



FORMATION TEST REPORT

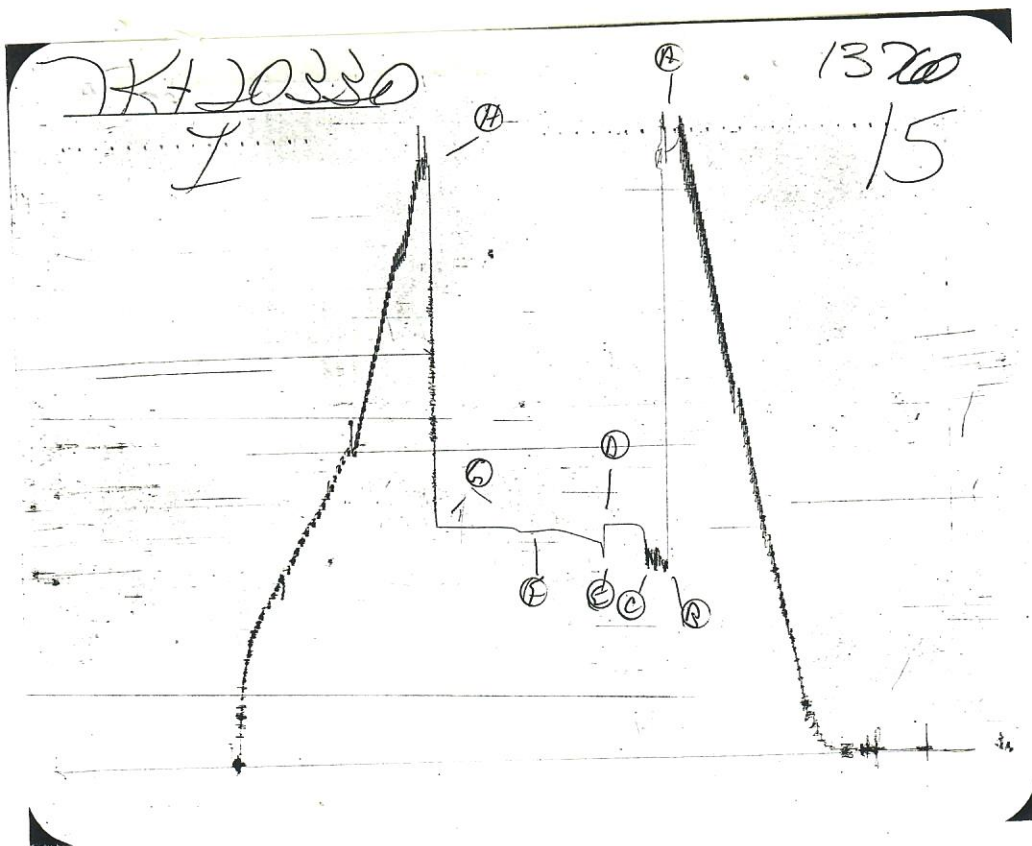


Home Office:

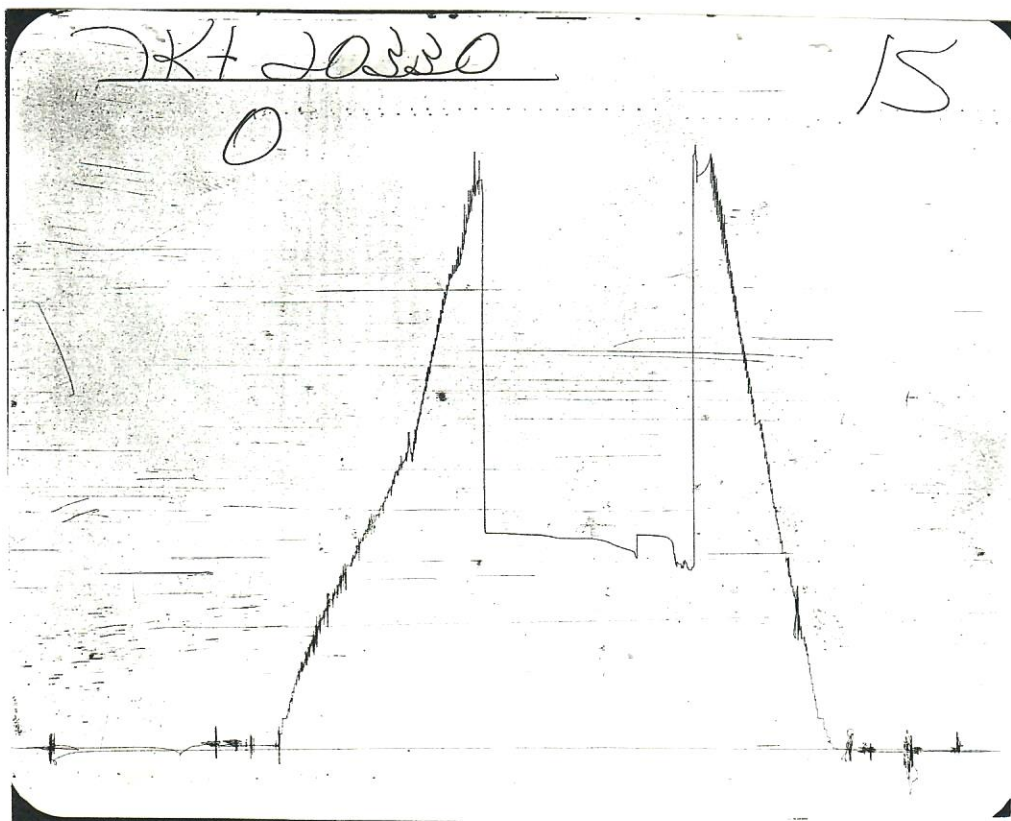
Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861



Inside Recorder



Outside Recorder

FORMATION TEST

REPORT

RECEIVED
MAR 16 1994
COLORADO OIL & GAS CONS. COMM.



Home Office: Wichita, Kansas 67201
P.O. Box 1599 Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 3/9/94	TICKET	: 20330
CUSTOMER	: UNION PACIFIC RESOURCES	LEASE	: COLMENO 12-30
WELL	: #1	TEST: 1	GEOLOGIST: PARROTT
ELEVATION	: 5083 KB	FORMATION	: V-7
SECTION	: 30	TOWNSHIP	: 11S
RANGE	: 50W	STATE	: CO
GAUGE SN#	: 13760	RANGE	: 3950
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	6423.00 ft	TO:	6607.00 ft	TVD:	6607.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	6426.0 ft		6429.0 ft		
TEMPERATURE:	170.0				
DRILL COLLAR LENGTH:	328.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH:	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH:	6063.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH:	32.0 ft	TOOL SIZE:		5.500 in	
ANCHOR LENGTH:	184.0 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:	6418.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	6423.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON.	: MURFIN RIG 14	VISCOSITY:	56.00 cp
MUD TYPE	: CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT	: 9.200 ppg		
CHLORIDES	: 300 ppm	SERIAL NUMBER:	414
JARS-MAKE	: WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD OPENED TO 5 INCH BLOW - BOTTOM
OF BUCKET IN 1 MINUTE. 7 LBS IN 15 MINUTES.
FINAL FLOW PERIOD OPENED TO 5 INCH BLOW - GAS TO

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

SURFACE.
AFE#16876

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	3685 FT GAS ABOVE FLUID
651.0	0.0	0.0	0.0	100.0	MUD
279.0	18.0	7.0	0.0	75.0	GASSY OIL CUT MUD
186.0	0.0	0.0	10.0	90.0	WATERY MUD
558.0	100.0	0.0	0.0	0.0	CLEAN OIL
186.0	60.0	20.0	20.0	0.0	GAS & WATER CUT OIL
1062.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	RW .13 @ 60 DEGREES F
0.0	0.0	0.0	0.0	0.0	OIL GRAVITY 37 @ 60 DEG.

RATE INFORMATION

OIL VOLUME: 10.0965 STB
GAS VOLUME: 4.4679 SCF
MUD VOLUME: 14.4142 STB
WATER VOLUME: 12.6201 STB
TOTAL FLUID : 37.1307 STB

TOTAL FLOW TIME: 75.0000 min.
AVERAGE OIL RATE: 250.2041 STB/D
AVERAGE WATER RATE: 287.3870 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 3082.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	955.00	984.00
INITIAL SHUT-IN	30.00		1181.00
FINAL FLOW	60.00	1023.00	1141.00
FINAL SHUT-IN	60.00		1190.00

FINAL HYDROSTATIC PRESSURE: 3032.00

GAS FLOW REPORT

GENERAL INFORMATION

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WELL : #1	GEOLOGIST: PARROTT
ELEVATION: 5083 KB	FORMATION: V-7
SECTION : 30	TOWNSHIP : 11S
RANGE : 50W	STATE : CO
GAUGE SN#: 13760	CLOCK : 12
TEST: 1	COUNTY: CHEYENNE
	RANGE : 3950

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
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SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	0.750	5" WATER	31600 SCF/D
10 MIN	MERLA	0.750	8" WATER	40000 SCF/D
15 MIN	MERLA	0.250	3 PSIG	24500 SCF/D
20 MIN	MERLA	0.250	6 PSIG	15700 SCF/D
25 MIN	MERLA	0.250	8 PSIG	22900 SCF/D
30 MIN	MERLA	0.250	8 PSIG	27000 SCF/D
35 MIN	MERLA	0.250	7 PSIG	27000 SCF/D
40 MIN	MERLA	0.250	7 PSIG	25000 SCF/D
45 MIN	MERLA	0.250	7 PSIG	25000 SCF/D
50 MIN	MERLA	0.250	7 PSIG	25000 SCF/D
55 MIN	MERLA	0.250	7 PSIG	25000 SCF/D
60 MIN	MERLA	0.250	7 PSIG	25000 SCF/D

PRESSURE TRANSIENT REPORT

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ELEVATION	: 5083 KB	FORMATION	: V-7
SECTION	: 30	TOWNSHIP	: 11S
RANGE	: 50W	STATE	: CO
GAUGE SN#	: 13760	CLOCK	: 12
	COUNTY: CHEYENNE		
	RANGE : 3950		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	947.00	947.00
5.00	990.00	43.00
10.00	1024.00	34.00
15.00	1035.00	11.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1136.00	1136.00	6.00
6.00	1171.00	35.00	3.50
9.00	1178.00	7.00	2.67
12.00	1180.00	2.00	2.25
15.00	1181.00	1.00	2.00
18.00	1181.00	0.00	1.83
21.00	1181.00	0.00	1.71
24.00	1181.00	0.00	1.63
27.00	1182.00	1.00	1.56
30.00	1182.00	0.00	1.50
33.00	1182.00	0.00	1.45

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	1014.00	1014.00
5.00	1094.00	80.00
10.00	1107.00	13.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
15.00	1118.00	11.00
20.00	1130.00	12.00
25.00	1141.00	11.00
30.00	1151.00	10.00
35.00	1159.00	8.00
40.00	1161.00	2.00
45.00	1159.00	-2.00
50.00	1157.00	-2.00
55.00	1155.00	-2.00
60.00	1153.00	-2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1156.00	1156.00	21.00
6.00	1167.00	11.00	11.00
9.00	1174.00	7.00	7.67
12.00	1177.00	3.00	6.00
15.00	1178.00	1.00	5.00
18.00	1179.00	1.00	4.33
21.00	1180.00	1.00	3.86
24.00	1180.00	0.00	3.50
27.00	1181.00	1.00	3.22
30.00	1181.00	0.00	3.00
33.00	1182.00	1.00	2.82
36.00	1182.00	0.00	2.67
39.00	1183.00	1.00	2.54
42.00	1183.00	0.00	2.43
45.00	1184.00	1.00	2.33
48.00	1185.00	1.00	2.25
51.00	1186.00	1.00	2.18
54.00	1187.00	1.00	2.11
57.00	1188.00	1.00	2.05
60.00	1188.00	0.00	2.00
63.00	1188.00	0.00	1.95
66.00	1188.00	0.00	1.91

FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE : 3/9/94
CUSTOMER : UNION PACIFIC RESOURCES
WELL : #1 TEST: 1
ELEVATION: 5083 KB
SECTION : 30
RANGE : 50W COUNTY: CHEYENNE
GAUGE SN#: 13760 RANGE : 3950

TICKET : 20330
LEASE : COLMENO 12-30
GEOLOGIST: PARROTT
FORMATION: V-7
TOWNSHIP : 11S
STATE : CO
CLOCK : 12

SAMPLE INFORMATION

PRESSURE IN SAMPLER: 900.00 PSIG BHT: 170.0 DEG F

TOTAL VOLUME OF SAMPLER: 3150.00 cc
TOTAL VOLUME OF SAMPLE: 1500.00 cc
OIL: 600.00 cc
WATER: 900.00 cc
MUD: 0.00 cc
GAS: 11.40 cc
OTHER: 0.00 cc

RESISTIVITY

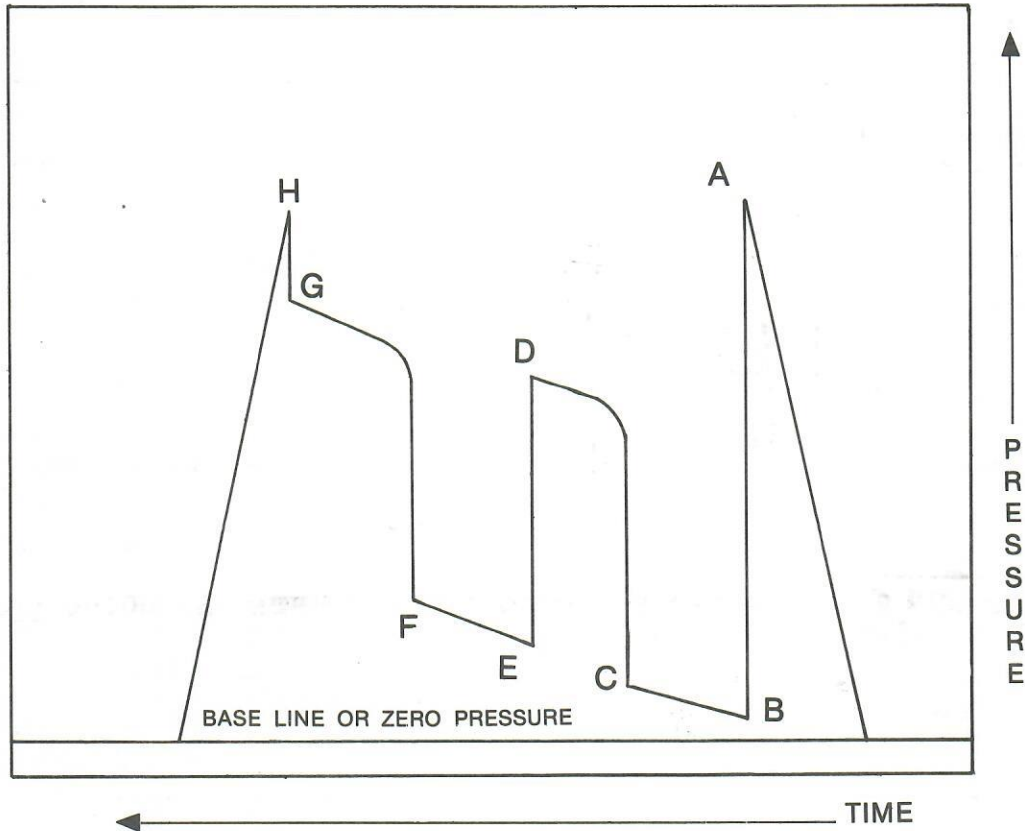
DRILLING MUD: .13 @ 62 DEGREES F
MUD PIT SAMPLE: .4 @ 62 DEGREES F
GAS/OIL RATIO:
WHERE WAS SAMPLE DRAINED:
REMARKS: AFE#16876

CHLORIDE CONTENT: 52000.00 ppm
CHLORIDE CONTENT: 300.00 ppm
GRAVITY:

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