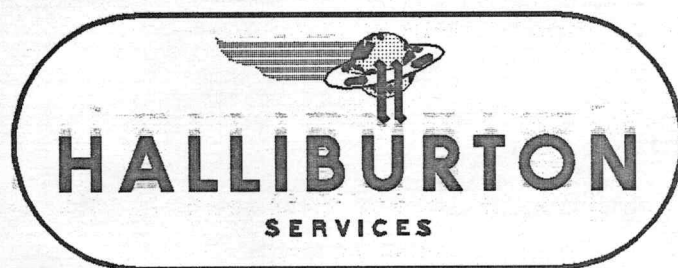


474



TICKET NO. 40132000
03-DEC-82
LIBERAL

FORMATION TESTING SERVICE REPORT

LEASE NAME	DAVIS	WELL NO.	1	TEST NO.	1	TESTED INTERVAL	4345.1 - 4420.1	LEASE OWNER/COMPANY NAME	EUWER PETROLEUM COMPANY
LEGAL LOCATION SEC. - TWP. - RANG.	9 21 34	FIELD AREA	NORTH OF GARDEN CITY	COUNTY	FINNEY	STATE	KANSAS		J/J

EQUIPMENT & HOLE DATA

FORMATION TESTED: MARMATON

NET PAY (ft): 20.0

GROSS TESTED FOOTAGE: 75.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): _____

ELEVATION (ft): 0

TOTAL DEPTH (ft): 4420.0

PACKER DEPTH(S) (ft): 4339, 4345

FINAL SURFACE CHOKE (in): 0.250

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.50

MUD VISCOSITY (sec): 46

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 103 @ 4415.0 ft

TICKET NUMBER: 40132000

DATE: 11-30-82 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: LIBERAL

TESTER: MR. WAGENSELLER

WITNESS: MR. SLAGLE

DRILLING CONTRACTOR: RAINS & WILLIAMSON DRILLING

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	@ _____ °F	_____ ppm
_____	@ _____ °F	_____ ppm
_____	@ _____ °F	_____ ppm
_____	@ _____ °F	_____ ppm
_____	@ _____ °F	_____ ppm
_____	@ _____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: _____

cu.ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

GAS/OIL RATIO (cu.ft. per bbl): _____

GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

30 FEET OF DRILLING MUD. TOP OF TOOL HAD VERY SLIGHT SHOW OF OIL.

MEASURED FROM
TESTER VALVE

REMARKS:

AMOUNT OF DRILL PIPE AND DRILL COLLARS ABOVE THE REVERSING SUB WAS NOT REPORTED....

NO READINGS AVAILABLE ON BT #7352, CLOCK STOPPED....

TYPE & SIZE MEASURING DEVICE: _____

TICKET NO: 40132000

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
11-29-82					
2110					CALLED, READY AT 0100.
11-30-82					
0100					ON LOCATION, PULLING PIPE.
0310					STARTED CLOCKS.
0345					OUT WITH BIT, PULLING FLOAT.
0400					RIG CREW HOOKED UP FLOW LINE
					TO PIT.
0415					STOPPED TO EAT.
0437					STARTED TO PICK UP TOOL IN 2
					SECTIONS.
0507					STARTED TO PICK UP SECOND
					SECTION.
0552					TOOL READY FOR COLLARS.
0610					STARTED TOOL IN HOLE.
0637					CHANGED ELEVATORS.
0655					STARTED RUNNING DRILL PIPE.
0715					CHANGED RIG CREW.
0728					CONTINUED IN HOLE WITH DRILL
					PIPE.
0817					PICKED UP 1 JOINT OF DRILL
					PIPE AND HOOKED UP HEAD.
0824					TOOL ON BOTTOM.
0827					TOOL OPENED WITH A VERY WEAK
					BLOW-1/4" IN WATER, SLOWLY DE-
					CREASING TO VERY WEAK BLOW OFF
					TOP OF WATER.
0854					BLOW DIED.
0900					CLOSED TOOL.
0945					OPENED TOOL WITH NO BLOW.
1015					CLOSED TOOL.
1100					PULLED OFF BOTTOM.
1104					PULLED PACKERS LOOSE AND LAID
					DOWN 1 JOINT.
1113					STARTED OUT OF HOLE WITH TOOL.
1305					TOOL IN TABLE.
1310					STARTED TO BREAK DOWN AND WASH

TICKET NO: 40132000[illegible]

TICKET NO: 40132000

CLOCK NO: 17532 HOUR: 24



GAUGE NO: 7351

DEPTH: 4417.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
-----	---------	----------	------------	--	--------------------------------------

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
-----	---------	----------	------------	--	--------------------------------------

FIRST FLOW

B	1	0.0	61.0	
C	2	32.1	64.5	3.5

FIRST CLOSED-IN

C	1	0.0	64.5			
	2	3.0	72.3	7.8	2.7	1.073
	3	6.0	87.6	23.1	5.1	0.803
	4	9.0	112.9	48.4	7.0	0.659
	5	12.0	159.2	94.7	8.7	0.566
	6	15.0	237.6	173.1	10.2	0.498
	7	18.0	358.1	293.6	11.5	0.444
	8	21.0	473.2	408.8	12.7	0.403
	9	24.0	592.3	527.8	13.7	0.369
	10	27.0	689.4	624.9	14.7	0.340
	11	30.0	752.1	687.6	15.5	0.316
	12	33.0	809.3	744.8	16.3	0.295
	13	36.0	848.9	784.4	17.0	0.277
	14	39.0	879.0	814.5	17.6	0.261
	15	42.0	896.1	831.6	18.2	0.247
D	16	45.8	934.1	869.6	18.9	0.231

SECOND FLOW

E	1	0.0	72.6	
F	2	29.1	72.6	0.0

SECOND CLOSED-IN

F	1	0.0	72.6			
	2	3.0	78.2	5.6	2.9	1.326
	3	6.0	87.1	14.5	5.4	1.051
	4	9.0	98.2	25.6	7.8	0.894
	5	12.0	113.1	40.4	10.0	0.786
	6	15.0	132.3	59.7	12.0	0.707
	7	18.0	160.2	87.6	13.9	0.642
	8	21.0	198.4	125.8	15.6	0.593
	9	24.0	251.1	178.5	17.2	0.550
	10	27.0	318.0	245.4	18.7	0.515
	11	30.0	403.0	330.4	20.1	0.482
	12	33.0	491.7	419.1	21.4	0.456
	13	36.0	568.6	496.0	22.7	0.431
	14	39.0	643.7	571.1	23.8	0.410
	15	42.0	706.2	633.5	24.9	0.390
G	16	45.1	750.8	678.2	26.0	0.372

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH
1		DRILL PIPE.....	4.500	3.826	
3		DRILL COLLARS.....	6.250	2.250	
50		IMPACT REVERSING SUB.....	6.000	2.750	1.0 4246.0
3		DRILL COLLARS.....	6.250	2.250	60.0
5		CROSSOVER.....	6.000	2.500	1.0
11		HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.268	4.0
13		DUAL CIP SAMPLER.....	5.000	0.750	7.0
60		HYDROSPRING TESTER.....	5.000	0.750	5.0 4322.0
80		AP RUNNING CASE.....	5.000	3.060	4.0 4324.0
15		JAR.....	5.000	1.750	5.0
16		VR SAFETY JOINT.....	5.000	1.000	3.0
70		OPEN HOLE PACKER.....	6.750	1.830	6.0 4339.0
70		OPEN HOLE PACKER.....	6.750	1.830	6.0 4345.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	14.0
5		CROSSOVER.....	6.000	2.500	1.0
3		DRILL COLLARS.....	6.250	2.250	31.0
5		CROSSOVER.....	6.000	2.500	2.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	20.0
83		HT-500 TEMPERATURE CASE.....	5.000		1.0 4415.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0 4417.0
TOTAL DEPTH					4420.0

7352

74 hr 17524

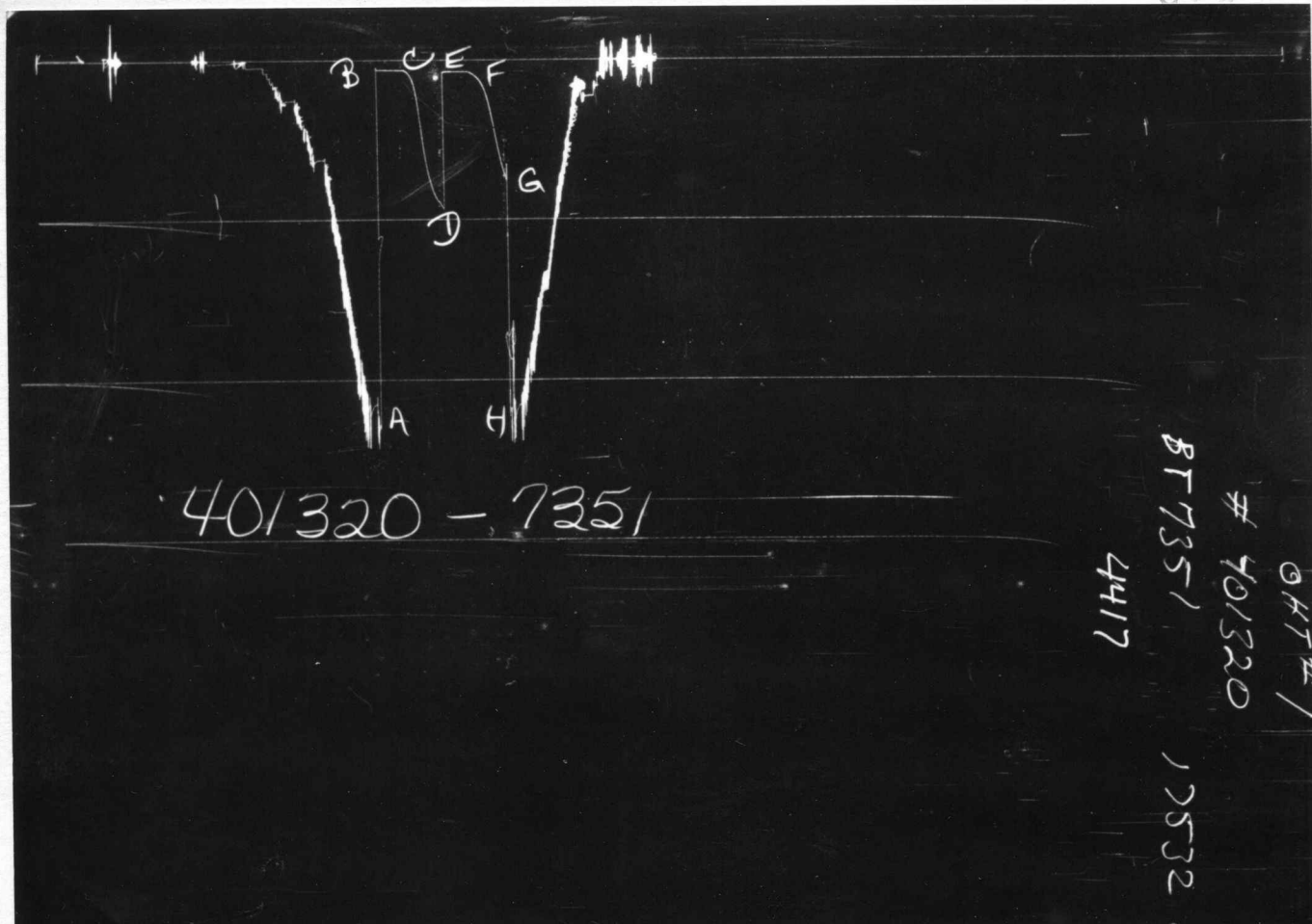
028104 #

1 # LHD

40320-7352

GAUGE NO: 7352 DEPTH: 4324.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW					
C	FINAL FIRST FLOW			33.0		F
C	INITIAL FIRST CLOSED-IN					
D	FINAL FIRST CLOSED-IN			45.0		C
E	INITIAL SECOND FLOW					
F	FINAL SECOND FLOW			30.0		F
F	INITIAL SECOND CLOSED-IN					
G	FINAL SECOND CLOSED-IN			45.0		C
H	FINAL HYDROSTATIC					



GAUGE NO: 7351 DEPTH: 4417.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2441	2155.6			
B	INITIAL FIRST FLOW	64	61.0			
C	FINAL FIRST FLOW	64	64.5	33.0	32.1	F
C	INITIAL FIRST CLOSED-IN	64	64.5			
D	FINAL FIRST CLOSED-IN	920	934.1	45.0	45.8	C
E	INITIAL SECOND FLOW	64	72.6			
F	FINAL SECOND FLOW	64	72.6	30.0	29.1	F
F	INITIAL SECOND CLOSED-IN	64	72.6			
G	FINAL SECOND CLOSED-IN	762	750.8	45.0	45.1	C
H	FINAL HYDROSTATIC	2378	2154.8			

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Euwer Petroleum	Test No.	2
Well Name & Number	Davis #1	Zone Tested	Ft. Scott & Cher. Lime
Company Address	Wichita, Ks.	Date	12-1-82
Comp. Rep.	Charles Slagle	Tester	Jerry Cross
Contractor	Rains & Williamson	Elevation	3004 K.B.
Location: Sec. 9 Twp. 21 Rge. 34 Co. Finney State Ks.		Est. Feet of Pay	

Recorder No. 13277 Type AK-1 Range 4125 PSI

Recorder Depth 4547

(A) Initial Hydrostatic Mud 2315 PSI

(B) First Initial Flow Pressure 72 PSI

(C) First Final Flow Pressure 72 PSI

(D) Initial Closed-in Pressure 1112 PSI

(E) Second Initial Flow Pressure 103 PSI

(F) Second Final Flow Pressure 145 PSI

(G) Final Closed-in Pressure 1184 PSI

(H) Final Hydrostatic Mud 2315 PSI

Temperature 106

Mud Weight 9.5 Viscosity 44

Fluid Loss 10.4

Interval Tested 4490-4550

Anchor Length 60

Top Packer Depth 4485

Bottom Packer Depth 4490

Total Depth 4550

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. - Ft. Run 247

Recovery—Total Feet 90

Recovered 290 Feet Of GAS IN PIPE.

Recovered 30 Feet Of SLIGHTLY CLEAN GASSY OIL. 33.2 GRAVITY

Recovered 60 Feet Of OIL CUT MUD.

Recovered Feet Of

Extra Equipment NONE Price of Job \$675.00

Recorder No. 13371 Type AK-1 Range 3900 PSI

Recorder Depth 4544

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 60 Mins.

Flow Period 90 Mins.

Final Shut-in 90 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

Tool Open @ 5:23 P.M.

Blow WEAK BLOW THROUGHOUT TEST.

Remarks

CHLORIDES—22,000 P.P.M.

Drill Collar I. D. 2.70 Ft. Run -

CHENEY TESTING COMPANY

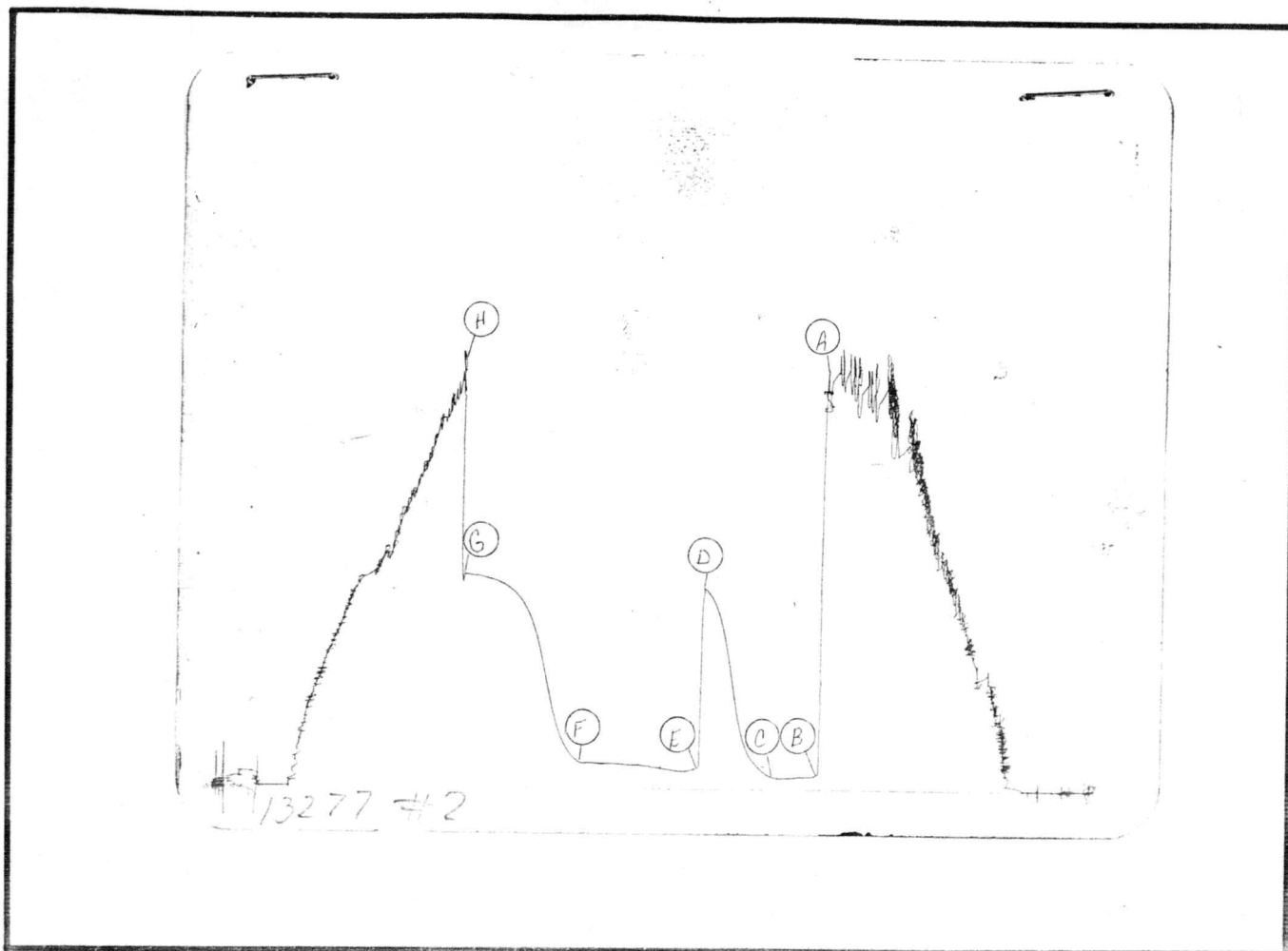
Pressure Data

Date 12-1-82Test Ticket No. 7110Recorder No. 13277Capacity 4125Location 4547 Ft.Clock No. 23859Elevation 3004 K.B.Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2311</u> P.S.I.	Open Tool	<u>5:23</u> P.M.	
B First Initial Flow Pressure	<u>62</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>62</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1106</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>102</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>93</u> Mins.
F Second Final Flow Pressure	<u>142</u> P.S.I.			
G Final Closed-in Pressure	<u>1179</u> P.S.I.			
H Final Hydrostatic Mud	<u>2311</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>18</u> Inc.	
of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</u> mins. and a		of <u>5</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>3</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>62</u>	<u>0</u>	<u>62</u>	<u>0</u>	<u>102</u>	<u>0</u>	<u>142</u>
P 2 <u>5</u>	<u>62</u>	<u>5</u>	<u>69</u>	<u>5</u>	<u>102</u>	<u>5</u>	<u>159</u>
P 3 <u>10</u>	<u>62</u>	<u>10</u>	<u>85</u>	<u>10</u>	<u>102</u>	<u>10</u>	<u>197</u>
P 4 <u>15</u>	<u>62</u>	<u>15</u>	<u>112</u>	<u>15</u>	<u>103</u>	<u>15</u>	<u>254</u>
P 5 <u>20</u>	<u>62</u>	<u>20</u>	<u>150</u>	<u>20</u>	<u>106</u>	<u>20</u>	<u>341</u>
P 6 <u>25</u>	<u>62</u>	<u>25</u>	<u>202</u>	<u>25</u>	<u>113</u>	<u>25</u>	<u>471</u>
P 7 <u>30</u>	<u>62</u>	<u>30</u>	<u>305</u>	<u>30</u>	<u>119</u>	<u>30</u>	<u>637</u>
P 8		<u>35</u>	<u>480</u>	<u>35</u>	<u>122</u>	<u>35</u>	<u>798</u>
P 9		<u>40</u>	<u>703</u>	<u>40</u>	<u>128</u>	<u>40</u>	<u>916</u>
P10		<u>45</u>	<u>890</u>	<u>45</u>	<u>132</u>	<u>45</u>	<u>997</u>
P11		<u>50</u>	<u>1007</u>	<u>50</u>	<u>132</u>	<u>50</u>	<u>1054</u>
P12		<u>55</u>	<u>1073</u>	<u>55</u>	<u>133</u>	<u>55</u>	<u>1091</u>
P13		<u>60</u>	<u>1106</u>	<u>60</u>	<u>137</u>	<u>60</u>	<u>1116</u>
P14				<u>65</u>	<u>140</u>	<u>65</u>	<u>1135</u>
P15				<u>70</u>	<u>140</u>	<u>70</u>	<u>1148</u>
P16				<u>75</u>	<u>141</u>	<u>75</u>	<u>1157</u>
P17				<u>80</u>	<u>142</u>	<u>80</u>	<u>1168</u>
P18				<u>85</u>	<u>142</u>	<u>85</u>	<u>1172</u>
P19				<u>90</u>	<u>142</u>	<u>90</u>	<u>1177</u>
P20						<u>93</u>	<u>1179</u>



This is an actual photograph of recorder chart.

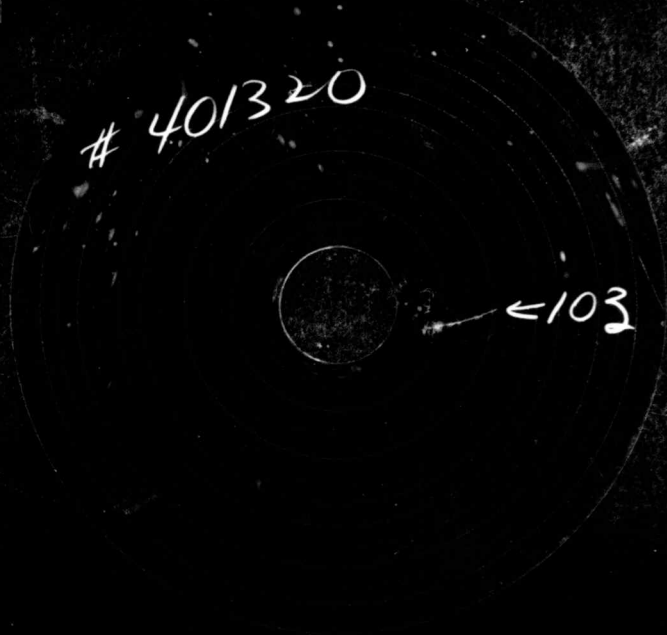
POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2315	2311 PSI
(B) First Initial Flow Pressure	72	62 PSI
(C) First Final Flow Pressure	72	62 PSI
(D) Initial Closed-in Pressure	1112	1106 PSI
(E) Second Initial Flow Pressure	103	102 PSI
(F) Second Final Flow Pressure	145	142 PSI
(G) Final Closed-in Pressure	1184	1179 PSI
(H) Final Hydrostatic Mud	2315	2311 PSI

TEMPERATURE

RECORDER

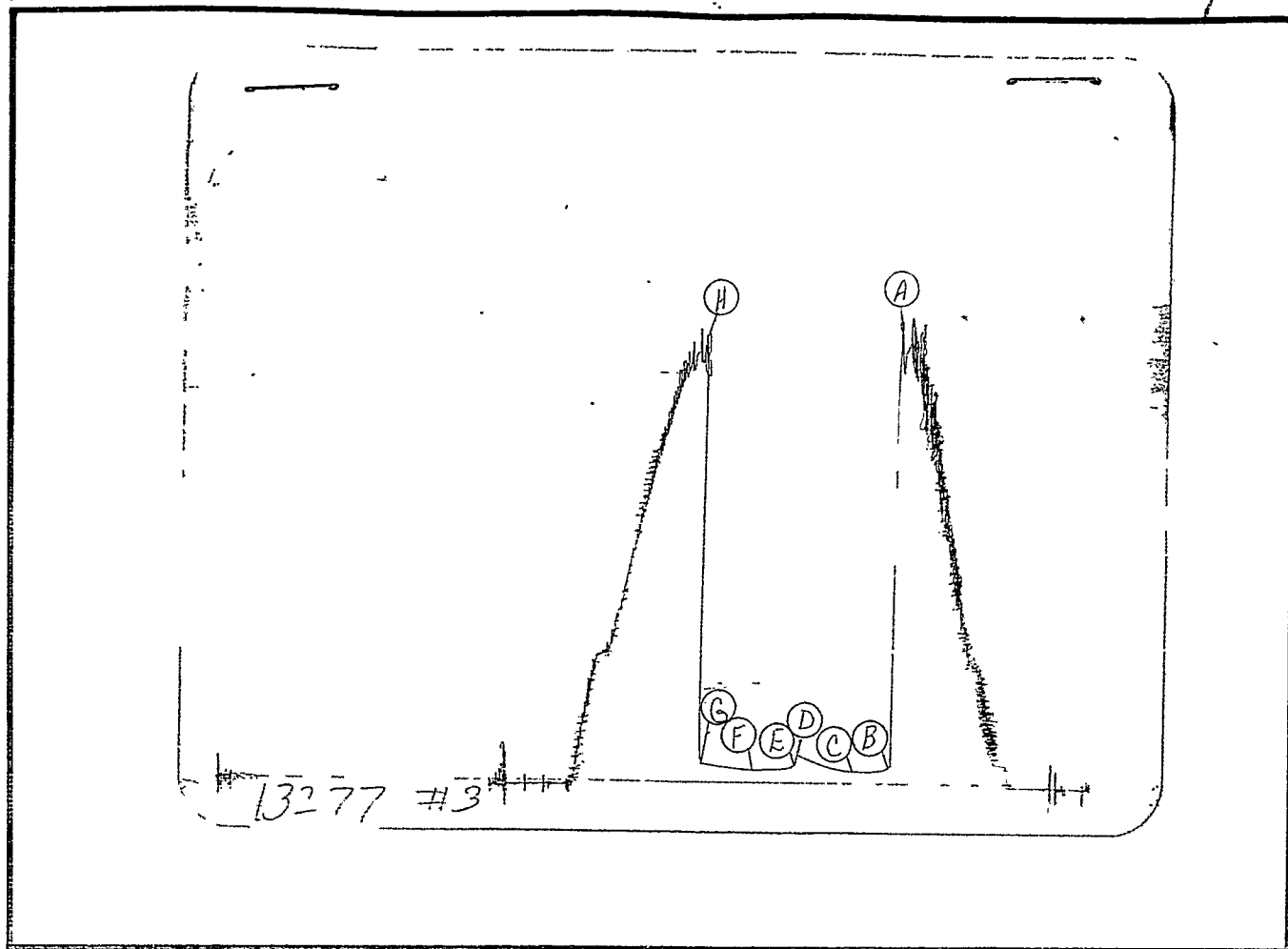
CHART

10° each circle



HILL CITY, KANSAS 67642

Price of Job \$675.00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2574	PSI
(B) First Initial Flow Pressure	62	PSI
(C) First Final Flow Pressure	62	PSI
(D) Initial Closed-in Pressure	155	PSI
(E) Second Initial Flow Pressure	72	PSI
(F) Second Final Flow Pressure	72	PSI
(G) Final Closed-in Pressure	103	PSI
(H) Final Hydrostatic Mud	2481	PSI