



FORMATION TEST REPORT

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COLO. OIL & GAS CONS. COMM.



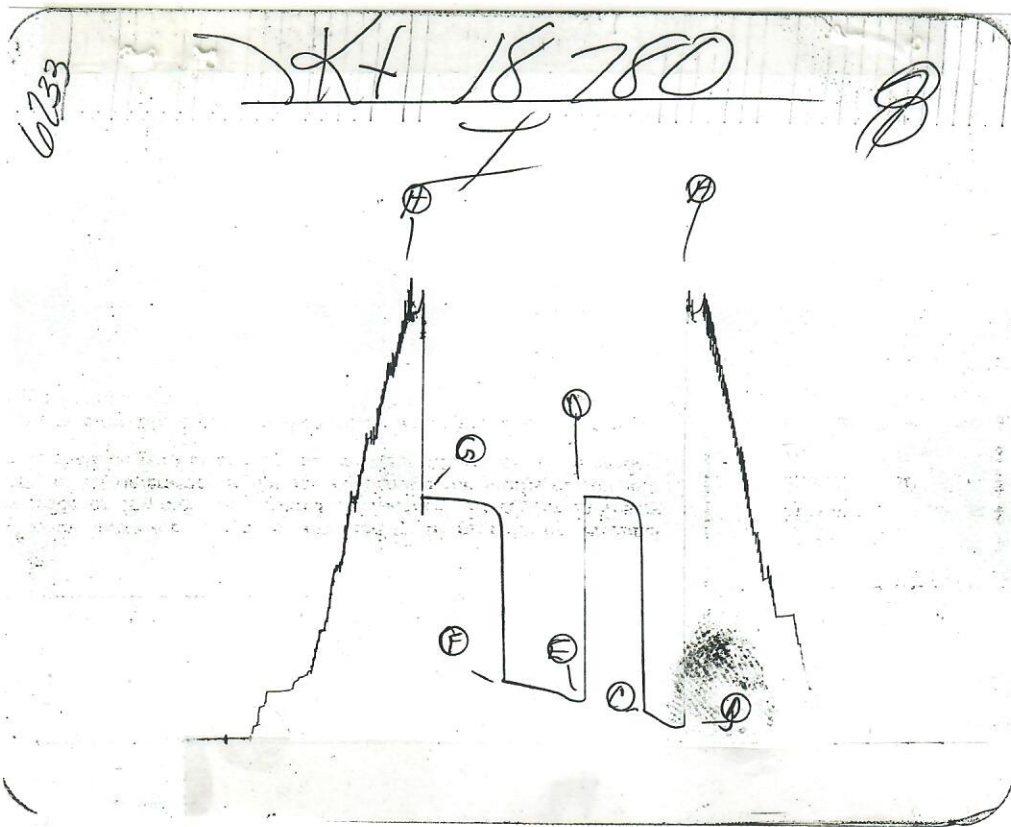
Home Office:

Wichita, Kansas 67201

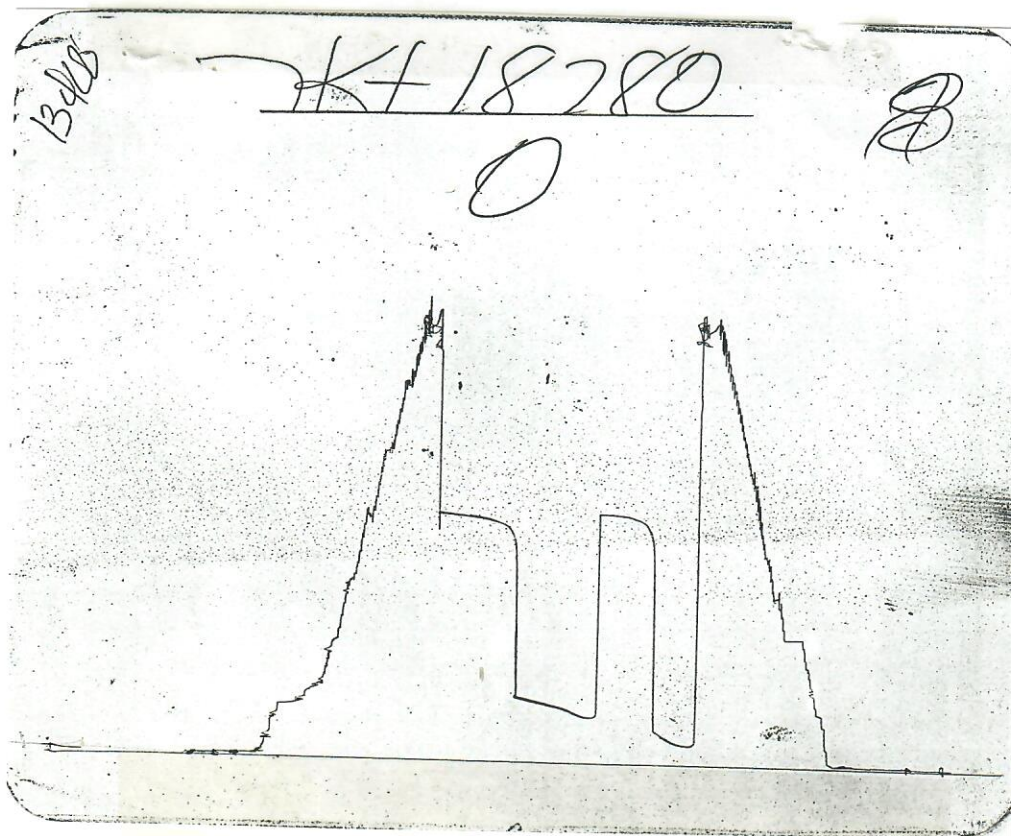
P.O. Box 1599

Phone (316) 262-5861

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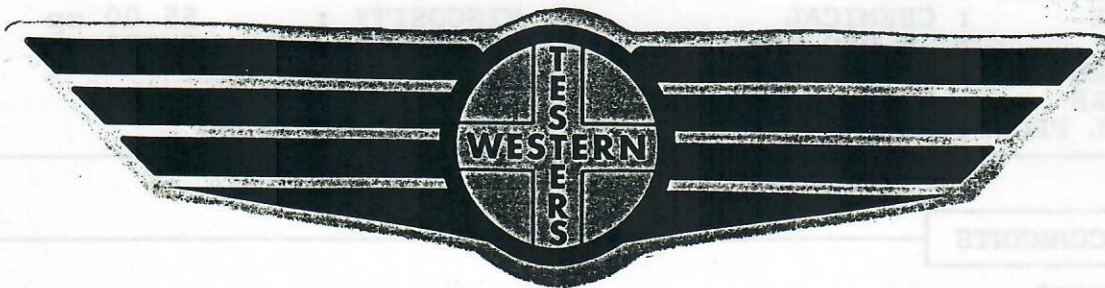


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688- 7021

DST REPORT

GENERAL INFORMATION

DATE	: 1/30/93	TICKET	: 18780
CUSTOMER	: MULL DRILLING COMPANY INC	LEASE	: NICOLARSEN
WELL	: #1	TEST:	: 1
ELEVATION	: 4357 GR	GEOLOGIST	: MARTIN
SECTION	: 10	FORMATION	: MARMATON
RANGE	: 49W	TOWNSHIP	: 16S
GAUGE SN#	: 6233	STATE	: CO
		CLOCK	: 12
	COUNTY: CHEYENNE		
	RANGE : 4000		

WELL INFORMATION

PERFORATION INTERVAL FROM:	4510.00 ft	TO:	4586.00 ft	TVD:	4586.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4538.0 ft		4541.0 ft		
TEMPERATURE:	135.0				
DRILL COLLAR LENGTH:	525.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	3956.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	29.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	76.0 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:	4505.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4510.0 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. :	KUDU	VISCOSITY :	55.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	7.200 cc
WEIGHT :	8.900 ppg		
CHLORIDES :	500 ppm	SERIAL NUMBER:	415
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD OPENED WEAK - BUILT TO STRONG
BLOW-BOTTOM OF BUCKET IN 28 MINUTES.
FINAL FLOW PERIOD OPENED WEAK-BUILT TO STRONG -

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

BOTTOM OF BUCKET IN 45 MINUTES.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
105.0	1.0	0.0	2.0	97.0	V. SLTLY OIL CUT WTRY MUD
276.0	0.0	0.0	20.0	80.0	OIL SPOTTED WATERY MUD
0.0	0.0	0.0	0.0	0.0	OIL <1%
276.0	0.0	0.0	90.0	10.0	OIL SPOTTED MUDDY WATER
0.0	0.0	0.0	0.0	0.0	OIL <1%
0.0	0.0	0.0	0.0	0.0	R.W. .55 @ 52 DEGREES F
0.0	0.0	0.0	0.0	0.0	CHLORIDES 15000PPM

RATE INFORMATION

OIL VOLUME:	0.0147	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	7.8548	STB/D
MUD VOLUME:	2.7978	STB	AVERAGE WATER RATE:	61.2603	STB/D
WATER VOLUME:	1.5071	STB			
TOTAL FLUID :	4.3197	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2207.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	71.00	152.00
INITIAL SHUT-IN	45.00		1283.00
FINAL FLOW	60.00	213.00	325.00
FINAL SHUT-IN	60.00		1263.00

FINAL HYDROSTATIC PRESSURE: 2207.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2214.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	81.00	159.00
INITIAL SHUT-IN	45.00		1276.00
FINAL FLOW	60.00	215.00	320.00
FINAL SHUT-IN	60.00		1264.00

FINAL HYDROSTATIC PRESSURE: 2214.00

WATER INFORMATION

TOTAL FLUID:	4.3197 STB
WATER VOLUME:	1.5011 STB
MUD VOLUME:	2.7178 STB
GAS VOLUME:	0.0000 SCF
OIL VOLUME:	0.0147 STB
AVERAGE WATER RATE:	61.3603 STB/D
AVERAGE OIL RATE:	1.5286 STB/D
TOTAL FLOW TIME:	90.0000 min.

FIELD TIME & PRESSURE INFORMATION

Description	Duration	p1	p End
INITIAL SHUT-IN	45.00	213.00	1263.00
FINAL SHUT-IN	60.00		1263.00
INITIAL FLOW	30.00	71.00	153.00
INITIAL SHUT-IN	45.00		1283.00
FINAL FLOW	60.00		322.00
FINAL SHUT-IN	60.00		1263.00

INITIAL HYDROSTATIC PRESSURE: 2207.00

FINAL HYDROSTATIC PRESSURE: 2207.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 1/30/93	TICKET : 18780
CUSTOMER : MULL DRILLING COMPANY INC	LEASE : NICOLARSEN
WELL : #1	GEOLOGIST: MARTIN
ELEVATION: 4357 GR	FORMATION: MARMATON
SECTION : 10	TOWNSHIP : 16S
RANGE : 49W	STATE : CO
GAUGE SN#: 6233	CLOCK : 12
COUNTY: CHEYENNE	
RANGE : 4000	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	81.00	81.00
5.00	81.00	0.00
10.00	81.00	0.00
15.00	102.00	21.00
20.00	122.00	20.00
25.00	144.00	22.00
30.00	159.00	15.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	854.00	854.00	0.00
6.00	1175.00	321.00	0.00
9.00	1223.00	48.00	0.00
12.00	1243.00	20.00	0.00
15.00	1253.00	10.00	0.00
18.00	1261.00	8.00	0.00
21.00	1267.00	6.00	0.00
24.00	1269.00	2.00	0.00
27.00	1271.00	2.00	0.00
30.00	1273.00	2.00	0.00
33.00	1274.00	1.00	0.00
36.00	1275.00	1.00	0.00
39.00	1276.00	1.00	0.00
42.00	1276.00	0.00	0.00
45.00	1276.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	215.00	215.00
5.00	215.00	0.00
10.00	215.00	0.00
15.00	237.00	22.00
20.00	256.00	19.00
25.00	269.00	13.00
30.00	277.00	8.00
35.00	283.00	6.00
40.00	292.00	9.00
45.00	301.00	9.00
50.00	306.00	5.00
55.00	315.00	9.00
60.00	320.00	5.00

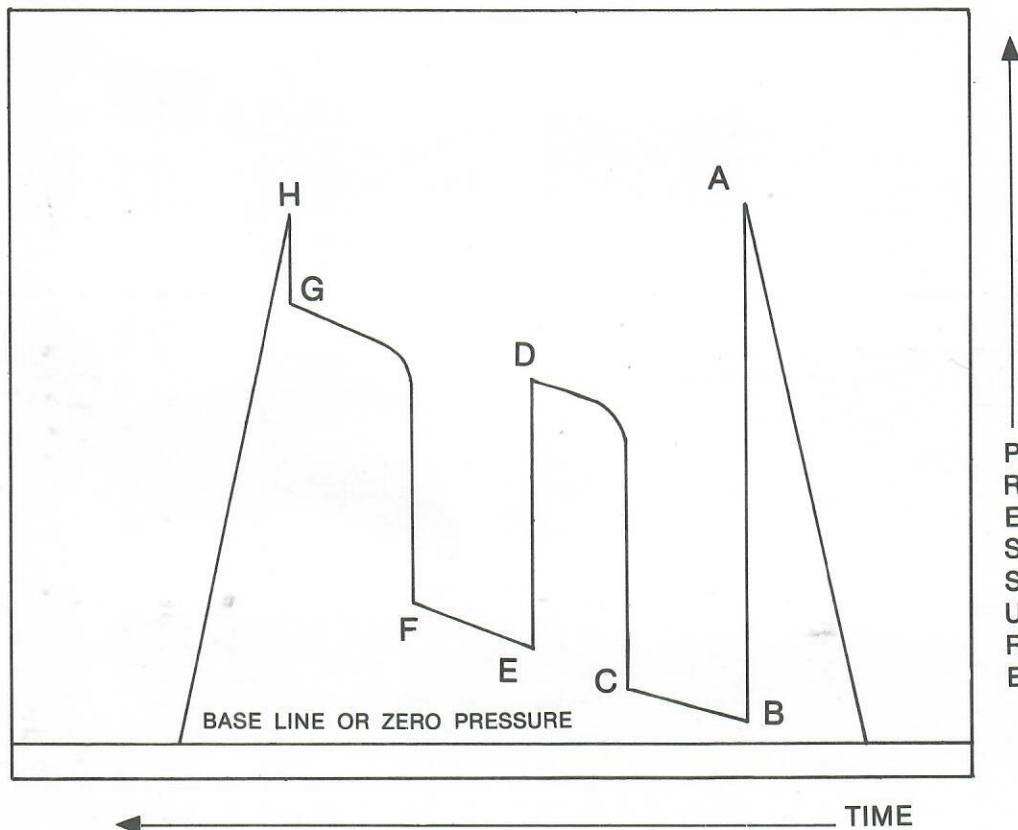
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1011.00	1011.00	0.00
6.00	1172.00	161.00	0.00
9.00	1201.00	29.00	0.00
12.00	1218.00	17.00	0.00
15.00	1227.00	9.00	0.00
18.00	1233.00	6.00	0.00
21.00	1239.00	6.00	0.00
24.00	1244.00	5.00	0.00
27.00	1248.00	4.00	0.00
30.00	1251.00	3.00	0.00
33.00	1253.00	2.00	0.00
36.00	1255.00	2.00	0.00
39.00	1257.00	2.00	0.00
42.00	1258.00	1.00	0.00
45.00	1259.00	1.00	0.00
48.00	1260.00	1.00	0.00
51.00	1261.00	1.00	0.00
54.00	1262.00	1.00	0.00
57.00	1263.00	1.00	0.00
60.00	1264.00	1.00	0.00

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