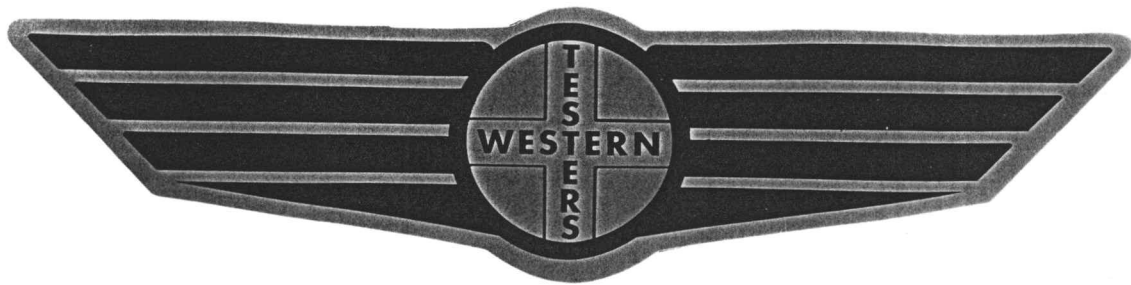


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 4/21/94	TICKET	: 20452
CUSTOMER	: HELLAR DRILLING CO., INC.	LEASE	: USA
WELL	: #1	TEST: 1	GEOLOGIST: DOUGLASS
ELEVATION	: 2529 GL	FORMATION	: KANSAS CITY
SECTION	: 5	TOWNSHIP	: 16S
RANGE	: 27W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3968.00 ft	TO:	4000.00 ft	TVD:	4000.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3992.0 ft		3995.0 ft		
TEMPERATURE:	122.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	620.0 ft	I.D.:		2.700 in	
DRILL PIPE LENGTH :	3326.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	22.0 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:	3963.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3968.0 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. :	ABERCROMBIE RIG 8	VISCOSITY :	45.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	11.200 cc
WEIGHT :	9.300 ppg		
CHLORIDES :	3500 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT - 1/4
INCH BLOW. FINAL FLOW PERIOD WEAK SURFACE BLOW
THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	12.0	0.0	0.0	88.0	SLIGHTLY OIL CUT MUD
60.0	0.0	0.0	32.0	68.0	WATER CUT MUD
0.0	0.0	0.0	0.0	0.0	W/SHOW OF OIL
0.0	0.0	0.0	0.0	0.0	CHLORIDES 35000 PPM

RATE INFORMATION

OIL VOLUME:	0.0255 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	90.0000 min.
MUD VOLUME:	0.4759 STB	AVERAGE OIL RATE:	3.3990 STB/D
WATER VOLUME:	0.1360 STB	AVERAGE WATER RATE:	6.7979 STB/D
TOTAL FLUID :	0.6373 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1962.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	41.00
INITIAL SHUT-IN	45.00		1163.00
FINAL FLOW	60.00	52.00	62.00
FINAL SHUT-IN	45.00		1101.00

FINAL HYDROSTATIC PRESSURE: 1962.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1992.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	56.00	48.00
INITIAL SHUT-IN	48.00		1170.00
FINAL FLOW	60.00	75.00	75.00
FINAL SHUT-IN	60.00		1112.00

FINAL HYDROSTATIC PRESSURE: 1985.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 4/21/94	TICKET	: 20452
CUSTOMER	: HELLAR DRILLING CO., INC.	LEASE	: USA
WELL	: #1	TEST: 1	GEOLOGIST: DOUGLASS
ELEVATION	: 2529 GL	FORMATION:	KANSAS CITY
SECTION	: 5	TOWNSHIP	: 16S
RANGE	: 27W	COUNTY:	LANE
GAUGE SN#	: 10270	RANGE	: 4150
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	56.00	56.00
5.00	46.00	-10.00
10.00	44.00	-2.00
15.00	45.00	1.00
20.00	46.00	1.00
25.00	47.00	1.00
30.00	48.00	1.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	285.00	285.00	11.00
6.00	662.00	377.00	6.00
9.00	847.00	185.00	4.33
12.00	944.00	97.00	3.50
15.00	998.00	54.00	3.00
18.00	1039.00	41.00	2.67
21.00	1067.00	28.00	2.43
24.00	1089.00	22.00	2.25
27.00	1106.00	17.00	2.11
30.00	1120.00	14.00	2.00
33.00	1133.00	13.00	1.91
36.00	1143.00	10.00	1.83
39.00	1151.00	8.00	1.77
42.00	1158.00	7.00	1.71
45.00	1164.00	6.00	1.67
48.00	1170.00	6.00	1.63

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

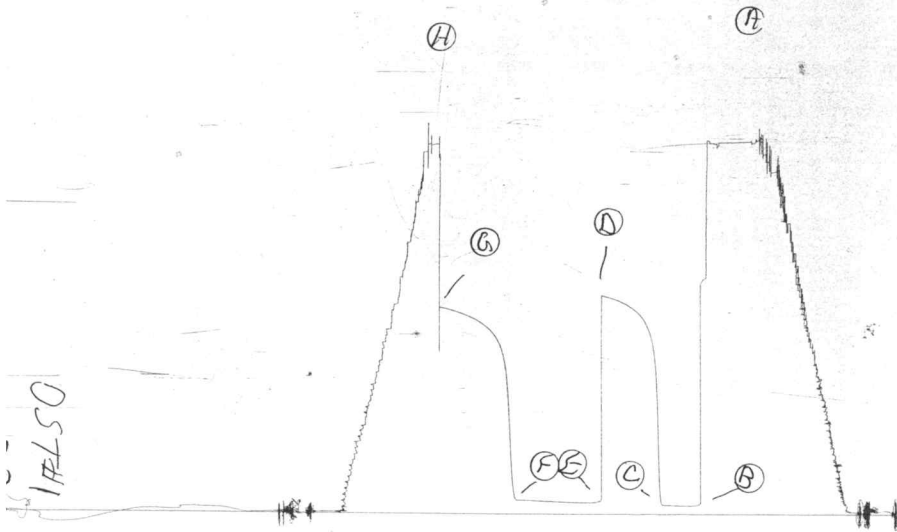
Time (min)	Pressure	Delta P
0.00	75.00	75.00
5.00	63.00	-12.00
10.00	65.00	2.00
15.00	66.00	1.00
20.00	67.00	1.00
25.00	68.00	1.00
30.00	69.00	1.00
35.00	70.00	1.00
40.00	71.00	1.00
45.00	72.00	1.00
50.00	73.00	1.00
55.00	74.00	1.00
60.00	75.00	1.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	175.00	175.00	21.00
6.00	481.00	306.00	11.00
9.00	705.00	224.00	7.67
12.00	832.00	127.00	6.00
15.00	898.00	66.00	5.00
18.00	939.00	41.00	4.33
21.00	969.00	30.00	3.86
24.00	992.00	23.00	3.50
27.00	1012.00	20.00	3.22
30.00	1027.00	15.00	3.00
33.00	1041.00	14.00	2.82
36.00	1055.00	14.00	2.67
39.00	1062.00	7.00	2.54
42.00	1073.00	11.00	2.43
45.00	1081.00	8.00	2.33
48.00	1089.00	8.00	2.25
51.00	1095.00	6.00	2.18
54.00	1100.00	5.00	2.11
57.00	1105.00	5.00	2.05
60.00	1112.00	7.00	2.00

Kt 20452

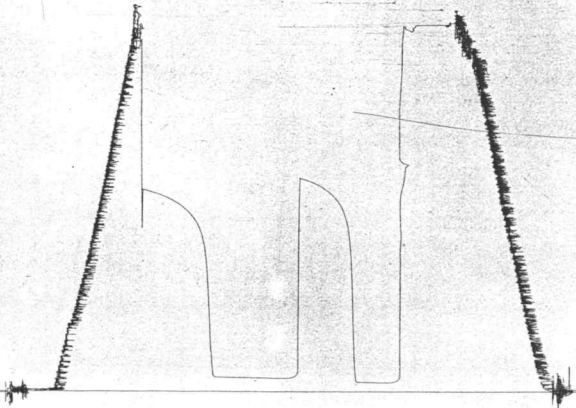
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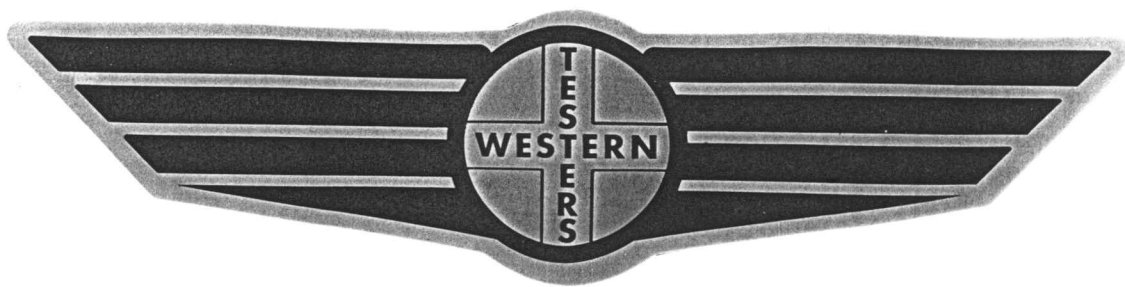
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 4/22/94	TICKET	: 20453
CUSTOMER	: HELLAR DRILLING CO., INC.	LEASE	: USA
WELL	: #1	TEST:	2
ELEVATION	: 2529 GL	GEOLOGIST	: DOUGLASS
SECTION	: 5	FORMATION	: KANSAS CITY
RANGE	: 27W	TOWNSHIP	: 16S
GAUGE SN#	: 10270	STATE	: KS
	COUNTY: LANE	CLOCK	: 12
	RANGE : 4150		

WELL INFORMATION

PERFORATION INTERVAL FROM:	4094.00 ft	TO:	4109.00 ft	TVD:	4109.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4101.0 ft		4104.0 ft		
TEMPERATURE:	125.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	620.0 ft	I.D.:		2.700 in	
DRILL PIPE LENGTH :	3454.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	15.0 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:	4089.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4094.0 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. :	ABERCROMBIE RIG 8	VISCOSITY :	46.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.000 cc
WEIGHT :	9.400 ppg		
CHLORIDES :	4000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL AND FINAL FLOW PERIODS STRONG BLOW
THROUGHOUT.
GAS TO SURFACE ON FINAL SHUT-IN.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
675.0	100.0	0.0	0.0	0.0	GASSY OIL GRAVITY 42
125.0	21.0	45.0	2.0	32.0	HEAVY OIL & GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	6.2158 STB		
GAS VOLUME:	2.2365 SCF		
MUD VOLUME:	0.2832 STB		
WATER VOLUME:	0.0177 STB		
TOTAL FLUID :	6.5168 STB		
		TOTAL FLOW TIME:	90.0000 min.
		AVERAGE OIL RATE:	103.5907 STB/D
		AVERAGE WATER RATE:	0.6773 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2066.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	72.00	93.00
INITIAL SHUT-IN	45.00		1215.00
FINAL FLOW	60.00	187.00	291.00
FINAL SHUT-IN	45.00		1184.00

FINAL HYDROSTATIC PRESSURE: 2045.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2078.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	81.00	138.00
INITIAL SHUT-IN	51.00		1217.00
FINAL FLOW	60.00	188.00	293.00
FINAL SHUT-IN	60.00		1175.00

FINAL HYDROSTATIC PRESSURE: 2042.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/22/94	TICKET : 20453
CUSTOMER : HELLAR DRILLING CO., INC.	LEASE : USA
WELL : #1 TEST: 2	GEOLOGIST: DOUGLASS
ELEVATION: 2529 GL	FORMATION: KANSAS CITY
SECTION : 5	TOWNSHIP : 16S
RANGE : 27W COUNTY: LANE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	81.00	81.00
5.00	73.00	-8.00
10.00	81.00	8.00
15.00	96.00	15.00
20.00	110.00	14.00
25.00	127.00	17.00
30.00	138.00	11.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	884.00	884.00	11.00
6.00	1050.00	166.00	6.00
9.00	1103.00	53.00	4.33
12.00	1130.00	27.00	3.50
15.00	1149.00	19.00	3.00
18.00	1163.00	14.00	2.67
21.00	1171.00	8.00	2.43
24.00	1179.00	8.00	2.25
27.00	1188.00	9.00	2.11
30.00	1193.00	5.00	2.00
33.00	1198.00	5.00	1.91
36.00	1203.00	5.00	1.83
39.00	1207.00	4.00	1.77
42.00	1210.00	3.00	1.71
45.00	1213.00	3.00	1.67
48.00	1215.00	2.00	1.63
51.00	1217.00	2.00	1.59

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	188.00	188.00
5.00	188.00	0.00
10.00	193.00	5.00
15.00	201.00	8.00
20.00	209.00	8.00
25.00	220.00	11.00
30.00	232.00	12.00
35.00	244.00	12.00
40.00	256.00	12.00
45.00	265.00	9.00
50.00	275.00	10.00
55.00	284.00	9.00
60.00	293.00	9.00

FINAL SHUT IN

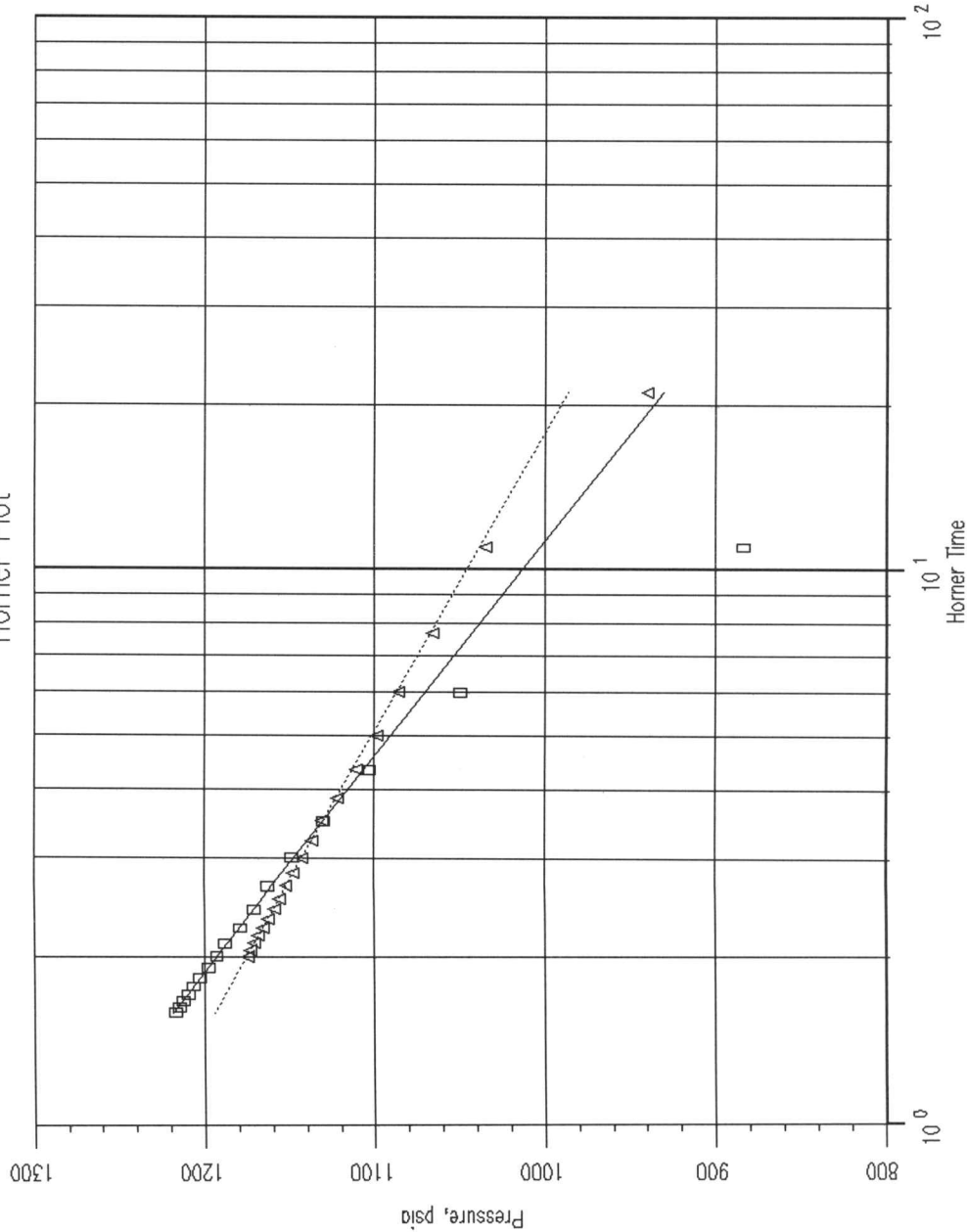
Time (min)	Pressure	Delta P	Horner T
3.00	940.00	940.00	21.00
6.00	1035.00	95.00	11.00
9.00	1066.00	31.00	7.67
12.00	1086.00	20.00	6.00
15.00	1099.00	13.00	5.00
18.00	1111.00	12.00	4.33
21.00	1122.00	11.00	3.86
24.00	1131.00	9.00	3.50
27.00	1137.00	6.00	3.22
30.00	1143.00	6.00	3.00
33.00	1148.00	5.00	2.82
36.00	1152.00	4.00	2.67
39.00	1156.00	4.00	2.54
42.00	1159.00	3.00	2.43
45.00	1163.00	4.00	2.33
48.00	1166.00	3.00	2.25
51.00	1169.00	3.00	2.18
54.00	1171.00	2.00	2.11
57.00	1173.00	2.00	2.05
60.00	1175.00	2.00	2.00

DATE 4/22/94
 CUSTOMER HELLAR DRILLING CO., INC.
 WELL #1
 ELEVATION 2529 GL
 SECTION 5
 RANGE 27W
 GAUGE SN# 10270

TEST 2
 COUNTY RANGE
 LANE 4150

TICKET 20453
 LEASE USA
 GEOLOGIST DOUGLASS
 FORMATION KANSAS CITY
 TOWNSHIP 16S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.50	1.00
Slope	-257.06	-184.81
Pstar, psig	1270.39	1230.87
P1hr, psig	1225.12	1175.24
Skin	1.81	2.07
k, md	22.44	31.22
kh/u, md-ft/cp	72.29	100.55
ri, ft	11.43	19.07
DR, %	1.35	1.46
Drawdown Factor, %	3.451	3.110
Drawdown P*, %		

— BUILD 1

..... BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 4/22/94	TICKET : 20453
CUSTOMER : HELLAR DRILLING CO., INC.	LEASE : USA
WELL : #1 TEST: 2	GEOLOGIST: DOUGLASS
ELEVATION: 2529 GL	FORMATION: KANSAS CITY
SECTION : 5	TOWNSHIP : 16S
RANGE : 27W COUNTY: LANE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

Input Data

Porosity 0.170 Rw: 0.328 ft h: 7.000 ft

qo 103.6 STB GOR 204.3 SCF/STB

Pvt Data

Evalutation Pressure : 1170.0

Evalutation Temperature: 125.0

Oil Grav 30.00 API	Gas Grav 0.65 API	Pb 1170.00 PSIA
Bo 1.103 RBL/STB	Vis 1.000 cp	Ct 2.4503E-004 1/PSI

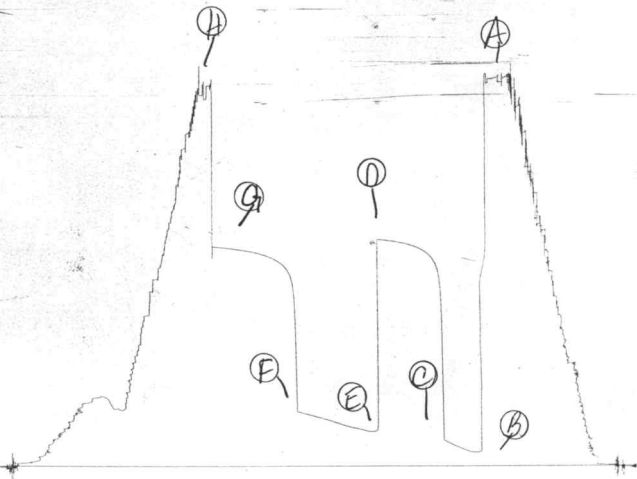
Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	1.00 hrs
slope	-257.06	-184.81
pstar	1270.39 psig	1230.87 psig
plhr	1225.12 psig	1175.24 psig
skin	1.81	2.07
permeability	22.44 md	31.22 md
transmisability	72.29 md-ft/cp	100.55 md-ft/cp
radius of investigation	11.43 ft	19.07 ft
Damage-Ratio	1.4 percent	1.5 percent
Drawdown Factor		3.451 percent
Drawdown P*		3.110 percent

TKA 20453

I.

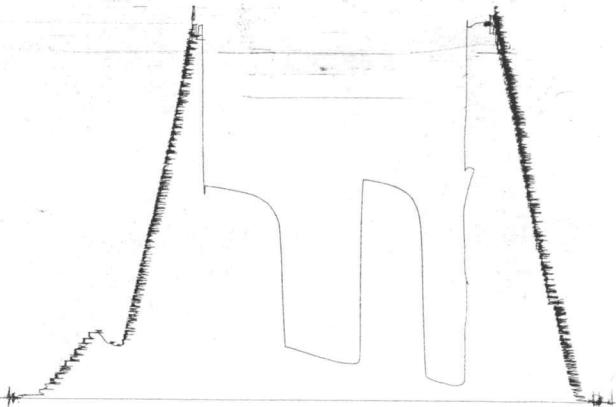
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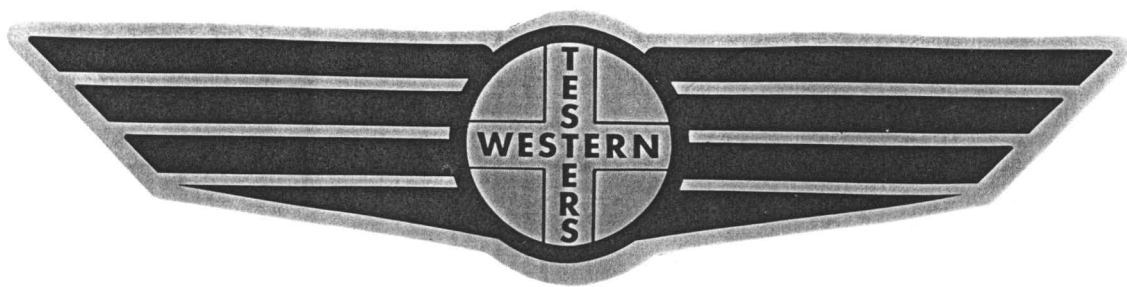
TEL# 20453

O.

DSIT
2



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	: 20454
CUSTOMER	: HELLAR DRILLING CO., INC.	LEASE	: USA
WELL	: #1	TEST: 3	GEOLOGIST: DOUGLASS
ELEVATION	: 2529 GL	FORMATION	: FT SCOTT
SECTION	: 5	TOWNSHIP	: 16S
RANGE	: 27W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4309.00 ft	TO:	4330.00 ft	TVD:	4330.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4322.0 ft		4325.0 ft		
TEMPERATURE:	128.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	620.0 ft	I.D.:		2.700 in	
DRILL PIPE LENGTH :	3669.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	21.0 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:	4304.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4309.0 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. :	ABERCROMBIE RIG 8	VISCOSITY :	54.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.000 cc
WEIGHT :	9.400 ppg		
CHLORIDES :	4000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A GOOD BLOW -
1/2 TO 7 1/2 INCH BLOW. FINAL FLOW PERIOD WEAK
BUILDING TO A STRONG BLOW IN 14 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	2500 FT GAS ABOVE FLUID
25.0	100.0	0.0	0.0	0.0	CLEAN OIL GRAVITY 40
40.0	70.0	5.0	0.0	25.0	MUDDY OIL

RATE INFORMATION

OIL VOLUME:	0.3753	STB		
GAS VOLUME:	0.0795	SCF		
MUD VOLUME:	0.0708	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.4461	STB		
			TOTAL FLOW TIME:	90.0000 min.
			AVERAGE OIL RATE:	7.1378 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2222.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	45.00		447.00
FINAL FLOW	60.00	41.00	41.00
FINAL SHUT-IN	60.00		437.00

FINAL HYDROSTATIC PRESSURE: 2222.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2243.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	33.00	33.00
INITIAL SHUT-IN	45.00		437.00
FINAL FLOW	60.00	48.00	50.00
FINAL SHUT-IN	63.00		431.00

FINAL HYDROSTATIC PRESSURE: 2219.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 4/23/94	TICKET	: 20454
CUSTOMER	: HELLAR DRILLING CO., INC.	LEASE	: USA
WELL	: #1	TEST: 3	GEOLOGIST: DOUGLASS
ELEVATION:	2529 GL	FORMATION:	FT SCOTT
SECTION	: 5	TOWNSHIP	: 16S
RANGE	: 27W	COUNTY:	LANE
GAUGE SN#:	10270	RANGE	: 4150
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	33.00	33.00
5.00	33.00	0.00
10.00	33.00	0.00
15.00	33.00	0.00
20.00	33.00	0.00
25.00	33.00	0.00
30.00	33.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	68.00	68.00	11.00
6.00	137.00	69.00	6.00
9.00	227.00	90.00	4.33
12.00	325.00	98.00	3.50
15.00	368.00	43.00	3.00
18.00	392.00	24.00	2.67
21.00	405.00	13.00	2.43
24.00	415.00	10.00	2.25
27.00	420.00	5.00	2.11
30.00	425.00	5.00	2.00
33.00	428.00	3.00	1.91
36.00	431.00	3.00	1.83
39.00	433.00	2.00	1.77
42.00	435.00	2.00	1.71
45.00	437.00	2.00	1.67

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	48.00	48.00
5.00	48.00	0.00
10.00	48.00	0.00
15.00	48.00	0.00
20.00	48.00	0.00
25.00	48.00	0.00
30.00	48.00	0.00
35.00	49.00	1.00
40.00	49.00	0.00
45.00	49.00	0.00
50.00	50.00	1.00
55.00	50.00	0.00
60.00	50.00	0.00

FINAL SHUT IN

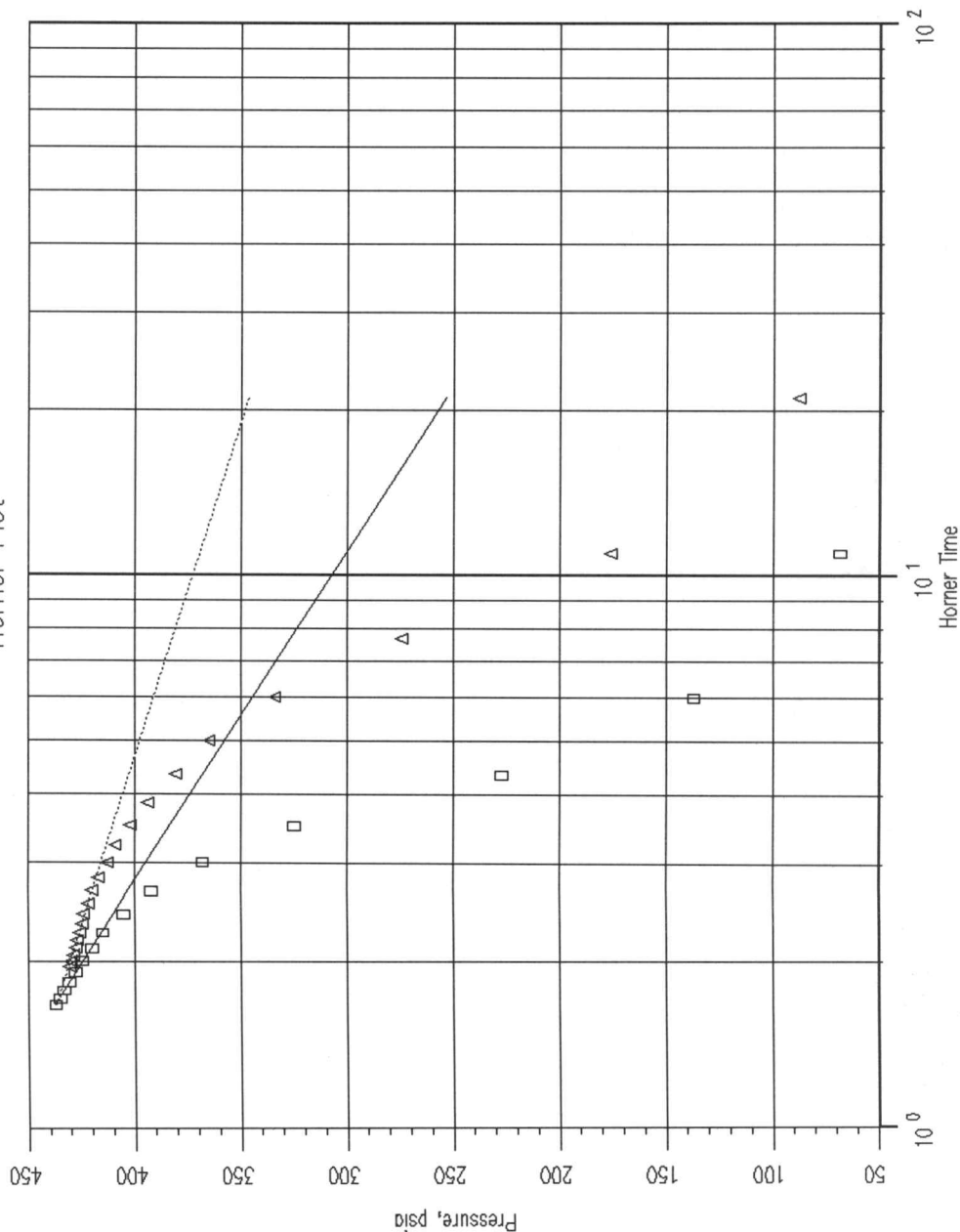
Time (min)	Pressure	Delta P	Horner T
3.00	88.00	88.00	21.00
6.00	176.00	88.00	11.00
9.00	274.00	98.00	7.67
12.00	334.00	60.00	6.00
15.00	365.00	31.00	5.00
18.00	381.00	16.00	4.33
21.00	394.00	13.00	3.86
24.00	402.00	8.00	3.50
27.00	409.00	7.00	3.22
30.00	413.00	4.00	3.00
33.00	417.00	4.00	2.82
36.00	420.00	3.00	2.67
39.00	422.00	2.00	2.54
42.00	424.00	2.00	2.43
45.00	425.00	1.00	2.33
48.00	426.00	1.00	2.25
51.00	427.00	1.00	2.18
54.00	428.00	1.00	2.11
57.00	429.00	1.00	2.05
60.00	430.00	1.00	2.00
63.00	431.00	1.00	1.95

DATE 4/23/94
 CUSTOMER HELLAR DRILLING CO., INC.
 WELL #1
 ELEVATION 2529 GL
 SECTION 5
 RANGE 27W
 GAUGE SN# 10270

TEST 3
 COUNTY LANE
 RANGE 4150

TICKET 20454
 LEASE USA
 GEOLOGIST DOUGLASS
 FORMATION FT SCOTT
 TOWNSHIP 16S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.50	1.00
Slope	-167.42	-82.36
Pstar, psig	474.57	454.96
P1hr, psig	445.09	430.16
Skin	-0.02	1.90
k, md	5.45	11.07
kh/u, md-ft/cp	7.66	15.56
ri, ft	9.32	18.79
DR, %	0.83	1.41
Drawdown Factor, %	1.373	1.373
Drawdown P*, %	4.134	4.134

— BUILD 1

..... BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 4/23/94	TICKET : 20454
CUSTOMER : HELLAR DRILLING CO., INC.	LEASE : USA
WELL : #1 TEST: 3	GEOLOGIST: DOUGLASS
ELEVATION: 2529 GL	FORMATION: FT SCOTT
SECTION : 5	TOWNSHIP : 16S
RANGE : 27W COUNTY: LANE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

Input Data

Porosity 0.060 Rw: 0.328 ft h: 3.000 ft
 qo 7.1 STB GOR 202.7 SCF/STB

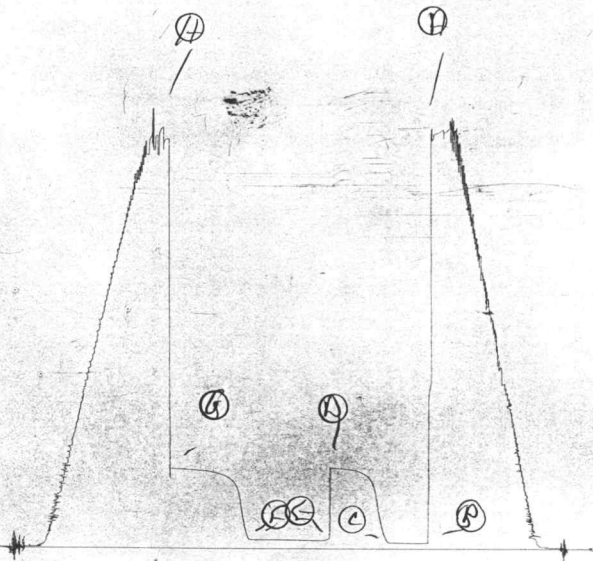
Pvt Data
 Evalutation Pressure : 1170.0
 Evalutation Temperature: 128.0

Oil Grav 30.00 API	Gas Grav 0.65 API	Pb 1170.00 PSIA
Bo 1.104 RBL/STB	Vis 1.000 cp	Ct 2.5841E-004 1/PSI

Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	1.00 hrs
slope	-167.42	-82.36
pstar	474.57 psig	454.96 psig
plhr	445.09 psig	430.16 psig
skin	-0.02	1.90
permeability	5.45 md	11.07 md
transmisability	7.66 md-ft/cp	15.56 md-ft/cp
radius of investigation	9.32 ft	18.79 ft
Damage-Ratio	0.83 percent	1.4 percent
Drawdown Factor		1.373 percent
Drawdown P*		4.134 percent

KT 20454
1



DST # 3
10000

Kf 20454

①

05743
13550

