

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	9-20-86	TICKET	:	8677	
CUSTOMER	:	HUMMON CORPORATION	LEASE	:	WOLF	
WELL	:	#1	TEST:	:	1	
ELEVATION	:	2540	GEOLOGIST	:	D. BEAUCHAMP	
SECTION	:	5	FORMATION	:	MISSISSIPPI	
RANGE	:	23W	TOWNSHIP	:	24S	
GAUGE SN#	:	5666	STATE	:	KANSAS	
		COUNTY :	HODGEMAN	CLOCK	:	12
		RANGE :	4000			

INTERVAL FROM	:	4700	TO	:	4730	TOTAL DEPTH	:	4730
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4695	SIZE	:	6.63			
PACKER DEPTH	:	4700	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	RED TIGER DRILLING	RIG #2		
MUD TYPE	:	DAPAC	VISCOSITY	:	42
WEIGHT	:	9.7	WATER LOSS (CC)	:	9.2
CHLORIDES (PPM)	:	10000			
JARS-MAKE	:	--	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	1140	FT	I.D. inch	:	2.50
DRILL PIPE LENGTH	:	3537	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	23	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	:	VERY WEAK BLOW SLOWLY BUILDING TO WEAK ON THE
BLOW COMMENT #2	:	INITIAL FLOW.
BLOW COMMENT #3	:	WEAK BLOW BUILDING TO A GOOD BLOW ON THE
BLOW COMMENT #4	:	FINAL FLOW.

RECOVERED : 20 FT OF: FREE OIL
RECOVERED : 50 FT OF: SLIGHTLY OIL CUT GASSY MUD

Total Barrels Fluid = 0.42
Total Fluid Prod Rate = 6.80 BFPD
Indicated Oil Rate = 2.04 BOPD
Indicated Wtr Rate = 4.37 BWPD
Corrected Oil Rate = 3.84 BOPD
Corrected Wtr Rate = 8.23 BWPD

REMARK 1 : TIGHT HOLE
REMARK 2 : RECOVERED 250 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 6:40 PM
WELL TEMPERATURE : 127
INITIAL HYDROSTATIC PRESSURE (A) 2370
INITIAL FLOW PERIOD MIN: 30 (B) 57 PSI TO (C) : 59
INITIAL CLOSED IN PERIOD MIN: 39 (D) 1165
FINAL FLOW PERIOD MIN: 60 (E) 68 PSI TO (F) : 72
FINAL CLOSED IN PERIOD MIN: 90 (G) 1229
FINAL HYDROSTATIC PRESSURE (H) 2364

TIME STARTED OFF BOTTOM : 9:55 PM

WESTERN TESTING CO. INC.
WICHITA KANSAS

Pressure Transient Report

COMPANY : HUMMON CORPORATION
RIG : HODGEMAN-KANSAS
FIELD : WOLF
WELL : #1
DATE : 9-20-86
GAUGE NO : 5666

OPERATIONAL COMMENTS

TIGHT HOLE
RECOVERED 250 FEET OF GAS ABOVE FLUID.

COMPANY : HUMMON CORPORATION
WELL : #1
GAUGE # : 5666
DATE : 20/ 9/86

FIELD : WOLF
JOB # : 8677
DEPTH : 4730
TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	6:40: 0	0.000	57.000	52.78	0.000
2	6:45: 0	0.083	57.000	52.78	0.000
3	6:50: 0	0.167	57.000	52.78	0.000
4	6:55: 0	0.250	58.000	52.78	1.000
5	7: 0: 0	0.333	59.000	52.78	1.000
6	8: 5: 0	0.417	59.000	52.78	0.000
7	8:10: 0	0.500	59.000	52.78	0.000
8	8:13: 0	0.550	67.000	52.78	8.000
9	8:16: 0	0.600	75.000	52.78	8.000
10	8:19: 0	0.650	87.000	52.78	12.000
11	8:22: 0	0.700	117.000	52.78	30.000
12	8:25: 0	0.750	169.000	52.78	52.000
13	8:28: 0	0.800	285.000	52.78	116.000
14	8:31: 0	0.850	487.000	52.78	202.000
15	8:34: 0	0.900	762.000	52.78	275.000
16	8:37: 0	0.950	916.000	52.78	154.000
17	8:40: 0	1.000	1019.000	52.78	103.000
18	8:43: 0	1.050	1089.000	52.78	70.000
19	8:46: 0	1.100	1139.000	52.78	50.000
20	8:49: 0	1.150	1165.000	52.78	26.000
21	8:50: 0	1.167	68.000	52.78	-1097.000
22	8:54: 0	1.233	68.000	52.78	0.000
23	8:59: 0	1.317	68.000	52.78	0.000
24	9: 4: 0	1.400	68.000	52.78	0.000
25	9: 9: 0	1.483	69.000	52.78	1.000
26	9:14: 0	1.567	70.000	52.78	1.000
27	9:19: 0	1.650	70.000	52.78	0.000
28	9:24: 0	1.733	71.000	52.78	1.000
29	9:29: 0	1.817	71.000	52.78	0.000
30	9:34: 0	1.900	72.000	52.78	1.000
31	9:39: 0	1.983	72.000	52.78	0.000
32	9:44: 0	2.067	72.000	52.78	0.000
33	9:49: 0	2.150	72.000	52.78	0.000
34	9:52: 0	2.200	73.000	52.78	1.000
35	9:55: 0	2.250	79.000	52.78	6.000
36	9:58: 0	2.300	95.000	52.78	16.000
37	10: 1: 0	2.350	131.000	52.78	36.000
38	10: 4: 0	2.400	191.000	52.78	60.000
39	10: 7: 0	2.450	316.000	52.78	125.000
40	10:10: 0	2.500	531.000	52.78	215.000
41	10:13: 0	2.550	715.000	52.78	184.000
42	10:16: 0	2.600	850.000	52.78	135.000
43	10:19: 0	2.650	926.000	52.78	76.000
44	10:22: 0	2.700	984.000	52.78	58.000
45	10:25: 0	2.750	1027.000	52.78	43.000
46	10:28: 0	2.800	1057.000	52.78	30.000
47	10:31: 0	2.850	1081.000	52.78	24.000
48	10:34: 0	2.900	1099.000	52.78	18.000
49	10:37: 0	2.950	1115.000	52.78	16.000
50	10:40: 0	3.000	1129.000	52.78	14.000
51	10:43: 0	3.050	1140.000	52.78	11.000
52	10:46: 0	3.100	1150.000	52.78	10.000

COMPANY : HUMMON CORPORATION

WELL : #1

GAUGE # : 5666

DATE : 20/ 9/86

FIELD : WOLF

JOB # : 8677

DEPTH : 4730

TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	10:49: 0	3.150	1160.000	52.78	10.000
54	10:52: 0	3.200	1169.000	52.78	9.000
55	10:55: 0	3.250	1177.000	52.78	8.000
56	10:58: 0	3.300	1185.000	52.78	8.000
57	11: 1: 0	3.350	1193.000	52.78	8.000
58	11: 4: 0	3.400	1199.000	52.78	6.000
59	11: 7: 0	3.450	1205.000	52.78	6.000
60	11:10: 0	3.500	1211.000	52.78	6.000
61	11:13: 0	3.550	1219.000	52.78	8.000
62	11:16: 0	3.600	1225.000	52.78	6.000
63	11:19: 0	3.650	1229.000	52.78	4.000

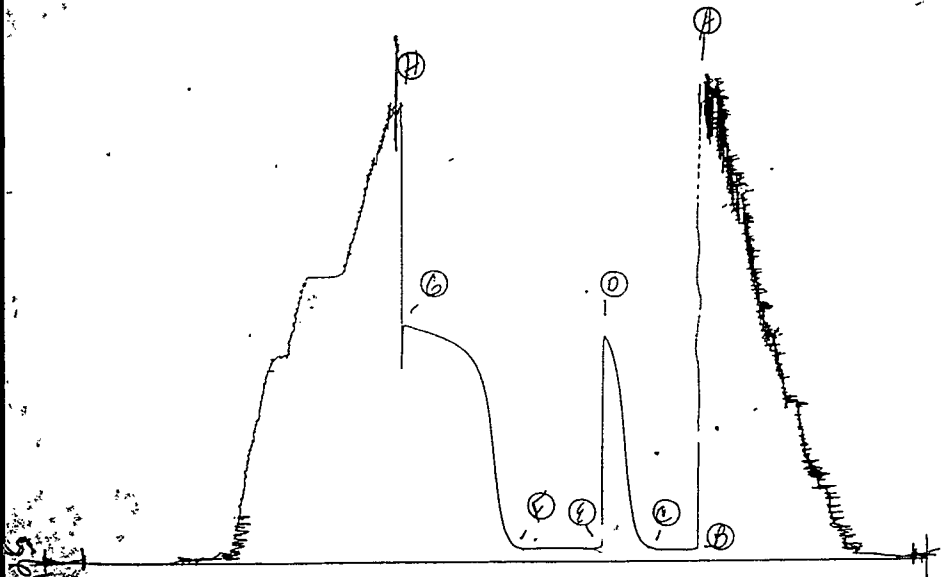
WESTERN TESTING CO.INC.

5666 DST#1
#8677

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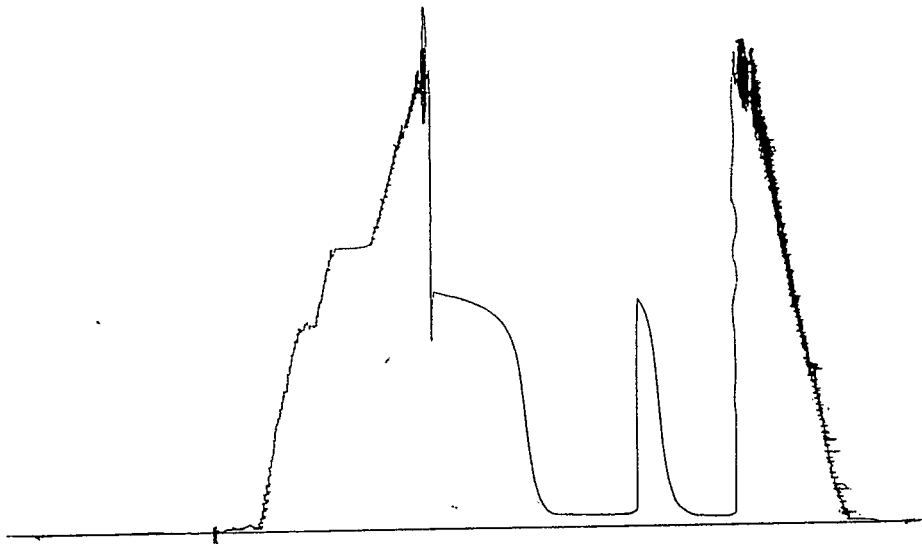
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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	9-21-86	TICKET	:	8678
CUSTOMER	:	HUMMON CORPORATION	LEASE	:	WOLF
WELL	:	#1	TEST:	:	2
ELEVATION	:	2540	GEOLOGIST	:	D. BEAUCHAMP
SECTION	:	5	FORMATION	:	MISSISSIPPI
RANGE	:	23W	TOWNSHIP	:	24S
GAUGE SN#	:	5666	STATE	:	KANSAS
		COUNTY :	RANGE :		CLOCK :
			4000		12

INTERVAL FROM	:	4730	TO	:	4738	TOTAL DEPTH	:	4738
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4725	SIZE	:	6.63			
PACKER DEPTH	:	4730	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	RED TIGER DRILLING RIG #2			
MUD TYPE	:	DAPAC	VISCOSITY	:	42
WEIGHT	:	9.7	WATER LOSS (CC)	:	9.2
CHLORIDES (PPM)	:	10000			
JARS-MAKE	:	--	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	1140	FT	I.D. inch	:	2.50
DRILL PIPE LENGTH	:	3567	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	23	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	8	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 : WEAK BLOW BUILDING TO STRONG ON THE INITIAL FLOW.
BLOW COMMENT #2 : STRONG STEADY BLOW THROUGHOUT THE FINAL FLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 250 FT OF: FREE GASSY OIL
RECOVERED : 60 FT OF: SLIGHTLY OIL CUT MUDDY WATER
RECOVERED : 0 FT OF: (40% MUD-50% WTR-10% OIL)

Total Barrels Fluid = 1.88
Total Fluid Prod Rate = 31.88 BFPD
Indicated Oil Rate = 26.33 BOPD
Indicated Wtr Rate = 5.31 BWPD
Corrected Oil Rate = 29.08 BOPD
Corrected Wtr Rate = 5.86 BWPD

REMARK 1 : TIGHT HOLE
REMARK 2 : RECOVERED 960 FEET OF GAS ABOVE FLUID.
REMARK 3 : GRAVITY OF OIL 40
REMARK 4 :

SET PACKER(S) : 11:15 AM TIME STARTED OFF BOTTOM : 3:00 PM
WELL TEMPERATURE : 129
INITIAL HYDROSTATIC PRESSURE (A) 2500
INITIAL FLOW PERIOD MIN: 25 (B) 38 PSI TO (C) : 56
INITIAL CLOSED IN PERIOD MIN: 48 (D) 1284
FINAL FLOW PERIOD MIN: 60 (E) 97 PSI TO (F) : 139
FINAL CLOSED IN PERIOD MIN: 99 (G) 1286
FINAL HYDROSTATIC PRESSURE (H) 2342

WESTERN TESTING CO. INC.
WICHITA KANSAS

Pressure Transient Report

COMPANY : HUMMON CORPORATION
RIG : HODGEMAN-KANSAS
FIELD : WOLF
WELL : #1
DATE : 9-21-86
GAUGE NO : 5666

OPERATIONAL COMMENTS

TIGHT HOLE
RECOVERED 960 FEET OF GAS ABOVE FLUID.
GRAVITY OF OIL 40

COMPANY : HUMMON CORPORATION

FIELD : WOLF

WELL : #1

JOB # : 8678

GAUGE # : 5666

DEPTH : 4738

DATE : 21/ 9/86

TEST : TIGHT HOLE

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	38.000	53.89	0.000
2	11:20: 0	0.083	38.000	53.89	0.000
3	11:25: 0	0.167	40.000	53.89	2.000
4	11:30: 0	0.250	45.000	53.89	5.000
5	11:35: 0	0.333	50.000	53.89	5.000
6	11:40: 0	0.417	56.000	53.89	6.000
7	11:43: 0	0.467	432.000	53.89	376.000
8	11:46: 0	0.517	906.000	53.89	474.000
9	11:49: 0	0.567	996.000	53.89	90.000
10	11:52: 0	0.617	1055.000	53.89	59.000
11	11:55: 0	0.667	1093.000	53.89	38.000
12	11:58: 0	0.717	1123.000	53.89	30.000
13	12: 1: 0	0.767	1151.000	53.89	28.000
14	12: 4: 0	0.817	1176.000	53.89	25.000
15	12: 7: 0	0.867	1195.000	53.89	19.000
16	12:10: 0	0.917	1215.000	53.89	20.000
17	12:13: 0	0.967	1230.000	53.89	15.000
18	12:16: 0	1.017	1245.000	53.89	15.000
19	12:19: 0	1.067	1256.000	53.89	11.000
20	12:22: 0	1.117	1268.000	53.89	12.000
21	12:25: 0	1.167	1278.000	53.89	10.000
22	12:28: 0	1.217	1284.000	53.89	6.000
23	12:29: 0	1.233	97.000	53.89	-1187.000
24	12:33: 0	1.300	97.000	53.89	0.000
25	12:38: 0	1.383	97.000	53.89	0.000
26	12:43: 0	1.467	98.000	53.89	1.000
27	12:48: 0	1.550	103.000	53.89	5.000
28	12:53: 0	1.633	106.000	53.89	3.000
29	12:58: 0	1.717	108.000	53.89	2.000
30	13: 3: 0	1.800	113.000	53.89	5.000
31	13: 8: 0	1.883	118.000	53.89	5.000
32	13:13: 0	1.967	124.000	53.89	6.000
33	13:18: 0	2.050	129.000	53.89	5.000
34	13:23: 0	2.133	135.000	53.89	6.000
35	13:28: 0	2.217	139.000	53.89	4.000
36	13:31: 0	2.267	387.000	53.89	248.000
37	13:34: 0	2.317	741.000	53.89	354.000
38	13:37: 0	2.367	856.000	53.89	115.000
39	13:40: 0	2.417	914.000	53.89	58.000
40	13:43: 0	2.467	958.000	53.89	44.000
41	13:46: 0	2.517	998.000	53.89	40.000
42	13:49: 0	2.567	1027.000	53.89	29.000
43	13:52: 0	2.617	1057.000	53.89	30.000
44	13:55: 0	2.667	1079.000	53.89	22.000
45	13:58: 0	2.717	1101.000	53.89	22.000
46	14: 1: 0	2.767	1117.000	53.89	16.000
47	14: 4: 0	2.817	1135.000	53.89	18.000
48	14: 7: 0	2.867	1149.000	53.89	14.000
49	14:10: 0	2.917	1162.000	53.89	13.000
50	14:13: 0	2.967	1173.000	53.89	11.000
51	14:16: 0	3.017	1183.000	53.89	10.000
52	14:19: 0	3.067	1194.000	53.89	11.000

COMPANY : HUMMON CORPORATION

FIELD : WOLF

WELL : #1

JOB # : 8678

GAUGE # : 5666

DEPTH : 4738

DATE : 21/ 9/86

TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	14:22: 0	3.117	1203.000	53.89	9.000
54	14:25: 0	3.167	1211.000	53.89	8.000
55	14:28: 0	3.217	1218.000	53.89	7.000
56	14:31: 0	3.267	1225.000	53.89	7.000
57	14:34: 0	3.317	1231.000	53.89	6.000
58	14:37: 0	3.367	1236.000	53.89	5.000
59	14:40: 0	3.417	1242.000	53.89	6.000
60	14:43: 0	3.467	1249.000	53.89	7.000
61	14:46: 0	3.517	1256.000	53.89	7.000
62	14:49: 0	3.567	1262.000	53.89	6.000
63	14:52: 0	3.617	1268.000	53.89	6.000
64	14:55: 0	3.667	1272.000	53.89	4.000
65	14:58: 0	3.717	1276.000	53.89	4.000
66	15: 1: 0	3.767	1280.000	53.89	4.000
67	15: 4: 0	3.817	1283.000	53.89	3.000
68	15: 7: 0	3.867	1286.000	53.89	3.000

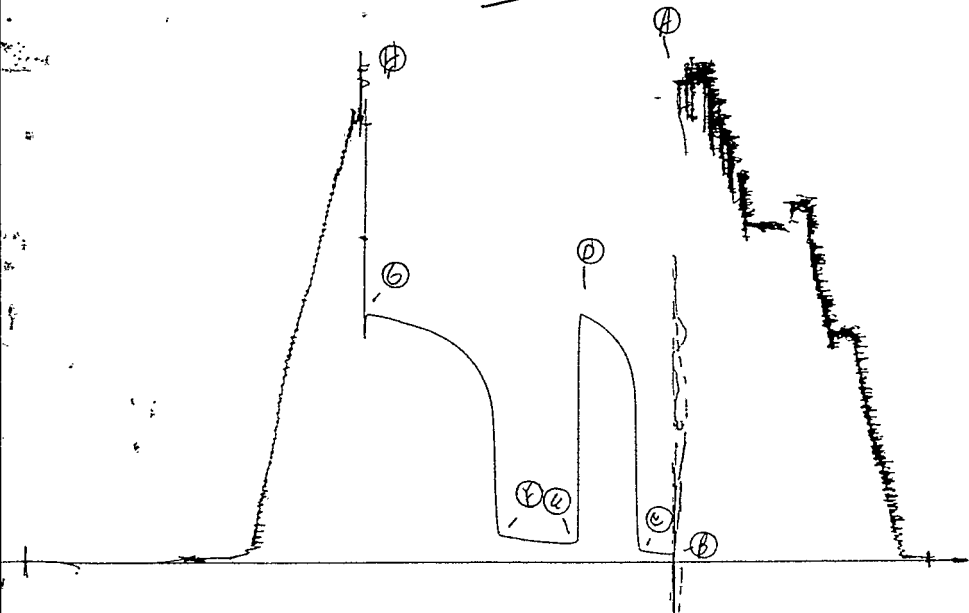
WESTERN TESTING CO. INC.

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