



00524075

FORMATION TEST

REPORT

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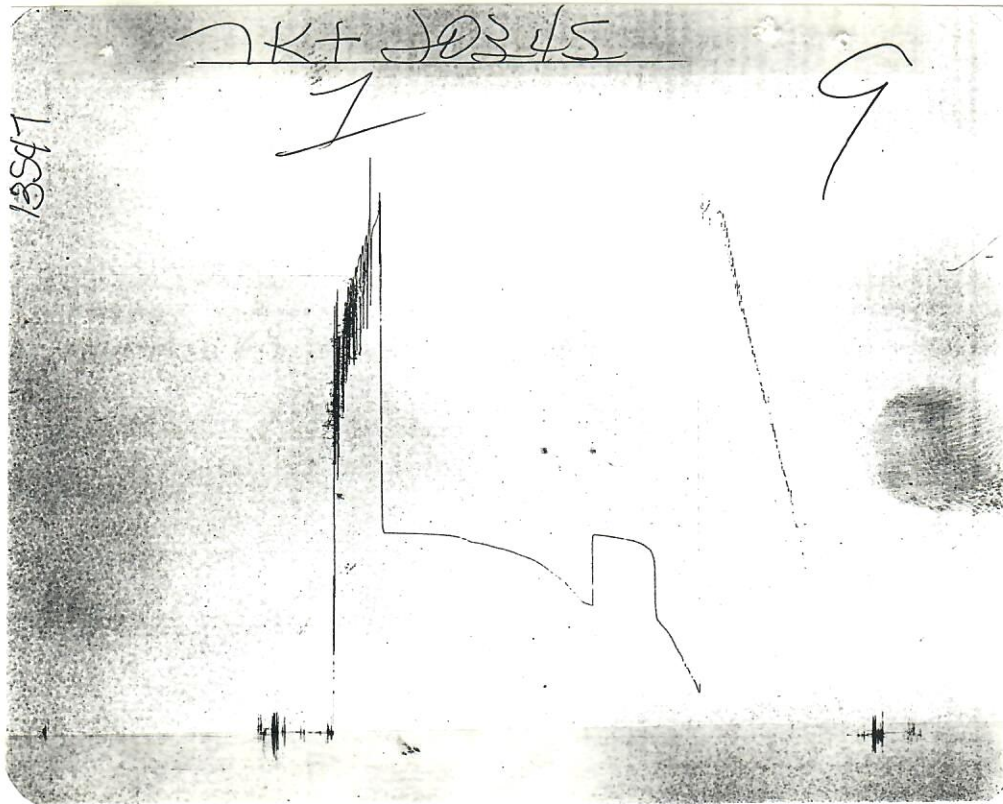


Home Office:

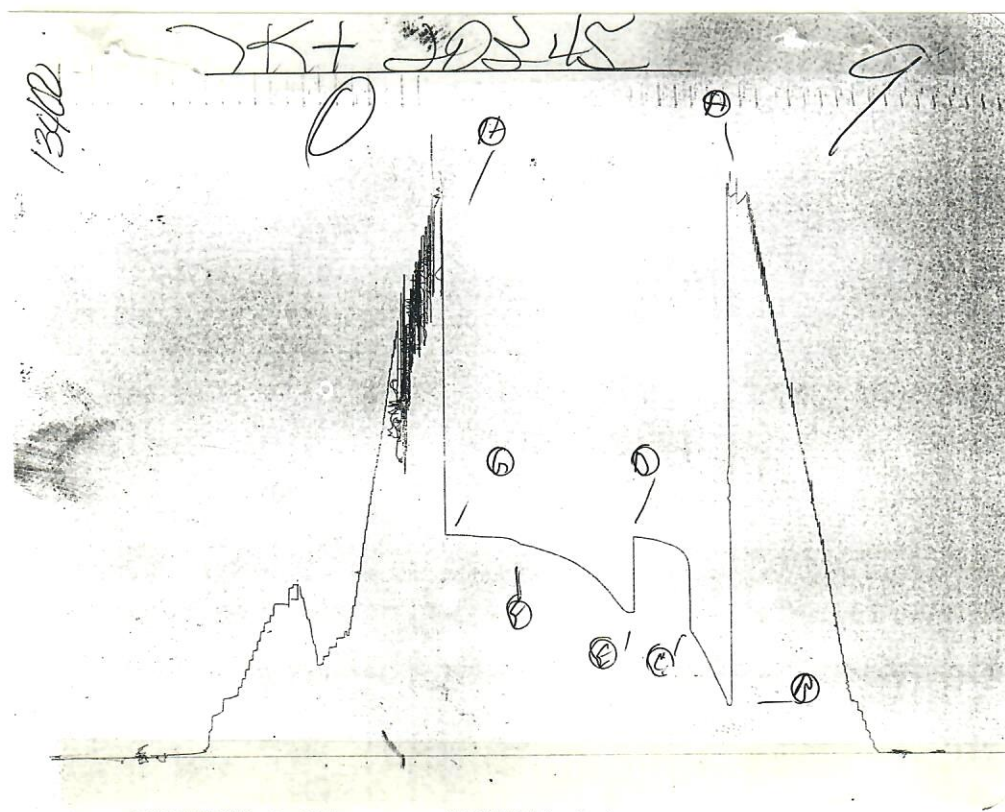
Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861



Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 4-23-94	TICKET	: 20345
CUSTOMER	: MULL DRILLING CO. INC.	LEASE	: ROGERS
WELL	: #1	TEST:	2
ELEVATION	: 4441 K.B.	GEOLOGIST	: ROGER MARTIN
SECTION	: 8	FORMATION	: SPERGEN
RANGE	: 50W	TOWNSHIP	: 16S
GAUGE SN#	: 13400	STATE	: CO
		CLOCK	: 12
		COUNTY	: CHEYENNE
		RANGE	: 3950

WELL INFORMATION

PERFORATION INTERVAL FROM:	5640.00 ft	TO:	5672.00 ft	TVD:	5672.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5658.0 ft		5661.0 ft		
TEMPERATURE:	156.0				
DRILL COLLAR LENGTH:	546.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH:	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH:	5065.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH:	29.0 ft	TOOL SIZE:	5.500 in		
ANCHOR LENGTH:	32.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE:	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE:	7.875 in	TOOL JOINT SIZE:	4.5XH		
PACKER DEPTH:	5635.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	5640.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON.:	KUDU	VISCOSITY:	78.00 cp
MUD TYPE:	CHEMICAL	WATER LOSS:	7.600 cc
WEIGHT:	9.200 ppg		
CHLORIDES:	400 ppm	SERIAL NUMBER:	414
JARS-MAKE:	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

STRONG BLOW OFF BOTTOM OF BUCKET IN ONE MINUTE ON
INITIAL FLOW PERIOD. STRONG BLOW OFF BOTTOM OF
BUCKET IN 8 MINUTES ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

API #05-017-07417

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
270.0	0.0	0.0	0.0	0.0	GAS RECOVERD ABOVE FLUID
279.0	0.0	0.0	15.0	85.0	WATERY MUD
651.0	0.0	0.0	90.0	10.0	MUDDY WATER
315.0	0.5	0.0	99.5	0.0	WATER W/FEW OIL SPOTS
1257.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 9000 PPM
0.0	0.0	0.0	0.0	0.0	R.W. .44 @ 68 DEG. F.

RATE INFORMATION

OIL VOLUME:	0.0221 STB	
GAS VOLUME:	0.0000 SCF	
MUD VOLUME:	4.2395 STB	
WATER VOLUME:	25.7409 STB	
TOTAL FLUID :	30.0025 STB	
		TOTAL FLOW TIME: 115.0000 min.
		AVERAGE OIL RATE: 0.2766 STB/D
		AVERAGE WATER RATE: 375.4067 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2850.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	242.00	621.00
INITIAL SHUT-IN	45.00		1091.00
FINAL FLOW	90.00	709.00	1062.00
FINAL SHUT-IN	60.00		1111.00
FINAL HYDROSTATIC PRESSURE:	2809.00		

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2876.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	244.00	627.00
INITIAL SHUT-IN	42.00		1109.00
FINAL FLOW	85.00	724.00	1075.00
FINAL SHUT-IN	57.00		1124.00

FINAL HYDROSTATIC PRESSURE: 2874.00

PRESSURE TRANSIENT REPORT

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SECTION	: 8	FORMATION	: SPERGEN
RANGE	: 50W	TOWNSHIP	: 16S
	COUNTY: CHEYENNE	STATE	: CO
GAUGE SN#	: 13400	RANGE	: 3950
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	244.00	244.00
5.00	283.00	39.00
10.00	359.00	76.00
15.00	426.00	67.00
20.00	499.00	73.00
25.00	557.00	58.00
30.00	627.00	70.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	995.00	995.00	11.00
6.00	1028.00	33.00	6.00
9.00	1048.00	20.00	4.33
12.00	1059.00	11.00	3.50
15.00	1067.00	8.00	3.00
18.00	1074.00	7.00	2.67
21.00	1081.00	7.00	2.43
24.00	1087.00	6.00	2.25
27.00	1093.00	6.00	2.11
30.00	1097.00	4.00	2.00
33.00	1100.00	3.00	1.91
36.00	1103.00	3.00	1.83
39.00	1106.00	3.00	1.77
42.00	1109.00	3.00	1.71

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	724.00	724.00
5.00	724.00	0.00
10.00	753.00	29.00
15.00	798.00	45.00
20.00	843.00	45.00
25.00	877.00	34.00
30.00	908.00	31.00
35.00	936.00	28.00
40.00	959.00	23.00
45.00	981.00	22.00
50.00	998.00	17.00
55.00	1013.00	15.00
60.00	1025.00	12.00
65.00	1037.00	12.00
70.00	1049.00	12.00
75.00	1062.00	13.00
80.00	1068.00	6.00
85.00	1075.00	7.00

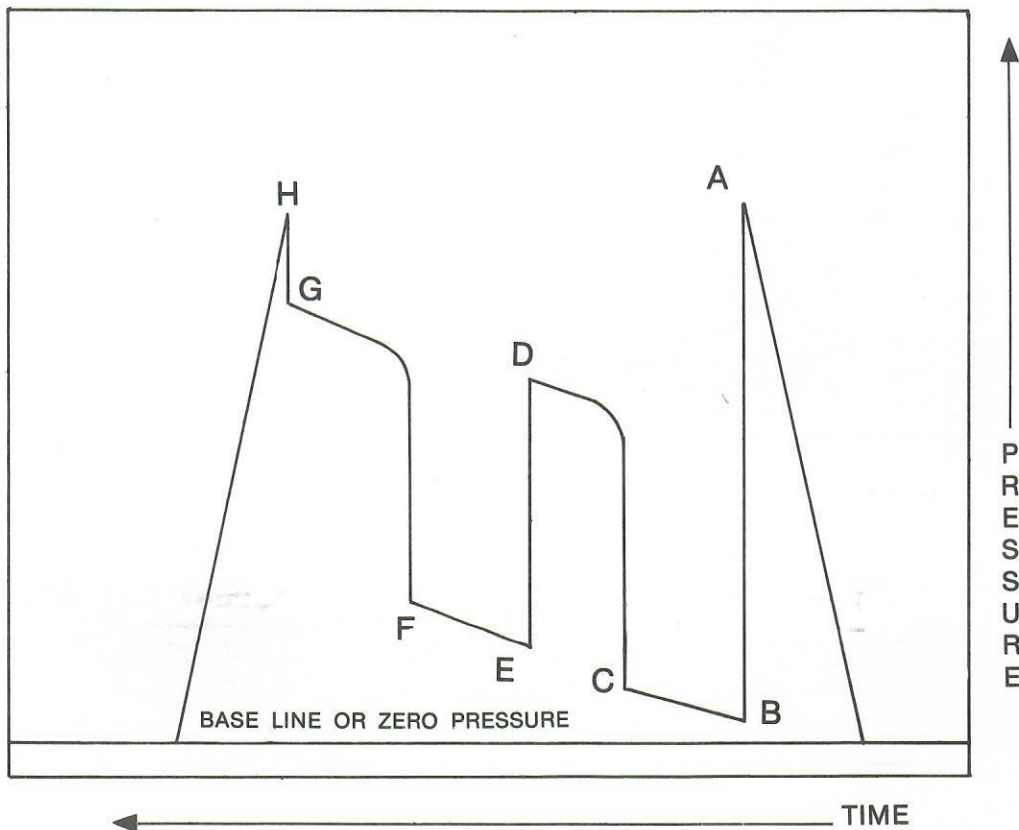
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1091.00	1091.00	29.33
6.00	1097.00	6.00	15.17
9.00	1104.00	7.00	10.44
12.00	1107.00	3.00	8.08
15.00	1109.00	2.00	6.67
18.00	1110.00	1.00	5.72
21.00	1111.00	1.00	5.05
24.00	1112.00	1.00	4.54
27.00	1113.00	1.00	4.15
30.00	1114.00	1.00	3.83
33.00	1115.00	1.00	3.58
36.00	1117.00	2.00	3.36
39.00	1118.00	1.00	3.18
42.00	1119.00	1.00	3.02
45.00	1120.00	1.00	2.89
48.00	1121.00	1.00	2.77
51.00	1122.00	1.00	2.67
54.00	1123.00	1.00	2.57
57.00	1124.00	1.00	2.49

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

AK-1 Recorders



A - Initial Hydrostatic

B - First Initial Flow

C - First Final Flow

D - Initial Shut-In

E - Second Initial Flow

F - Second Final Flow

G - Final Shut-In

H - Final Hydrostatic