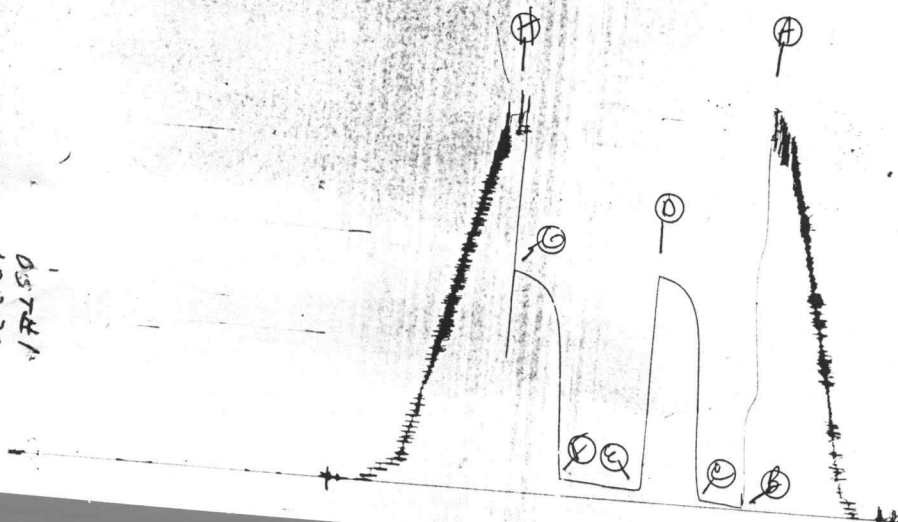


TK # 14226

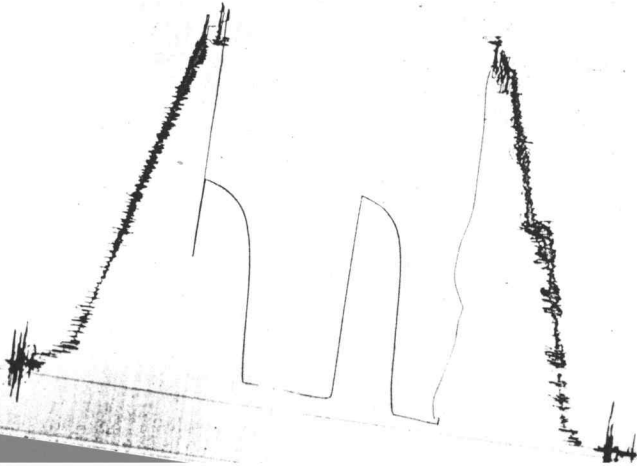
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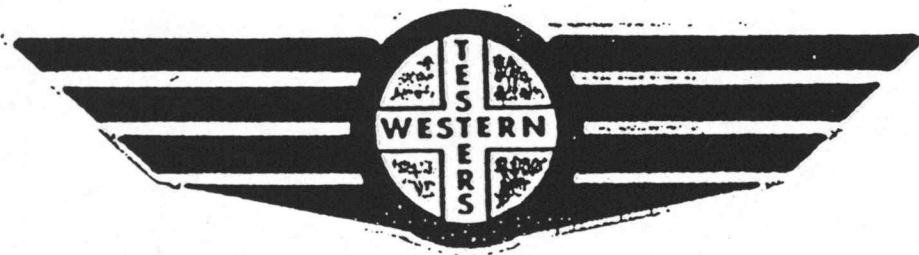


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HELLAR DRILLING CO. INC. LEASE & WELL NO. HERRMANN #A-1 SEC. 26 TWP. 25S RGE. 21W TEST NO. 1 DATE 11/22/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 11-22-88	TICKET	: 14226
CUSTOMER	: HELLAR DRILLING CO. INC.	LEASE	: HERRMANN
WELL	: #A-1 TEST: 1	GEOLOGIST	: B DOUGLASS
ELEVATION	: NA	FORMATION	: LANSING
SECTION	: 26	TOWNSHIP	: 25S
RANGE	: 21W	COUNTY	: FORD
GAUGE SN#	: 10270	STATE	: KANSAS
		RANGE	: 4150
		CLOCK	: 12

INTERVAL FROM	: 4180	TO	: 4193	TOTAL DEPTH	: 4193
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 4175	SIZE	: 6.63		
PACKER DEPTH	: 4180	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: BLUE GOOSE	RIG	2		
MUD TYPE	: CHEMICAL	VISCOSITY	:	48	
WEIGHT	: 9.	WATER LOSS (CC)	:	8.8	
CHLORIDES (PPM)	: 6000				
JARS-MAKE	: -	SERIAL NUMBER	:	-	
DID WELL FLOW ?	: -	REVERSED OUT ?	:	-	

DRILL COLLAR LENGTH	: 270	FT	I.D. inch	: 2.20
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3890	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 20	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 13	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 1/2" BLOW BUILDING TO A GOOD 7" BLOW.
BLOW COMMENT #2 : FINAL FLOW-GOOD BLOW BUILDING TO STRONG. 7" TO BOTTOM OF
BLOW COMMENT #3 : BUCKET IN 10 MINUTES.
BLOW COMMENT #4 :

RECOVERED : 65 FT OF: CLEAN OIL GRAVITY 37
RECOVERED : 60 FT OF: HEAVY OIL & GAS CUT MUD
20% OIL-8% GAS-12% WTR-60% MUD
RECOVERED : 60 FT OF: HEAVY OIL & GAS CUT MUDDY WATER
13% OIL-32% GAS-25% MUD-30% WATER

CHLORIDES: 28000 PPM

Total Barrels Fluid = 0.87
Total Fluid Prod Rate = 13.92 BFPD
Indicated Oil Rate = 6.39 BOPD
Indicated Wtr Rate = 1.88 BWPD
Corrected Oil Rate = 15.72 BOPD
Corrected Wtr Rate = 4.62 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 1255 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:50 AM TIME STARTED OFF BOTTOM : 3:50 AM
WELL TEMPERATURE : 111
INITIAL HYDROSTATIC PRESSURE (A) 2060
INITIAL FLOW PERIOD MIN: 30 (B) 15 PSI TO (C) : 33
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1228
FINAL FLOW PERIOD MIN: 60 (E) 62 PSI TO (F) : 91
FINAL CLOSED IN PERIOD MIN: 45 (G) 1199
FINAL HYDROSTATIC PRESSURE (H) 2056

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HELLAR DRILLING CO. INC.
RIG : FORD-KANSAS
FIELD : HERRMANN
WELL : #A-1
DATE : 11-22-88
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECOVERED 1255 FEET OF GAS ABOVE FLUID.

COMPANY : HELLAR DRILLING CO. INC.

FIELD : HERRMANN

WELL : #A-1

JOB # : 14226

GAUGE # : 10270

DEPTH : 4193

DATE : 22/11/88

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	12:50: 0	0.000	15.000	111.00	0.000
3	12:54:59	0.083	15.000	111.00	0.000
4	13: 0: 0	0.167	18.000	111.00	3.000
5	13: 5: 0	0.250	22.000	111.00	4.000
6	13: 9:59	0.333	26.000	111.00	4.000
7	13:15: 0	0.417	31.000	111.00	5.000
8	13:20: 0	0.500	33.000	111.00	2.000
INITIAL SHUT-IN					
9	13:23: 0	0.550	75.000	111.00	42.000
10	13:26: 0	0.600	198.000	111.00	123.000
11	13:29: 0	0.650	435.000	111.00	237.000
12	13:32: 0	0.700	753.000	111.00	318.000
13	13:35: 0	0.750	952.000	111.00	199.000
14	13:38: 0	0.800	1041.000	111.00	89.000
15	13:41: 0	0.850	1097.000	111.00	56.000
16	13:44: 0	0.900	1135.000	111.00	38.000
17	13:47: 0	0.950	1163.000	111.00	28.000
18	13:50: 0	1.000	1182.000	111.00	19.000
19	13:53: 0	1.050	1197.000	111.00	15.000
20	13:56: 0	1.100	1208.000	111.00	11.000
21	13:59: 0	1.150	1215.000	111.00	7.000
22	14: 2: 0	1.200	1221.000	111.00	6.000
23	14: 5: 0	1.250	1228.000	111.00	7.000
FINAL FLOW					
24	14: 6: 0	1.267	62.000	111.00	-1166.000
25	14: 9:59	1.333	62.000	111.00	0.000
26	14:15: 0	1.417	62.000	111.00	0.000
27	14:20: 0	1.500	65.000	111.00	3.000
28	14:24:59	1.583	66.000	111.00	1.000
29	14:30: 0	1.667	68.000	111.00	2.000
30	14:35: 0	1.750	72.000	111.00	4.000
31	14:39:59	1.833	79.000	111.00	7.000
32	14:45: 0	1.917	82.000	111.00	3.000
33	14:50: 0	2.000	84.000	111.00	2.000
34	14:54:59	2.083	87.000	111.00	3.000
35	15: 0: 0	2.167	89.000	111.00	2.000
36	15: 5: 0	2.250	91.000	111.00	2.000
FINAL SHUT-IN					
37	15: 8: 0	2.300	316.000	111.00	225.000
38	15:11: 0	2.350	626.000	111.00	310.000
39	15:14: 0	2.400	856.000	111.00	230.000
40	15:17: 0	2.450	966.000	111.00	110.000
41	15:20: 0	2.500	1031.000	111.00	65.000
42	15:23: 0	2.550	1074.000	111.00	43.000
43	15:26: 0	2.600	1107.000	111.00	33.000
44	15:29: 0	2.650	1128.000	111.00	21.000
45	15:32: 0	2.700	1145.000	111.00	17.000
46	15:35: 0	2.750	1157.000	111.00	12.000
47	15:38: 0	2.800	1170.000	111.00	13.000
48	15:41: 0	2.850	1178.000	111.00	8.000

COMPANY : HELLAR DRILLING CO. INC.
WELL : #A-1
GAUGE # : 10270
DATE : 22/11/88

FIELD : HERRMANN
JOB # : 14226
DEPTH : 4193
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	15:44: 0	2.900	1186.000	111.00	8.000
50	15:47: 0	2.950	1194.000	111.00	8.000
51	15:50: 0	3.000	1199.000	111.00	5.000

WESTERN TESTING CO. INC.

Rt # 14227

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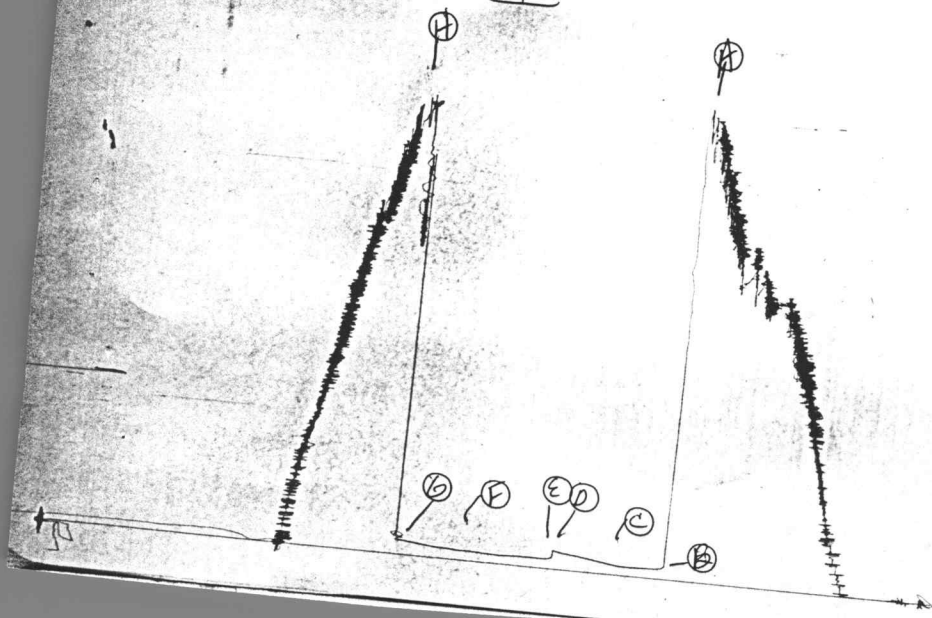
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05742
14227
17150



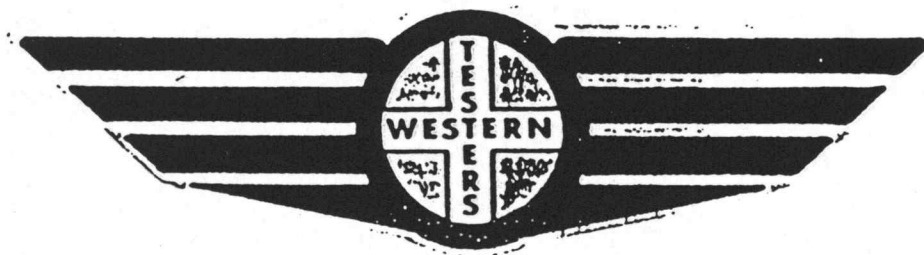
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057#2
10270



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HELLAR DRILLING CO. INC. LEASE & WELL NO. HERRMANN #A-1 SEC. 26 TWP. 25S RGE. 21W TEST NO. 2 DATE 11/25/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	11-25-88	TICKET	:	14227
CUSTOMER	:	HELLAR DRILLING CO. INC.	LEASE	:	HERRMANN
WELL	:	#A-1	TEST:	:	2
ELEVATION	:	NA	GEOLOGIST	:	B DOUGLASS
SECTION	:	26	FORMATION	:	CHEROKEE SD
RANGE	:	21W	COUNTY	:	FORD
Gauge SN#	:	10270	RANGE	:	4150
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	4686	TO	:	4744	TOTAL DEPTH	:	4744
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4681	SIZE	:	6.63			
PACKER DEPTH	:	4686	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	BLUE GOOSE	RIG	:	2
MUD TYPE	:	CHEMICAL	VISCOSITY	:	54
WEIGHT	:	9.3	WATER LOSS (CC)	:	10
CHLORIDES (PPM)	:	8000			
JARS-MAKE	:	-	SERIAL NUMBER	:	-
DID WELL FLOW ?	:	-	REVERSED OUT ?	:	-

DRILL COLLAR LENGTH	:	270	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	4396	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	58	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 1/4" BLOW THROUGHOUT.
BLOW COMMENT #2 : FINAL FLOW-WEAK 1/2" TO 1/4" BLOW THROUGHOUT.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: MUD
97% MUD-3% GAS (SHOW OF OIL)

Total Barrels Fluid = 0.02
Total Fluid Prod Rate = 0.34 BFPD
Indicated Wtr Rate = 0.00 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 115 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	7:15 PM	TIME STARTED OFF BOTTOM :	10:15 PM
WELL TEMPERATURE :	118		
INITIAL HYDROSTATIC PRESSURE		(A)	2468
INITIAL FLOW PERIOD MIN:	35	(B)	50 PSI TO (C) : 50
INITIAL CLOSED IN PERIOD MIN:	48	(D)	102
FINAL FLOW PERIOD MIN:	65	(E)	50 PSI TO (F) : 55
FINAL CLOSED IN PERIOD MIN:	51	(G)	80
FINAL HYDROSTATIC PRESSURE		(H)	2468

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HELLAR DRILLING CO. INC.
RIG : FORD-KANSAS
FIELD : HERRMANN
WELL : #A-1
DATE : 11-25-88
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECOVERED 115 FEET OF GAS ABOVE FLUID.

COMPANY : HELLAR DRILLING CO. INC.
WELL : #A-1
GAUGE # : 10270
DATE : 25/11/88

FIELD : HERRMANN
JOB # : 14227
DEPTH : 4744
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	7:15: 0	0.000	50.000	118.00	0.000
3	7:19:59	0.083	50.000	118.00	0.000
4	7:25: 0	0.167	50.000	118.00	0.000
5	7:30: 0	0.250	50.000	118.00	0.000
6	7:34:59	0.333	50.000	118.00	0.000
7	7:40: 0	0.417	50.000	118.00	0.000
8	7:45: 0	0.500	50.000	118.00	0.000
9	7:49:59	0.583	50.000	118.00	0.000
INITIAL SHUT-IN					
10	7:52:59	0.633	55.000	118.00	5.000
11	7:55:59	0.683	58.000	118.00	3.000
12	7:58:59	0.733	61.000	118.00	3.000
13	8: 1:59	0.783	64.000	118.00	3.000
14	8: 4:59	0.833	67.000	118.00	3.000
15	8: 7:59	0.883	70.000	118.00	3.000
16	8:10:59	0.933	76.000	118.00	6.000
17	8:13:59	0.983	77.000	118.00	1.000
18	8:16:59	1.033	82.000	118.00	5.000
19	8:19:59	1.083	85.000	118.00	3.000
20	8:22:59	1.133	86.000	118.00	1.000
21	8:25:59	1.183	89.000	118.00	3.000
22	8:28:59	1.233	90.000	118.00	1.000
23	8:31:59	1.283	94.000	118.00	4.000
24	8:34:59	1.333	99.000	118.00	5.000
25	8:37:59	1.383	102.000	118.00	3.000
FINAL FLOW					
26	8:39: 0	1.400	50.000	118.00	-52.000
27	8:42:59	1.467	50.000	118.00	0.000
28	8:48: 0	1.550	50.000	118.00	0.000
29	8:52:59	1.633	50.000	118.00	0.000
30	8:57:59	1.717	50.000	118.00	0.000
31	9: 3: 0	1.800	50.000	118.00	0.000
32	9: 7:59	1.883	50.000	118.00	0.000
33	9:12:59	1.967	50.000	118.00	0.000
34	9:18: 0	2.050	50.000	118.00	0.000
35	9:22:59	2.133	50.000	118.00	0.000
36	9:27:59	2.217	51.000	118.00	1.000
37	9:33: 0	2.300	53.000	118.00	2.000
38	9:37:59	2.383	55.000	118.00	2.000
39	9:42:59	2.467	55.000	118.00	0.000
FINAL SHUT-IN					
40	9:45:59	2.517	55.000	118.00	0.000
41	9:48:59	2.567	55.000	118.00	0.000
42	9:51:59	2.617	56.000	118.00	1.000
43	9:54:59	2.667	57.000	118.00	1.000
44	9:57:59	2.717	59.000	118.00	2.000
45	10: 0:59	2.767	61.000	118.00	2.000
46	10: 3:59	2.817	62.000	118.00	1.000
47	10: 6:59	2.867	63.000	118.00	1.000
48	10: 9:59	2.917	64.000	118.00	1.000

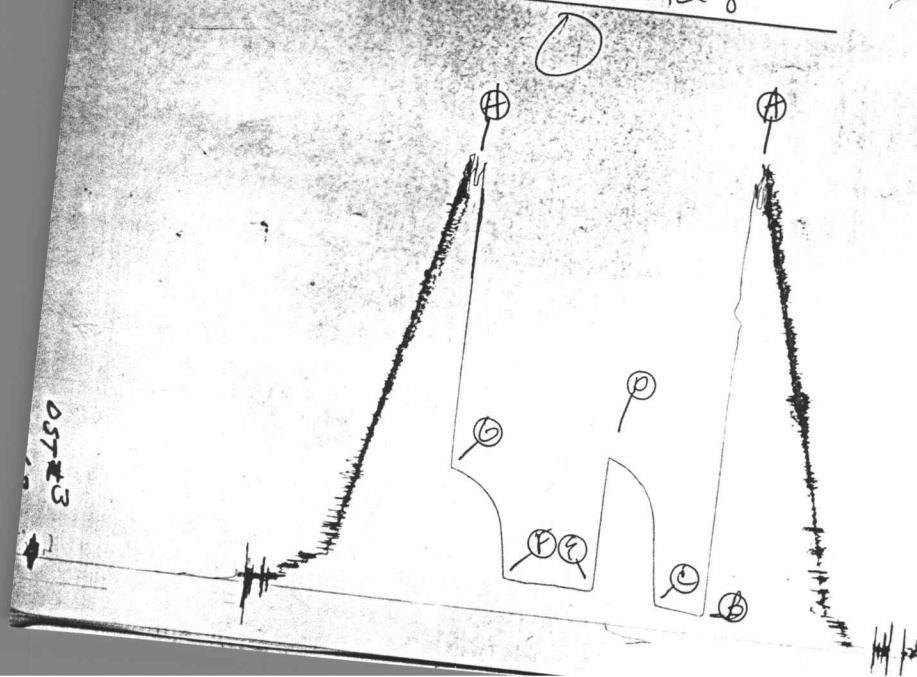
COMPANY : HELLAR DRILLING CO. INC.
WELL : #A-1
GAUGE # : 10270
DATE : 25/11/88

FIELD : HERRMANN
JOB # : 14227
DEPTH : 4744
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	10:12:59	2.967	65.000	118.00	1.000
50	10:15:59	3.017	68.000	118.00	3.000
51	10:18:59	3.067	71.000	118.00	3.000
52	10:21:59	3.117	74.000	118.00	3.000
53	10:24:59	3.167	76.000	118.00	2.000
54	10:27:59	3.217	78.000	118.00	2.000
55	10:30:59	3.267	79.000	118.00	1.000
56	10:33:59	3.317	80.000	118.00	1.000

WESTERN TESTING CO. INC.

PK # 14228



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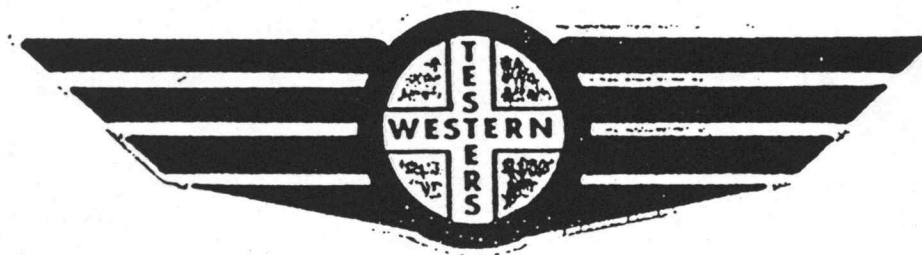
TKT # 14228

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10220



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HELLAR DRILLING CO. INC. LEASE & WELL NO. HERRMANN #A-1 SEC. 26 TWP. 25S RGE. 21W TEST NO. 3 DATE 11/26/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	11-26-88	TICKET	:	14228
CUSTOMER	:	HELLAR DRILLING CO. INC.	LEASE	:	HERRMANN
WELL	:	#A-1	TEST:	:	3
ELEVATION	:	NA	GEOLOGIST	:	B DOUGLASS
SECTION	:	26	FORMATION	:	MISSISSIPPI
RANGE	:	21W	TOWNSHIP	:	25S
Gauge SN#	:	13268	STATE	:	KANSAS
	:		CLOCK	:	12
	:	COUNTY :		:	FORD
	:	RANGE :		:	4225

INTERVAL FROM	:	4727	TO	:	4762	TOTAL DEPTH	:	4762
DEPTH OF SELECTIVE ZONE	:			:			:	
PACKER DEPTH	:	4722	SIZE	:	6.63		:	
PACKER DEPTH	:	4727	SIZE	:	6.63		:	
PACKER DEPTH	:		SIZE	:			:	
PACKER DEPTH	:		SIZE	:			:	

DRILLING CON.	:	BLUE GOOSE	RIG	:	2
MUD TYPE	:	CHEMICAL	VISCOSITY	:	51
WEIGHT	:	9.4	WATER LOSS (CC)	:	10.6
CHLORIDES (PPM)	:	8000		:	
JARS-MAKE	:	-	SERIAL NUMBER	:	-
DID WELL FLOW ?	:	-	REVERSED OUT ?	:	-

DRILL COLLAR LENGTH	:	270	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	4437	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	35	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 BUILDING TO STRONG IN 22 MINUTES
BLOW COMMENT #2	:	FINAL FLOW-WEAK BLOW BUILDING TO STRONG IN 45 MINUTES.
BLOW COMMENT #3	:	
BLOW COMMENT #4	:	

RECOVERED : 180 FT OF: CLEAN OIL GRAVITY 38
RECOVERED : 30 FT OF: HEAVY OIL & GAS CUT MUD
5% GAS-25% OIL-70% MUD
RECOVERED : 120 FT OF: MUDDY GASSY OIL
10% GAS-70% OIL-20% MUD

Total Barrels Fluid = 2.11
Total Fluid Prod Rate = 30.40 BFPD
Indicated Oil Rate = 25.06 BOPD
Indicated Wtr Rate = 0.05 BWPD
Corrected Oil Rate = 21.41 BOPD
Corrected Wtr Rate = 0.04 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 750 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 2:15 PM TIME STARTED OFF BOTTOM : 5:15 PM
WELL TEMPERATURE : 118
INITIAL HYDROSTATIC PRESSURE (A) 2480
INITIAL FLOW PERIOD MIN: 35 (B) 106 PSI TO (C) : 135
INITIAL CLOSED IN PERIOD MIN: 48 (D) 921
FINAL FLOW PERIOD MIN: 65 (E) 173 PSI TO (F) : 190
FINAL CLOSED IN PERIOD MIN: 48 (G) 765
FINAL HYDROSTATIC PRESSURE (H) 2427

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HELLAR DRILLING CO. INC.
RIG : FORD-KANSAS
FIELD : HERRMANN
WELL : #A-1
DATE : 11-26-88
GAUGE NO : 13268

OPERATIONAL COMMENTS

RECOVERED 750 FEET OF GAS ABOVE FLUID.

COMPANY : HELLAR DRILLING CO. INC.
WELL : #A-1
GAUGE # : 13268
DATE : 26/11/88

FIELD : HERRMANN
JOB # : 14228
DEPTH : 4762
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	2:15: 0	0.000	106.000	118.00	0.000
3	2:19:59	0.083	106.000	118.00	0.000
4	2:25: 0	0.167	111.000	118.00	5.000
5	2:30: 0	0.250	116.000	118.00	5.000
6	2:34:59	0.333	120.000	118.00	4.000
7	2:40: 0	0.417	125.000	118.00	5.000
8	2:45: 0	0.500	128.000	118.00	3.000
9	2:49:59	0.583	135.000	118.00	7.000
INITIAL SHUT-IN					
10	2:52:59	0.633	252.000	118.00	117.000
11	2:55:59	0.683	423.000	118.00	171.000
12	2:58:59	0.733	604.000	118.00	181.000
13	3: 1:59	0.783	678.000	118.00	74.000
14	3: 4:59	0.833	729.000	118.00	51.000
15	3: 7:59	0.883	770.000	118.00	41.000
16	3:10:59	0.933	793.000	118.00	23.000
17	3:13:59	0.983	812.000	118.00	19.000
18	3:16:59	1.033	838.000	118.00	26.000
19	3:19:59	1.083	856.000	118.00	18.000
20	3:22:59	1.133	871.000	118.00	15.000
21	3:25:59	1.183	883.000	118.00	12.000
22	3:28:59	1.233	895.000	118.00	12.000
23	3:31:59	1.283	905.000	118.00	10.000
24	3:34:59	1.333	916.000	118.00	11.000
25	3:37:59	1.383	921.000	118.00	5.000
FINAL FLOW					
26	3:39: 0	1.400	173.000	118.00	-748.000
27	3:42:59	1.467	173.000	118.00	0.000
28	3:48: 0	1.550	174.000	118.00	1.000
29	3:52:59	1.633	177.000	118.00	3.000
30	3:57:59	1.717	177.000	118.00	0.000
31	4: 3: 0	1.800	179.000	118.00	2.000
32	4: 7:59	1.883	181.000	118.00	2.000
33	4:12:59	1.967	181.000	118.00	0.000
34	4:18: 0	2.050	181.000	118.00	0.000
35	4:22:59	2.133	181.000	118.00	0.000
36	4:27:59	2.217	182.000	118.00	1.000
37	4:33: 0	2.300	182.000	118.00	0.000
38	4:37:59	2.383	183.000	118.00	1.000
39	4:42:59	2.467	190.000	118.00	7.000
FINAL SHUT-IN					
40	4:45:59	2.517	341.000	118.00	151.000
41	4:48:59	2.567	463.000	118.00	122.000
42	4:51:59	2.617	529.000	118.00	66.000
43	4:54:59	2.667	574.000	118.00	45.000
44	4:57:59	2.717	608.000	118.00	34.000
45	5: 0:59	2.767	636.000	118.00	28.000
46	5: 3:59	2.817	657.000	118.00	21.000
47	5: 6:59	2.867	678.000	118.00	21.000
48	5: 9:59	2.917	695.000	118.00	17.000

COMPANY : HELLAR DRILLING CO. INC.
WELL : #A-1
GAUGE # : 13268
DATE : 26/11/88

FIELD : HERRMANN
JOB # : 14228
DEPTH : 4762
TEST :

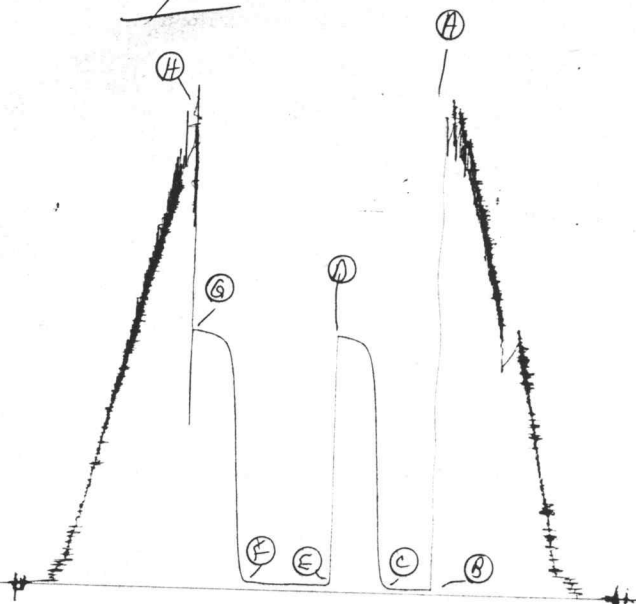
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	5:12:59	2.967	710.000	118.00	15.000
50	5:15:59	3.017	723.000	118.00	13.000
51	5:18:59	3.067	734.000	118.00	11.000
52	5:21:59	3.117	744.000	118.00	10.000
53	5:24:59	3.167	753.000	118.00	9.000
54	5:27:59	3.217	760.000	118.00	7.000
55	5:30:59	3.267	765.000	118.00	5.000

WESTERN TESTING CO. INC.

KT 4229

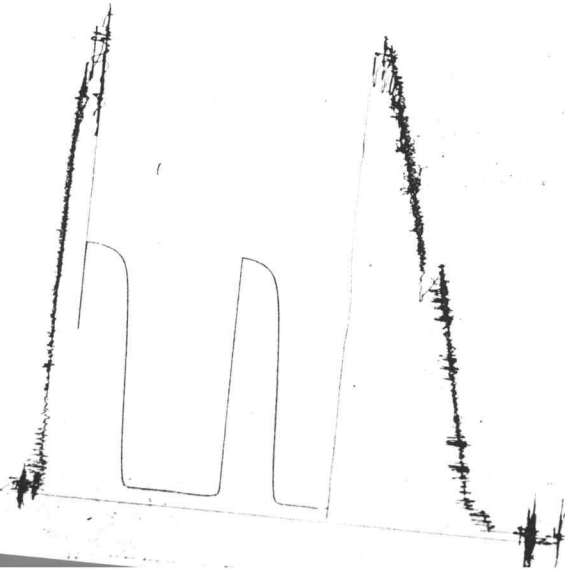
Z

05150
10220



KT 14229

05744
12208



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HELLAR DRILLING COMPANY, INC. LEASE & WELL NO. HERRMANN #A-1 SEC. 26 TWP. 25S RGE. 21W TEST NO. 4 DATE 11/27/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 11/27/88	TICKET	: 14229
CUSTOMER	: HELLAR DRILLING COMPANY INC.	LEASE	: HERRMANN
WELL	: A-1 TEST: 4	GEOLOGIST	: DOUGLASS
ELEVATION	: NA	FORMATION	: MISS. OSAGE
SECTION	: 26	TOWNSHIP	: 25S
RANGE	: 21W	COUNTY	: FORD
GAUGE SN#	: 10270	STATE	: KANSAS
		RANGE	: 4150
		CLOCK	: 12

INTERVAL FROM	: 4763	TO	: 4780	TOTAL DEPTH	: 4780
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 4758	SIZE	: 6.63		
PACKER DEPTH	: 4763	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: BLUE GOOSE RIG 2		
MUD TYPE	: CHEMICAL	VISCOSITY	: 64
WEIGHT	: 9.2	WATER LOSS (CC)	: 10.8
CHLORIDES (PPM)	: 8000		
JARS-MAKE	:	SERIAL NUMBER	:
DID WELL FLOW ?	:	REVERSED OUT ?	:

DRILL COLLAR LENGTH	: 270	FT	I.D. inch	: 2.20
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 4473	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 20	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 17	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	: SURFACE OF WATER.
BLOW COMMENT #3	: FINAL FLOW PERIOD WEAK BLOW THROUGHOUT.
BLOW COMMENT #4	: 1/4 INCH BLOW.

RECOVERED : 10 FT OF: VERY HEAVY OIL CUT MUD
RECOVERED : 0 FT OF: 40% OIL; 4% WATER; 56% MUD

Total Barrels Fluid = 0.05
Total Fluid Prod Rate = 0.75 BFPD
Indicated Oil Rate = 0.30 BOPD
Indicated Wtr Rate = 0.03 BWPD
Corrected Oil Rate = 3.41 BOPD
Corrected Wtr Rate = 0.34 BWPD

REMARK 1 : 60 FT OF GAS ABOVE FLUID
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 7:30 AM

TIME STARTED OFF BOTTOM : 10:30 AM

WELL TEMPERATURE : 119

INITIAL HYDROSTATIC PRESSURE

(A) 2466

INITIAL FLOW PERIOD MIN: 30

(B) 28 PSI TO (C) : 28

INITIAL CLOSED IN PERIOD MIN: 48

(D) 1394

FINAL FLOW PERIOD MIN: 60

(E) 40 PSI TO (F) : 45

FINAL CLOSED IN PERIOD MIN: 48

(G) 1406

FINAL HYDROSTATIC PRESSURE

(H) 2348

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HELLAR DRILLING COMPANY INC.
RIG : FORD-KANSAS
FIELD : HERRMANN
WELL : A-1
DATE : 11/27/88
GAUGE NO : 10270

OPERATIONAL COMMENTS

60 FT OF GAS ABOVE FLUID

COMPANY : HELLAR DRILLING COMPANY INC.
WELL : A-1
GAUGE # : 10270
DATE : 27/11/88

FIELD : HERRMANN
JOB # : 14229
DEPTH : 4780
TEST : 60 FT OF GAS ABOVE FLUID

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	7:30: 0	0.000	28.000	119.00	0.000
3	7:34:59	0.083	28.000	119.00	0.000
4	7:40: 0	0.167	28.000	119.00	0.000
5	7:45: 0	0.250	28.000	119.00	0.000
6	7:49:59	0.333	28.000	119.00	0.000
7	7:55: 0	0.417	28.000	119.00	0.000
8	8: 0: 0	0.500	28.000	119.00	0.000
INITIAL SHUT-IN PERIOD					
9	8: 3: 0	0.550	32.000	119.00	4.000
10	8: 6: 0	0.600	59.000	119.00	27.000
11	8: 9: 0	0.650	163.000	119.00	104.000
12	8:12: 0	0.700	420.000	119.00	257.000
13	8:15: 0	0.750	727.000	119.00	307.000
14	8:18: 0	0.800	1067.000	119.00	340.000
15	8:21: 0	0.850	1244.000	119.00	177.000
16	8:24: 0	0.900	1314.000	119.00	70.000
17	8:27: 0	0.950	1350.000	119.00	36.000
18	8:30: 0	1.000	1361.000	119.00	11.000
19	8:33: 0	1.050	1371.000	119.00	10.000
20	8:36: 0	1.100	1380.000	119.00	9.000
21	8:39: 0	1.150	1385.000	119.00	5.000
22	8:42: 0	1.200	1388.000	119.00	3.000
23	8:45: 0	1.250	1391.000	119.00	3.000
24	8:48: 0	1.300	1394.000	119.00	3.000
FINAL FLOW PERIOD					
25	8:49: 0	1.317	40.000	119.00	-1354.000
26	8:52:59	1.383	40.000	119.00	0.000
27	8:58: 0	1.467	40.000	119.00	0.000
28	9: 3: 0	1.550	40.000	119.00	0.000
29	9: 7:59	1.633	40.000	119.00	0.000
30	9:13: 0	1.717	40.000	119.00	0.000
31	9:18: 0	1.800	40.000	119.00	0.000
32	9:22:59	1.883	40.000	119.00	0.000
33	9:28: 0	1.967	40.000	119.00	0.000
34	9:33: 0	2.050	40.000	119.00	0.000
35	9:37:59	2.133	40.000	119.00	0.000
36	9:43: 0	2.217	44.000	119.00	4.000
37	9:48: 0	2.300	45.000	119.00	1.000
FINAL SHUT-IN PERIOD					
38	9:51: 0	2.350	54.000	119.00	9.000
39	9:53:59	2.400	125.000	119.00	71.000
40	9:57: 0	2.450	315.000	119.00	190.000
41	10: 0: 0	2.500	611.000	119.00	296.000
42	10: 3: 0	2.550	938.000	119.00	327.000
43	10: 6: 0	2.600	1173.000	119.00	235.000
44	10: 8:59	2.650	1297.000	119.00	124.000
45	10:12: 0	2.700	1340.000	119.00	43.000
46	10:15: 0	2.750	1362.000	119.00	22.000
47	10:18: 0	2.800	1375.000	119.00	13.000
48	10:21: 0	2.850	1384.000	119.00	9.000

COMPANY : HELLAR DRILLING COMPANY INC.
WELL : A-1
GAUGE # : 10270
DATE : 27/11/88

FIELD : HERRMANN
JOB # : 14229
DEPTH : 4780
TEST : 60 FT OF GAS ABOVE FLUID

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	10:24: 0	2.900	1390.000	119.00	6.000
50	10:26:59	2.950	1394.000	119.00	4.000
51	10:30: 0	3.000	1400.000	119.00	6.000
52	10:33: 0	3.050	1404.000	119.00	4.000
53	10:36: 0	3.100	1406.000	119.00	2.000

WESTERN TESTING CO. INC.