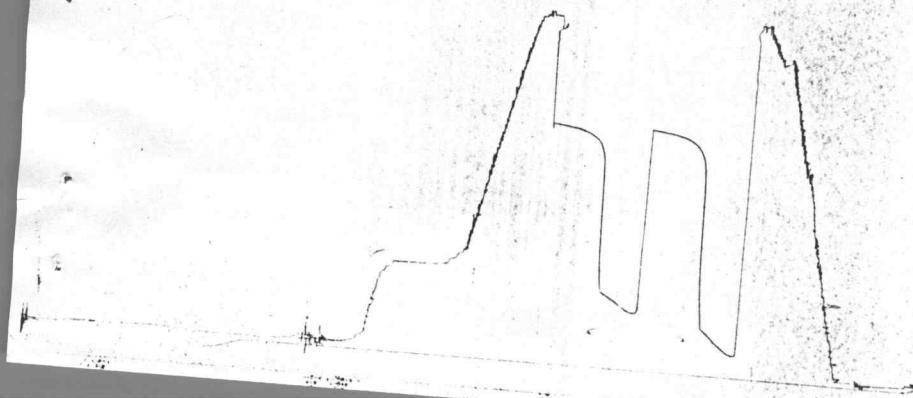


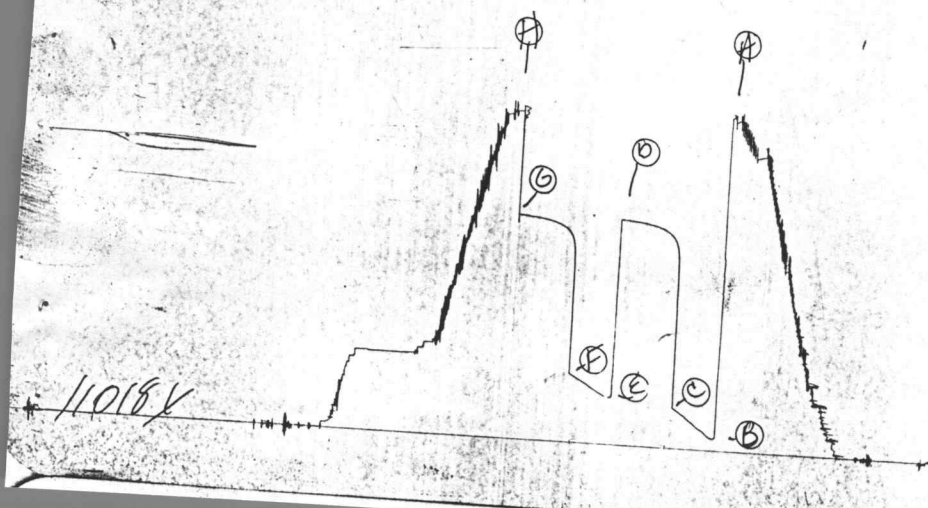
Kt # 14595

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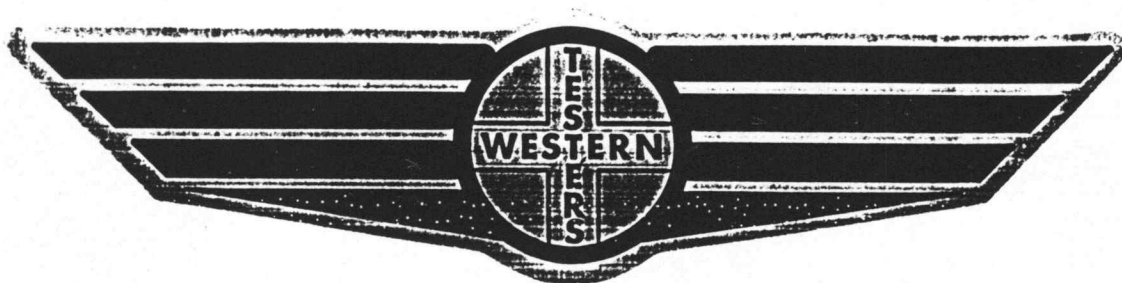
TKt # 14595

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11018V

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RITCHIE EXPLORATION INC. LEASE & WELL NO. JOHN KEMPER #1 SEC. 1 TWP. 6S RGE. 23W TEST NO. 1 DATE 10/20/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 10-20-88	TICKET	: 14695
CUSTOMER	: RITCHIE EXPLORATION INC.	LEASE	: JOHN KEMPER
WELL	: #1 TEST: 1	GEOLOGIST	: J CHRISTIAN
ELEVATION	: 2335 KB	FORMATION	: LANS-HIJ&K
SECTION	: 1	TOWNSHIP	: 6S
RANGE	: 23W	COUNTY	: GRAHAM
GAUGE SN#	: 11018	STATE	: KANSAS
		RANGE	: 4425
		CLOCK	: 12

INTERVAL FROM	: 3655	TO	: 3760	TOTAL DEPTH	: 3760
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3650	SIZE	: 6.63		
PACKER DEPTH	: 3655	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: MURFIN RIG 8		
MUD TYPE	: CHEMICAL	VISCOSITY	: 44
WEIGHT	: 9.8	WATER LOSS (CC)	: 8.8
CHLORIDES (PPM)	: 1100		
JARS-MAKE	: -	SERIAL NUMBER	: -
DID WELL FLOW ?	: -	REVERSED OUT ?	: YES

DRILL COLLAR LENGTH	: 0	FT	I.D. inch	: 0.00
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3635	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 20	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 105	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-BOTTOM OF BUCKET 5 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET 5 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 855 FT OF: CLEAN GASSY OIL
38 GRAVITY
RECOVERED : 120 FT OF: MUD CUT OIL
25% MUD-75% OIL

Total Barrels Fluid = 13.68
Total Fluid Prod Rate = 328.22 BFPD
Indicated Oil Rate = 318.12 BOPD
Indicated Wtr Rate = 1.01 BWPD
Corrected Oil Rate = 306.39 BOPD
Corrected Wtr Rate = 0.97 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 885 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 11:10 PM TIME STARTED OFF BOTTOM : 1:40 AM
WELL TEMPERATURE : 113
INITIAL HYDROSTATIC PRESSURE (A) 1922
INITIAL FLOW PERIOD MIN: 30 (B) 71 PSI TO (C) : 235
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1308
FINAL FLOW PERIOD MIN: 30 (E) 277 PSI TO (F) : 400
FINAL CLOSED IN PERIOD MIN: 45 (G) 1303
FINAL HYDROSTATIC PRESSURE (H) 1892

COMPANY : RITCHIE EXPLORATION INC.
WELL : #1
GAUGE # : 11018
DATE : 20/10/88

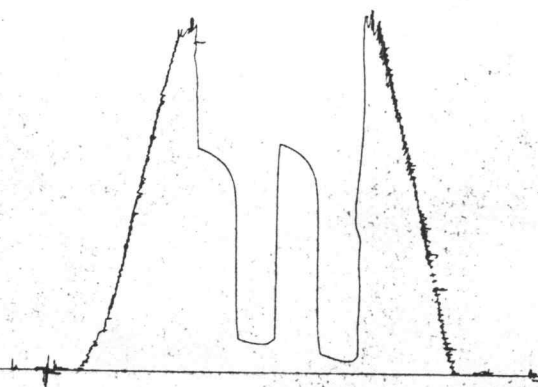
FIELD : JOHN KEMPER
JOB # : 14595
DEPTH : 3760
TEST :

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	11:10: 0	0.000	71.000	113.00	0.000
3	11:14:59	0.083	76.000	113.00	5.000
4	11:20: 0	0.167	111.000	113.00	35.000
5	11:25: 0	0.250	135.000	113.00	24.000
6	11:29:59	0.333	164.000	113.00	29.000
7	11:35: 0	0.417	197.000	113.00	33.000
8	11:40: 0	0.500	235.000	113.00	38.000
INITIAL SHUT-IN					
9	11:43: 0	0.550	1140.000	113.00	905.000
10	11:46: 0	0.600	1213.000	113.00	73.000
11	11:49: 0	0.650	1237.000	113.00	24.000
12	11:52: 0	0.700	1255.000	113.00	18.000
13	11:55: 0	0.750	1267.000	113.00	12.000
14	11:58: 0	0.800	1276.000	113.00	9.000
15	12: 1: 0	0.850	1284.000	113.00	8.000
16	12: 4: 0	0.900	1288.000	113.00	4.000
17	12: 7: 0	0.950	1292.000	113.00	4.000
18	12:10: 0	1.000	1296.000	113.00	4.000
19	12:13: 0	1.050	1299.000	113.00	3.000
20	12:16: 0	1.100	1302.000	113.00	3.000
21	12:19: 0	1.150	1304.000	113.00	2.000
22	12:22: 0	1.200	1306.000	113.00	2.000
23	12:25: 0	1.250	1308.000	113.00	2.000
FINAL FLOW					
24	12:26: 0	1.267	277.000	113.00	-1031.000
25	12:29:59	1.333	282.000	113.00	5.000
26	12:35: 0	1.417	300.000	113.00	18.000
27	12:40: 0	1.500	324.000	113.00	24.000
28	12:44:59	1.583	348.000	113.00	24.000
29	12:50: 0	1.667	375.000	113.00	27.000
30	12:55: 0	1.750	400.000	113.00	25.000
FINAL SHUT-IN					
31	12:58: 0	1.800	1182.000	113.00	782.000
32	13: 1: 0	1.850	1224.000	113.00	42.000
33	13: 4: 0	1.900	1244.000	113.00	20.000
34	13: 7: 0	1.950	1257.000	113.00	13.000
35	13:10: 0	2.000	1266.000	113.00	9.000
36	13:13: 0	2.050	1275.000	113.00	9.000
37	13:16: 0	2.100	1281.000	113.00	6.000
38	13:19: 0	2.150	1286.000	113.00	5.000
39	13:22: 0	2.200	1289.000	113.00	3.000
40	13:25: 0	2.250	1292.000	113.00	3.000
41	13:28: 0	2.300	1295.000	113.00	3.000
42	13:31: 0	2.350	1297.000	113.00	2.000
43	13:34: 0	2.400	1299.000	113.00	2.000
44	13:37: 0	2.450	1301.000	113.00	2.000
45	13:40: 0	2.500	1303.000	113.00	2.000

WESTERN TESTING CO. INC.

TK # 14596

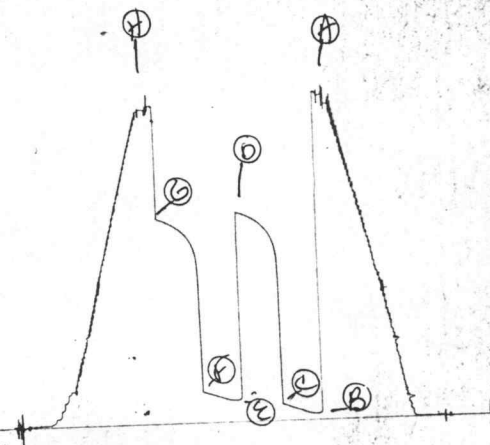
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TKT # 14596

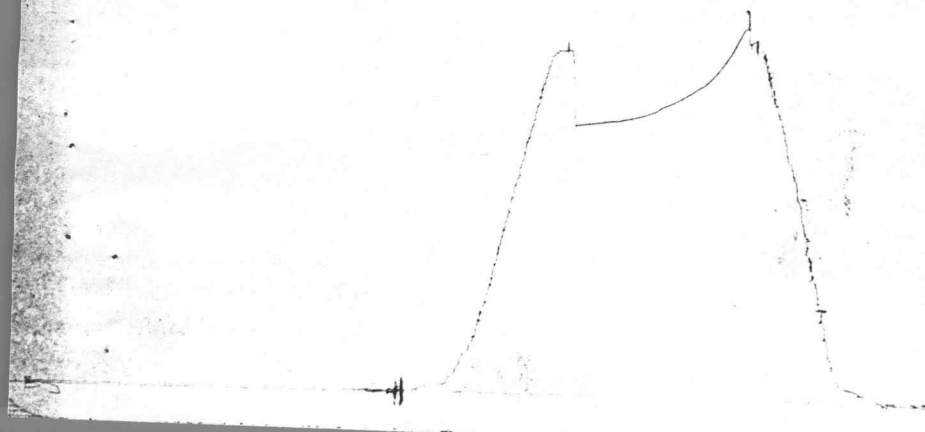
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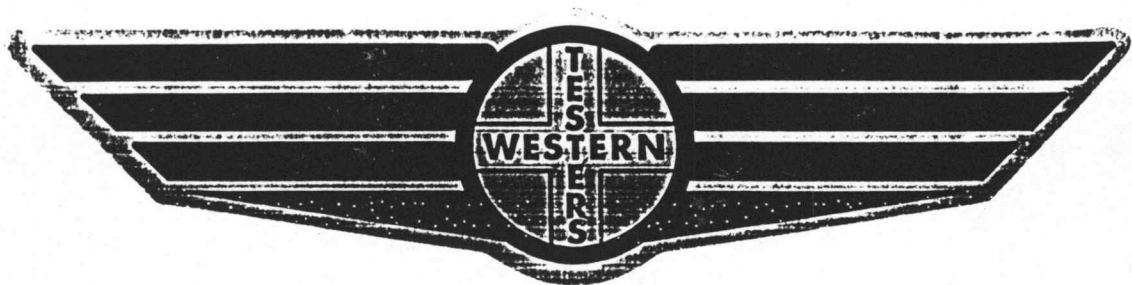


TK # 14596

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	: 10-21-88	TICKET	: 14596
CUSTOMER	: RITCHIE EXPLORATION INC.	LEASE	: JOHN KEMPER
WELL	: #1 TEST: 2	GEOLOGIST	: J CHRISTIAN
ELEVATION	: 2335 KB	FORMATION	: LANSING D
SECTION	: 1	TOWNSHIP	: 6S
RANGE	: 23W	COUNTY	: GRAHAM
GAUGE SN#	: 11018	STATE	: KANSAS
		RANGE	: 4425
		CLOCK	: 12

INTERVAL FROM	: 3592	TO	: 3611	TOTAL DEPTH	: 3760
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3592	SIZE	: 6.63		
PACKER DEPTH	: 3611	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: MURFIN RIG 8		
MUD TYPE	: CHEMICAL	VISCOSITY	: 48
WEIGHT	: 10.0	WATER LOSS (CC)	: 8.0
CHLORIDES (PPM)	: 1100		
JARS-MAKE	: -	SERIAL NUMBER	: -
DID WELL FLOW ?	: -	REVERSED OUT ?	: -

DRILL COLLAR LENGTH	: 0 FT	I.D. inch	: 0.00
WEIGHT PIPE LENGTH	: 0 FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3721 FT	I.D. inch	: 2.75
TEST TOOL LENGTH	: 20 FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 19 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-BOTTOM OF BUCKET 20 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-FAIR BLOW-SLOW BUILD TO 8" IN BUCKET.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 350 FT OF: MUDDY WATER

CHLORIDES: 42000 PPM

Total Barrels Fluid = 2.57
Total Fluid Prod Rate = 61.71 BFPD
Indicated Wtr Rate = 29.97 BWPD

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

SET PACKER(S) : 1:40 PM

TIME STARTED OFF BOTTOM : 3:40 PM

WELL TEMPERATURE : 113

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 30

FINAL HYDROSTATIC PRESSURE

(A) 1881

(B) 36

(D) 1213

(E) 128

(G) 1187

(H) 1841

PSI TO (C) : 94

PSI TO (F) : 176

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RITCHIE EXPLORATION INC.
RIG : GRAHAM-KANSAS
FIELD : JOHN KEMPER
WELL : #1
DATE : 10-21-88
GAUGE NO : 11018

OPERATIONAL COMMENTS

COMPANY : RITCHIE EXPLORATION INC.
WELL : #1
GAUGE # : 11018
DATE : 21/10/88

FIELD : JOHN KEMPER
JOB # : 14596
DEPTH : 3760
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	1:40: 0	0.000	36.000	113.00	0.000
3	1:44:59	0.083	36.000	113.00	0.000
4	1:50: 0	0.167	44.000	113.00	8.000
5	1:55: 0	0.250	57.000	113.00	13.000
6	1:59:59	0.333	71.000	113.00	14.000
7	2: 5: 0	0.417	84.000	113.00	13.000
8	2:10: 0	0.500	94.000	113.00	10.000
INITIAL SHUT-IN					
9	2:13: 0	0.550	1033.000	113.00	939.000
10	2:16: 0	0.600	1085.000	113.00	52.000
11	2:19: 0	0.650	1116.000	113.00	31.000
12	2:22: 0	0.700	1143.000	113.00	27.000
13	2:25: 0	0.750	1163.000	113.00	20.000
14	2:28: 0	0.800	1177.000	113.00	14.000
15	2:31: 0	0.850	1189.000	113.00	12.000
16	2:34: 0	0.900	1200.000	113.00	11.000
17	2:37: 0	0.950	1209.000	113.00	9.000
18	2:40: 0	1.000	1213.000	113.00	4.000
FINAL FLOW					
19	2:41: 0	1.017	128.000	113.00	-1085.000
20	2:44:59	1.083	128.000	113.00	0.000
21	2:50: 0	1.167	132.000	113.00	4.000
22	2:55: 0	1.250	142.000	113.00	10.000
23	2:59:59	1.333	155.000	113.00	13.000
24	3: 5: 0	1.417	168.000	113.00	13.000
25	3:10: 0	1.500	176.000	113.00	8.000
FINAL SHUT-IN					
26	3:13: 0	1.550	1015.000	113.00	839.000
27	3:16: 0	1.600	1059.000	113.00	44.000
28	3:19: 0	1.650	1092.000	113.00	33.000
29	3:22: 0	1.700	1114.000	113.00	22.000
30	3:25: 0	1.750	1132.000	113.00	18.000
31	3:28: 0	1.800	1147.000	113.00	15.000
32	3:31: 0	1.850	1158.000	113.00	11.000
33	3:34: 0	1.900	1171.000	113.00	13.000
34	3:37: 0	1.950	1180.000	113.00	9.000
35	3:40: 0	2.000	1187.000	113.00	7.000

WESTERN TESTING CO. INC.