

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12/22/91 TICKET : 17838
CUSTOMER : RAYDON EXPLORATION INC. LEASE : DONOVAN
WELL : 1-9 TEST: 1 GEOLOGIST : WILLIAMS
ELEVATION : FORMATION : MISSISSIPPI
SECTION : 9 TOWNSHIP : 34S
RANGE : 13W COUNTY : BARBER STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 4825 TO : 4920 TOTAL DEPTH : 4920
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4820 SIZE : 6.63
PACKER DEPTH : 4825 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : EAGLE DRLG RIG 1
MUD TYPE : CHEMICAL VISCOSITY : 50
WEIGHT : 9.0 WATER LOSS (CC) : 8.0
CHLORIDES (PPM) : 4000
JARS-MAKE : WTC SERIAL NUMBER : 422
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 550 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4250 FT I.D. inch : 3.80
TEST TOOL LENGTH : 25 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 95 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 THROUGHOUT-
BLOW COMMENT #2 : 1/2 TO 2 1/2 INCHES.
BLOW COMMENT #3 : FINAL FLOW PERIOD FAIR BLOW THROUGHOUT-
BLOW COMMENT #4 : 4 TO 5 INCH BLOW.

9-34-13M

COPY

RECOVERED : 45 FT OF: SLIGHTLY GAS CUT MUD-4%GAS;96%MUD

Total Barrels Fluid = 0.21
Total Fluid Prod Rate = 3.38 BFPD
Indicated Wtr Rate = 0.32 BWPD

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

SET PACKER(S) : 10:30 AM TIME STARTED OFF BOTTOM : 3:00 PM

WELL TEMPERATURE	:	132		
INITIAL HYDROSTATIC PRESSURE			(A)	2331
INITIAL FLOW PERIOD	MIN:	30	(B)	47 PSI TO (C) : 49
INITIAL CLOSED IN PERIOD	MIN:	60	(D)	330
FINAL FLOW PERIOD	MIN:	60	(E)	51 PSI TO (F) : 51
FINAL CLOSED IN PERIOD	MIN:	120	(G)	609
FINAL HYDROSTATIC PRESSURE			(H)	2331

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RAYDON EXPLORATION INC.
RIG : BARBER-KANSAS
FIELD : DONOVAN
WELL : 1-9
DATE : 12/22/91
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : RAYDON EXPLORATION INC.
 WELL : 1-9
 GAUGE # : 10270
 DATE : 22/12/91

FIELD : DONOVAN
 JOB # : 17838
 DEPTH : 4920
 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 PERIOD					
2	10:30:0	0.000	47.000	132.00	0.000
3	10:34:59	0.083	47.000	132.00	0.000
4	10:40:0	0.167	47.000	132.00	0.000
5	10:45:0	0.250	47.000	132.00	0.000
6	10:49:59	0.333	47.000	132.00	0.000
7	10:55:0	0.417	48.000	132.00	1.000
8	11:0:0	0.500	49.000	132.00	1.000
INITIAL SHUT-IN PERIOD					
9	11:3:0	0.550	50.000	132.00	1.000
10	11:6:0	0.600	54.000	132.00	4.000
11	11:9:0	0.650	66.000	132.00	12.000
12	11:12:0	0.700	73.000	132.00	7.000
13	11:15:0	0.750	84.000	132.00	11.000
14	11:18:0	0.800	97.000	132.00	13.000
15	11:21:0	0.850	106.000	132.00	9.000
16	11:24:0	0.900	121.000	132.00	15.000
17	11:27:0	0.950	135.000	132.00	14.000
18	11:30:0	1.000	149.000	132.00	14.000
19	11:33:0	1.050	168.000	132.00	19.000
20	11:36:0	1.100	182.000	132.00	14.000
21	11:39:0	1.150	202.000	132.00	20.000
22	11:42:0	1.200	217.000	132.00	15.000
23	11:45:0	1.250	237.000	132.00	20.000
24	11:48:0	1.300	258.000	132.00	21.000
25	11:51:0	1.350	276.000	132.00	18.000
26	11:54:0	1.400	295.000	132.00	19.000
27	11:57:0	1.450	315.000	132.00	20.000
28	12:0:0	1.500	330.000	132.00	15.000
FINAL FLOW PERIOD					
29	12:1:0	1.517	51.000	132.00	-279.000
30	12:4:59	1.583	51.000	132.00	0.000
31	12:10:0	1.667	51.000	132.00	0.000
32	12:15:0	1.750	51.000	132.00	0.000
33	12:19:59	1.833	51.000	132.00	0.000
34	12:25:0	1.917	51.000	132.00	0.000
35	12:30:0	2.000	51.000	132.00	0.000
36	12:34:59	2.083	51.000	132.00	0.000
37	12:40:0	2.167	51.000	132.00	0.000
38	12:45:0	2.250	51.000	132.00	0.000
39	12:49:59	2.333	51.000	132.00	0.000
40	12:55:0	2.417	51.000	132.00	0.000
41	13:0:0	2.500	51.000	132.00	0.000
FINAL SHUT-IN PERIOD					
42	13:3:0	2.550	56.000	132.00	5.000
43	13:6:0	2.600	63.000	132.00	7.000
44	13:9:0	2.650	76.000	132.00	13.000
45	13:12:0	2.700	89.000	132.00	13.000
46	13:15:0	2.750	102.000	132.00	13.000
47	13:18:0	2.800	115.000	132.00	13.000
48	13:21:0	2.850	130.000	132.00	15.000

COMPANY : RAYDON EXPLORATION INC.
WELL : 1-9
GAUGE # : 10270
DATE : 22/12/91

FIELD : DONOVAN
JOB # : 17838
DEPTH : 4920
TEST :

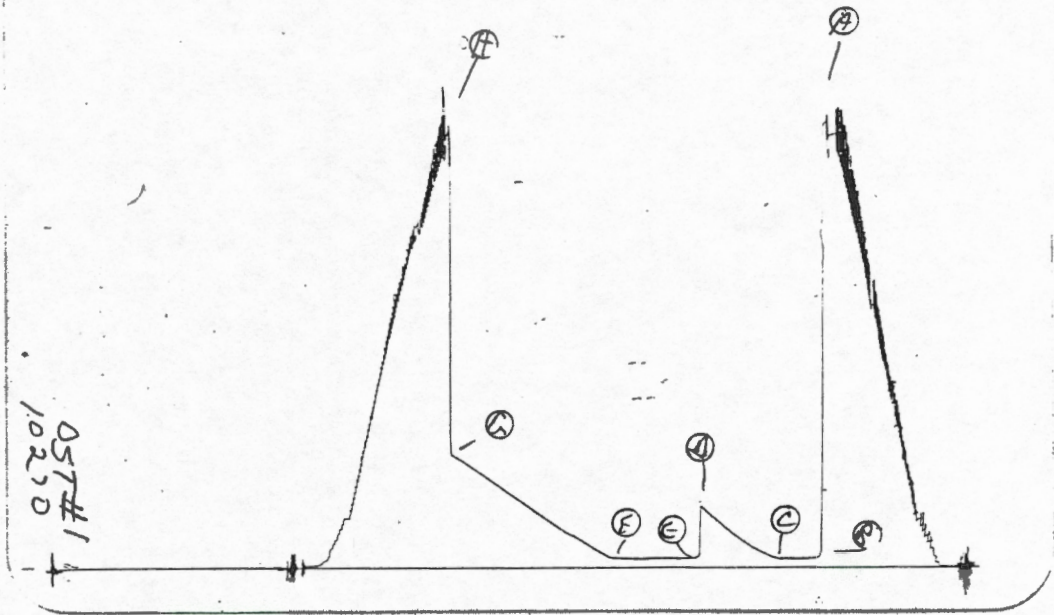
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	13:24: 0	2.900	144.000	132.00	14.000
50	13:27: 0	2.950	156.000	132.00	12.000
51	13:30: 0	3.000	172.000	132.00	16.000
52	13:33: 0	3.050	179.000	132.00	7.000
53	13:36: 0	3.100	192.000	132.00	13.000
54	13:39: 0	3.150	207.000	132.00	15.000
55	13:42: 0	3.200	222.000	132.00	15.000
56	13:45: 0	3.250	237.000	132.00	15.000
57	13:48: 0	3.300	256.000	132.00	19.000
58	13:51: 0	3.350	269.000	132.00	13.000
59	13:54: 0	3.400	282.000	132.00	13.000
60	13:57: 0	3.450	300.000	132.00	18.000
61	14: 0: 0	3.500	315.000	132.00	15.000
62	14: 3: 0	3.550	333.000	132.00	18.000
63	14: 6: 0	3.600	349.000	132.00	16.000
64	14: 9: 0	3.650	363.000	132.00	14.000
65	14:12: 0	3.700	377.000	132.00	14.000
66	14:15: 0	3.750	393.000	132.00	16.000
67	14:18: 0	3.800	408.000	132.00	15.000
68	14:21: 0	3.850	424.000	132.00	16.000
69	14:24: 0	3.900	440.000	132.00	16.000
70	14:27: 0	3.950	455.000	132.00	15.000
71	14:30: 0	4.000	472.000	132.00	17.000
72	14:33: 0	4.050	487.000	132.00	15.000
73	14:36: 0	4.100	504.000	132.00	17.000
74	14:39: 0	4.150	518.000	132.00	14.000
75	14:42: 0	4.200	531.000	132.00	13.000
76	14:45: 0	4.250	548.000	132.00	17.000
77	14:48: 0	4.300	560.000	132.00	12.000
78	14:51: 0	4.350	575.000	132.00	15.000
79	14:54: 0	4.400	588.000	132.00	13.000
80	14:57: 0	4.450	603.000	132.00	15.000
81	15: 0: 0	4.500	609.000	132.00	6.000

WESTERN TESTING CO. INC.

COPY

KT 17858

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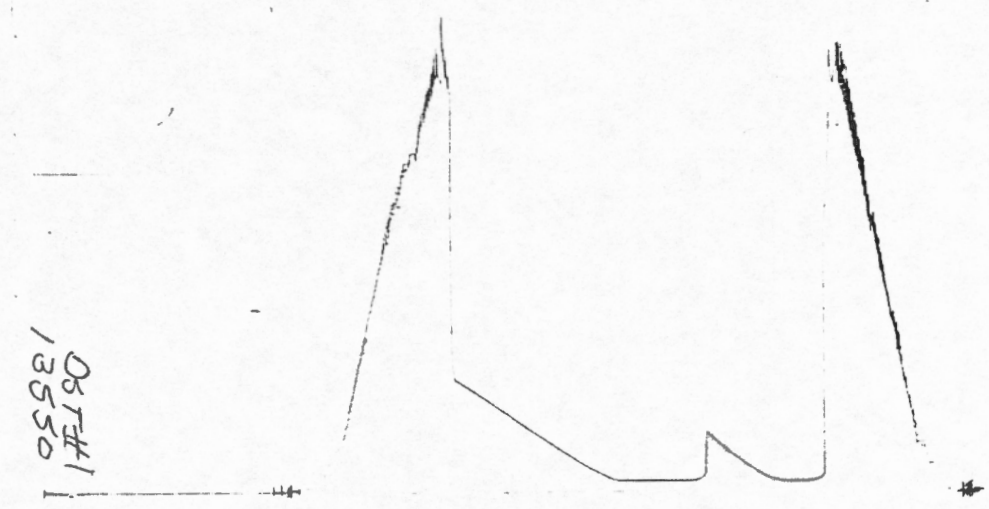


OST#1
10250

Inside Recorder

KT 17858

O



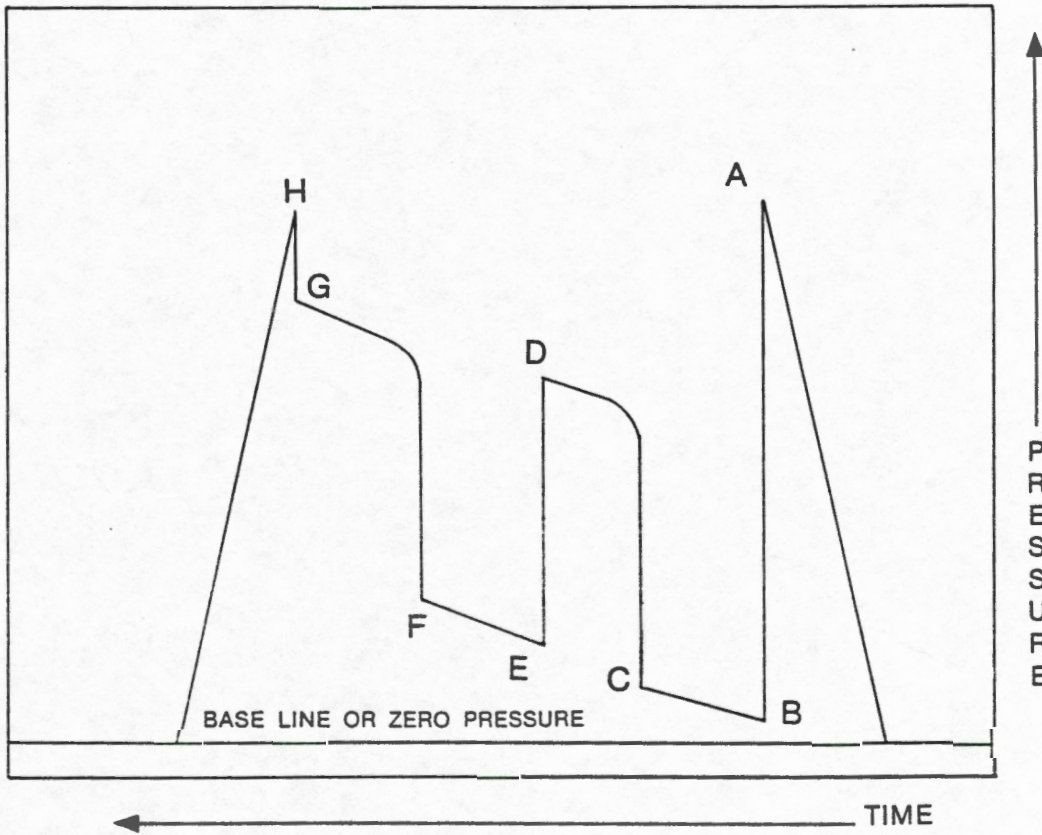
OST#1
13550

Outside Recorder

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

AK-1 Recorders



- | | |
|-------------------------|-------------------------|
| A - Initial Hydrostatic | E - Second Initial Flow |
| B - First Initial Flow | F - Second Final Flow |
| C - First Final Flow | G - Final Shut-In |
| D - Initial Shut-In | H - Final Hydrostatic |