3849

Lot # 8571

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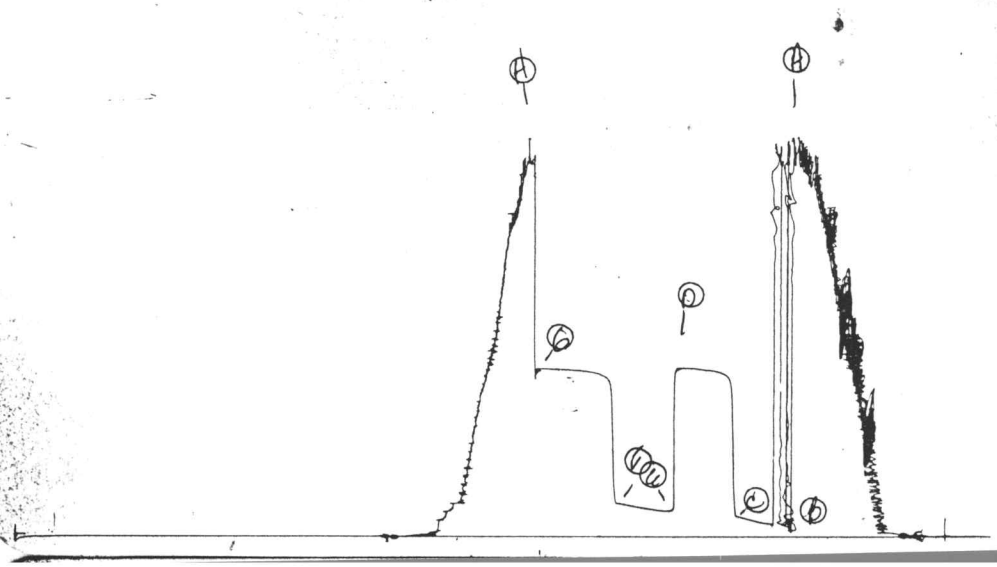

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JK #8571

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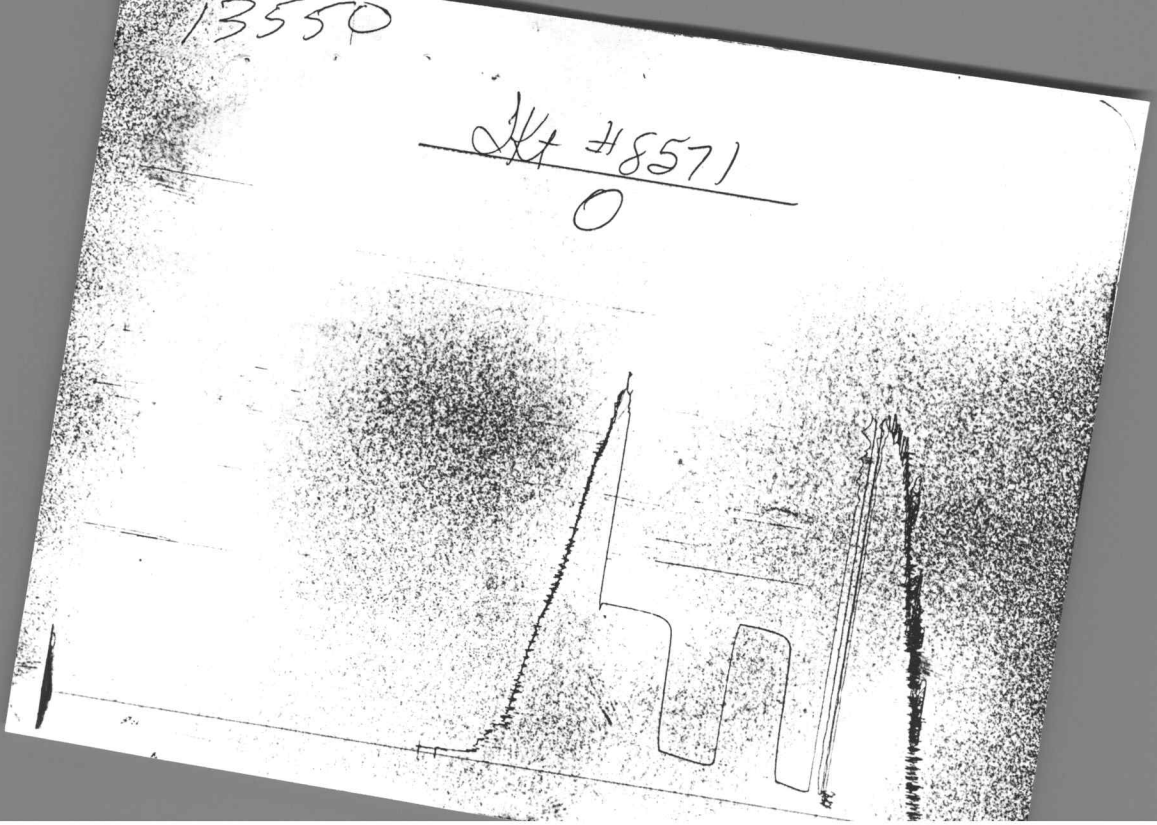

FORMATION TEST REPORT

Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

COMPANY LANDMARK OIL EXPLORATION, INC. LEASE & WELL NO. BORELL "C" 1-21 SEC. 21 TWP. 17S RGE. 28W TEST NO. 1 DATE 9/10/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 9/10/87	TICKET	: 8571
CUSTOMER	: LANDMARK OIL EXPLORATION INC.	LEASE	: BORELL "C"
WELL	: 1-21 TEST: 1	GEOLOGIST	: ?
ELEVATION	: 2766 KB	FORMATION	: LANSING J-K-L
SECTION	: 21	TOWNSHIP	: 17S
RANGE	: 28W COUNTY : LANE	STATE	: KANSAS
GAUGE SN#	: 3849 RANGE : 4200	CLOCK	: 12

INTERVAL FROM : 4198 TO : 4302 TOTAL DEPTH : 4302
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4193 SIZE : 6.75
PACKER DEPTH : 4198 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON.	: BEREDCO RIG 3		
MUD TYPE	: CHEMICAL	VISCOSITY	: 47
WEIGHT	: 9.4	WATER LOSS (CC)	: 10.
CHLORIDES (PPM)	: 5000		
JARS-MAKE	:	SERIAL NUMBER	:
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 0	FT	I.D. inch	: 0.00
WEIGHT PIPE LENGTH	: 761	FT	I.D. inch	: 3.20
DRILL PIPE LENGTH	: 3413	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 24	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 104	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 FAIR BLOW-3 INCHES IN WATER.
BLOW COMMENT #2 : FINAL FLOW PERIOD WEAK BLOW-1 INCH IN WATER.
BLOW COMMENT #3 : FLUSHED TOOL ON INITIAL FLOW PERIOD.
BLOW COMMENT #4 :

RECOVERED	:	90	FT	OF: OIL CUT MUD-90% MUD; 10% OIL
RECOVERED	:	180	FT	OF: OIL CUT MUD-2% OIL; 98% MUD
RECOVERED	:	120	FT	OF: WATERY MUD W/SCUM OF OIL
RECOVERED	:	0	FT	OF: LESS THAN 1% OIL
RECOVERED	:	0	FT	OF: 30% WATER; 70% MUD

Total Barrels Fluid	=	3.88	
Total Fluid Prod Rate	=	65.72	BFPD
Indicated Oil Rate	=	2.12	BOPD
Indicated Wtr Rate	=	10.40	BWPD
Corrected Oil Rate	=	63.85	BOPD
Corrected Wtr Rate	=	312.88	BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 : CHLORIDES 24000 PPM
REMARK 4 :

SET PACKER(S) : 4:50 AM TIME STARTED OFF BOTTOM : 7:50 AM
WELL TEMPERATURE : 124

INITIAL HYDROSTATIC PRESSURE			(A)	2093		
INITIAL FLOW PERIOD	MIN:	40	(B)	48	PSI TO (C) :	114
INITIAL CLOSED IN PERIOD	MIN:	45	(D)	932		
FINAL FLOW PERIOD	MIN:	45	(E)	146	PSI TO (F) :	190
FINAL CLOSED IN PERIOD	MIN:	60	(G)	927		
FINAL HYDROSTATIC PRESSURE			(H)	2065		

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY	:	LANDMARK OIL EXPLORATION INC.
RIG	:	LANE-KANSAS
FIELD	:	BORELL "C"
WELL	:	1-21
DATE	:	9/10/87
GAUGE NO	:	3849

OPERATIONAL COMMENTS

CHLORIDES 24000 PPM

COMPANY : LANDMARK OIL EXPLORATION INC.
WELL : 1-21
GAUGE # : 3849
DATE : 10/ 9/87

FIELD : BORELL "C"
JOB # : 8571
DEPTH : 4302
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	4:50: 0	0.000	48.000	124.00	0.000
2	4:54:59	0.083	59.000	124.00	11.000
3	5: 0: 0	0.167	74.000	124.00	15.000
4	5: 5: 0	0.250	74.000	124.00	0.000
5	5: 9:59	0.333	75.000	124.00	1.000
6	5:15: 0	0.417	82.000	124.00	7.000
7	5:20: 0	0.500	93.000	124.00	11.000
8	5:24:59	0.583	104.000	124.00	11.000
9	5:30: 0	0.667	114.000	124.00	10.000
10	5:33: 0	0.717	811.000	124.00	697.000
11	5:36: 0	0.767	880.000	124.00	69.000
12	5:39: 0	0.817	897.000	124.00	17.000
13	5:42: 0	0.867	906.000	124.00	9.000
14	5:45: 0	0.917	913.000	124.00	7.000
15	5:48: 0	0.967	916.000	124.00	3.000
16	5:51: 0	1.017	919.000	124.00	3.000
17	5:54: 0	1.067	922.000	124.00	3.000
18	5:57: 0	1.117	926.000	124.00	4.000
19	6: 0: 0	1.167	928.000	124.00	2.000
20	6: 3: 0	1.217	929.000	124.00	1.000
21	6: 6: 0	1.267	930.000	124.00	1.000
22	6: 9: 0	1.317	931.000	124.00	1.000
23	6:12: 0	1.367	932.000	124.00	1.000
24	6:15: 0	1.417	932.000	124.00	0.000
25	6:16: 0	1.433	146.000	124.00	-786.000
26	6:20: 0	1.500	146.000	124.00	0.000
27	6:25: 0	1.583	147.000	124.00	1.000
28	6:30: 0	1.667	153.000	124.00	6.000
29	6:35: 0	1.750	158.000	124.00	5.000
30	6:40: 0	1.833	164.000	124.00	6.000
31	6:45: 0	1.917	171.000	124.00	7.000
32	6:50: 0	2.000	178.000	124.00	7.000
33	6:55: 0	2.083	185.000	124.00	7.000
34	7: 0: 0	2.167	190.000	124.00	5.000
35	7: 3: 0	2.217	820.000	124.00	630.000
36	7: 6: 0	2.267	872.000	124.00	52.000
37	7: 9: 0	2.317	886.000	124.00	14.000
38	7:12: 0	2.367	897.000	124.00	11.000
39	7:15: 0	2.417	904.000	124.00	7.000
40	7:18: 0	2.467	907.000	124.00	3.000
41	7:21: 0	2.517	910.000	124.00	3.000
42	7:24: 0	2.567	913.000	124.00	3.000
43	7:27: 0	2.617	916.000	124.00	3.000
44	7:30: 0	2.667	919.000	124.00	3.000
45	7:33: 0	2.717	921.000	124.00	2.000
46	7:36: 0	2.767	922.000	124.00	1.000
47	7:39: 0	2.817	923.000	124.00	1.000
48	7:42: 0	2.867	924.000	124.00	1.000
49	7:45: 0	2.917	925.000	124.00	1.000
50	7:48: 0	2.967	926.000	124.00	1.000
51	7:51: 0	3.017	927.000	124.00	1.000
52	7:54: 0	3.067	927.000	124.00	0.000

COMPANY : LANDMARK OIL EXPLORATION INC.
WELL : 1-21
GAUGE # : 3849
DATE : 10/ 9/87

FIELD : BORELL "C"
JOB # : 8571
DEPTH : 4302
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	7:57: 0	3.117	927.000	124.00	0.000
54	8: 0: 0	3.167	927.000	124.00	0.000

WESTERN TESTING CO. INC.

3849

JK # 8573

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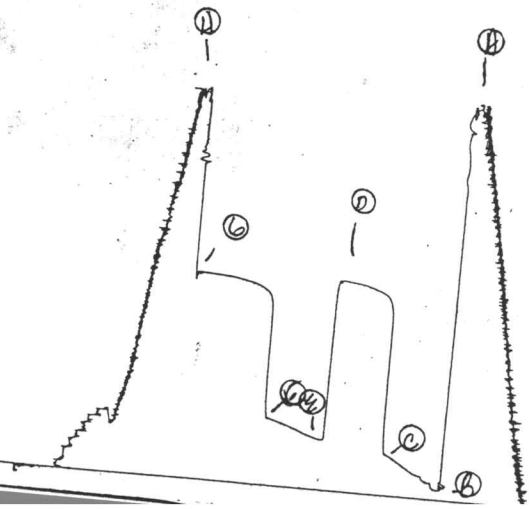

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Jkt #8573

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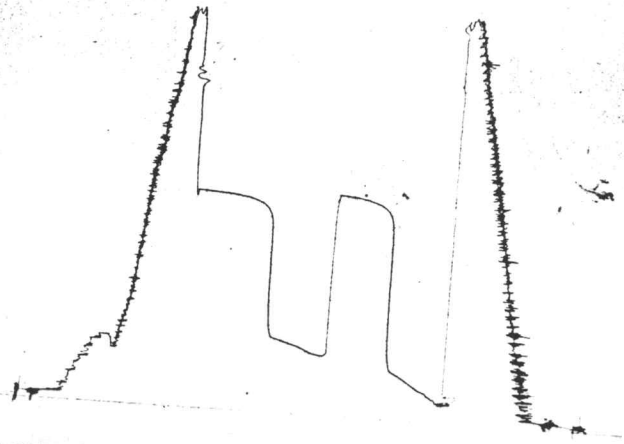

FORMATION TEST REPORT

Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

COMPANY LANDMARK OIL EXPLORATION, INC. LEASE & WELL NO. BORELL "C" 1-21 SEC. 21 TWP. 17S RGE. 28W TEST NO. 2 DATE 9/11/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 9/11/87	TICKET	: 8573
CUSTOMER	: LANDMARK OIL EXPLORATION INC.	LEASE	: BORELL "C"
WELL	: 1-21 TEST: 2	GEOLOGIST	: ?
ELEVATION	: 2766 KB	FORMATION	: ALT-FT SCOTT
SECTION	: 21	TOWNSHIP	: 17S
RANGE	: 28W COUNTY : LANE	STATE	: KANSAS
GAUGE SN#	: 3849 RANGE : 4200	CLOCK	: 12

INTERVAL FROM : 4341 TO : 4490 TOTAL DEPTH : 4490
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4336 SIZE : 6.75
PACKER DEPTH : 4341 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON.	: BEREDCO RIG 3		
MUD TYPE	: CHEMICAL	VISCOSITY	: 45
WEIGHT	: 9.2	WATER LOSS (CC)	: 10.
CHLORIDES (PPM)	: 6000		
JARS-MAKE	:	SERIAL NUMBER	:
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	: 825	FT	I.D. inch	:	3.20
DRILL PIPE LENGTH	: 3492	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	: 24	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	: 149	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 OFF
BLOW COMMENT #2 : BOTTOM OF BUCKET IN 18 MINUTES.
BLOW COMMENT #3 : FINAL FLOW PERIOD STRONG BLOW INCREASING OFF
BLOW COMMENT #4 : BOTTOM OF BUCKET IN 25 MINUTES.

RECOVERED	:	240	FT	OF: MUD W/SCUM OF OIL-LESS THAN 1% OIL
RECOVERED	:	630	FT	OF: WATERY MUD W/SCUM OF OIL-LESS THAN 1%
RECOVERED	:	0	FT	OF: 50% WATER; 50% MUD

Total Barrels Fluid = 8.84
Total Fluid Prod Rate = 141.39 BFPD
Indicated Wtr Rate = 55.10 BWPD

REMARK 1 :
REMARK 2 : PLUGGING ON INITIAL FLOW PERIOD.
REMARK 3 : CHLORIDES 42000 PPM
REMARK 4 :

SET PACKER(S) : 9:55 AM TIME STARTED OFF BOTTOM : 1:10 PM
WELL TEMPERATURE : 127

INITIAL HYDROSTATIC PRESSURE			(A)	2146		
INITIAL FLOW PERIOD	MIN:	45	(B)	55	PSI TO (C) :	229
INITIAL CLOSED IN PERIOD	MIN:	45	(D)	1163		
FINAL FLOW PERIOD	MIN:	45	(E)	280	PSI TO (F) :	374
FINAL CLOSED IN PERIOD	MIN:	60	(G)	1147		
FINAL HYDROSTATIC PRESSURE			(H)	2122		

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY	:	LANDMARK OIL EXPLORATION INC.
RIG	:	LANE-KANSAS
FIELD	:	BORELL "C"
WELL	:	1-21
DATE	:	9/11/87
GAUGE NO	:	3849

OPERATIONAL COMMENTS

PLUGGING ON INITIAL FLOW PERIOD.
CHLORIDES 42000 PPM

COMPANY : LANDMARK OIL EXPLORATION INC.
WELL : 1-21
GAUGE # : 3849
DATE : 11/ 9/87

FIELD : BORELL "C"
JOB # : 8573
DEPTH : 4490
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	55.000	127.00	0.000
2	9:59:59	0.083	58.000	127.00	3.000
3	10: 5: 0	0.167	91.000	127.00	33.000
4	10:10: 0	0.250	119.000	127.00	28.000
5	10:14:59	0.333	129.000	127.00	10.000
6	10:20: 0	0.417	149.000	127.00	20.000
7	10:25: 0	0.500	173.000	127.00	24.000
8	10:29:59	0.583	198.000	127.00	25.000
9	10:35: 0	0.667	219.000	127.00	21.000
10	10:40: 0	0.750	229.000	127.00	10.000
11	10:43: 0	0.800	1028.000	127.00	799.000
12	10:46: 0	0.850	1085.000	127.00	57.000
13	10:49: 0	0.900	1107.000	127.00	22.000
14	10:52: 0	0.950	1118.000	127.00	11.000
15	10:55: 0	1.000	1126.000	127.00	8.000
16	10:58: 0	1.050	1133.000	127.00	7.000
17	11: 1: 0	1.100	1140.000	127.00	7.000
18	11: 4: 0	1.150	1148.000	127.00	8.000
19	11: 7: 0	1.200	1152.000	127.00	4.000
20	11:10: 0	1.250	1155.000	127.00	3.000
21	11:13: 0	1.300	1157.000	127.00	2.000
22	11:16: 0	1.350	1159.000	127.00	2.000
23	11:19: 0	1.400	1161.000	127.00	2.000
24	11:22: 0	1.450	1162.000	127.00	1.000
25	11:25: 0	1.500	1163.000	127.00	1.000
26	11:26: 0	1.517	280.000	127.00	-883.000
27	11:29:59	1.583	280.000	127.00	0.000
28	11:35: 0	1.667	292.000	127.00	12.000
29	11:40: 0	1.750	304.000	127.00	12.000
30	11:44:59	1.833	319.000	127.00	15.000
31	11:50: 0	1.917	333.000	127.00	14.000
32	11:55: 0	2.000	344.000	127.00	11.000
33	11:59:59	2.083	356.000	127.00	12.000
34	12: 5: 0	2.167	367.000	127.00	11.000
35	12:10: 0	2.250	374.000	127.00	7.000
36	12:13: 0	2.300	1012.000	127.00	638.000
37	12:16: 0	2.350	1064.000	127.00	52.000
38	12:19: 0	2.400	1081.000	127.00	17.000
39	12:22: 0	2.450	1095.000	127.00	14.000
40	12:25: 0	2.500	1104.000	127.00	9.000
41	12:28: 0	2.550	1110.000	127.00	6.000
42	12:31: 0	2.600	1117.000	127.00	7.000
43	12:34: 0	2.650	1122.000	127.00	5.000
44	12:37: 0	2.700	1126.000	127.00	4.000
45	12:40: 0	2.750	1129.000	127.00	3.000
46	12:43: 0	2.800	1133.000	127.00	4.000
47	12:46: 0	2.850	1137.000	127.00	4.000
48	12:49: 0	2.900	1139.000	127.00	2.000
49	12:52: 0	2.950	1141.000	127.00	2.000
50	12:55: 0	3.000	1143.000	127.00	2.000
51	12:58: 0	3.050	1144.000	127.00	1.000
52	13: 1: 0	3.100	1145.000	127.00	1.000

COMPANY : LANDMARK OIL EXPLORATION INC.
WELL : 1-21
GAUGE # : 3849
DATE : 11/ 9/87

FIELD : BORELL "C"
JOB # : 8573
DEPTH : 4490
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	13: 4: 0	3.150	1146.000	127.00	1.000
54	13: 7: 0	3.200	1147.000	127.00	1.000
55	13:10: 0	3.250	1147.000	127.00	0.000

WESTERN TESTING CO. INC.

3849

Lot # 8574

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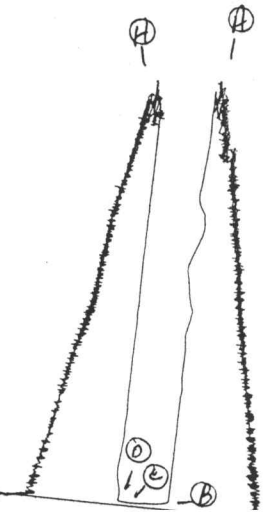

Sk # 8574

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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. BORELL "C" 1-21 SEC. 21 TWP. 17S RGE. 28W TEST NO. 3 DATE 9/12/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 9/12/87	TICKET	: 8574
CUSTOMER	: LANDMARK OIL EXPLORATION INC.	LEASE	: BORELL "C"
WELL	: 1-21 TEST: 3	GEOLOGIST	: ?
ELEVATION	: 2766 KB	FORMATION	: CHEROKEE SAND
SECTION	: 21	TOWNSHIP	: 17S
RANGE	: 28W COUNTY : LANE	STATE	: KANSAS
GAUGE SN#	: 3849 RANGE : 4200	CLOCK	: 12

INTERVAL FROM : 4556 TO : 4580 TOTAL DEPTH : 4580
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4551 SIZE : 6.75
PACKER DEPTH : 4556 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BEREDCO RIG 3
MUD TYPE : CHEMICAL VISCOSITY : 50
WEIGHT : 9.3 WATER LOSS (CC) : 9.
CHLORIDES (PPM) : 7000
JARS-MAKE : SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH	: 0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	: 825	FT	I.D. inch	:	3.20
DRILL PIPE LENGTH	: 3707	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	: 24	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	: 24	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 WATER-
BLOW COMMENT #2 : DIED IN 25 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: MUD W/SCUM OF OIL-LESS THAN 1% OIL
RECOVERED : 0 FT OF: MUD 100%

Total Barrels Fluid = 0.05
Total Fluid Prod Rate = 2.39 BFPD
Indicated Wtr Rate = 0.24 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES 8000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 11:55 AM TIME STARTED OFF BOTTOM : 12:35 PM
WELL TEMPERATURE : 122

INITIAL HYDROSTATIC PRESSURE			(A)	2264	
INITIAL FLOW PERIOD	MIN:	30	(B)	23	PSI TO (C) : 18
INITIAL CLOSED IN PERIOD	MIN:	9	(D)	19	
FINAL FLOW PERIOD	MIN:	0	(E)	0	PSI TO (F) : 0
FINAL CLOSED IN PERIOD	MIN:	0	(G)	0	
FINAL HYDROSTATIC PRESSURE			(H)	2245	

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY	:	LANDMARK OIL EXPLORATION INC.
RIG	:	LANE-KANSAS
FIELD	:	BORELL "C"
WELL	:	1-21
DATE	:	9/12/87
GAUGE NO	:	3849

OPERATIONAL COMMENTS

CHLORIDES 8000 PPM

COMPANY : LANDMARK OIL EXPLORATION INC.
WELL : 1-21
GAUGE # : 3849
DATE : 12/ 9/87

FIELD : BORELL "C"
JOB # : 8574
DEPTH : 4580
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	11:55: 0	0.000	23.000	122.00	0.000
2	11:59:59	0.083	23.000	122.00	0.000
3	12: 5: 0	0.167	23.000	122.00	0.000
4	12:10: 0	0.250	23.000	122.00	0.000
5	12:14:59	0.333	20.000	122.00	-3.000
6	12:20: 0	0.417	19.000	122.00	-1.000
7	12:25: 0	0.500	18.000	122.00	-1.000
8	12:28: 0	0.550	18.000	122.00	0.000
9	12:31: 0	0.600	18.000	122.00	0.000
10	12:34: 0	0.650	19.000	122.00	1.000

WESTERN TESTING CO. INC.