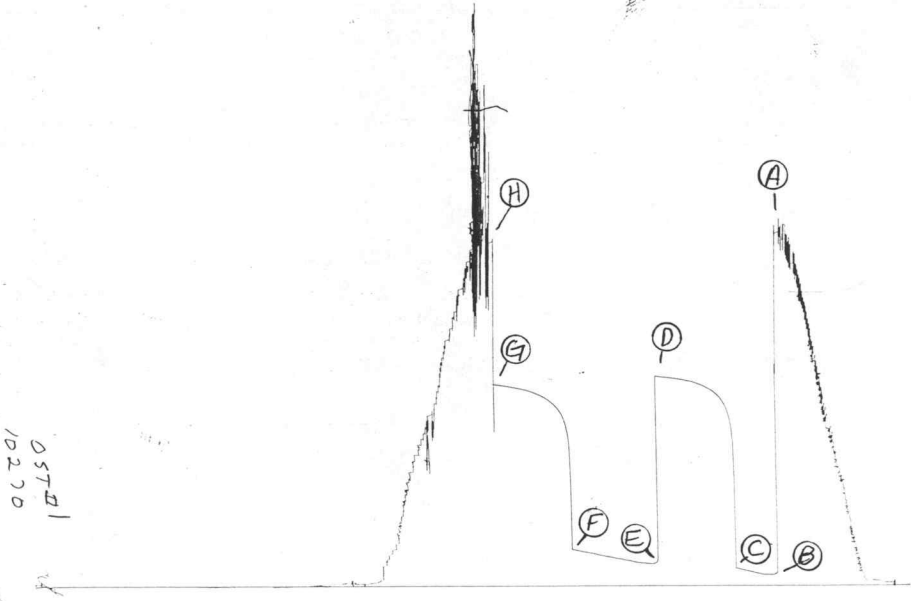


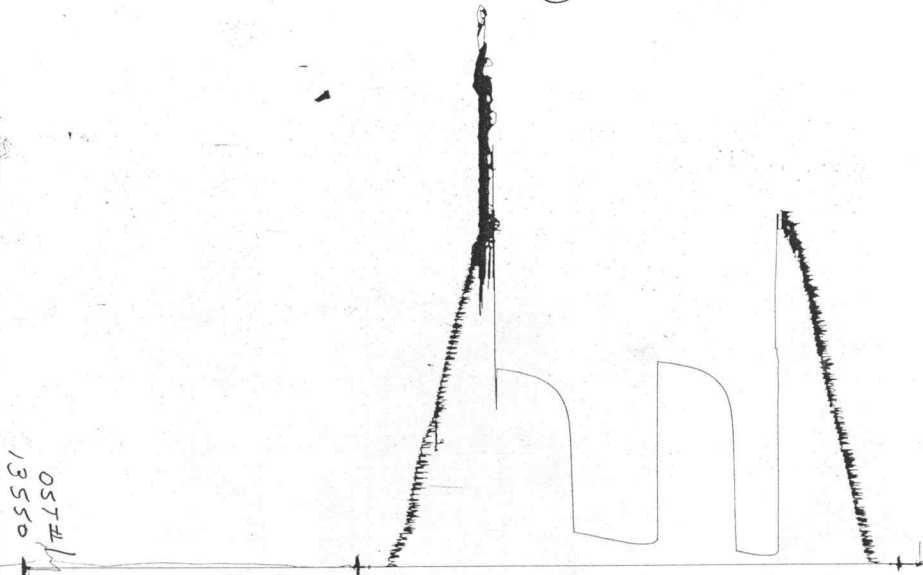
Ticket # 20708

I



Ticket # 20708

O



WESTERN TESTING CO., INC.

Pressure Data

Date 2/26/95

Test Ticket No. 20708

Recorder No. 10270 Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1895</u> P.S.I.	_____ M	_____ Mins.	_____ Min.
B First Initial Flow Pressure	_____ P.S.I.	First Flow Pressure	_____ Mins.	_____ Min.
C First Final Flow Pressure	_____ P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Min.
D Initial Closed-in Pressure	_____ P.S.I.	Second Flow Pressure	_____ Mins.	_____ Min.
E Second Initial Flow Pressure	_____ P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Min.
F Second Final Flow Pressure	_____ P.S.I.			
G Final Closed-in Pressure	_____ P.S.I.			
H Final Hydrostatic Mud	<u>1859</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>59</u>	0	<u>95</u>	0	<u>109</u>	0	<u>178</u>
P 2 5	<u>/</u>	3	<u>824</u>	5	<u>112</u>	3	<u>787</u>
P 3 10	<u>/</u>	6	<u>923</u>	10	<u>122</u>	6	<u>888</u>
P 4 15	<u>66</u>	9	<u>979</u>	15	<u>127</u>	9	<u>936</u>
P 5 20	<u>75</u>	12	<u>1007</u>	20	<u>135</u>	12	<u>964</u>
P 6 25	<u>85</u>	15	<u>1032</u>	25	<u>143</u>	15	<u>982</u>
P 7 30	<u>95</u>	18	<u>1046</u>	30	<u>149</u>	18	<u>1004</u>
P 8 35		21	<u>1060</u>	35	<u>156</u>	21	<u>1020</u>
P 9 40		24	<u>1071</u>	40	<u>163</u>	24	<u>1038</u>
P10 45		27	<u>1082</u>	45	<u>171</u>	27	<u>1041</u>
P11 50		30	<u>1089</u>	50	<u>179</u>	30	<u>1044</u>
P12 55		33	<u>1096</u>	55	<u>189</u>	33	<u>1051</u>
P13 60		36	<u>1101</u>	60	<u>198</u>	36	<u>1058</u>
P14 65		39	<u>1107</u>	65		39	<u>1062</u>
P15 70		42	<u>1111</u>	70		42	<u>1066</u>
P16 75		45	<u>1114</u>	75		45	<u>1070</u>
P17 80		48	<u>1117</u>	80		48	<u>1074</u>
P18 85		51	<u>1119</u>	85		51	<u>1077</u>
P19 90		54	<u>1122</u>	90		54	<u>1081</u>
P20 95		57	<u>1125</u>	95		57	<u>1084</u>
100		60	<u>1127</u>	100		60	

DST REPORT

GENERAL INFORMATION

DATE : 2/26/95
CUSTOMER : HELLAR DRILLING CO., INC.
WELL : #1 TEST: 1
ELEVATION: 2526 KB
SECTION : 31
RANGE : 27W COUNTY: GOVE
GAUGE SN#: 10270 RANGE : 4150
TICKET : 20708
LEASE : MUNSELL
GEOLOGIST: BOB DOUGLASS
FORMATION: LANSING
TOWNSHIP : 15S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3849.00 ft TO: 3880.00 ft TVD: 3880.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3872.0 ft 3875.0 ft
TEMPERATURE: 111.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 360.0 ft I.D.: 2.700 in
DRILL PIPE LENGTH : 3469.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 31.0 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 : 4.5 XH
PACKER DEPTH: 3844.0 ft SIZE: 6.630 in
PACKER DEPTH: 3849.0 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
MUD TYPE : CHEMICAL VISCOSITY : 45.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 8.200 cc
CHLORIDES : 1400 ppm
JARS-MAKE : NOT RAN SERIAL NUMBER:
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW THROUGHOUT - 1/2 TO 2 INCH
BLOW. FINAL FLOW: WEAK BLOW THROUGHOUT - 1 TO 2
BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
150.0	0.0	0.0	65.0	35.0	MUDDY WATER W/SHOW OF OIL SCUM IN GRINDOUT.
0.0	0.0	0.0	0.0	0.0	
180.0	0.0	0.0	100.0	0.0	WATER - R.W. .11 @ 70 DEG CHLORIDES - 40,000 PPM
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0000 STB	
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME: 90.0000 min.
MUD VOLUME:	0.3718 STB	AVERAGE OIL RATE: 0.0000 STB/D
WATER VOLUME:	1.9650 STB	AVERAGE WATER RATE: 37.3886 STB/D
TOTAL FLUID :	2.3368 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1879.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	72.00
INITIAL SHUT-IN	60.00		1112.00
FINAL FLOW	60.00	104.00	177.00
FINAL SHUT-IN	60.00		1070.00

FINAL HYDROSTATIC PRESSURE: 1838.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1895.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	59.00	95.00
INITIAL SHUT-IN	60.00		1127.00
FINAL FLOW	60.00	109.00	198.00
FINAL SHUT-IN	57.00		1084.00

FINAL HYDROSTATIC PRESSURE: 1859.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/26/95	TICKET : 20708
CUSTOMER : HELLAR DRILLING CO., INC.	LEASE : MUNSELL
WELL : #1 TEST: 1	GEOLOGIST: BOB DOUGLASS
ELEVATION: 2526 KB	FORMATION: LANSING
SECTION : 31	TOWNSHIP : 15S
RANGE : 27W COUNTY: GOVE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	59.00	59.00
5.00	59.00	0.00
10.00	59.00	0.00
15.00	66.00	7.00
20.00	75.00	9.00
25.00	85.00	10.00
30.00	95.00	10.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	824.00	824.00	0.00
6.00	923.00	99.00	0.00
9.00	979.00	56.00	0.00
12.00	1009.00	30.00	0.00
15.00	1032.00	23.00	0.00
18.00	1046.00	14.00	0.00
21.00	1060.00	14.00	0.00
24.00	1071.00	11.00	0.00
27.00	1082.00	11.00	0.00
30.00	1089.00	7.00	0.00
33.00	1096.00	7.00	0.00
36.00	1101.00	5.00	0.00
39.00	1107.00	6.00	0.00
42.00	1111.00	4.00	0.00
45.00	1114.00	3.00	0.00
48.00	1117.00	3.00	0.00
51.00	1119.00	2.00	0.00
54.00	1122.00	3.00	0.00
57.00	1125.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1127.00	2.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	109.00	109.00
5.00	112.00	3.00
10.00	122.00	10.00
15.00	127.00	5.00
20.00	135.00	8.00
25.00	143.00	8.00
30.00	149.00	6.00
35.00	156.00	7.00
40.00	163.00	7.00
45.00	171.00	8.00
50.00	179.00	8.00
55.00	189.00	10.00
60.00	198.00	9.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	787.00	787.00	0.00
6.00	888.00	101.00	0.00
9.00	936.00	48.00	0.00
12.00	964.00	28.00	0.00
15.00	982.00	18.00	0.00
18.00	1004.00	22.00	0.00
21.00	1020.00	16.00	0.00
24.00	1038.00	18.00	0.00
27.00	1041.00	3.00	0.00
30.00	1044.00	3.00	0.00
33.00	1051.00	7.00	0.00
36.00	1058.00	7.00	0.00
39.00	1062.00	4.00	0.00
42.00	1066.00	4.00	0.00
45.00	1070.00	4.00	0.00
48.00	1074.00	4.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

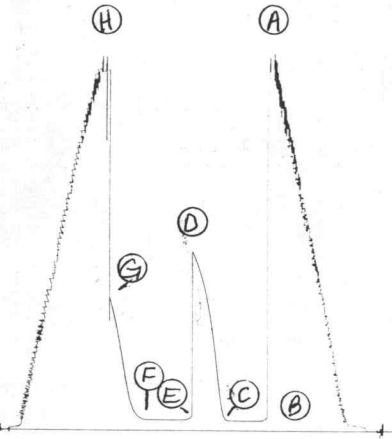
FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	1077.00	3.00	0.00
54.00	1081.00	4.00	0.00
57.00	1084.00	3.00	0.00

Ticket # 20709

I

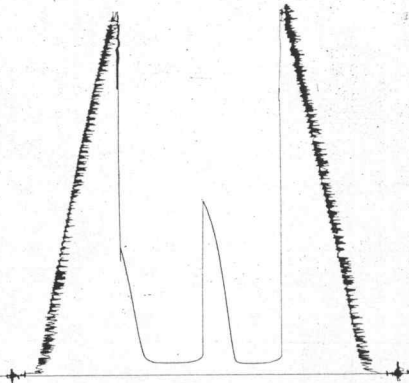
OST# 2
10270



Ticket # 20709

D

OST# 2
13550



WESTERN TESTING CO., INC.

Pressure Data

Date 2/27/95

Test Ticker No. 20709

Recorder No. _____ Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1959</u> P.S.I.		M
B First Initial Flow Pressure	P.S.I.	_____ Mins	_____ Min
C First Final Flow Pressure	P.S.I.	_____ Mins	_____ Min
D Initial Closed-in Pressure	P.S.I.	_____ Mins	_____ Min
E Second Initial Flow Pressure	P.S.I.	_____ Mins	_____ Min
F Second Final Flow Pressure	P.S.I.		
G Final Closed-in Pressure	P.S.I.	_____ Mins	_____ Min
H Final Hydrostatic Mud	<u>1937</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>54</u>	0	<u>54</u>	0	<u>58</u>	0	<u>58</u>
P 2 5		3	<u>115</u>	5		3	<u>67</u>
P 3 10		6	<u>285</u>	10		6	<u>83</u>
P 4 15		9	<u>463</u>	15		9	<u>123</u>
P 5 20		12	<u>611</u>	20		12	<u>202</u>
P 6 25		15	<u>722</u>	25		15	<u>323</u>
P 7 30	<u>54</u>	18	<u>807</u>	30		18	<u>440</u>
P 8 35		21	<u>873</u>	35	<u>58</u>	21	<u>560</u>
P 9 40		24	<u>927</u>	40		24	<u>654</u>
P10 45		27	<u>959</u>	45		27	<u>707</u>
P11 50		30		50		30	
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

DST REPORT

GENERAL INFORMATION

DATE : 2/27/95
CUSTOMER : HELLAR DRILLING CO., INC.
WELL : #1 TEST: 2
ELEVATION: 2526 KB
SECTION : 31
RANGE : 27W COUNTY: GOVE
GAUGE SN#: 10270 RANGE : 4150
TICKET : 20709
LEASE : MUNSELL
GEOLOGIST: BOB DOUGLASS
FORMATION: LANSING
TOWNSHIP : 15S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3936.00 ft TO: 4003.00 ft TVD: 4003.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3995.0 ft 3998.0 ft
TEMPERATURE: 112.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 360.0 ft I.D.: 2.700 in
DRILL PIPE LENGTH : 3556.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 67.0 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 : 4.5 XH
PACKER DEPTH: 3931.0 ft SIZE: 6.630 in
PACKER DEPTH: 3936.0 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
MUD TYPE : CHEMICAL VISCOSITY : 43.00 cp
WEIGHT : 9.200 ppg WATER LOSS: 8.200 cc
CHLORIDES : 1700 ppm
JARS-MAKE : NOT RAN SERIAL NUMBER:
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW THROUGHOUT 1/2 INCH
DECREASED TO SURFACE BLOW.
FINAL FLOW: NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
30.0	2.0	0.0	0.0	98.0	SLIGHTLY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0042	STB	
GAS VOLUME:	0.0000	SCF	
MUD VOLUME:	0.2082	STB	TOTAL FLOW TIME: 65.0000 min.
WATER VOLUME:	0.0000	STB	AVERAGE OIL RATE: 4.7063 STB/D
TOTAL FLUID :	0.2124	STB	AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1952.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	52.00	52.00
INITIAL SHUT-IN	30.00		966.00
FINAL FLOW	30.00	52.00	52.00
FINAL SHUT-IN	30.00		707.00

FINAL HYDROSTATIC PRESSURE: 1931.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1959.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	54.00	54.00
INITIAL SHUT-IN	27.00		959.00
FINAL FLOW	35.00	58.00	58.00
FINAL SHUT-IN	27.00		707.00

FINAL HYDROSTATIC PRESSURE: 1937.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/27/95	TICKET : 20709
CUSTOMER : HELLAR DRILLING CO., INC.	LEASE : MUNSELL
WELL : #1	TEST: 2
ELEVATION: 2526 KB	GEOLOGIST: BOB DOUGLASS
SECTION : 31	FORMATION: LANSING
RANGE : 27W	TOWNSHIP : 15S
COUNTY: GOVE	STATE : KS
GAUGE SN#: 10270	RANGE : 4150
	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	54.00	54.00
5.00	54.00	0.00
10.00	54.00	0.00
15.00	54.00	0.00
20.00	54.00	0.00
25.00	54.00	0.00
30.00	54.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	115.00	115.00	11.00
6.00	285.00	170.00	6.00
9.00	463.00	178.00	4.33
12.00	611.00	148.00	3.50
15.00	722.00	111.00	3.00
18.00	807.00	85.00	2.67
21.00	873.00	66.00	2.43
24.00	927.00	54.00	2.25
27.00	959.00	32.00	2.11

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	58.00	58.00
5.00	58.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
10.00	58.00	0.00
15.00	58.00	0.00
20.00	58.00	0.00
25.00	58.00	0.00
30.00	58.00	0.00
35.00	0.00	-58.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	67.00	67.00	12.67
6.00	83.00	16.00	6.83
9.00	123.00	40.00	4.89
12.00	202.00	79.00	3.92
15.00	323.00	121.00	3.33
18.00	440.00	117.00	2.94
21.00	560.00	120.00	2.67
24.00	654.00	94.00	2.46
27.00	707.00	53.00	2.30



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No ^{Last} 20710

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 2526 KB Formation FT. SCOTT + CLARSD Eff. Pay Ft.

District GREAT Bend Date 2-28-95 Customer Order No.

COMPANY NAME HELLAR Drilling Co.

ADDRESS 125 N. MARKET WICHITA, Ks. 67202

LEASE AND WELL NO. Munsell #1 COUNTY Gove STATE Ks Sec. 31 Twp. 15 Rge. 27

Mail Invoice To SAME Co. Name Address No. Copies Requested Reg

Mail Charts To SAME Co. Name Address No. Copies Requested Reg

Formation Test No. 3 Interval Tested From 4285 ft. to 4350 ft. Total Depth 4350 ft.

Packer Depth 4280 ft. Size 6 3/8 in. Packer Depth ft. Size in.

Packer Depth 4285 ft. Size 6 3/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4342 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4345 ft. Recorder Number 13550 Cap. 4175

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Abercrombie rig 8 Drill Collar Length I. D. in.

Mud Type Chemical Viscosity 46 Weight Pipe Length 360 I. D. 2.7 in.

Weight 9.4 Water Loss 8.4 cc. Drill Pipe Length 3905 I. D. 3.8 in.

Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 65 ft. Size 5 1/2 in.

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 X 1 1/2 in.

Blow: IF - WEAR BLOW Throughout 1/4" decreased to surface blow
FF - NO BLOW

Recovered 65 ft. of Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks:

Time On Location 4:00 A.M. Time Pick Up Tool 5:10 P.M. Time Off Location 11:55 A.M.

Time Set Packer(s) 6:50 P.M. Time Started Off Bottom 9:20 P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 2170 P.S.I.

Initial Flow Period 30 Minutes (B) 41 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period 45 Minutes (D) 1215 P.S.I.

Final Flow Period 30 Minutes (E) 72 P.S.I. to (F) 72 P.S.I.

Final Closed In Period 45 Minutes (G) 1174 P.S.I.

Final Hydrostatic Pressure (H) 2149 P.S.I.

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.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Bob Douglas
Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank

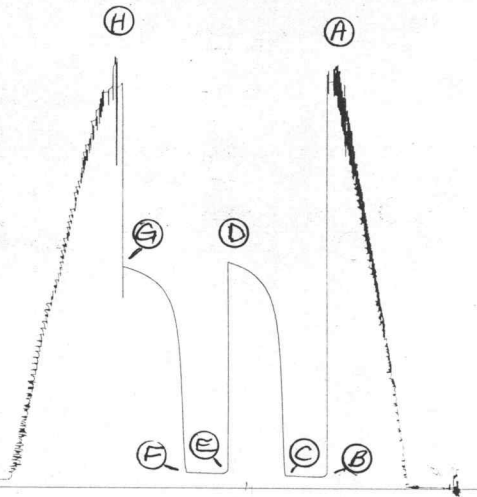
FIELD INVOICE

Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$

Ticket # 20710

I

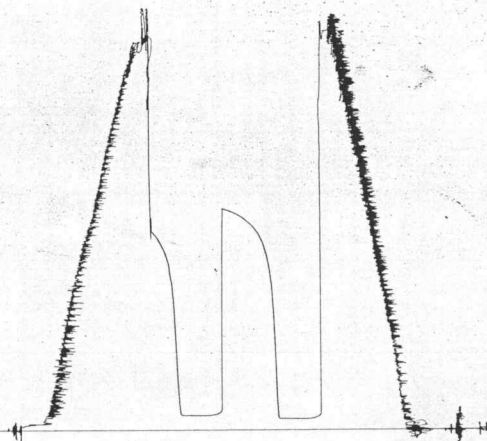
OST #3
10270



Ticket # 20710

O

OST #3
13550



WESTERN TESTING CO., INC.

Pressure Data

Date 2/28/95 Test Ticket No. 20710
 Recorder No. 10270 Capacity _____ Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2186</u>	P.S.I.		M
B First Initial Flow Pressure	P.S.I.	_____ Mins.	_____ Min
C First Final Flow Pressure	P.S.I.	_____ Mins.	_____ Min
D Initial Closed-in Pressure	P.S.I.	_____ Mins.	_____ Min
E Second Initial Flow Pressure	P.S.I.	_____ Mins.	_____ Min
F Second Final Flow Pressure	P.S.I.		
G Final Closed-in Pressure	P.S.I.		
H Final Hydrostatic Mud <u>2157</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	61	0	68	0	80	0	82
P 2 5	61	3	519	5	80	3	452
P 3 10	62	6	784	10	81	6	744
P 4 15	63	9	929	15	81	9	895
P 5 20	65	12	1016	20	81	12	977
P 6 25	67	15	1063	25	82	15	1025
P 7 30	68	18	1100	30	82	18	1055
P 8 35		21	1125	35		21	1091
P 9 40		24	1148	40		24	1108
P10 45		27	1166	45		27	1127
P11 50		30	1179	50		30	1139
P12 55		33	1190	55		33	1152
P13 60		36	1199	60		36	1163
P14 65		39	1208	65		39	1171
P15 70		42	1217	70		42	1181
P16 75		45		75		45	1190
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

DST REPORT

GENERAL INFORMATION

DATE : 2/28/95 TICKET : 20710
CUSTOMER : HELLAR DRILLING CO., INC. LEASE : MUNSELL
WELL : #1 TEST: 3 GEOLOGIST: BOB DOUGLASS
ELEVATION: 2526 KB FORMATION: FT SCOTT-CHEROKEE SD
SECTION : 31 TOWNSHIP : 15S
RANGE : 27W COUNTY: GOVE STATE : KS
GAUGE SN#: 10270 RANGE : 4150 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4285.00 ft TO: 4350.00 ft TVD: 4350.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4342.0 ft 4345.0 ft
TEMPERATURE: 114.0

DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 360.0 ft I.D.: 2.700 in
DRILL PIPE LENGTH : 3905.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 65.0 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 : 4.5 XH
PACKER DEPTH: 4280.0 ft SIZE: 6.630 in
PACKER DEPTH: 4285.0 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
MUD TYPE : CHEMICAL VISCOSITY : 46.00 cp
WEIGHT : 9.400 ppg WATER LOSS: 8.400 cc
CHLORIDES : 1800 ppm
JARS-MAKE : NOT RAN SERIAL NUMBER:
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW THROUGHOUT 1/4 INCH
DECREASED TO SURFACE BLOW.
FINAL FLOW: NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
65.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.4603	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.4603	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2170.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	52.00
INITIAL SHUT-IN	45.00		1215.00
FINAL FLOW	30.00	72.00	72.00
FINAL SHUT-IN	45.00		1174.00

FINAL HYDROSTATIC PRESSURE: 2149.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2186.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	61.00	68.00
INITIAL SHUT-IN	42.00		1217.00
FINAL FLOW	30.00	80.00	82.00
FINAL SHUT-IN	45.00		1190.00

FINAL HYDROSTATIC PRESSURE: 2157.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/28/95	TICKET : 20710
CUSTOMER : HELLAR DRILLING CO., INC.	LEASE : MUNSELL
WELL : #1 TEST: 3	GEOLOGIST: BOB DOUGLASS
ELEVATION: 2526 KB	FORMATION: FT SCOTT-CHEROKEE SD
SECTION : 31	TOWNSHIP : 15S
RANGE : 27W COUNTY: GOVE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	61.00	61.00
5.00	61.00	0.00
10.00	62.00	1.00
15.00	63.00	1.00
20.00	65.00	2.00
25.00	67.00	2.00
30.00	68.00	1.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	519.00	519.00	0.00
6.00	784.00	265.00	0.00
9.00	929.00	145.00	0.00
12.00	1016.00	87.00	0.00
15.00	1063.00	47.00	0.00
18.00	1100.00	37.00	0.00
21.00	1125.00	25.00	0.00
24.00	1148.00	23.00	0.00
27.00	1166.00	18.00	0.00
30.00	1179.00	13.00	0.00
33.00	1190.00	11.00	0.00
36.00	1199.00	9.00	0.00
39.00	1208.00	9.00	0.00
42.00	1217.00	9.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	80.00	80.00
5.00	80.00	0.00
10.00	81.00	1.00
15.00	81.00	0.00
20.00	81.00	0.00
25.00	82.00	1.00
30.00	82.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	452.00	452.00	0.00
6.00	744.00	292.00	0.00
9.00	895.00	151.00	0.00
12.00	977.00	82.00	0.00
15.00	1025.00	48.00	0.00
18.00	1055.00	30.00	0.00
21.00	1091.00	36.00	0.00
24.00	1108.00	17.00	0.00
27.00	1127.00	19.00	0.00
30.00	1139.00	12.00	0.00
33.00	1152.00	13.00	0.00
36.00	1163.00	11.00	0.00
39.00	1171.00	8.00	0.00
42.00	1181.00	10.00	0.00
45.00	1190.00	9.00	0.00