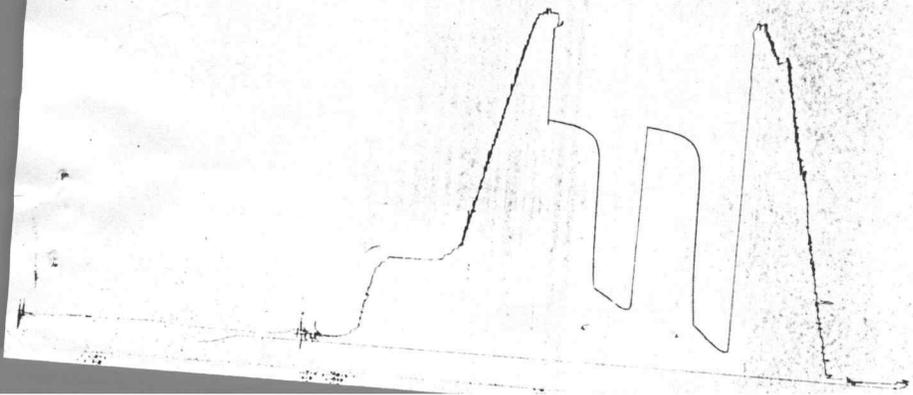


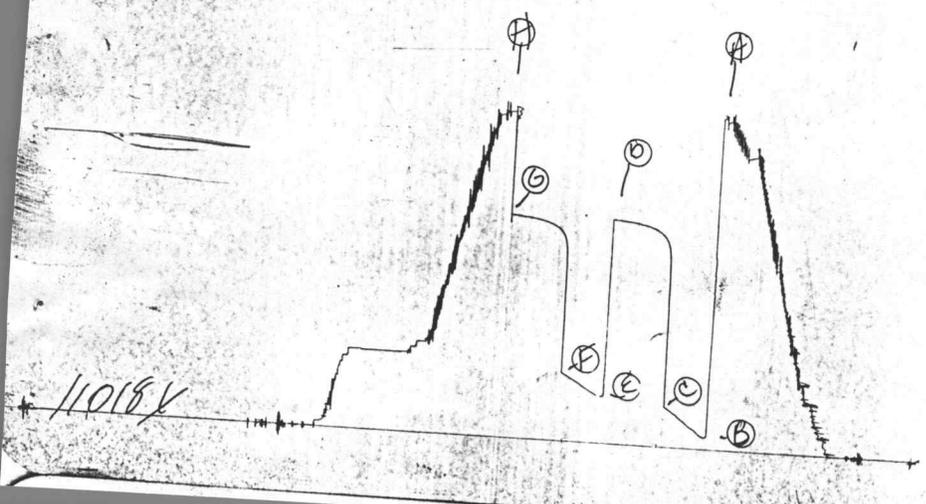
Kt # 14595

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TKt # 14595

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

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

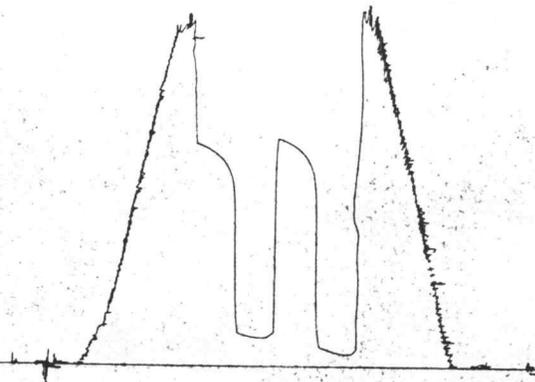
COMPANY : RITCHIE EXPLORATION INC.
 WELL : #1
 GAUGE # : 11018
 DATE : 20/10/88

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	12:01:0	0.850	1284.000	113.00	8.000
16	12:04:0	0.900	1288.000	113.00	4.000
17	12:07:0	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	13:01:0	1.850	1224.000	113.00	42.000
33	13:04:0	1.900	1244.000	113.00	20.000
34	13:07:0	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

TK # 14596

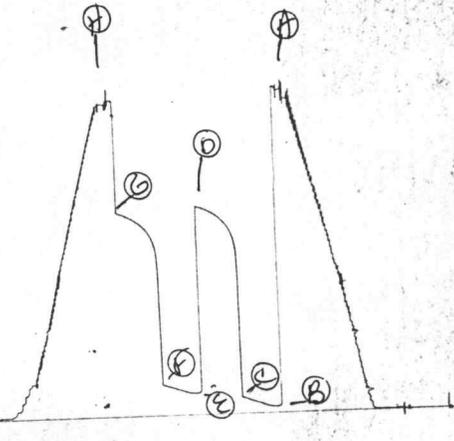
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TKT # 14596

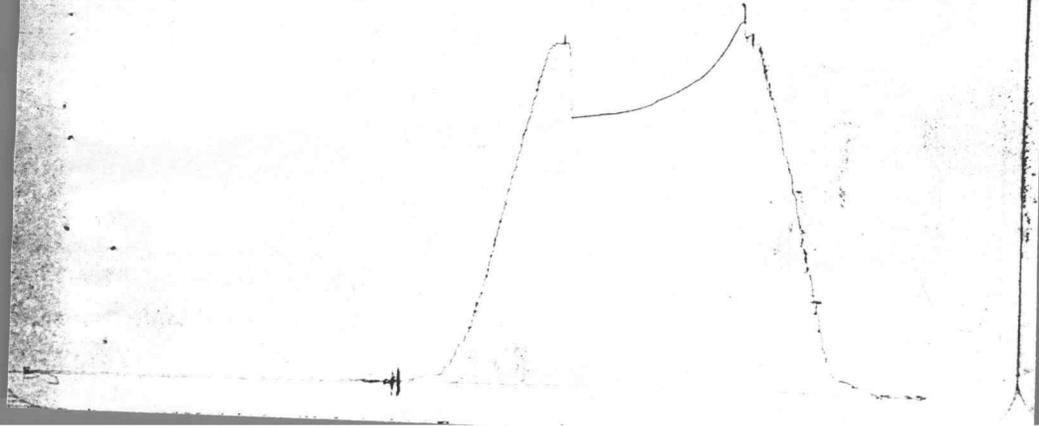
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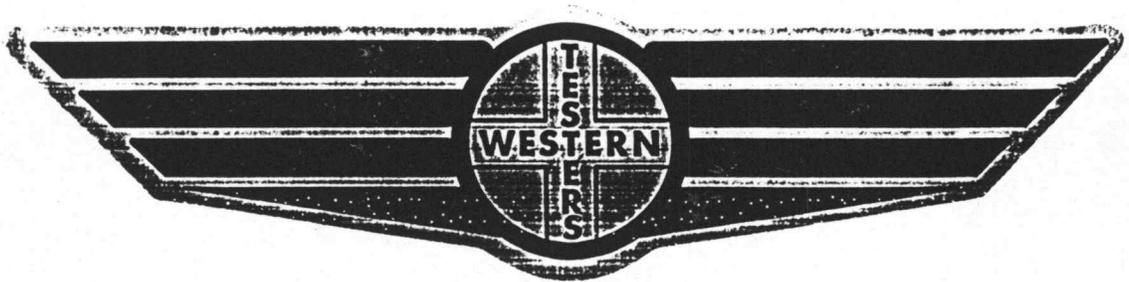


TK # 14596

Below Straddle



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RITCHIE EXPLORATION INC. LEASE & WELL NO. JOHN KEMPER #1 SEC. 1 TWP. 6S RGE. 23W TEST NO. 2 DATE 10/21/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

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

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.