



# FORMATION **SCANNED**

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

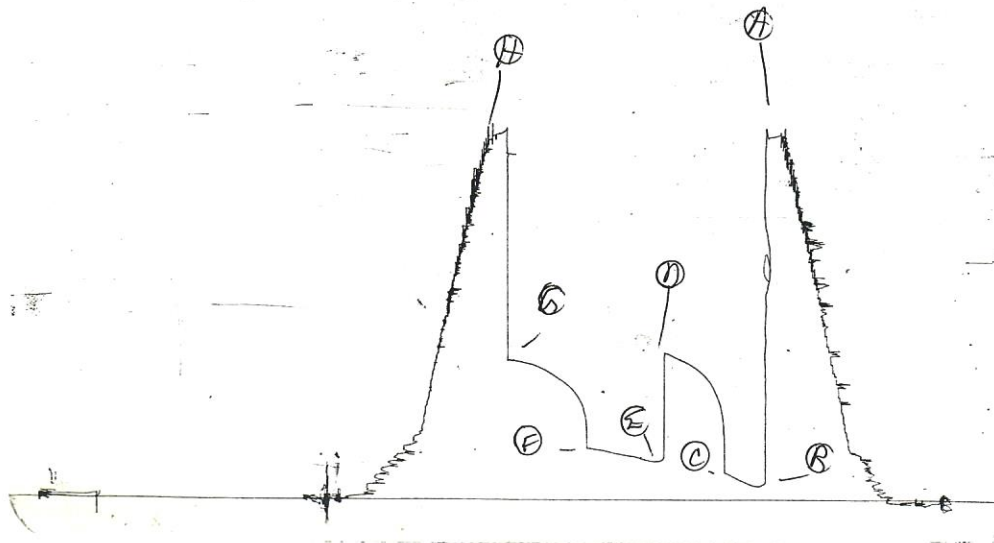
Phone (316) 262-5861

ALL

2605  
D54#1  
Top

KT 20298 9

Z

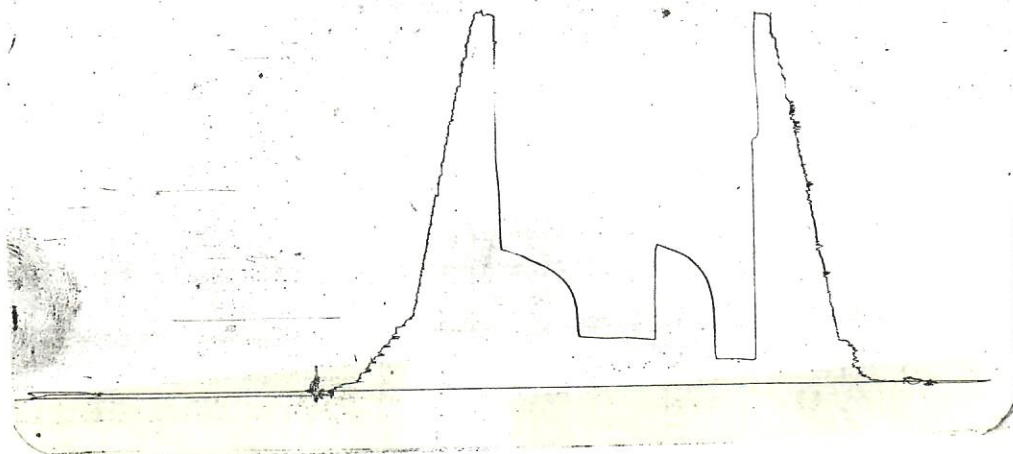


Inside Recorder

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Bottom

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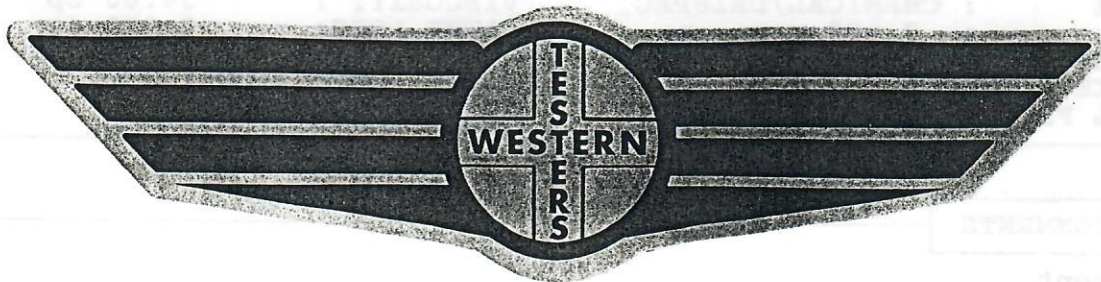


Outside Recorder

# FORMATION TEST

## REPORT

RECEIVED  
JUL 18 1994  
COLO. OIL & GAS CONS. COMM.



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

## DST REPORT

### GENERAL INFORMATION

DATE	: 7/11/94	TICKET	: 20298
CUSTOMER	: MULL DRILLING CO., INC.	LEASE	: KLEPPER
WELL	: #5	TEST: 1	GEOLOGIST: MARTIN
ELEVATION	: 4316 KB	FORMATION	: SHAWNEE
SECTION	: 32	TOWNSHIP	: 13S
RANGE	: 44W	COUNTY: CHEYENNE	STATE : CO
GAUGE SN#	: 2605	RANGE : 4150	CLOCK : 12

### WELL INFORMATION

PERFORATION INTERVAL FROM:	4175.00 ft	TO:	4200.00 ft	TVD:	4200.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4180.0 ft	4183.0 ft			
TEMPERATURE:	130.0				
DRILL COLLAR LENGTH:	547.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	3601.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	25.0 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:	4170.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4175.0 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 RIG 1	VISCOSITY :	54.00 cp
MUD TYPE :	CHEMICAL/DRISPAC	WATER LOSS:	8.000 cc
WEIGHT :	8.900 ppg		
CHLORIDES :	5000 ppm	SERIAL NUMBER:	421
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

### COMMENTS

#### Comment

INITIAL FLOW PERIOD WEAK TO STRONG - OFF BOTTOM OF  
BUCKET IN 23 MINUTES. FINAL FLOW PERIOD WEAK TO  
STRONG BLOW - OFF BOTTOM OF BUCKET IN 31 MINUTES.



# DST REPORT (CONTINUED)

## FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	255 FT GAS ABOVE FLUID
15.0	100.0	0.0	0.0	0.0	FREE OIL
93.0	2.0	0.0	88.0	10.0	SL OIL & MUD CUT WATER
547.0	1.0	0.0	89.0	10.0	V. SL OIL & MUD CUT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 62000 PPM
0.0	0.0	0.0	0.0	0.0	RW .452 @ 80 DEGREES F

## RATE INFORMATION

OIL VOLUME:	0.2622 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	4.2873 STB/D
MUD VOLUME:	0.3876 STB	AVERAGE WATER RATE:	61.0965 STB/D
WATER VOLUME:	3.4367 STB		
TOTAL FLUID :	4.0865 STB		

## FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1985.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	73.00	148.00
INITIAL SHUT-IN	45.00		787.00
FINAL FLOW	60.00	211.00	275.00
FINAL SHUT-IN	60.00		756.00

FINAL HYDROSTATIC PRESSURE: 1974.00

## OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1974.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	106.00	160.00
INITIAL SHUT-IN	48.00		807.00
FINAL FLOW	60.00	222.00	294.00
FINAL SHUT-IN	60.00		766.00

FINAL HYDROSTATIC PRESSURE: 1974.00

# PRESSURE TRANSIENT REPORT

## GENERAL INFORMATION

DATE : 7/11/94	TICKET : 20298
CUSTOMER : MULL DRILLING CO., INC.	LEASE : KLEPPER
WELL : #5	GEOLOGIST: MARTIN
ELEVATION: 4316 KB	FORMATION: SHAWNEE
SECTION : 32	TOWNSHIP : 13S
RANGE : 44W	STATE : CO
GAUGE SN#: 2605	CLOCK : 12
COUNTY: CHEYENNE	
RANGE : 4150	

## INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	106.00	106.00
5.00	88.00	-18.00
10.00	92.00	4.00
15.00	106.00	14.00
20.00	123.00	17.00
25.00	142.00	19.00
30.00	160.00	18.00

## INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	476.00	476.00	11.00
6.00	558.00	82.00	6.00
9.00	600.00	42.00	4.33
12.00	643.00	43.00	3.50
15.00	671.00	28.00	3.00
18.00	695.00	24.00	2.67
21.00	712.00	17.00	2.43
24.00	730.00	18.00	2.25
27.00	742.00	12.00	2.11
30.00	754.00	12.00	2.00
33.00	765.00	11.00	1.91
36.00	773.00	8.00	1.83
39.00	783.00	10.00	1.77
42.00	795.00	12.00	1.71
45.00	801.00	6.00	1.67
48.00	807.00	6.00	1.63



# PRESSURE TRANSIENT REPORT (CONTINUED)

## FINAL FLOW

Time (min)	Pressure	Delta P
0.00	222.00	222.00
5.00	222.00	0.00
10.00	226.00	4.00
15.00	234.00	8.00
20.00	246.00	12.00
25.00	253.00	7.00
30.00	258.00	5.00
35.00	266.00	8.00
40.00	273.00	7.00
45.00	282.00	9.00
50.00	286.00	4.00
55.00	292.00	6.00
60.00	294.00	2.00

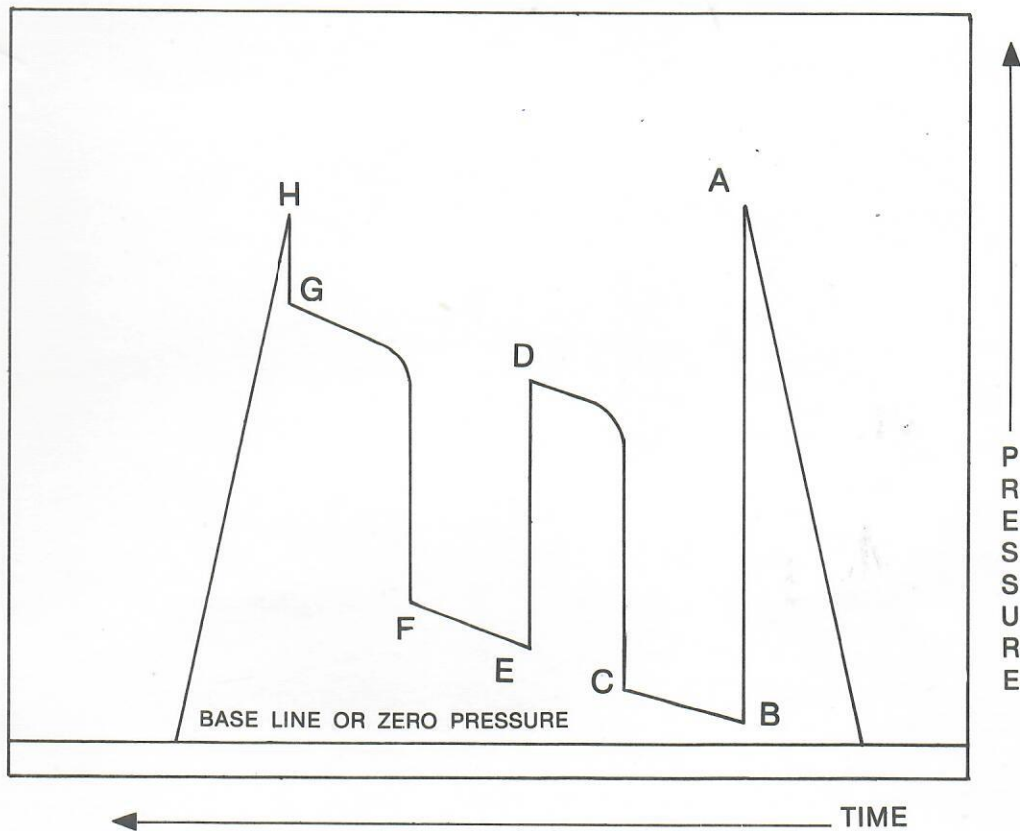
## FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	487.00	487.00	21.00
6.00	550.00	63.00	11.00
9.00	584.00	34.00	7.67
12.00	610.00	26.00	6.00
15.00	628.00	18.00	5.00
18.00	648.00	20.00	4.33
21.00	664.00	16.00	3.86
24.00	675.00	11.00	3.50
27.00	690.00	15.00	3.22
30.00	703.00	13.00	3.00
33.00	713.00	10.00	2.82
36.00	724.00	11.00	2.67
39.00	733.00	9.00	2.54
42.00	742.00	9.00	2.43
45.00	747.00	5.00	2.33
48.00	750.00	3.00	2.25
51.00	757.00	7.00	2.18
54.00	761.00	4.00	2.11
57.00	764.00	3.00	2.05
60.00	766.00	2.00	2.00

### 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