.000
32	10:44:59	1.833	63.000	125.00	0.000
33	10:50: 0	1.917	65.000	125.00	2.000
34	10:55: 0	2.000	68.000	125.00	3.000
35	10:59:59	2.083	69.000	125.00	1.000
36	11: 5: 0	2.167	72.000	125.00	3.000
37	11:10: 0	2.250	73.000	125.00	1.000
38	11:14:59	2.333	76.000	125.00	3.000
39	11:20: 0	2.417	78.000	125.00	2.000
40	11:25: 0	2.500	78.000	125.00	0.000
41	11:28: 0	2.550	138.000	125.00	60.000
42	11:31: 0	2.600	210.000	125.00	72.000
43	11:34: 0	2.650	254.000	125.00	44.000
44	11:37: 0	2.700	273.000	125.00	19.000
45	11:40: 0	2.750	291.000	125.00	18.000
46	11:43: 0	2.800	305.000	125.00	14.000
47	11:46: 0	2.850	316.000	125.00	11.000
48	11:49: 0	2.900	325.000	125.00	9.000
49	11:52: 0	2.950	330.000	125.00	5.000
50	11:55: 0	3.000	335.000	125.00	5.000
51	11:58: 0	3.050	340.000	125.00	5.000
52	12: 1: 0	3.100	343.000	125.00	3.000

COMPANY : ENERGY EXPLORATION INC.
WELL : #1
GAUGE # : 3849
DATE : 24/ 9/87

FIELD : PAM
JOB # : 11780
DEPTH : 4614
TEST :

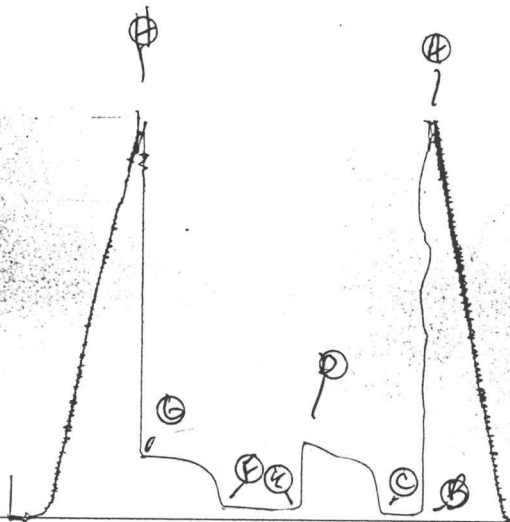
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	12: 4: 0	3.150	345.000	125.00	2.000
54	12: 7: 0	3.200	347.000	125.00	2.000
55	12:10: 0	3.250	349.000	125.00	2.000
56	12:13: 0	3.300	351.000	125.00	2.000
57	12:16: 0	3.350	352.000	125.00	1.000
58	12:19: 0	3.400	353.000	125.00	1.000
59	12:22: 0	3.450	353.000	125.00	0.000
60	12:25: 0	3.500	353.000	125.00	0.000

WESTERN TESTING CO. INC.

3894

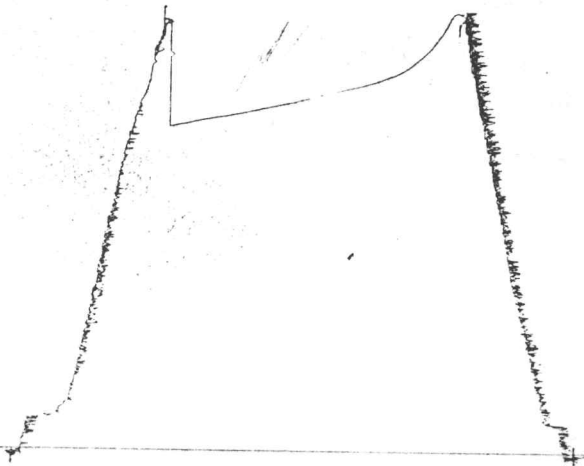
DSHS

St # 11780
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2605

St # 11780
Below Straddle



13550

DSTHS

QK # 11780

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