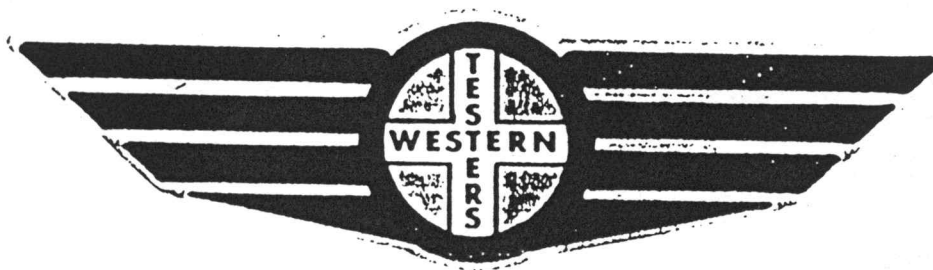


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	8-11-88	TICKET	:	12767
CUSTOMER	:	RITCHIE EXPLORATION INC.	LEASE	:	SHUCK-9B
WELL	:	#1 TEST: 1	GEOLOGIST	:	J CHRISTIAN
ELEVATION	:	2428 KB	FORMATION	:	TORONTO
SECTION	:	9	TOWNSHIP	:	6S
RANGE	:	23W	COUNTY	:	GRAHAM
GAUGE SN#	:	1566	RANGE	:	4300
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	3577	TO	:	3619	TOTAL DEPTH	:	3619
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3572	SIZE	:	6.75			
PACKER DEPTH	:	3577	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	MURFIN RIG 8			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	39
WEIGHT	:	9.1	WATER LOSS (CC)	:	8
CHLORIDES (PPM)	:	3000			
JARS-MAKE	:	-	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3557	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	42	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 8" IN BUCKET
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW BUILDING TO BOTTOM OF BUCKET IN
25 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: MUD CUT OIL
30% MUD-70% OIL
RECOVERED : 60 FT OF: OIL CUT MUD
75% MUD-25% OIL

CHLORIDES: 4000 PPM

Total Barrels Fluid = 1.26
Total Fluid Prod Rate = 30.30 RFPD
Indicated Oil Rate = 12.12 BOPD
Indicated Wtr Rate = 1.82 BWPD
Corrected Oil Rate = 15.55 BOPD
Corrected Wtr Rate = 2.33 BWPD

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

SET PACKER(S) : 12:40 AM

WELL TEMPERATURE : 112

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 45

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 42

FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM : 3:10 AM

(A) 1824

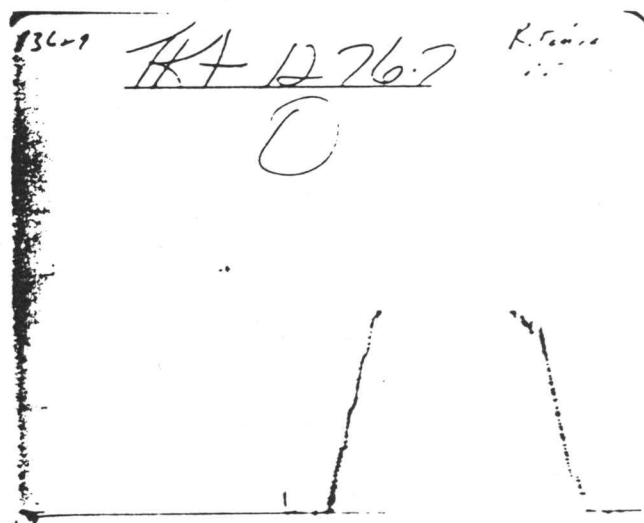
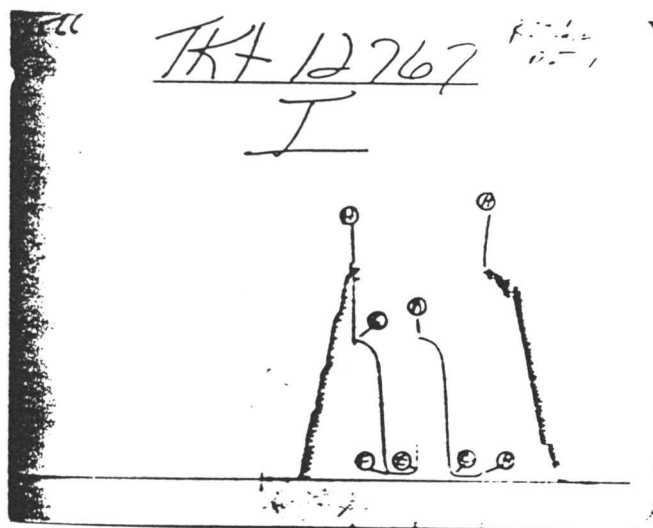
(B) 49 PSI TO (C) : 49

(D) 1241

(E) 66 PSI TO (F) : 66

(G) 1214

(H) 1824



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RITCHIE EXPLORATION INC.
RIG : GRAHAM-KANSAS
FIELD : SHUCK-98
WELL : #1
DATE : 8-11-88
GAUGE NO : 1566

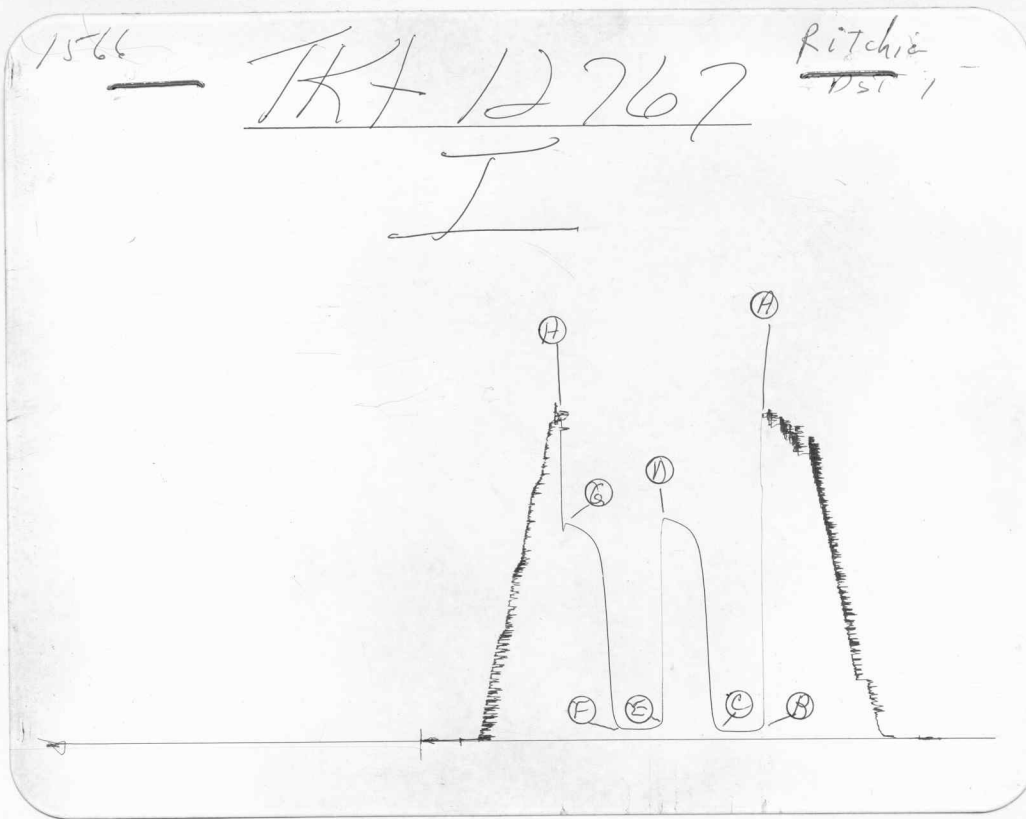
OPERATIONAL COMMENTS

COMPANY : RITCHIE EXPLORATION INC.
WELL : #1
GAUGE # : 1566
DATE : 11/ 8/88

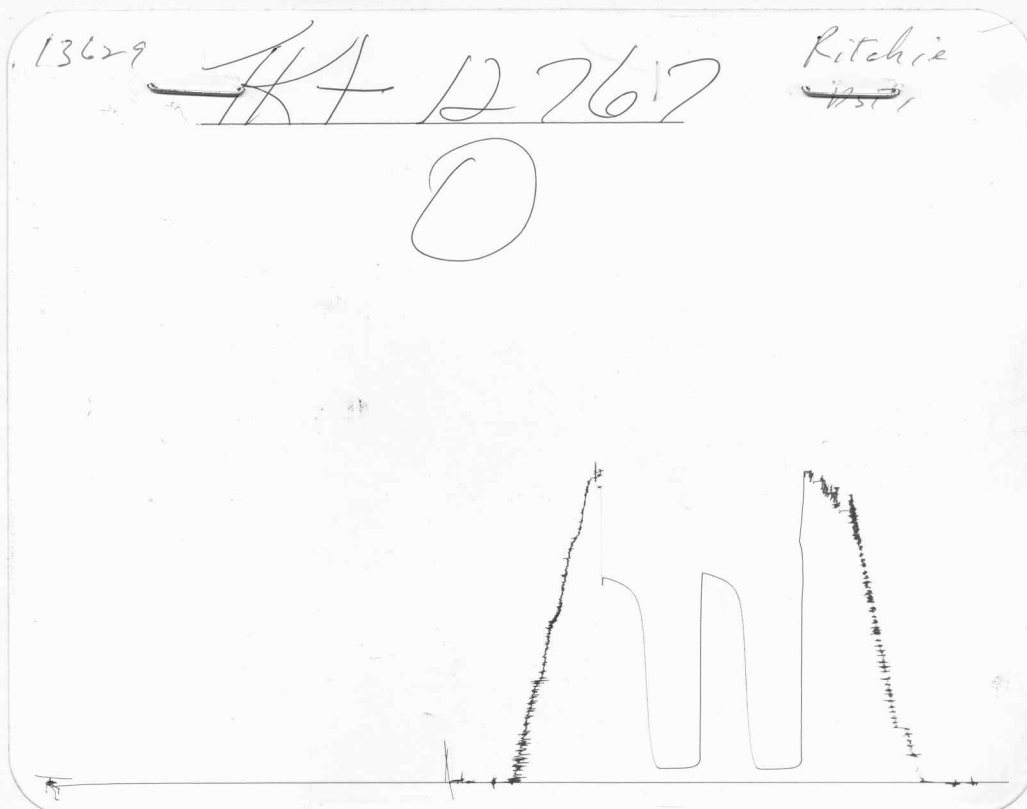
FIELD : SHUCK-9B
JOB # : 12767
DEPTH : 3619
TEST :

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	12:40: 0	0.000	49.000	112.00	0.000
3	12:44:59	0.083	49.000	112.00	0.000
4	12:50: 0	0.167	49.000	112.00	0.000
5	12:55: 0	0.250	49.000	112.00	0.000
6	12:59:59	0.333	49.000	112.00	0.000
7	13: 5: 0	0.417	49.000	112.00	0.000
8	13:10: 0	0.500	49.000	112.00	0.000
INITIAL SHUT-IN					
9	13:13: 0	0.550	54.000	112.00	5.000
10	13:16: 0	0.600	79.000	112.00	25.000
11	13:19: 0	0.650	238.000	112.00	159.000
12	13:22: 0	0.700	693.000	112.00	455.000
13	13:25: 0	0.750	960.000	112.00	267.000
14	13:28: 0	0.800	1085.000	112.00	125.000
15	13:31: 0	0.850	1133.000	112.00	48.000
16	13:34: 0	0.900	1171.000	112.00	38.000
17	13:37: 0	0.950	1187.000	112.00	16.000
18	13:40: 0	1.000	1203.000	112.00	16.000
19	13:43: 0	1.050	1213.000	112.00	10.000
20	13:46: 0	1.100	1225.000	112.00	12.000
21	13:49: 0	1.150	1231.000	112.00	6.000
22	13:52: 0	1.200	1238.000	112.00	7.000
23	13:55: 0	1.250	1241.000	112.00	3.000
FINAL FLOW					
24	13:56: 0	1.267	66.000	112.00	-1175.000
25	13:59:59	1.333	66.000	112.00	0.000
26	14: 5: 0	1.417	66.000	112.00	0.000
27	14:10: 0	1.500	66.000	112.00	0.000
28	14:14:59	1.583	66.000	112.00	0.000
29	14:20: 0	1.667	66.000	112.00	0.000
30	14:25: 0	1.750	66.000	112.00	0.000
FINAL SHUT-IN					
31	14:28: 0	1.800	84.000	112.00	18.000
32	14:31: 0	1.850	140.000	112.00	56.000
33	14:34: 0	1.900	457.000	112.00	317.000
34	14:37: 0	1.950	830.000	112.00	373.000
35	14:40: 0	2.000	1008.000	112.00	178.000
36	14:43: 0	2.050	1086.000	112.00	78.000
37	14:46: 0	2.100	1123.000	112.00	37.000
38	14:49: 0	2.150	1147.000	112.00	24.000
39	14:52: 0	2.200	1166.000	112.00	19.000
40	14:55: 0	2.250	1180.000	112.00	14.000
41	14:58: 0	2.300	1194.000	112.00	14.000
42	15: 1: 0	2.350	1203.000	112.00	9.000
43	15: 4: 0	2.400	1210.000	112.00	7.000
44	15: 7: 0	2.450	1214.000	112.00	4.000

WESTERN TESTING CO. INC.

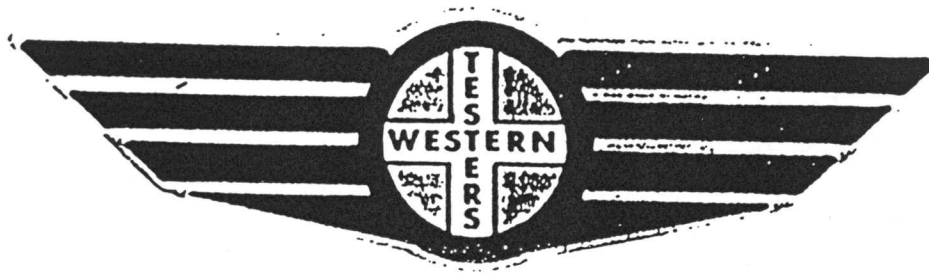


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RITCHIE EXPLORATION INC. LEASE & WELL NO. SHUCK-9B #1 SEC. 9 TWP. 6S RGE. 23W TEST NO. 2 DATE 8/12/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	8-12-88	TICKET	:	12768
CUSTOMER	:	RITCHIE EXPLORATION INC.	LEASE	:	SHUCK-9B
WELL	:	#1	TEST:	:	?
ELEVATION	:	2428 KB	GEOLOGIST	:	J CHRISTIAN
SECTION	:	9	FORMATION	:	LANSING A
RANGE	:	23W	TOWNSHIP	:	6S
GAUGE SN#	:	1566	COUNTY	:	GRAHAM
			RANGE	:	4300
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	3611	TO	:	3640	TOTAL DEPTH	:	3640
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3611	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	MURFIN RIG 8			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	51
WEIGHT	:	9.4	WATER LOSS (CC)	:	8.8
CHLORIDES (PPM)	:	1100			
JARS-MAKE	:	-	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	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	:	3596	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	15	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	29	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 : STRONG BLOW-BOTTOM OF BUCKET IN 5 MINUTES ON
BLOW COMMENT #2 : BOTH INITIAL AND FINAL FLOW PERIODS.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 414 FT OF: CLEAN GASSY OIL
 38 GRAVITY @ 92 DEG. 35 CORRECTED
 RECOVERED : 124 FT OF: OIL & WATER CUT MUD
 30% MUD-30% WTR-30% OIL-10% GAS
 RECOVERED : 124 FT OF: OIL & WATER CUT MUD
 35% MUD-35% WTR-10% OIL-20% GAS
 RECOVERED : 124 FT OF: SLIGHTLY OIL CUT MUDDY WATER
 20% MUD-75% WTR-5% OIL
 RECOVERED : 124 FT OF: SALT WATER /WITH SCUM OF OIL

CHLORIDES: 53000 PPM

Total Barrels Fluid = 12.76
 Total Fluid Prod Rate = 306.34 BFPPD
 Indicated Oil Rate = 161.58 BOPD
 Indicated Wtr Rate = 101.33 BWPD
 Corrected Oil Rate = 263.46 BOPD
 Corrected Wtr Rate = 165.21 BWPD

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

SET PACKER(S) : 1:00 PM

WELL TEMPERATURE : 112

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

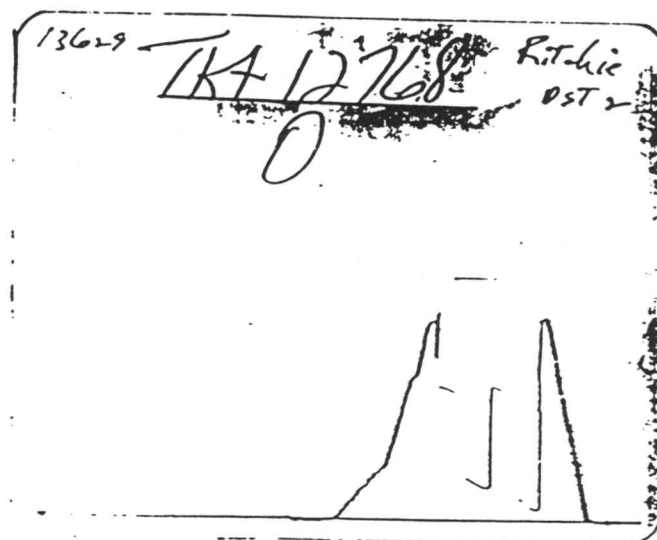
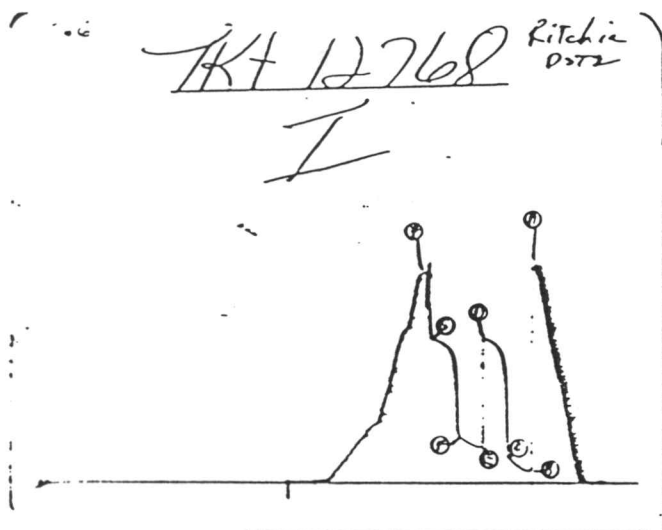
FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 30

FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM : 3:00 PM

(A) 1878
 (B) 106 PSI TO (C) : 215
 (D) 1246
 (E) 311 PSI TO (F) : 394
 (G) 1240
 (H) 1820



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RITCHIE EXPLORATION INC.
RIG : GRAHAM-KANSAS
FIELD : SHUCK-9B
WELL : #1
DATE : 8-12-88
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : RITCHIE EXPLORATION INC.
WELL : #1
GAUGE # : 1566
DATE : 12/ 8/88

FIELD : SHUCK-9B
JOB # : 12768
DEPTH : 3640
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: 0: 0	0.000	106.000	112.00	0.000
3	1: 4: 59	0.083	106.000	112.00	0.000
4	1:10: 0	0.167	118.000	112.00	12.000
5	1:15: 0	0.250	144.000	112.00	26.000
6	1:19:59	0.333	166.000	112.00	22.000
7	1:25: 0	0.417	200.000	112.00	34.000
8	1:30: 0	0.500	215.000	112.00	15.000
INITIAL SHUT-IN					
9	1:33: 0	0.550	928.000	112.00	713.000
10	1:36: 0	0.600	1074.000	112.00	146.000
11	1:39: 0	0.650	1131.000	112.00	57.000
12	1:42: 0	0.700	1165.000	112.00	34.000
13	1:45: 0	0.750	1193.000	112.00	28.000
14	1:48: 0	0.800	1210.000	112.00	17.000
15	1:51: 0	0.850	1225.000	112.00	15.000
16	1:54: 0	0.900	1233.000	112.00	8.000
17	1:57: 0	0.950	1242.000	112.00	9.000
18	2: 0: 0	1.000	1246.000	112.00	4.000
FINAL FLOW					
19	2: 1: 0	1.017	311.000	112.00	-935.000
20	2: 4: 59	1.083	311.000	112.00	0.000
21	2:10: 0	1.167	323.000	112.00	12.000
22	2:15: 0	1.250	341.000	112.00	18.000
23	2:19:59	1.333	362.000	112.00	21.000
24	2:25: 0	1.417	383.000	112.00	21.000
25	2:30: 0	1.500	394.000	112.00	11.000
FINAL SHUT-IN					
26	2:33: 0	1.550	887.000	112.00	493.000
27	2:36: 0	1.600	1074.000	112.00	187.000
28	2:39: 0	1.650	1130.000	112.00	56.000
29	2:42: 0	1.700	1162.000	112.00	32.000
30	2:45: 0	1.750	1182.000	112.00	20.000
31	2:48: 0	1.800	1201.000	112.00	19.000
32	2:51: 0	1.850	1213.000	112.00	12.000
33	2:54: 0	1.900	1224.000	112.00	11.000
34	2:57: 0	1.950	1232.000	112.00	8.000
35	3: 0: 0	2.000	1240.000	112.00	8.000

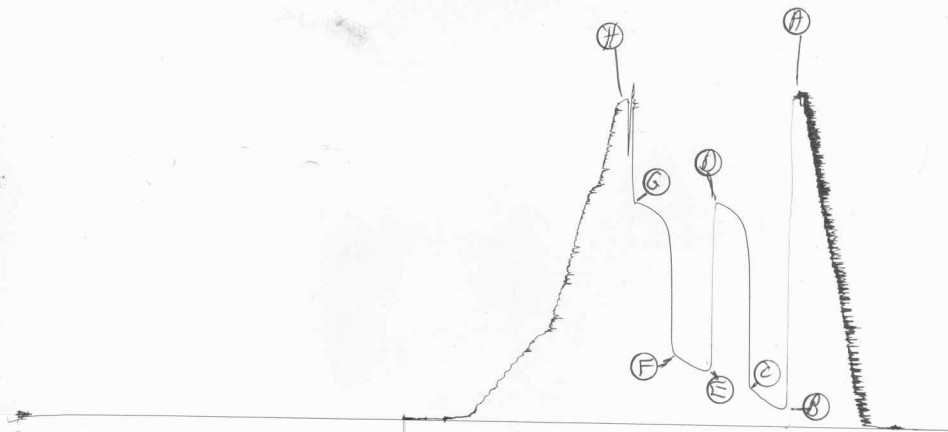
WESTERN TESTING CO. INC.

~~11766~~

KT 12768

Ritchie
DST 2

I



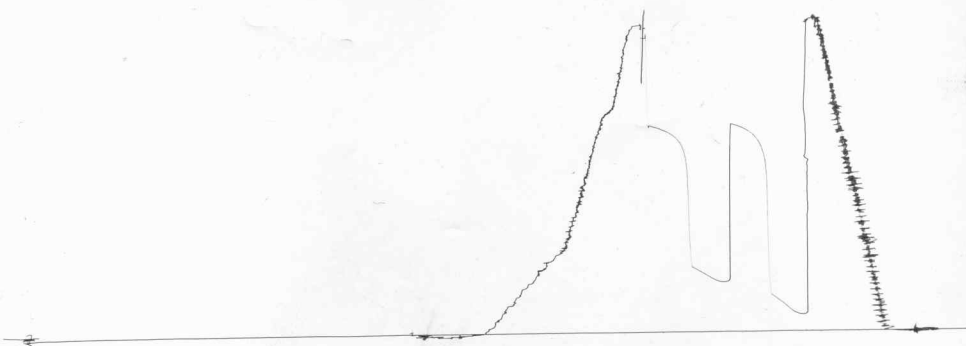
Inside Recorder

~~13629~~

KT 12768

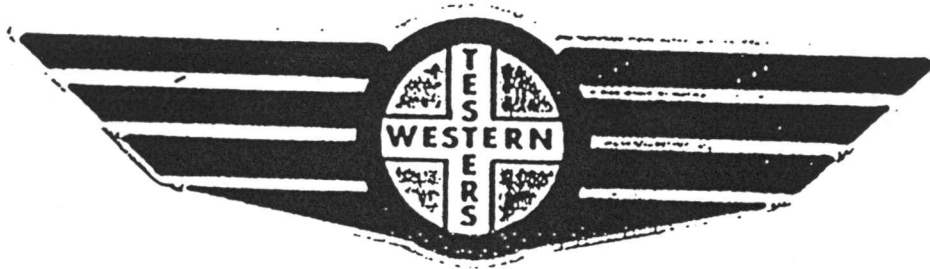
Ritchie
DST 2

O



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RITCHIE EXPLORATION INC. LEASE & WELL NO. SHUCK-9B #1 SEC. 9 TWP. 6S RCE. 23W TEST NO. 3 DATE 8/13/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-13-88 TICKET : 12769
CUSTOMER : RITCHIE EXPLORATION INC. LEASE : SHUCK-98
WELL : #1 TEST: 3 GEOLOGIST : J CHRISTIAN
ELEVATION : 2428 KB FORMATION : LANSING C
SECTION : 9 TOWNSHIP : 6S
RANGE : 23W COUNTY : GRAHAM STATE : KANSAS
GAUGE SN# : 1566 RANGE : 4300 CLOCK : 12

INTERVAL FROM : 3634 TO : 3662 TOTAL DEPTH : 3662

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3634 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 8
MUD TYPE : CHEMICAL VISCOSITY : 51
WEIGHT : 9.4 WATER LOSS (CC) : 8.8
CHLORIDES (PPM) : 1100
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO 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 : 3619 FT I.D. inch : 3.80
TEST TOOL LENGTH : 15 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 28 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 IN 3 MINUTES
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET 3 MINUTES
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 1170 FT OF: MUDDY WATER

CHLORIDES: 55000 PPM

Total Barrels Fluid = 16.41
Total Fluid Prod Rate = 429.67 BFPD
Indicated Wtr Rate = 214.83 BWPD

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

SET PACKER(S) : 3:30 AM
WELL TEMPERATURE : 113

TIME STARTED OFF BOTTOM : 5:30 AM

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 25

FINAL CLOSED IN PERIOD MIN: 30

FINAL HYDROSTATIC PRESSURE

(A) 1855

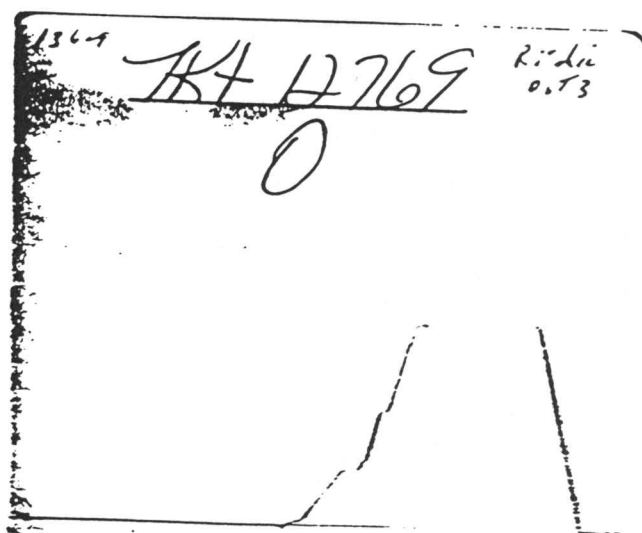
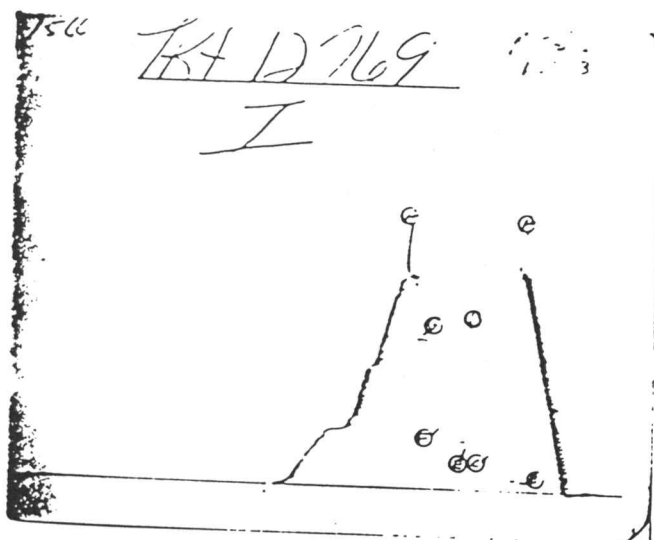
(B) 98 PSI TO (C) : 319

(D) 1297

(E) 422 PSI TO (F) : 562

(G) 1297

(H) 1837



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RITCHIE EXPLORATION INC.
RIG : GRAHAM-KANSAS
FIELD : SHUCK-9B
WELL : #1
DATE : 8-13-88
GAUGE NO : 1566

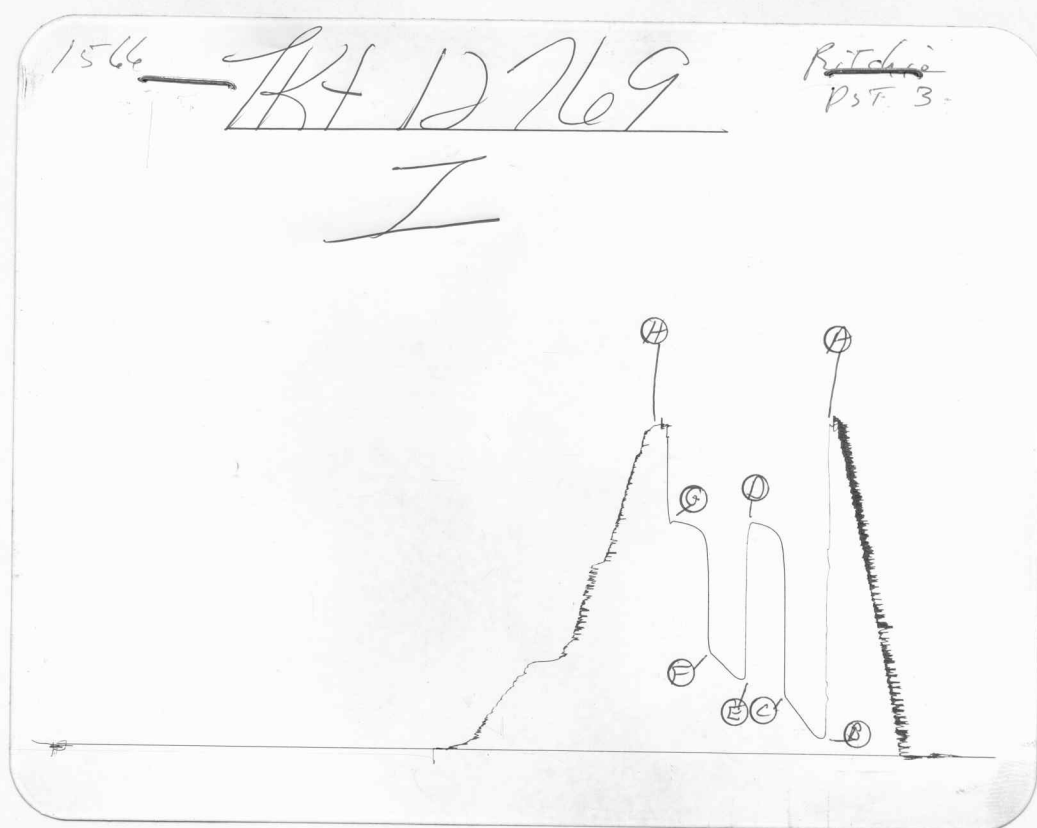
OPERATIONAL COMMENTS

COMPANY : RITCHIE EXPLORATION INC.
WELL : #1
GAUGE # : 1566
DATE : 13/ 8/88

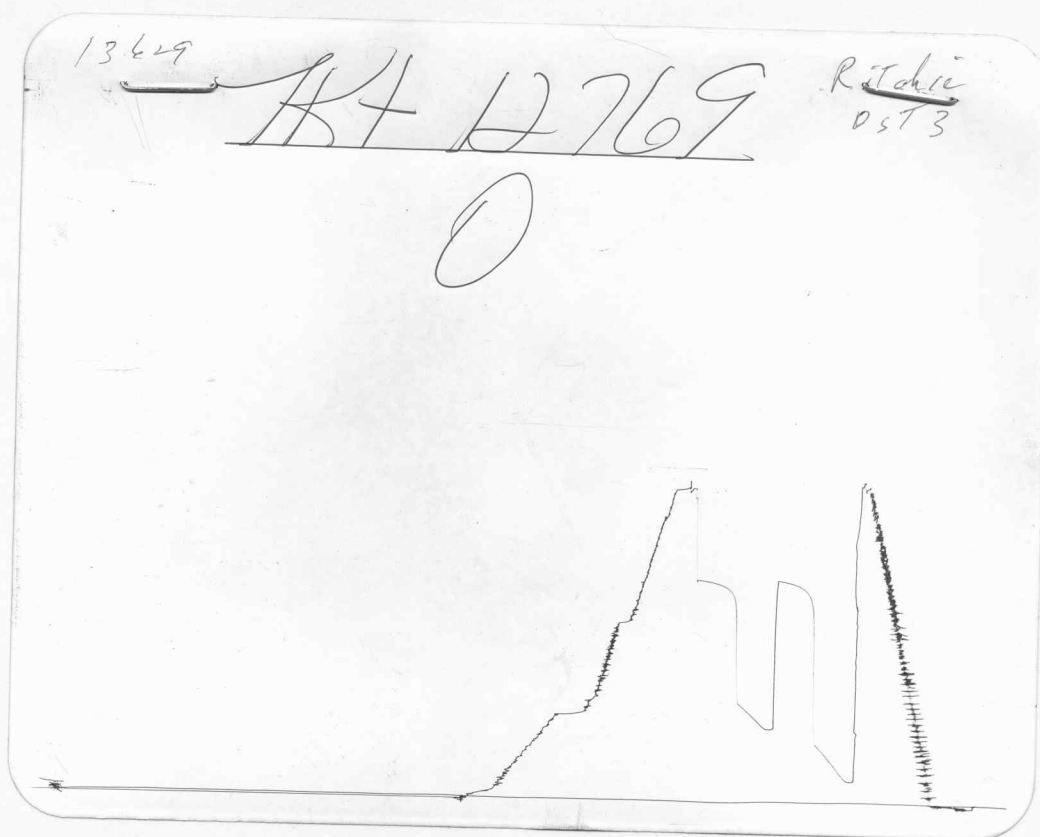
FIELD : SHUCK-9B
JOB # : 12769
DEPTH : 3662
TEST :

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	3:30: 0	0.000	98.000	113.00	0.000
3	3:34:59	0.083	98.000	113.00	0.000
4	3:40: 0	0.167	125.000	113.00	27.000
5	3:45: 0	0.250	171.000	113.00	46.000
6	3:49:59	0.333	224.000	113.00	53.000
7	3:55: 0	0.417	273.000	113.00	49.000
8	4: 0: 0	0.500	319.000	113.00	46.000
INITIAL SHUT-IN					
9	4: 3: 0	0.550	1013.000	113.00	694.000
10	4: 6: 0	0.600	1193.000	113.00	180.000
11	4: 9: 0	0.650	1231.000	113.00	38.000
12	4:12: 0	0.700	1254.000	113.00	23.000
13	4:15: 0	0.750	1263.000	113.00	9.000
14	4:18: 0	0.800	1278.000	113.00	15.000
15	4:21: 0	0.850	1286.000	113.00	8.000
16	4:24: 0	0.900	1291.000	113.00	5.000
17	4:27: 0	0.950	1294.000	113.00	3.000
18	4:30: 0	1.000	1297.000	113.00	3.000
FINAL FLOW					
19	4:31: 0	1.017	422.000	113.00	-875.000
20	4:34:59	1.083	425.000	113.00	3.000
21	4:40: 0	1.167	454.000	113.00	29.000
22	4:45: 0	1.250	492.000	113.00	38.000
23	4:49:59	1.333	527.000	113.00	35.000
24	4:55: 0	1.417	562.000	113.00	35.000
FINAL SHUT-IN					
25	4:58: 0	1.467	1078.000	113.00	516.000
26	5: 1: 0	1.517	1214.000	113.00	136.000
27	5: 4: 0	1.567	1246.000	113.00	32.000
28	5: 7: 0	1.617	1263.000	113.00	17.000
29	5:10: 0	1.667	1273.000	113.00	10.000
30	5:13: 0	1.717	1281.000	113.00	8.000
31	5:16: 0	1.767	1287.000	113.00	6.000
32	5:19: 0	1.817	1291.000	113.00	4.000
33	5:22: 0	1.867	1295.000	113.00	4.000
34	5:25: 0	1.917	1297.000	113.00	2.000

WESTERN TESTING CO. INC.

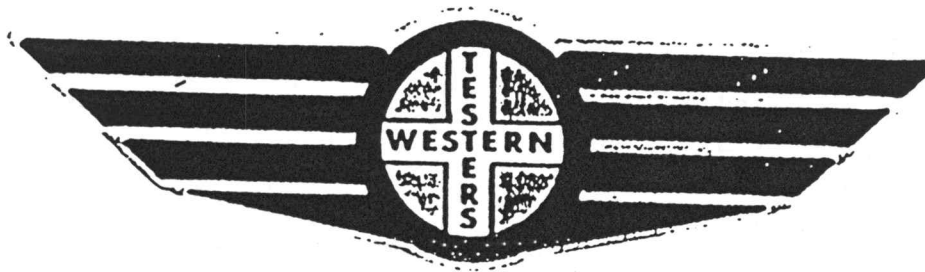


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RITCHIE EXPLORATION INC.

LEASE & WELL NO. SHUCK-9B #1

SEC. 9 TWP. 6S RGE. 23W TEST NO. 4 DATE 8/13/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-13-88
CUSTOMER : RITCHIE EXPLORATION INC.
WELL : #1 TEST: 4
ELEVATION : 2428 KB
SECTION : 9
RANGE : 23W COUNTY : GRAHAM
GAUGE SN# : 1566 RANGE : 4300
TICKET : 12770
LEASE : SHUCK-98
GEOLOGIST : J CHRISTIAN
FORMATION : LANSING D
TOWNSHIP : 6S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3659 TO : 3680 TOTAL DEPTH : 3680
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3659 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 8
MUD TYPE : CHEMICAL VISCOSITY : 45
WEIGHT : 9.5 WATER LOSS (CC) : 8.2
CHLORIDES (PPM) : 4000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO 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 : 3644 FT I.D. inch : 3.80
TEST TOOL LENGTH : 15 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 21 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 : STRONG BLOW-BOTTOM OF BUCKET 1 MINUTE ON BOTH FLOWS
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: CLEAN OIL
 39 GRAVITY @ 96 DEG. 36 CORRECTED
 RECOVERED : 60 FT OF: OIL & WATER CUT MUD
 55% MUD-40% WATER-5% OIL
 RECOVERED : 120 FT OF: OIL & WATER CUT MUD
 50% MUD-40% WATER-5% OIL-5% GAS
 RECOVERED : 1560 FT OF: SLIGHTLY OIL & MUD CUT WATER
 2% MUD-95% WATER-3% OIL

CHLORIDES: 52000 PPM

Total Barrels Fluid = 24.69
 Total Fluid Prod Rate = 592.47 BFPD
 Indicated Oil Rate = 25.58 BOPD
 Indicated Wtr Rate = 527.17 BWPD
 Corrected Oil Rate = 603.71 BOPD
 Corrected Wtr Rate = 12439.65 BWPD

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

SET PACKER(S) : 4:45 PM

TIME STARTED OFF BOTTOM : 6:45 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) 1872

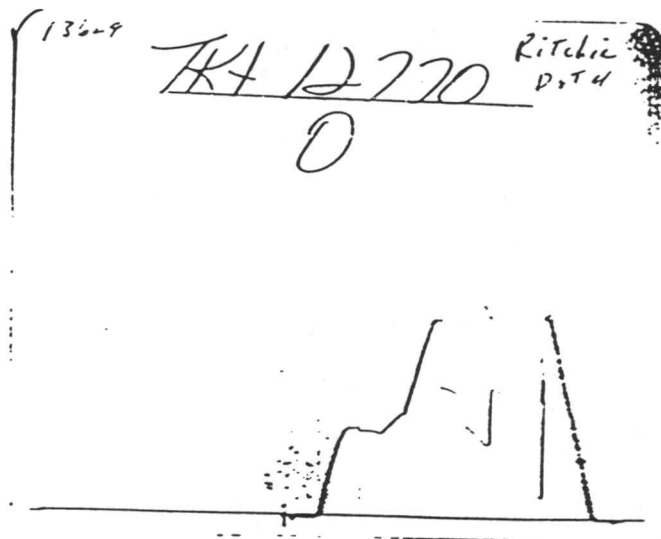
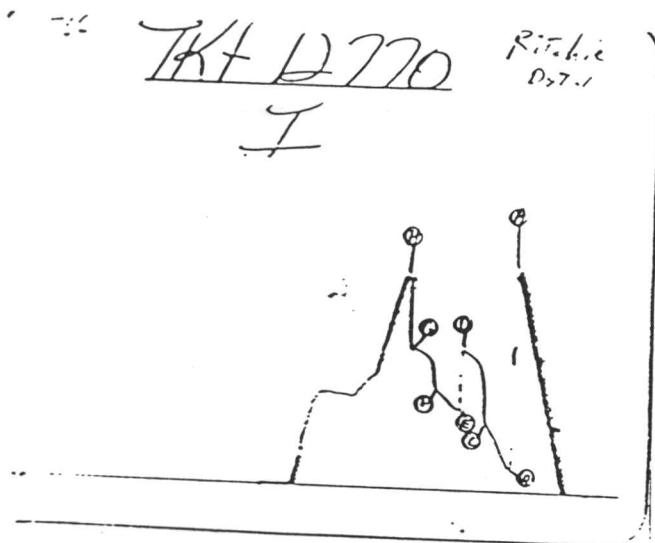
(B) 202 PSI TO (C) : 564

(D) 1213

(E) 703 PSI TO (F) : 858

(G) 1217

(H) 1834



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RITCHIE EXPLORATION INC.
RIG : GRAHAM-KANSAS
FIELD : SHUCK-9B
WELL : #1
DATE : 8-13-88
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : RITCHIE EXPLORATION INC.

WELL : #1

GAUGE # : 1566

DATE : 13/ 8/88

FIELD : SHUCK-9B

JOB # : 12770

DEPTH : 3680

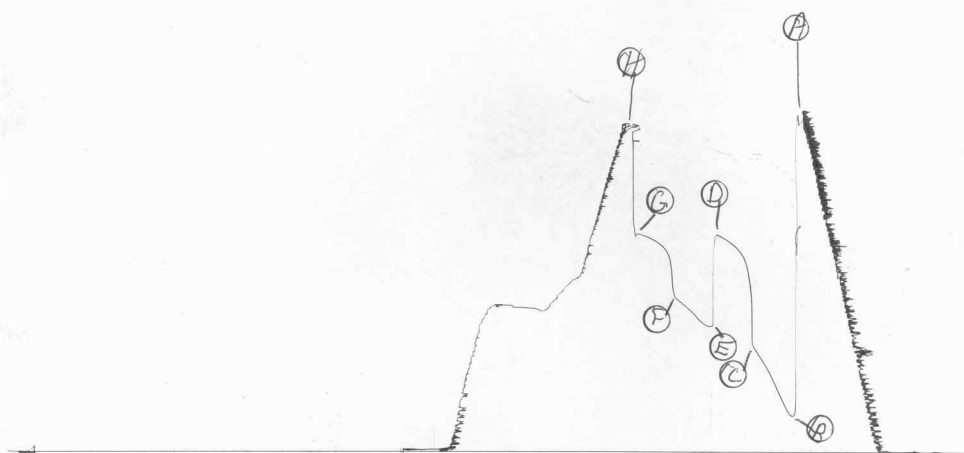
TEST :

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	4:45: 0	0.000	202.000	113.00	0.000
3	4:49:59	0.083	211.000	113.00	9.000
4	4:55: 0	0.167	282.000	113.00	71.000
5	5: 0: 0	0.250	364.000	113.00	82.000
6	5: 4:59	0.333	443.000	113.00	79.000
7	5:10: 0	0.417	510.000	113.00	67.000
8	5:15: 0	0.500	564.000	113.00	54.000
INITIAL SHUT-IN					
9	5:18: 0	0.550	710.000	113.00	146.000
10	5:21: 0	0.600	989.000	113.00	279.000
11	5:24: 0	0.650	1078.000	113.00	89.000
12	5:27: 0	0.700	1111.000	113.00	33.000
13	5:30: 0	0.750	1138.000	113.00	27.000
14	5:33: 0	0.800	1161.000	113.00	23.000
15	5:36: 0	0.850	1175.000	113.00	14.000
16	5:39: 0	0.900	1193.000	113.00	18.000
17	5:42: 0	0.950	1204.000	113.00	11.000
18	5:45: 0	1.000	1213.000	113.00	9.000
FINAL FLOW					
19	5:46: 0	1.017	703.000	113.00	-510.000
20	5:49:59	1.083	708.000	113.00	5.000
21	5:55: 0	1.167	736.000	113.00	28.000
22	6: 0: 0	1.250	778.000	113.00	42.000
23	6: 4:59	1.333	810.000	113.00	32.000
24	6:10: 0	1.417	838.000	113.00	28.000
25	6:15: 0	1.500	858.000	113.00	20.000
FINAL SHUT-IN					
26	6:18: 0	1.550	1087.000	113.00	229.000
27	6:21: 0	1.600	1131.000	113.00	44.000
28	6:24: 0	1.650	1156.000	113.00	25.000
29	6:27: 0	1.700	1170.000	113.00	14.000
30	6:30: 0	1.750	1184.000	113.00	14.000
31	6:33: 0	1.800	1197.000	113.00	13.000
32	6:36: 0	1.850	1204.000	113.00	7.000
33	6:39: 0	1.900	1210.000	113.00	6.000
34	6:42: 0	1.950	1215.000	113.00	5.000
35	6:45: 0	2.000	1217.000	113.00	2.000

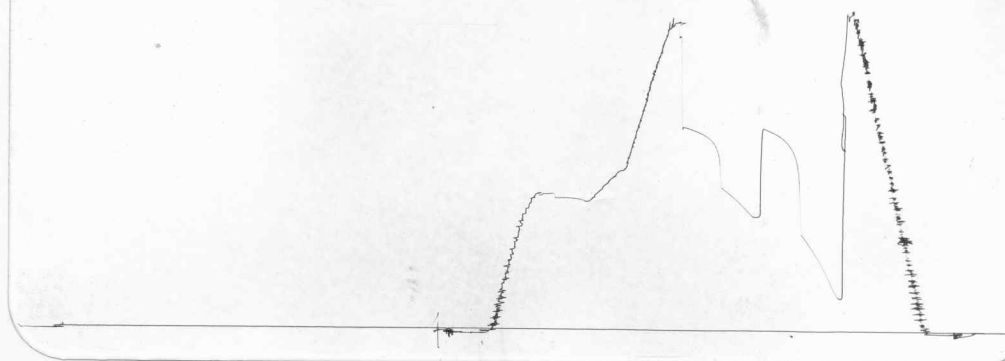
WESTERN TESTING CO. INC.

1564 — KT 12770 Ritchie
DST 4
I



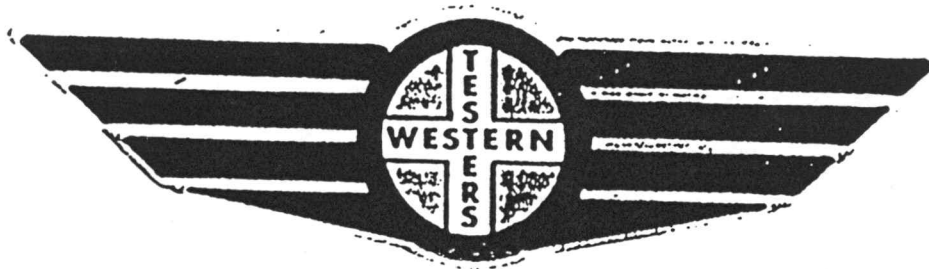
Inside Recorder

13629 — KT 12770 Ritchie
DST 4
O



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RITCHIE EXPLORATION INC. LEASE & WELL NO. SHUCK-9B #1 SEC. 9 TWP. 6S RGE. 23W TEST NO. 5 DATE 8/14/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	8-14-88	TICKET	:	12771
CUSTOMER	:	RITCHIE EXPLORATION INC.	LEASE	:	SHUCK-9B
WELL	:	#1	TEST:	:	5
ELEVATION	:	2428 KB	GEOLOGIST	:	J CHRISTIAN
SECTION	:	9	FORMATION	:	LANSING H
RANGE	:	23W	TOWNSHIP	:	6S
GAUGE SN#	:	1566	COUNTY	:	GRAHAM
			RANGE	:	4300
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	3718	TO	:	3752	TOTAL DEPTH	:	3752
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3718	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	MURFIN RIG 8			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	40
WEIGHT	:	9.5	WATER LOSS (CC)	:	10.8
CHLORIDES (PPM)	:	6000			
JARS-MAKE	:	-	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3703	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	15	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	34	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-BOTTOM OF
BUCKET IN 35 MINUTES.

BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW BUILDING TO STRONG-BOTTOM OF
BUCKET IN 40 MINUTES.

BLOW COMMENT #3 :

BLOW COMMENT #4 :

RECOVERED : 5 FT OF: FREE OIL
 38 GRAVITY @ 94 DEG. 35 CORRECTED
 RECOVERED : 75 FT OF: SLIGHTLY OIL CUT WATERY MUD
 70% MUD-25% WATER-5% OIL
 RECOVERED : 60 FT OF: SLIGHTLY OIL CUT WATERY MUD
 60% MUD-35% WATER-5% OIL
 RECOVERED : 120 FT OF: MUDDY WATER / WITH SCUM OF OIL

CHLORIDES: 53000 PPM

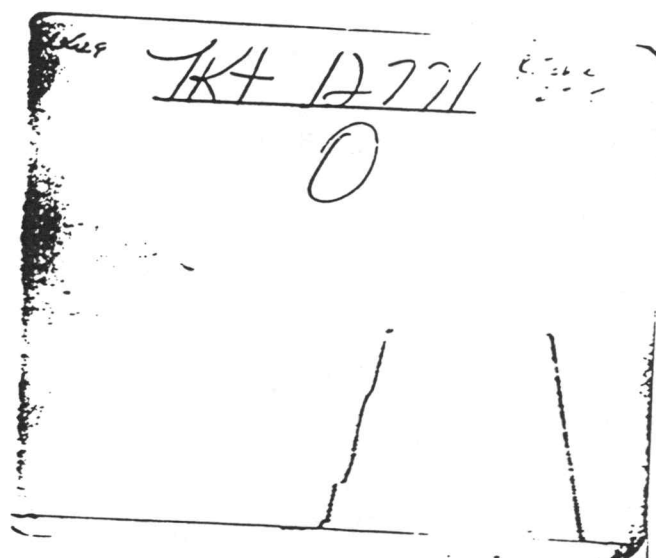
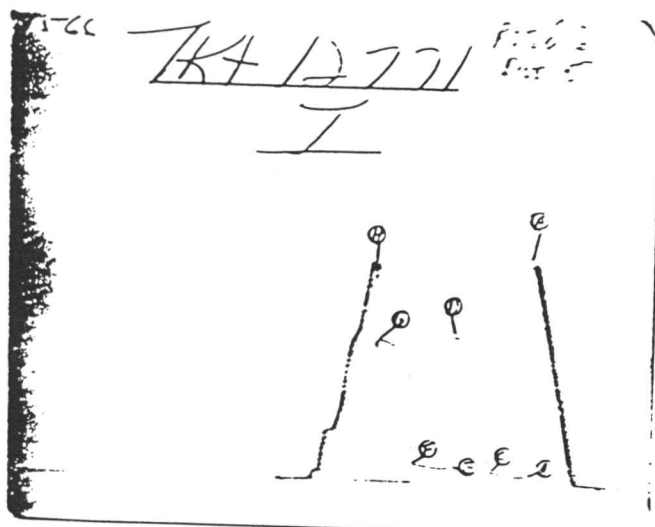
Total Barrels Fluid = 3.65
 Total Fluid Prod Rate = 58.35 BFPD
 Indicated Oil Rate = 2.92 BOPD
 Indicated Wtr Rate = 32.32 BWPD
 Corrected Oil Rate = 55.50 BOPD
 Corrected Wtr Rate = 614.74 BWPD

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

SET PACKER(S) : 11:00 AM
 WELL TEMPERATURE : 114
 INITIAL HYDROSTATIC PRESSURE
 INITIAL FLOW PERIOD MIN: 45
 INITIAL CLOSED IN PERIOD MIN: 45
 FINAL FLOW PERIOD MIN: 45
 FINAL CLOSED IN PERIOD MIN: 45
 FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM : 2:00 PM

(A) 1908
 (B) 65 PSI TO (C) : 98
 (D) 1268
 (E) 127 PSI TO (F) : 156
 (G) 1238
 (H) 1887



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RITCHIE EXPLORATION INC.
RIG : GRAHAM-KANSAS
FIELD : SHUCK-9B
WELL : #1
DATE : 8-14-88
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : RITCHIE EXPLORATION INC.
WELL : #1
GAUGE # : 1566
DATE : 14/ 8/88

FIELD : SHUCK-9B
JOB # : 12771
DEPTH : 3752
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)

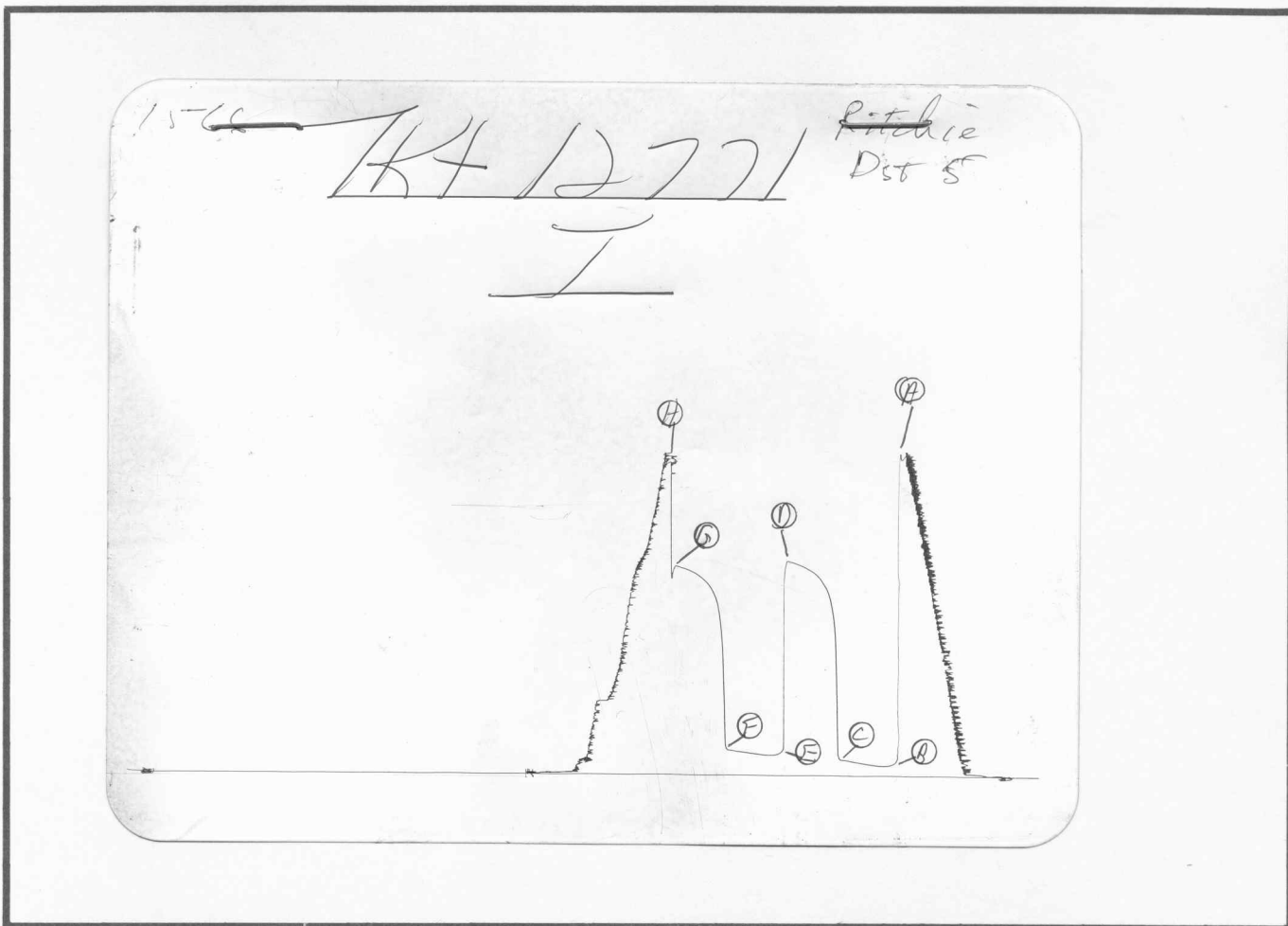
INITIAL FLOW					
2	11: 0: 0	0.000	65.000	114.00	0.000
3	11: 4:59	0.083	65.000	114.00	0.000
4	11:10: 0	0.167	65.000	114.00	0.000
5	11:15: 0	0.250	65.000	114.00	0.000
6	11:19:59	0.333	68.000	114.00	3.000
7	11:25: 0	0.417	73.000	114.00	5.000
8	11:30: 0	0.500	80.000	114.00	7.000
9	11:34:59	0.583	86.000	114.00	6.000
10	11:40: 0	0.667	95.000	114.00	9.000
11	11:45: 0	0.750	98.000	114.00	3.000
INITIAL SHUT-IN					
12	11:48: 0	0.800	355.000	114.00	257.000
13	11:51: 0	0.850	853.000	114.00	498.000
14	11:54: 0	0.900	1018.000	114.00	165.000
15	11:57: 0	0.950	1093.000	114.00	75.000
16	12: 0: 0	1.000	1132.000	114.00	39.000
17	12: 2:59	1.050	1163.000	114.00	31.000
18	12: 6: 0	1.100	1189.000	114.00	26.000
19	12: 9: 0	1.150	1207.000	114.00	18.000
20	12:12: 0	1.200	1220.000	114.00	13.000
21	12:15: 0	1.250	1231.000	114.00	11.000
22	12:18: 0	1.300	1242.000	114.00	11.000
23	12:21: 0	1.350	1251.000	114.00	9.000
24	12:24: 0	1.400	1258.000	114.00	7.000
25	12:27: 0	1.450	1265.000	114.00	7.000
26	12:30: 0	1.500	1268.000	114.00	3.000
FINAL FLOW					
27	12:31: 0	1.517	127.000	114.00	-1141.000
28	12:34:59	1.583	127.000	114.00	0.000
29	12:40: 0	1.667	127.000	114.00	0.000
30	12:45: 0	1.750	127.000	114.00	0.000
31	12:49:59	1.833	131.000	114.00	4.000
32	12:55: 0	1.917	137.000	114.00	6.000
33	13: 0: 0	2.000	142.000	114.00	5.000
34	13: 4:59	2.083	146.000	114.00	4.000
35	13:10: 0	2.167	150.000	114.00	4.000
36	13:15: 0	2.250	156.000	114.00	6.000
FINAL SHUT-IN					
37	13:18: 0	2.300	603.000	114.00	447.000
38	13:21: 0	2.350	914.000	114.00	311.000
39	13:24: 0	2.400	1031.000	114.00	117.000
40	13:27: 0	2.450	1089.000	114.00	58.000
41	13:30: 0	2.500	1121.000	114.00	32.000
42	13:33: 0	2.550	1149.000	114.00	28.000
43	13:36: 0	2.600	1169.000	114.00	20.000
44	13:39: 0	2.650	1188.000	114.00	19.000
45	13:42: 0	2.700	1199.000	114.00	11.000
46	13:45: 0	2.750	1209.000	114.00	10.000
47	13:48: 0	2.800	1218.000	114.00	9.000
48	13:51: 0	2.850	1226.000	114.00	8.000

COMPANY : RITCHIE EXPLORATION INC.
WELL : #1
GAUGE # : 1566
DATE : 14/ 8/88

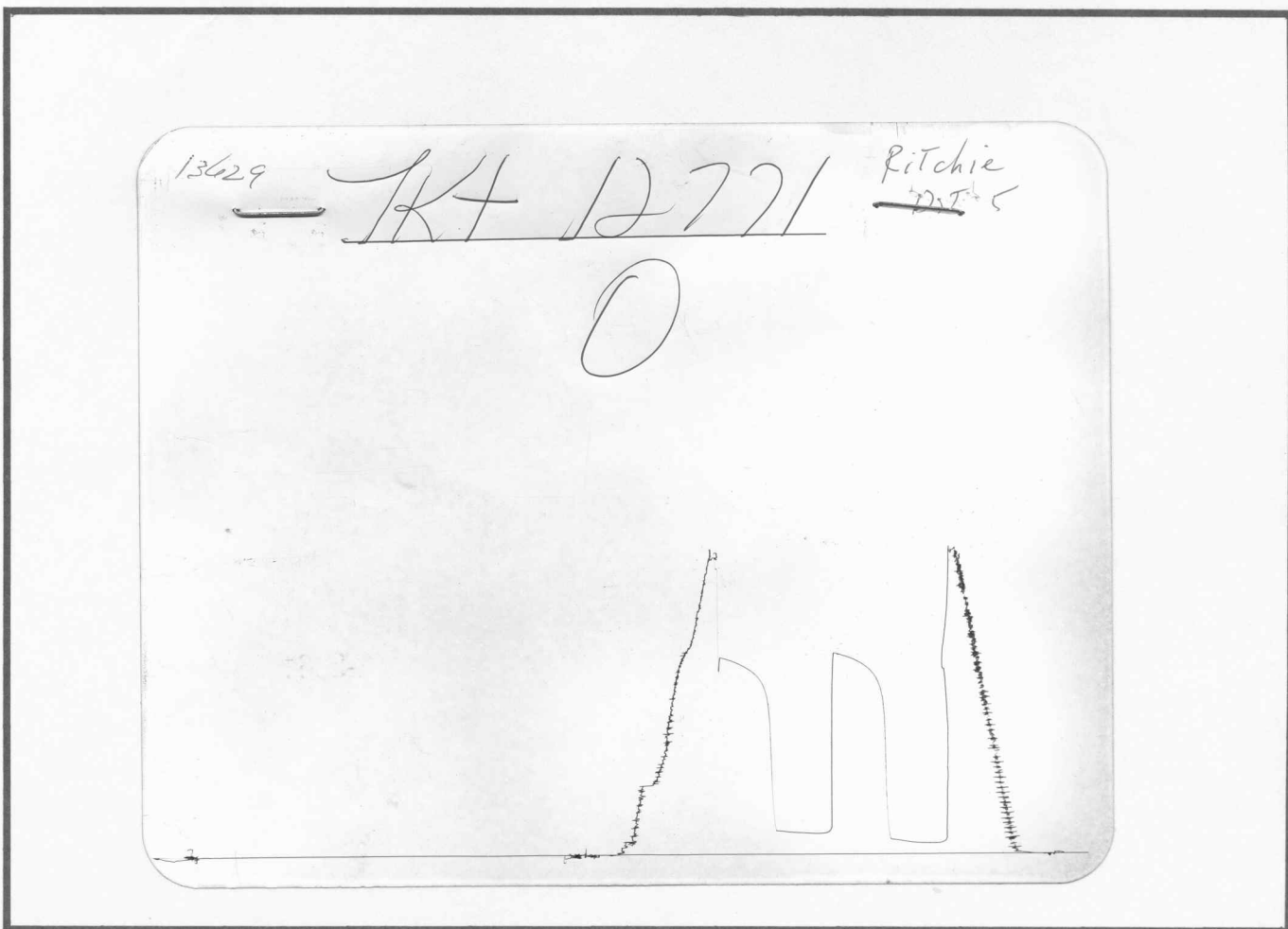
FIELD : SHUCK-9B
JOB # : 12771
DEPTH : 3752
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	13:54: 0	2.900	1230.000	114.00	4.000
50	13:57: 0	2.950	1236.000	114.00	6.000
51	14: 0: 0	3.000	1238.000	114.00	2.000

WESTERN TESTING CO. INC.

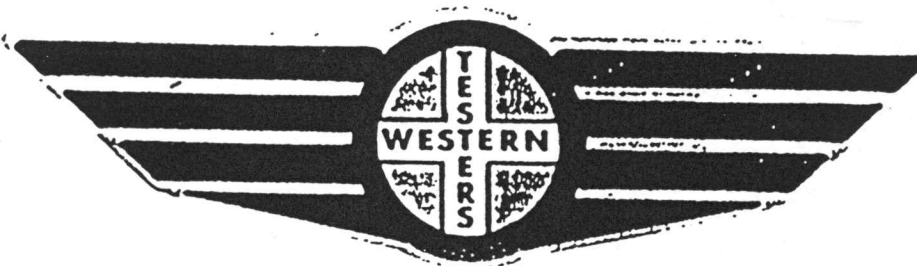


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RITCHIE EXPLORATION INC. LEASE & WELL NO. SHUCK-9B #1 SEC. 9 TWP. 6S RGE. 23W TEST NO. 6 DATE 8/14/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-14-88
CUSTOMER : RITCHIE EXPLORATION INC.
WELL : #1 TEST: 6
ELEVATION : 2428 KB
SECTION : 9
RANGE : 23W COUNTY : GRAHAM
GAUGE SN# : 13629 RANGE : 4425
TICKET : 12772
LEASE : SHUCK-9B
GEOLOGIST : J CHRISTIAN
FORMATION : LANSING J
TOWNSHIP : 6S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3752 TO : 3778 TOTAL DEPTH : 3778
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3752 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 8
MUD TYPE : CHEMICAL VISCOSITY : 40
WEIGHT : 9.5 WATER LOSS (CC) : 10.8
CHLORIDES (PPM) : 6000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3737 FT I.D. inch : 3.80
TEST TOOL LENGTH : 15 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 26 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-DEAD IN 10 MINUTES ON BOTH INITIAL
BLOW COMMENT #2 : AND FINAL FLOW PERIODS.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: DRILLING MUD

Total Barrels Fluid = 0.07
Total Fluid Prod Rate = 1.68 BFPD
Indicated Wtr Rate = 0.17 BWPD

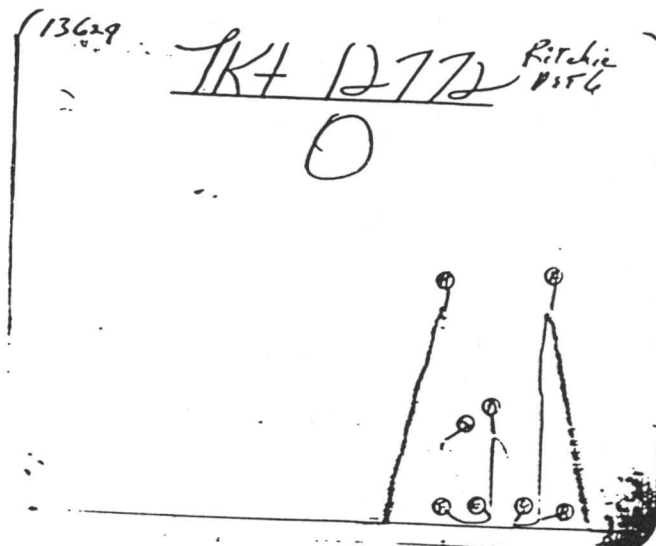
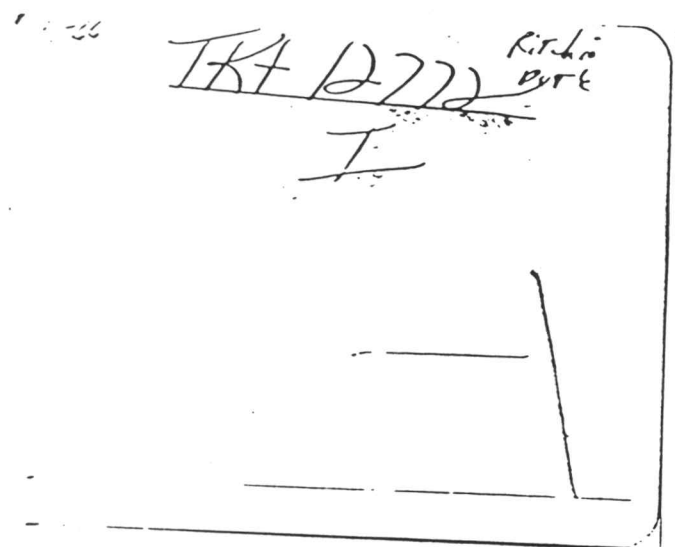
REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:50 AM
WELL TEMPERATURE : 114

TIME STARTED OFF BOTTOM : 2:50 AM

INITIAL HYDROSTATIC PRESSURE
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 27
FINAL FLOW PERIOD MIN: 30
FINAL CLOSED IN PERIOD MIN: 30
FINAL HYDROSTATIC PRESSURE

(A) 1905
(B) 42 PSI TO (C) : 42
(D) 810
(E) 46 PSI TO (F) : 46
(G) 747
(H) 1879



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RITCHIE EXPLORATION INC.
RIG : GRAHAM-KANSAS
FIELD : SHUCK-9B
WELL : #1
DATE : 8-14-88
GAUGE NO : 13629

OPERATIONAL COMMENTS

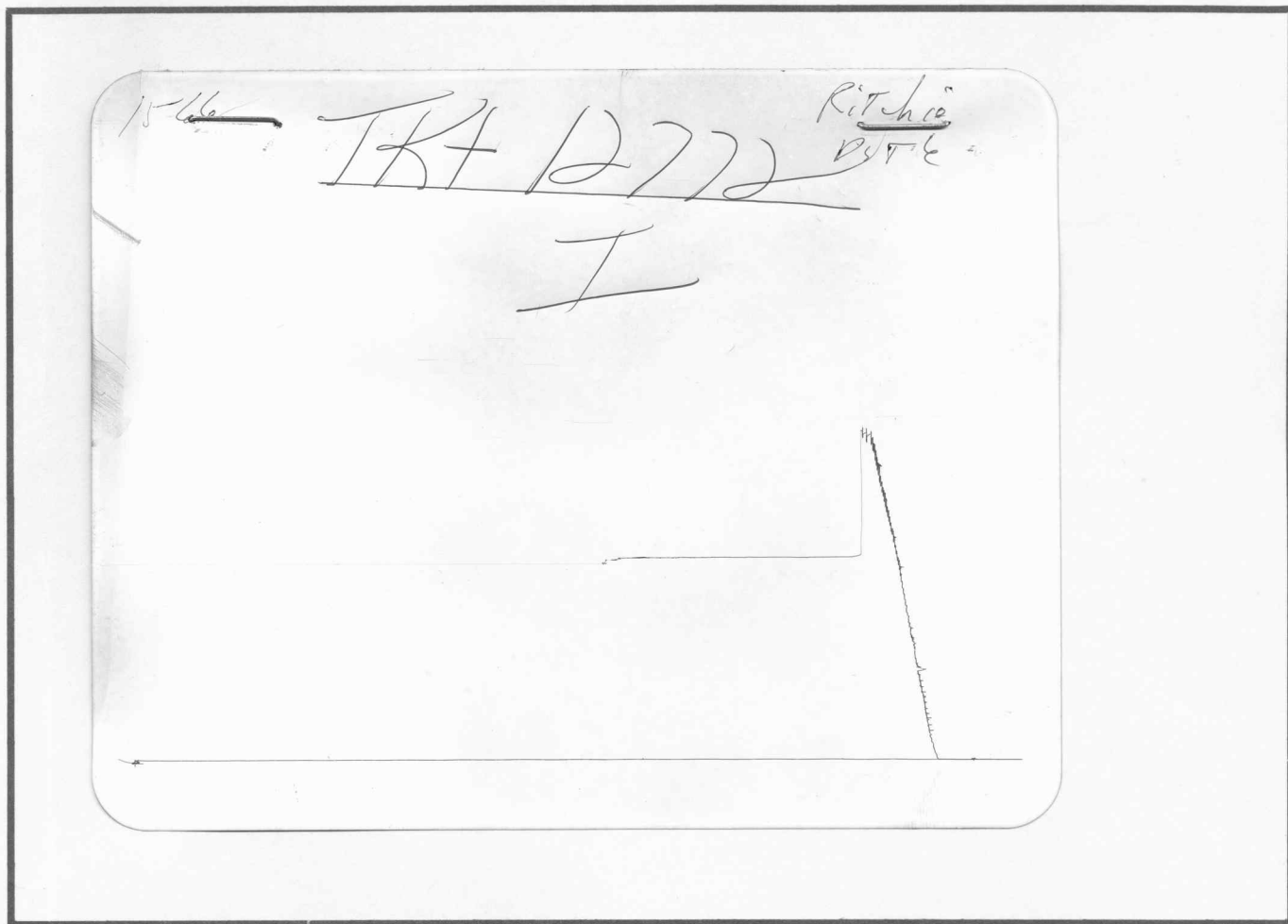
COMPANY : RITCHIE EXPLORATION INC.
WELL : #1
GAUGE # : 13629
DATE : 14/ 8/88

FIELD : SHUCK-9B
JOB # : 12772
DEPTH : 3778
TEST :

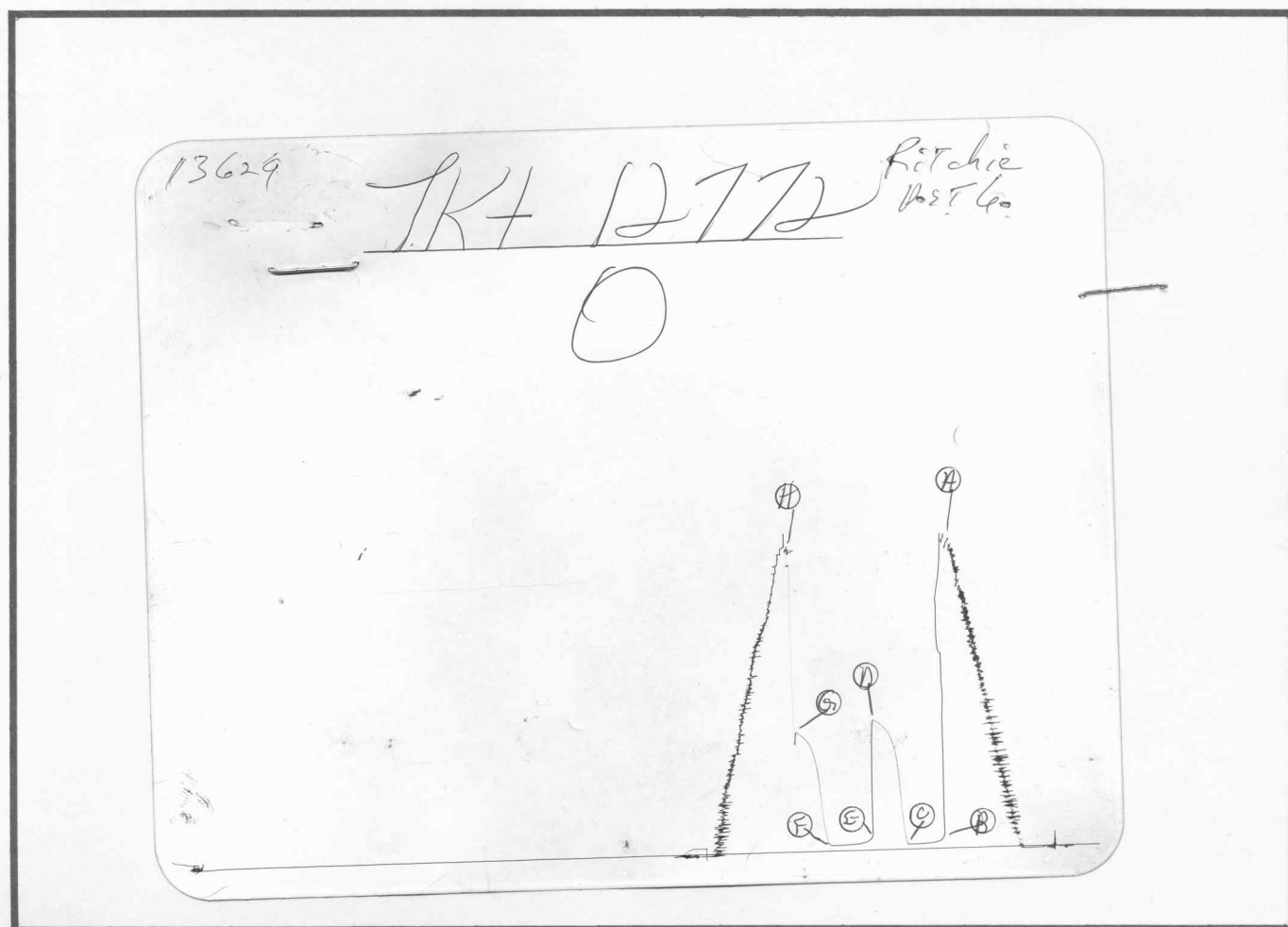
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)

INITIAL FLOW					
2	12:50: 0	0.000	42.000	114.00	0.000
3	12:54:59	0.083	42.000	114.00	0.000
4	13: 0: 0	0.167	42.000	114.00	0.000
5	13: 5: 0	0.250	42.000	114.00	0.000
6	13: 9:59	0.333	42.000	114.00	0.000
7	13:15: 0	0.417	42.000	114.00	0.000
8	13:20: 0	0.500	42.000	114.00	0.000
INITIAL SHUT-IN					
9	13:23: 0	0.550	167.000	114.00	125.000
10	13:26: 0	0.600	419.000	114.00	252.000
11	13:29: 0	0.650	611.000	114.00	192.000
12	13:32: 0	0.700	691.000	114.00	80.000
13	13:35: 0	0.750	738.000	114.00	47.000
14	13:38: 0	0.800	767.000	114.00	29.000
15	13:41: 0	0.850	789.000	114.00	22.000
16	13:44: 0	0.900	801.000	114.00	12.000
17	13:47: 0	0.950	810.000	114.00	9.000
FINAL FLOW					
18	13:48: 0	0.967	46.000	114.00	-764.000
19	13:51:59	1.033	46.000	114.00	0.000
20	13:57: 0	1.117	46.000	114.00	0.000
21	14: 2: 0	1.200	46.000	114.00	0.000
22	14: 6:59	1.283	46.000	114.00	0.000
23	14:12: 0	1.367	46.000	114.00	0.000
24	14:17: 0	1.450	46.000	114.00	0.000
FINAL SHUT-IN					
25	14:20: 0	1.500	47.000	114.00	1.000
26	14:23: 0	1.550	98.000	114.00	51.000
27	14:26: 0	1.600	260.000	114.00	162.000
28	14:29: 0	1.650	472.000	114.00	212.000
29	14:32: 0	1.700	591.000	114.00	119.000
30	14:35: 0	1.750	651.000	114.00	60.000
31	14:38: 0	1.800	693.000	114.00	42.000
32	14:41: 0	1.850	718.000	114.00	25.000
33	14:44: 0	1.900	737.000	114.00	19.000
34	14:47: 0	1.950	747.000	114.00	10.000

WESTERN TESTING CO. INC.



Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RITCHIE EXPLORATION INC. LEASE & WELL NO. SHUCK-9B #1 SEC. 9 TWP. 6S RGE. 23W TEST NO. 7 DATE 8/15/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-15-88
CUSTOMER : RITCHIE EXPLORATION INC.
WELL : #1 TEST: 7
ELEVATION : 2428 KB
SECTION : 9
RANGE : 23W COUNTY : GRAHAM
GAUGE SN# : 1566 RANGE : 4300
TICKET : 12773
LEASE : SHUCK-9B
GEOLOGIST : J CHRISTIAN
FORMATION : LANSING K&L
TOWNSHIP : 6S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3776 TO : 3815 TOTAL DEPTH : 3815

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3776 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 8
MUD TYPE : CHEMICAL VISCOSITY : 47
WEIGHT : 9.6 WATER LOSS (CC) : 10.6
CHLORIDES (PPM) : 6000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3761 FT I.D. inch : 3.80
TEST TOOL LENGTH : 15 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 39 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 : PACKER FAILURE
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 140 FT OF: DRILLING MUD

Total Barrels Fluid = 1.96

Total Fluid Prod Rate = 0.00 BFPD

REMARK 1 : MISRUN: PACKER FAILURE

REMARK 2 :

REMARK 3 :

REMARK 4 :

SET PACKER(S) : 2:20 PM

TIME STARTED OFF BOTTOM : 2:30 PM

WELL TEMPERATURE : 0

INITIAL HYDROSTATIC PRESSURE

(A) 1937

INITIAL FLOW PERIOD MIN: 0

(B) 0 PSI TO (C) : 0

INITIAL CLOSED IN PERIOD MIN: 0

(D) 0

FINAL FLOW PERIOD MIN: 0

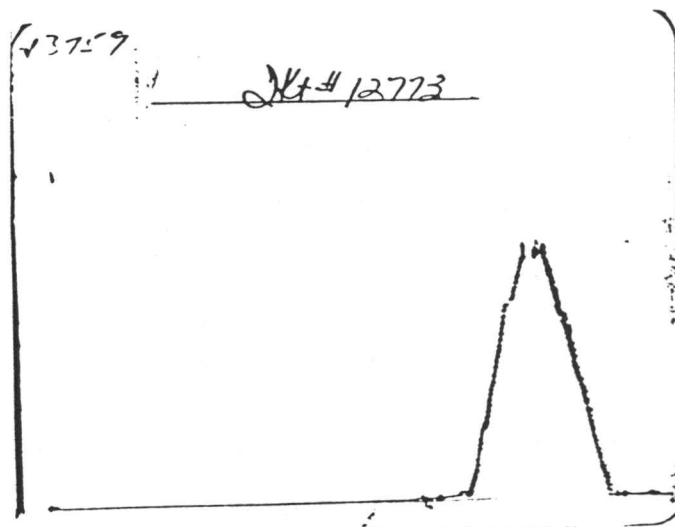
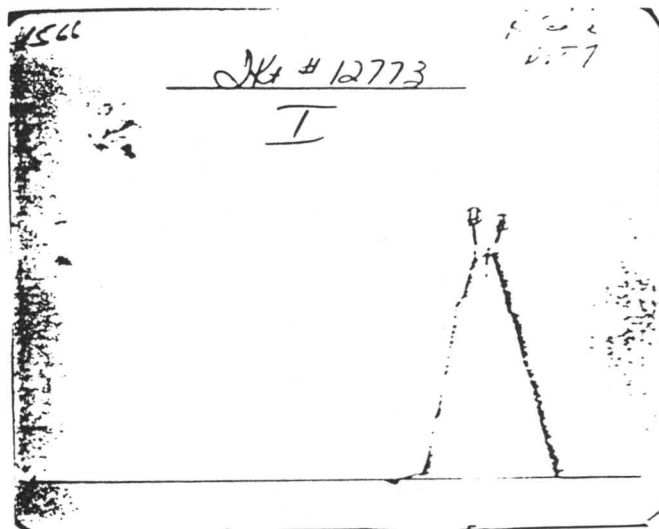
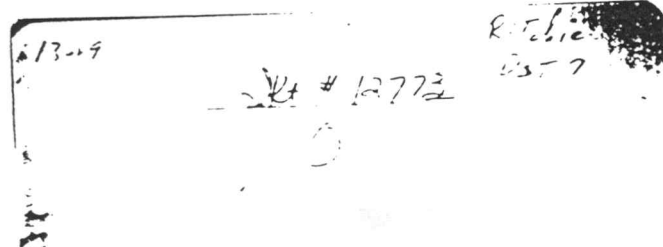
(E) 0 PSI TO (F) : 0

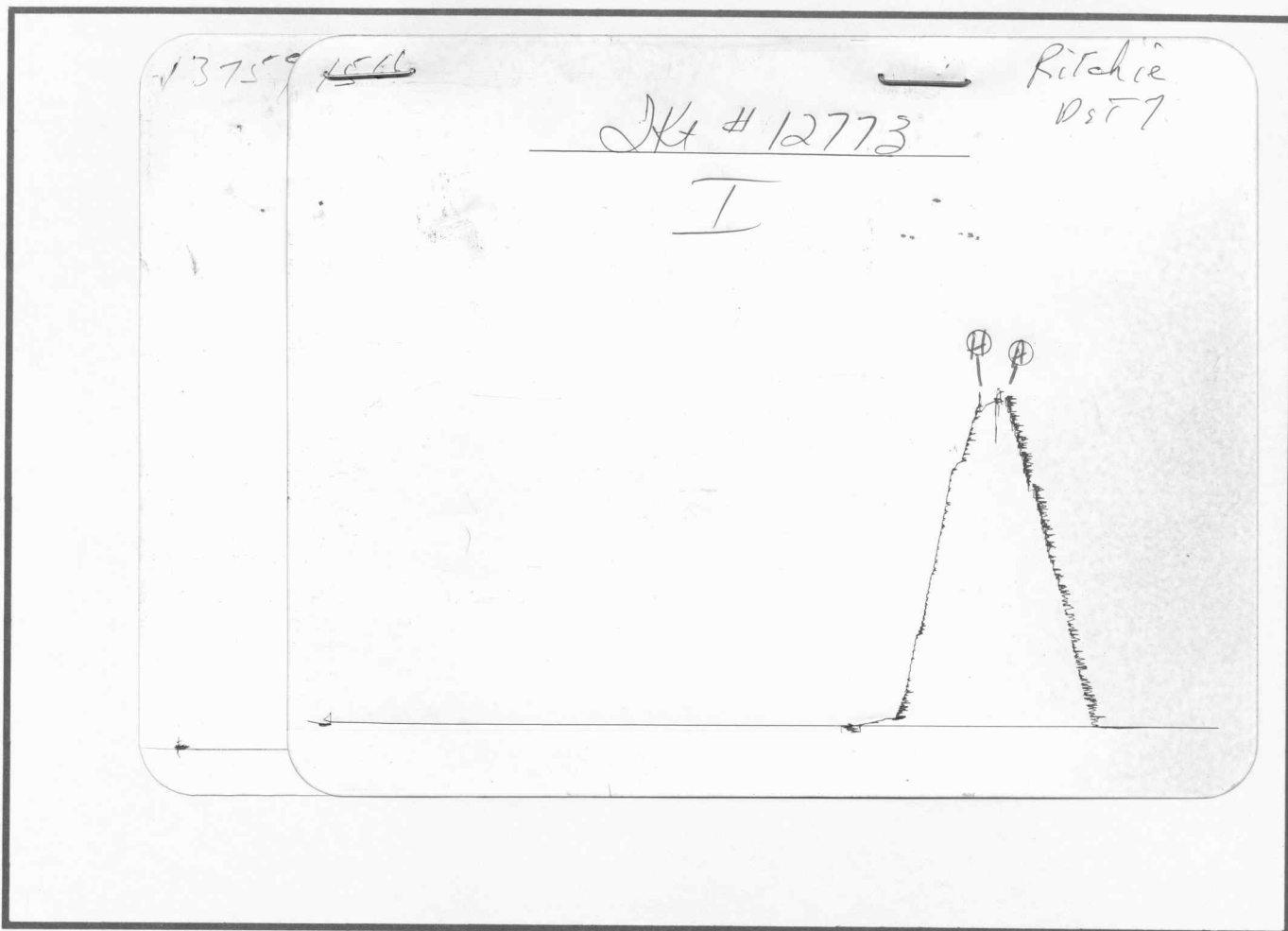
FINAL CLOSED IN PERIOD MIN: 0

(G) 0

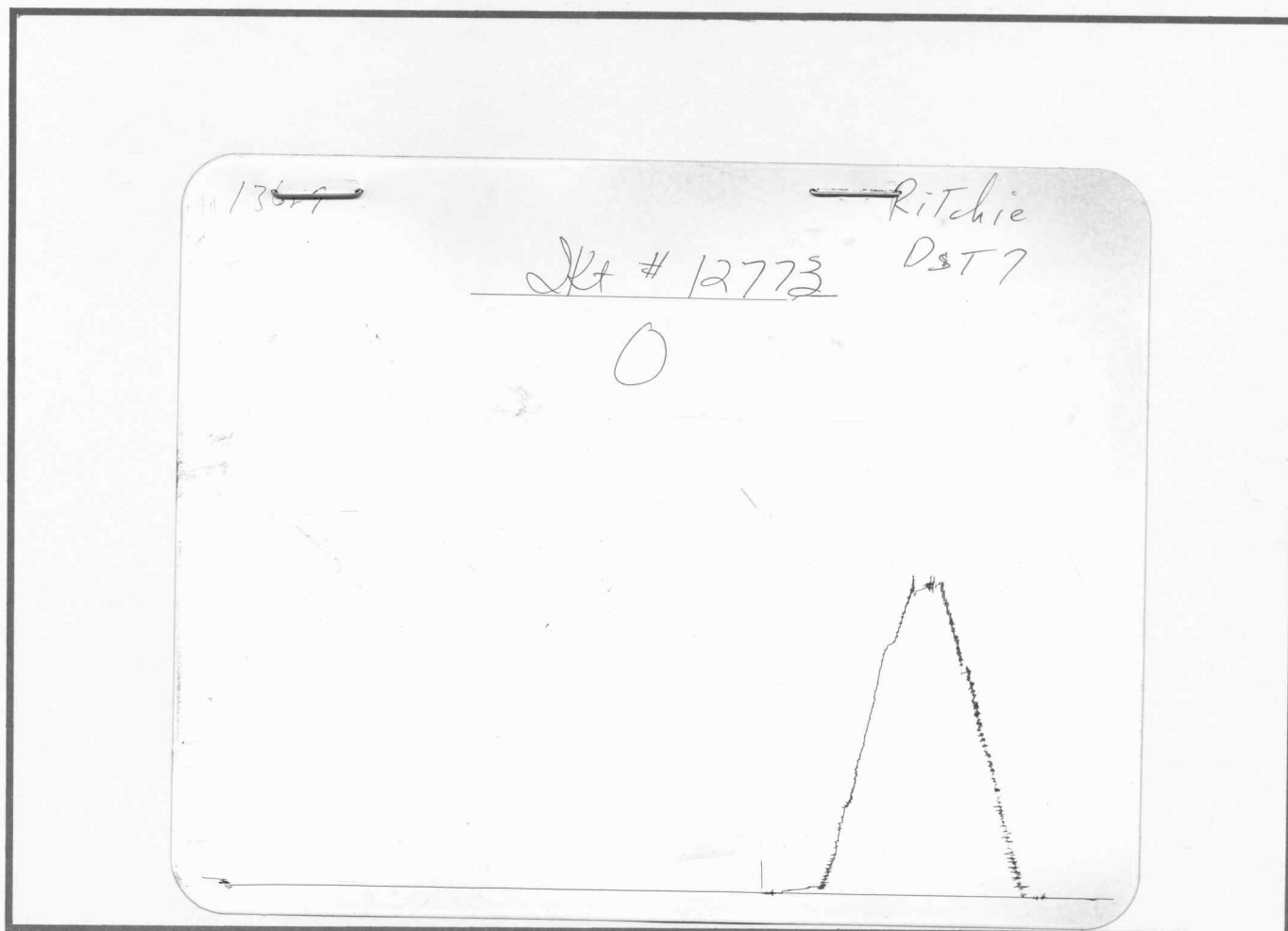
FINAL HYDROSTATIC PRESSURE

(H) 1900





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COMPANY RITCHIE EXPLORATION INC. LEASE & WELL NO. SHUCK-9B #1 SEC. 9 TWP. 6S RGE. 23W TEST NO. 8 DATE 8/15/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	8-15-88	TICKET	:	12774	
CUSTOMER	:	RITCHIE EXPLORATION INC.	LEASE	:	SHUCK-9B	
WELL	:	#1	TEST:	:	8	
ELEVATION	:	2428 KB	GEOLOGIST	:	J CHRISTIAN	
SECTION	:	9	FORMATION	:	LANSING K&L	
RANGE	:	23W	TOWNSHIP	:	6S	
Gauge SN#	:	1566	STATE	:	KANSAS	
		COUNTY :	GRAHAM			
		RANGE :	4300	CLOCK	:	12

INTERVAL FROM	:	3772	TO	:	3815	TOTAL DEPTH	:	3815
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3767	SIZE	:	6.75			
PACKER DEPTH	:	3772	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	MURFIN RIG 8			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	47
WEIGHT	:	9.6	WATER LOSS (CC)	:	10.6
CHLORIDES (PPM)	:	6000			
JARS-MAKE	:	-	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3752	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	43	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 IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-WEAK SURFACE BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: DRILLING MUD

CHLORIDES: 5000 PPM

Total Barrels Fluid = 0.42
Total Fluid Prod Rate = 10.10 BFPD
Indicated Wtr Rate = 1.01 BWPD

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

SET PACKER(S) : 10:20 PM

WELL TEMPERATURE : 115

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 42

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 42

FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM : 12:50 AM

(A) 1940

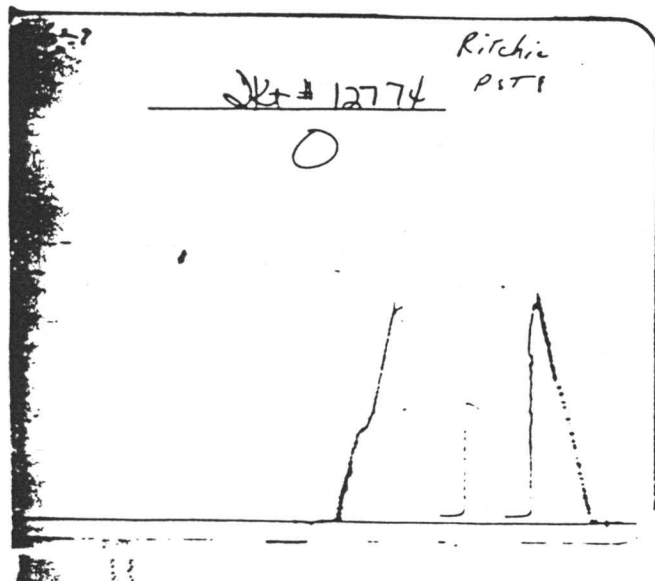
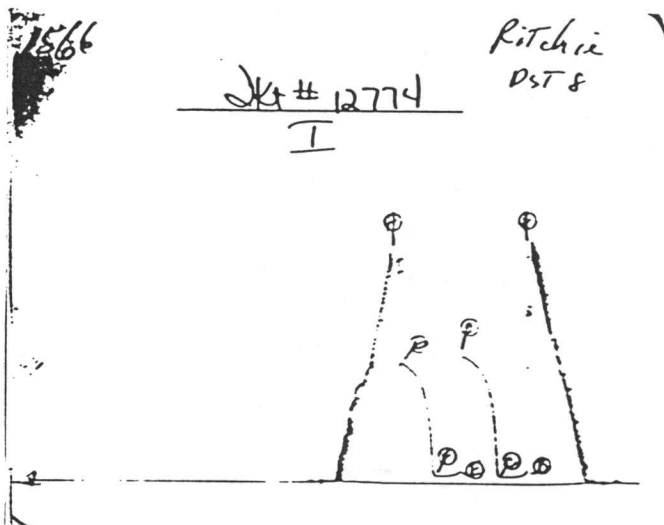
(B) 45 PSI TO (C) : 45

(D) 1082

(E) 51 PSI TO (F) : 51

(G) 1025

(H) 1874



WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RITCHIE EXPLORATION INC.
RIG : GRAHAM-KANSAS
FIELD : SHUCK-9B
WELL : #1
DATE : 8-15-88
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : RITCHIE EXPLORATION INC
WELL : #1
GAUGE # : 1566
DATE : 15/ 8/88

FIELD : SHUCK-9B
JOB # : 12774
DEPTH : 3815
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	10:20: 0	0.000	45.000	115.00	0.000
3	10:24:59	0.083	45.000	115.00	0.000
4	10:30: 0	0.167	45.000	115.00	0.000
5	10:35: 0	0.250	45.000	115.00	0.000
6	10:39:59	0.333	45.000	115.00	0.000
7	10:45: 0	0.417	45.000	115.00	0.000
8	10:50: 0	0.500	45.000	115.00	0.000
INITIAL SHUT-IN					
9	10:53: 0	0.550	252.000	115.00	207.000
10	10:56: 0	0.600	432.000	115.00	180.000
11	10:59: 0	0.650	692.000	115.00	260.000
12	11: 2: 0	0.700	793.000	115.00	101.000
13	11: 5: 0	0.750	862.000	115.00	69.000
14	11: 8: 0	0.800	914.000	115.00	52.000
15	11:11: 0	0.850	948.000	115.00	34.000
16	11:14: 0	0.900	977.000	115.00	29.000
17	11:17: 0	0.950	1001.000	115.00	24.000
18	11:20: 0	1.000	1023.000	115.00	22.000
19	11:23: 0	1.050	1040.000	115.00	17.000
20	11:26: 0	1.100	1055.000	115.00	15.000
21	11:29: 0	1.150	1068.000	115.00	13.000
22	11:32: 0	1.200	1082.000	115.00	14.000
FINAL FLOW					
23	11:33: 0	1.217	51.000	115.00	-1031.000
24	11:36:59	1.283	51.000	115.00	0.000
25	11:42: 0	1.367	51.000	115.00	0.000
26	11:47: 0	1.450	51.000	115.00	0.000
27	11:51:59	1.533	51.000	115.00	0.000
28	11:57: 0	1.617	51.000	115.00	0.000
29	12: 2: 0	1.700	51.000	115.00	0.000
FINAL SHUT-IN					
30	12: 5: 0	1.750	144.000	115.00	93.000
31	12: 8: 0	1.800	421.000	115.00	277.000
32	12:11: 0	1.850	600.000	115.00	179.000
33	12:14: 0	1.900	707.000	115.00	107.000
34	12:17: 0	1.950	791.000	115.00	84.000
35	12:20: 0	2.000	847.000	115.00	56.000
36	12:23: 0	2.050	890.000	115.00	43.000
37	12:26: 0	2.100	922.000	115.00	32.000
38	12:29: 0	2.150	946.000	115.00	24.000
39	12:32: 0	2.200	969.000	115.00	23.000
40	12:35: 0	2.250	987.000	115.00	18.000
41	12:38: 0	2.300	1006.000	115.00	19.000
42	12:41: 0	2.350	1019.000	115.00	13.000
43	12:44: 0	2.400	1025.000	115.00	6.000

WESTERN TESTING CO. INC.

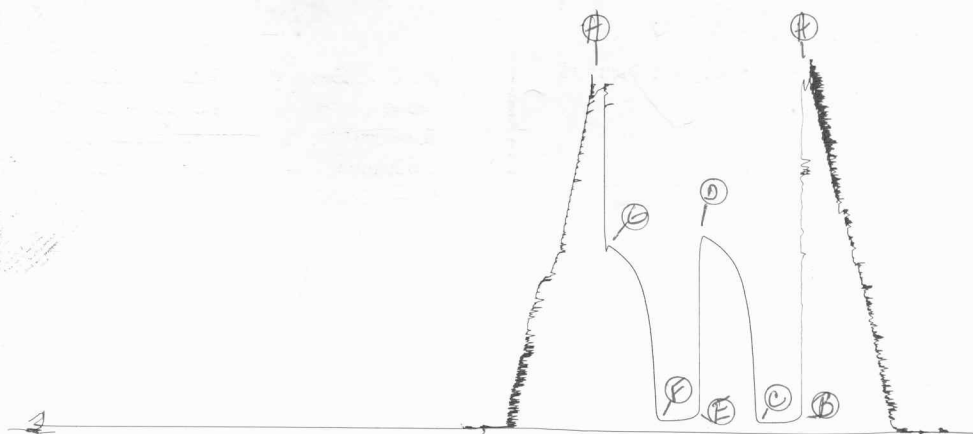
~~1566~~

~~Ritchie~~

PST 8

JK # 12774

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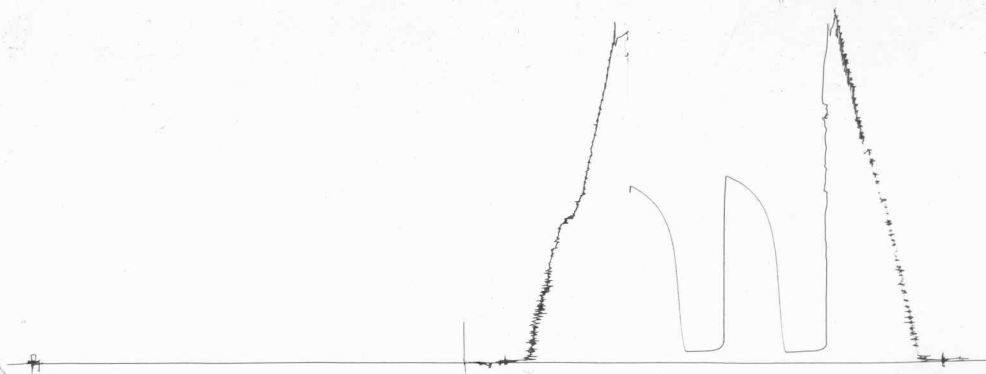
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~~Ritchie~~

PST 8

JK # 12774

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