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**FORMATION** RECEIVED

APR 22 1993

COLO. OIL & GAS CONS. COMM

**TEST**

**REPORT**

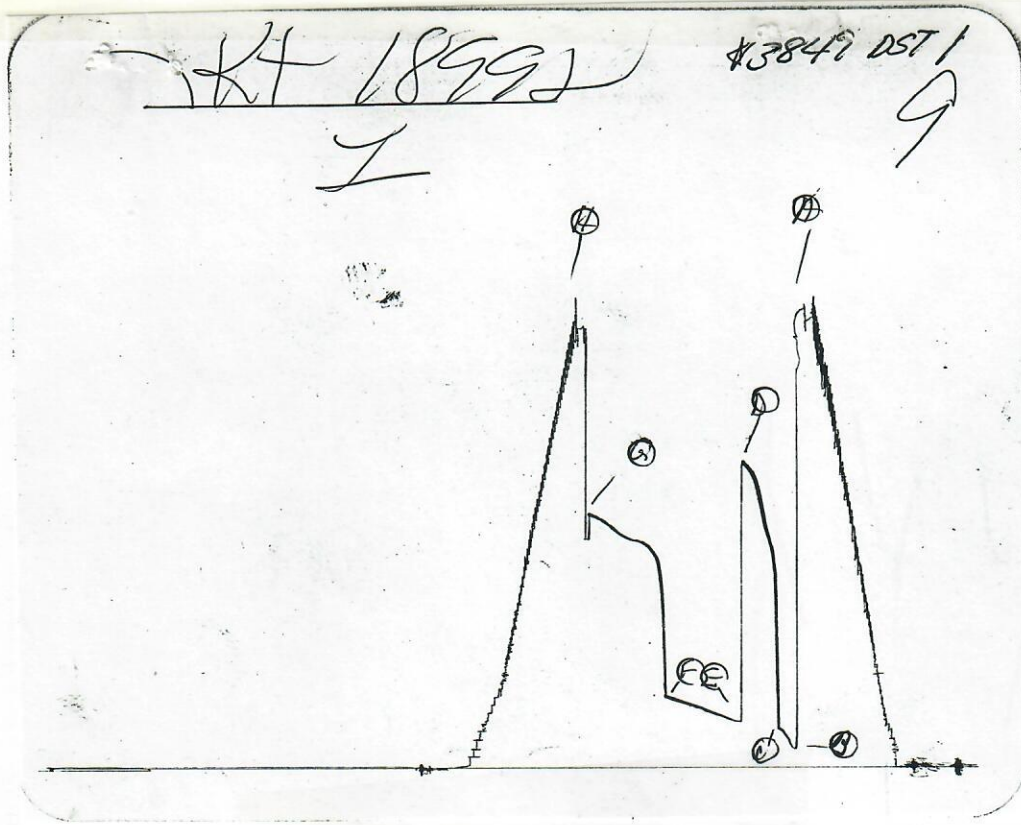


Home Office:

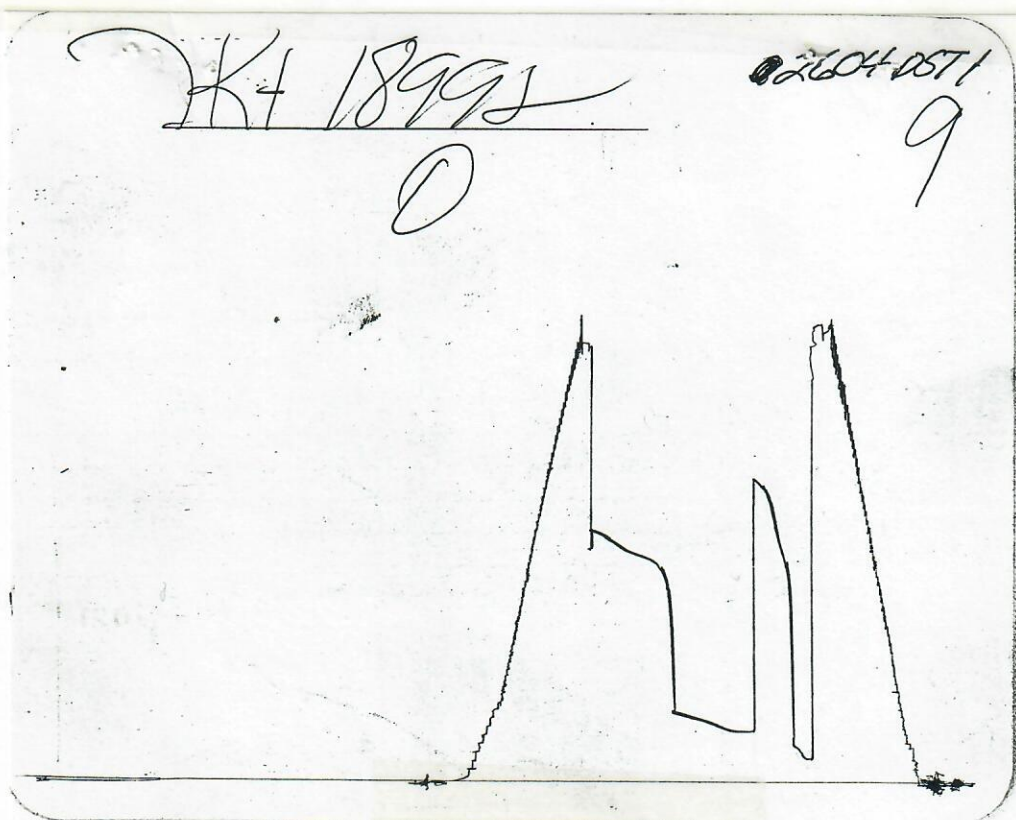
Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861



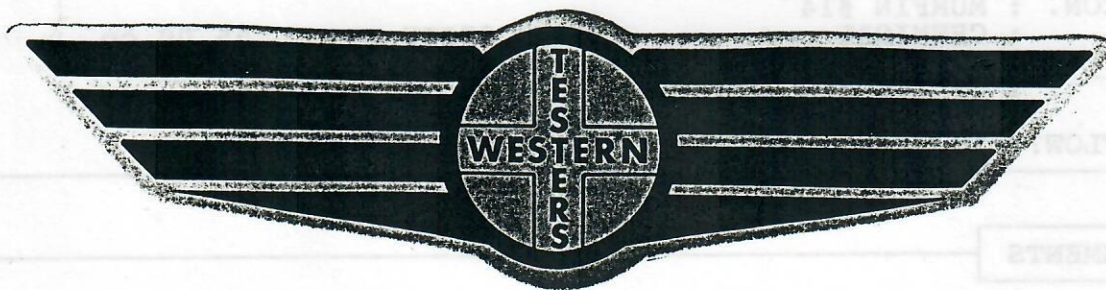
Inside Recorder



Outside Recorder



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

## DST REPORT

### GENERAL INFORMATION

DATE	: 4-18-93	TICKET	: 18992-AFE 14649
CUSTOMER	: UNION PACIFIC RESOURCES	LEASE	: BLANCA STATE 32-12
WELL	: #1	TEST:	1
ELEVATION	: 4220 K.B..	GEOLOGIST	: ED MARTIN
SECTION	: 12	FORMATION	: MORROW SAND
RANGE	: 48W	TOWNSHIP	: 16S
Gauge SN#	: 3849	STATE	: CO
		CLOCK	: 12
		COUNTY	: CHEYENNE
		RANGE	: 4200

### WELL INFORMATION

PERFORATION INTERVAL FROM:	5018.00 ft	TO:	5229.00 ft	TVD:	5229.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5035.0 ft		5038.0 ft		
TEMPERATURE:	145.0				
DRILL COLLAR LENGTH:	395.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH:	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH:	4591.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH:	32.0 ft	TOOL SIZE:		5.500 in	
ANCHOR LENGTH:	211.0 ft	ANCHOR SIZE:		6.250 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:	5013.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	5018.0 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.:	MURFIN #14	VISCOSITY:	55.00 cp
MUD TYPE:	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT:	9.200 ppg	SERIAL NUMBER:	402
CHLORIDES:	350 ppm	REVERSED OUT?:	NO
JARS-MAKE:	WTC		
DID WELL FLOW?:	NO		

### COMMENTS

#### Comment

FAIR, 2" BLOW BUILDING TO A STRONG BLOW OFF BOTTOM  
OF BUCKET IN 4 MINUTES ON INITIAL FLOW PERIOD.  
WEAK, 1" BLOW BUILDING TO A STRONG BLOW OFF BOTTOM



# DST REPORT (CONTINUED)

## COMMENTS (CONTINUED)

Comment

BUCKET IN 14 MINUTES ON FINAL FLOW PERIOD.

## FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
180.0	0.0	0.0	0.0	100.0	MUD
90.0	0.0	0.0	40.0	60.0	WATER CUT MUD
495.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 90000 PPM
0.0	0.0	0.0	0.0	0.0	RW .085 AT 70 DEG. F.
0.0	0.0	0.0	0.0	0.0	

## RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	3.2822	STB	TOTAL FLOW TIME:	75.0000 min.
WATER VOLUME:	3.8500	STB	AVERAGE OIL RATE:	0.0000 STB/D
TOTAL FLUID :	7.1322	STB	AVERAGE WATER RATE:	88.4623 STB/D

## FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2483.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	89.00	206.00
INITIAL SHUT-IN	30.00		1659.00
FINAL FLOW	60.00	242.00	382.00
FINAL SHUT-IN	60.00		1378.00

FINAL HYDROSTATIC PRESSURE: 2398.00

# DST REPORT (CONTINUED)

## OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2498.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	97.00	216.00
INITIAL SHUT-IN	33.00		1672.00
FINAL FLOW	60.00	254.00	399.00
FINAL SHUT-IN	60.00		1389.00

FINAL HYDROSTATIC PRESSURE: 2396.00

## RATE INFORMATION

AVERAGE WATER RATE: 88.4633 STB/D  
 AVERAGE OIL RATE: 0.0000 STB/D  
 TOTAL FLOW TIME: 75.0000 min.

TOTAL FLUID: 7.1322 STB  
 WATER VOLUME: 3.9500 STB  
 MUD VOLUME: 1.3817 STB  
 GAS VOLUME: 0.0000 STB  
 OIL VOLUME: 0.0000 STB

## FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2483.00

Description	Duration	p1	p End
INITIAL FLOW	12.00	89.00	206.00
INITIAL SHUT-IN	30.00		1659.00
FINAL FLOW	60.00	243.00	383.00
FINAL SHUT-IN	60.00		1378.00

FINAL HYDROSTATIC PRESSURE: 2398.00



# PRESSURE TRANSIENT REPORT

## GENERAL INFORMATION

DATE : 4-18-93	TICKET : 18992-AFE 14649
CUSTOMER : UNION PACIFIC RESOURCES	LEASE : BLANCA STATE 32-12
WELL : #1 TEST: 1	GEOLOGIST: ED MARTIN
ELEVATION: 4220 K.B..	FORMATION: MORROW SAND
SECTION : 12	TOWNSHIP : 16S
RANGE : 48W	STATE : CO
GAUGE SN#: 3849	CLOCK : 12
COUNTY: CHEYENNE	
RANGE : 4200	

## INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	97.00	97.00
5.00	137.00	40.00
10.00	202.00	65.00
15.00	216.00	14.00

## INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	869.00	869.00	0.00
6.00	1099.00	230.00	0.00
9.00	1211.00	112.00	0.00
12.00	1289.00	78.00	0.00
15.00	1371.00	82.00	0.00
18.00	1480.00	109.00	0.00
21.00	1558.00	78.00	0.00
24.00	1610.00	52.00	0.00
27.00	1638.00	28.00	0.00
30.00	1662.00	24.00	0.00
33.00	1672.00	10.00	0.00

## FINAL FLOW

Time (min)	Pressure	Delta P
0.00	254.00	254.00
5.00	261.00	7.00
10.00	276.00	15.00

# PRESSURE TRANSIENT REPORT (CONTINUED)

## FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
15.00	295.00	19.00
20.00	306.00	11.00
25.00	219.00	-87.00
30.00	334.00	115.00
35.00	347.00	13.00
40.00	359.00	12.00
45.00	371.00	12.00
50.00	384.00	13.00
55.00	393.00	9.00
60.00	399.00	6.00

## FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	727.00	727.00	0.00
6.00	1013.00	286.00	0.00
9.00	1123.00	110.00	0.00
12.00	1169.00	46.00	0.00
15.00	1196.00	27.00	0.00
18.00	1217.00	21.00	0.00
21.00	1232.00	15.00	0.00
24.00	1238.00	6.00	0.00
27.00	1241.00	3.00	0.00
30.00	1250.00	9.00	0.00
33.00	1255.00	5.00	0.00
36.00	1270.00	15.00	0.00
39.00	1285.00	15.00	0.00
42.00	1304.00	19.00	0.00
45.00	1321.00	17.00	0.00
48.00	1340.00	19.00	0.00
51.00	1356.00	16.00	0.00
54.00	1366.00	10.00	0.00
57.00	1376.00	10.00	0.00
60.00	1389.00	13.00	0.00



## FLUID SAMPLE REPORT

### GENERAL INFORMATION

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WELL	: #1	TEST:	1
ELEVATION:	4220 K.B..	GEOLOGIST:	ED MARTIN
SECTION	: 12	FORMATION:	MORROW SAND
RANGE	: 48W	TOWNSHIP	: 16S
GAUGE SN#:	3849	STATE	: CO
		CLOCK	: 12
	COUNTY: CHEYENNE		
	RANGE : 4200		

### SAMPLE INFORMATION

PRESSURE IN SAMPLER:	175.00 PSIG	BHT:	145.0 DEG F
TOTAL VOLUME OF SAMPLER:	3150.00 cc		
TOTAL VOLUME OF SAMPLE:	2950.00 cc		
OIL:	0.00 cc		
WATER:	2950.00 cc		
MUD:	0.00 cc		
GAS:	1.64 cc		
OTHER:	0.00 cc		

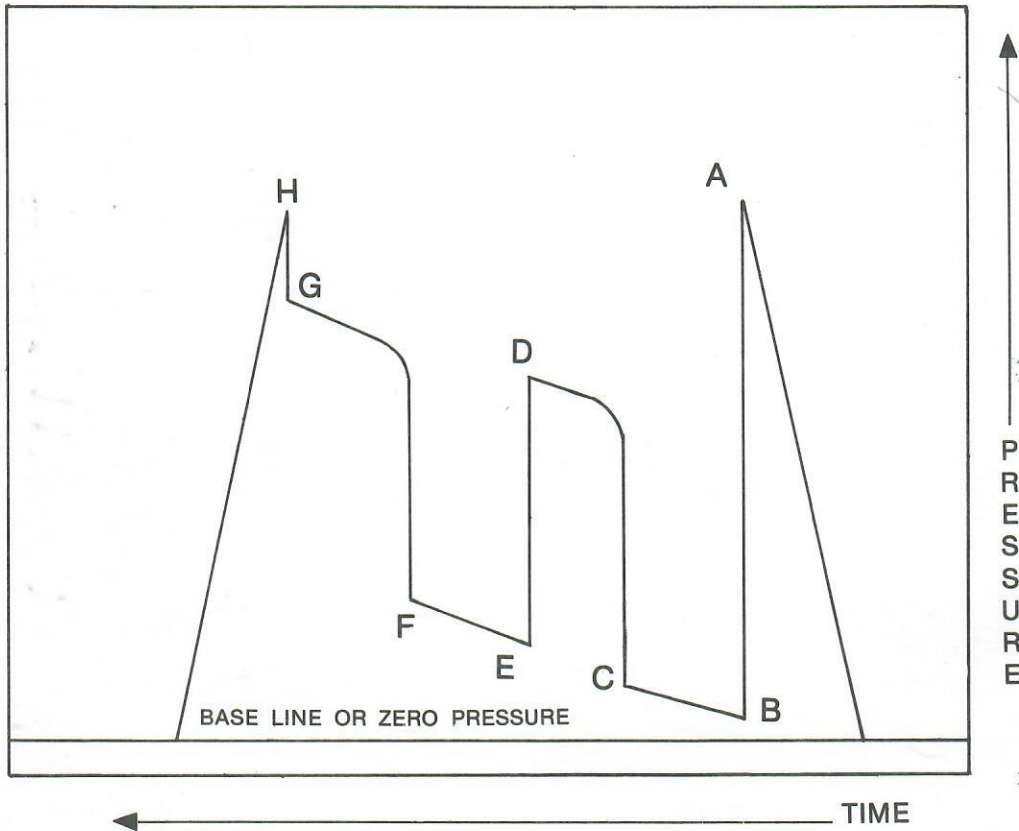
### RESISTIVITY

DRILLING MUD:	.085 @ 70 DEG. F.	CHLORIDE CONTENT:	90000.00 ppm
MUD PIT SAMPLE:	9.0 @ 70 DEG. F.	CHLORIDE CONTENT:	600.00 ppm
GAS/OIL RATIO:		GRAVITY:	
WHERE WAS SAMPLE DRAINED:	ON LOCATION		
REMARKS:	AFE #14649		

### 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