



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Graves Drilling Co., Inc. Lease & Well No. DeWitt #1
Elevation 1708 Kelly Bushings Formation Sand Effective Pay _____ Ft. Ticket No. 13771
Date 4-5-71 Sec. 5 Twp. 18S Range 7W County Rice State Kansas
Test Approved by R. G. Miller Western Representative Dean Blagrave

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3144' to 3159' Total Depth 3159'
Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged _____ Yes No Conv. _____ B.T. Damaged _____ Yes No
Packer Depth 3139 Ft. Size 6 3/4" Packer Depth 3144 Ft. Size 6 3/4"
Straddle _____ Yes _____ No Conv. _____ B.T. _____ Damaged _____ Yes _____ No

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" XH Anchor Length 15 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3150 Ft. Clock No. 6899 Depth 3153 Ft. Clock No. 9102
Top Make Kuster Cap. 4000 No. 3659 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____
Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 7:24 A. M.
Tool Open I.F.P. From 7:28 M. to 7:38A. M. Hr. 10 Min. From (B) 81 P.S.I. To (C) 84 P.S.I.
Tool Closed I.C.I.P. From 7:38 M. to 8:08A. M. Hr. 30 Min. (D) 725 P.S.I.
Tool Open F.F.P. From 8:08 M. to 9:08A. M. Hr. 1 Min. From (E) 96 P.S.I. To (F) 236 P.S.I.
Tool Closed F.C.I.P. From 9:08 M. to 9:38A. M. Hr. 30 Min. (G) 676 P.S.I.
Initial Hydrostatic Pressure (A) 1656 P.S.I. Final Hydrostatic Pressure (H) 1615 P.S.I.

SURFACE Size Choke 1/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Good thru out Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 30 feet gas in pipe - 530 feet salty water with scum of oil.

Reversed Out _____ Yes No _____ Mud Type Starch Viscosity 37 Weight 9.2 Water Loss 9.8 cc. Maximum Temp. 114 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 3125 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe None ft. I.D. Weight Pipe _____ in. Length Drill Collars 30 ft.
I. D. Drill Collars 2.2 in. Length D.S.T. Tool 33 ft.
Remarks Slid tool approx. 10 feet to bottom

WESTERN TESTING CO., INC.
Pressure Data

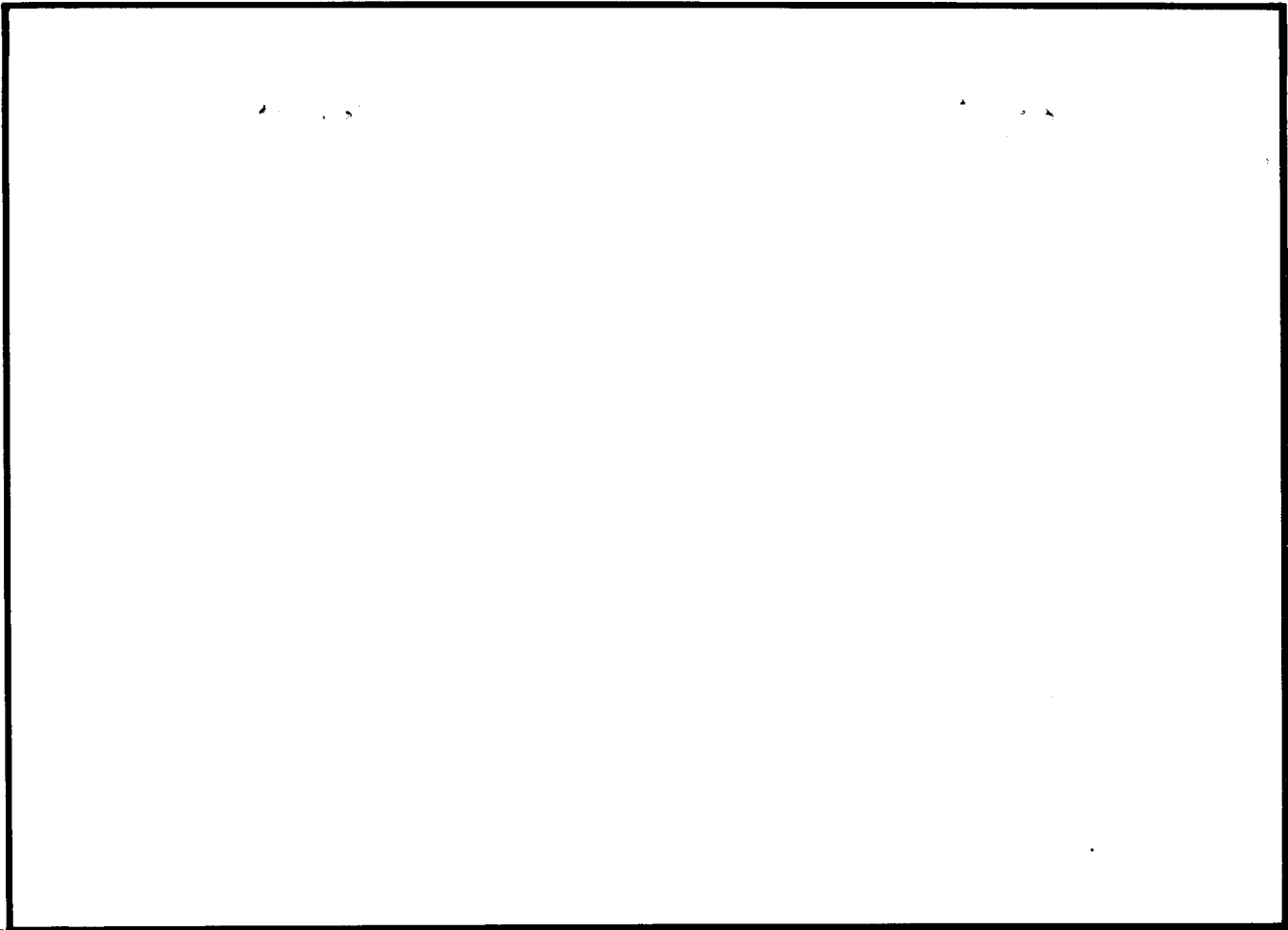
Date 4-5-71 Test Ticket No. 13771
 Recorder No. 3659 Capacity 4000 Location 3150 Ft.
 Clock No. 6899 Elevation 1708 Kelly Bushings Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1656</u>	P.S.I.	<u>7:24 A.</u>	<u>M</u>
B First Initial Flow Pressure	<u>81</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>84</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>725</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>96</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>236</u>	P.S.I.		
G Final Closed-in Pressure	<u>676</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1615</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.
---	--	---	--

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>81</u>	<u>0</u>	<u>84</u>	<u>0</u>	<u>96</u>	<u>0</u>	<u>236</u>
P 2 <u>5</u>	<u>78</u>	<u>3</u>	<u>610</u>	<u>5</u>	<u>97</u>	<u>3</u>	<u>580</u>
P 3 <u>10</u>	<u>84</u>	<u>6</u>	<u>656</u>	<u>10</u>	<u>116</u>	<u>6</u>	<u>611</u>
P 4 _____		<u>9</u>	<u>678</u>	<u>15</u>	<u>132</u>	<u>9</u>	<u>631</u>
P 5 _____		<u>12</u>	<u>694</u>	<u>20</u>	<u>144</u>	<u>12</u>	<u>642</u>
P 6 _____		<u>15</u>	<u>700</u>	<u>25</u>	<u>164</u>	<u>15</u>	<u>651</u>
P 7 _____		<u>18</u>	<u>708</u>	<u>30</u>	<u>174</u>	<u>18</u>	<u>659</u>
P 8 _____		<u>21</u>	<u>714</u>	<u>35</u>	<u>184</u>	<u>21</u>	<u>664</u>
P 9 _____		<u>24</u>	<u>718</u>	<u>40</u>	<u>196</u>	<u>24</u>	<u>670</u>
P10 _____		<u>27</u>	<u>721</u>	<u>45</u>	<u>206</u>	<u>27</u>	<u>674</u>
P11 _____		<u>30</u>	<u>725</u>	<u>50</u>	<u>216</u>	<u>30</u>	<u>676</u>
P12 _____				<u>55</u>	<u>229</u>		
P13 _____				<u>60</u>	<u>236</u>		
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1650	1656	PSI
(B) First Initial Flow Pressure	70	81	PSI
(C) First Final Flow Pressure	80	84	PSI
(D) Initial Closed-in Pressure	720	725	PSI
(E) Second Initial Flow Pressure	90	96	PSI
(F) Second Final Flow Pressure	230	236	PSI
(G) Final Closed-in Pressure	670	676	PSI
(H) Final Hydrostatic Mud	1610	1615	PSI



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Graves Drilling Co., Inc. Lease & Well No. DeWitt #1
Elevation 1708 Kelly Bushings Formation Simpson Effective Pay _____ Ft. Ticket No. 13772
Date 4-5-71 Sec. 5 Twp. 18S Range 7W County Rice State Kansas
Test Approved by Benton S. Brooks Jr. Western Representative Dean Blagrave

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 3205' to 3226' Total Depth 3226'
Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. _____ Damaged Yes No
Packer Depth 3200 Ft. Size 6 3/4" Packer Depth 3205 Ft. Size 6 3/4"
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" X.H. Anchor Length 21 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3217 Ft. Clock No. 6899 Depth 3220 Ft. Clock No. 9102
Top Make Kuster Cap. 4000 No. 3659 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 10:52 P.M.
Tool Open I.F.P. From 10:55 M. to 11:10P M. Hr. 15 Min. From (B) 30 P.S.I. To (C) 42 P.S.I.
Tool Closed I.C.I.P. From 11:10 M. to 11:40 P M. Hr. 30 Min. (D) 951 P.S.I.
Tool Open F.F.P. From 11:40 M. to 12:40A M. 1 Hr. Min. From (E) 56 P.S.I. To (F) 103 P.S.I.
Tool Closed F.C.I.P. From 12:40 M. to 1:10A M. Hr. 30 Min. (G) 759 P.S.I.
Initial Hydrostatic Pressure (A) 1697 P.S.I. Final Hydrostatic Pressure (H) 1676 P.S.I.

SURFACE Size Choke 1/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak increasing to fair Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 200 feet muddy water

Reversed Out Yes No _____ Mud Type Starch Viscosity 42 Weight 9.8 Water Loss 5 cc. Maximum Temp. 114 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 3185 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe None ft. I.D. Weight Pipe _____ in. Length Drill Collars 30 ft.
I. D. Drill Collars 2.2 in. Length D.S.T. Tool 39 ft.

Remarks _____

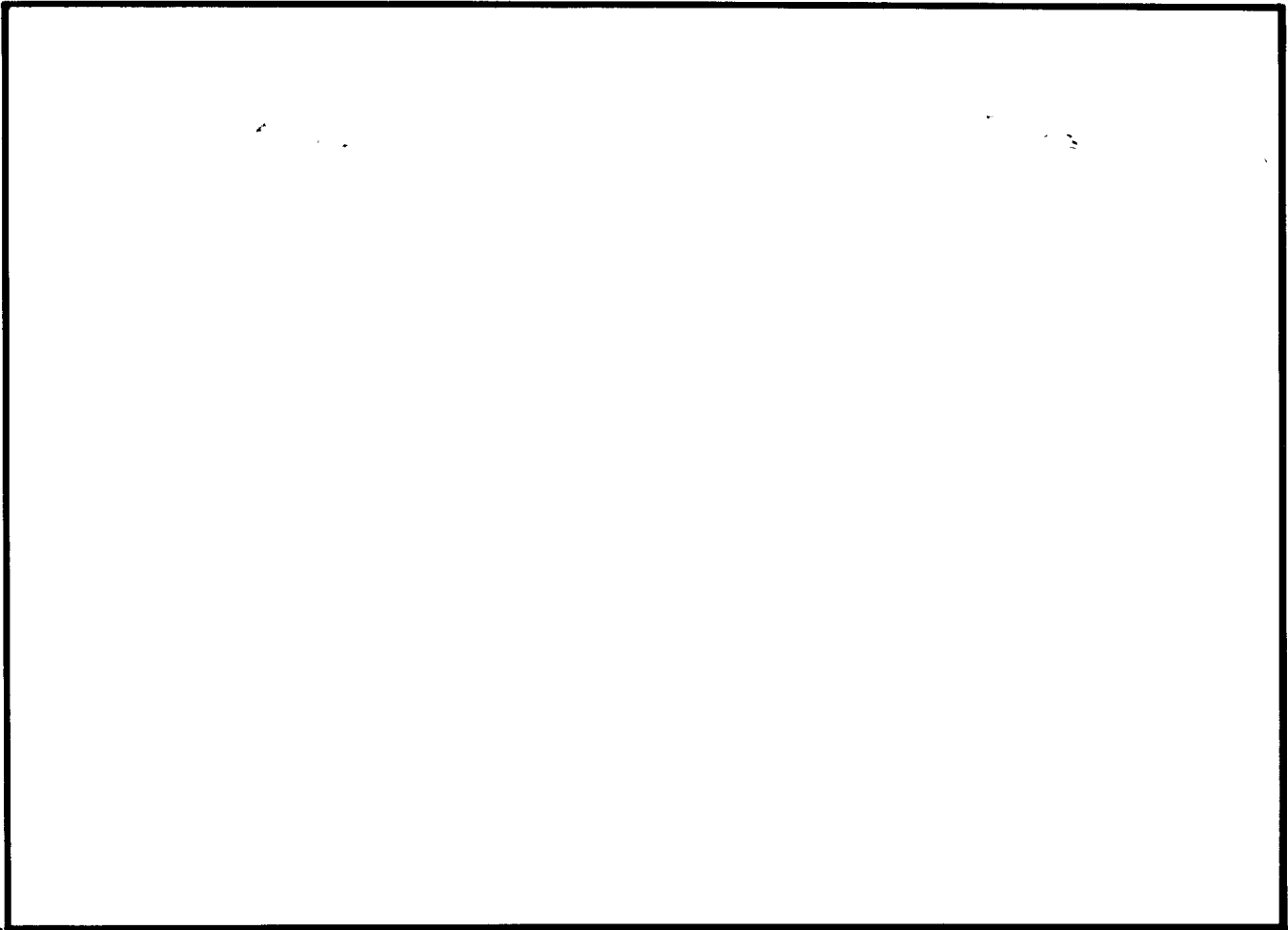
WESTERN TESTING CO., INC.
Pressure Data

Date 4-5-71 Test Ticket No. 13772
 Recorder No. 3659 Capacity 4000 Location 3217 Ft.
 Clock No. 6899 Elevation 1708 Kelly Bushings Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1697</u>	P.S.I.	<u>10:52</u> P.M.	
B First Initial Flow Pressure	<u>30</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>42</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>951</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>56</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>103</u>	P.S.I.		
G Final Closed-in Pressure	<u>759</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1676</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:	<u>3</u> Inc.	Breakdown:	<u>10</u> Inc.	Breakdown:	<u>12</u> Inc.	Breakdown:	<u>10</u> 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	_____ Min.	final inc. of	_____ Min.	final inc. of	_____ Min.	final inc. of	_____ Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>103</u>
P 2	<u>5</u>	<u>3</u>	<u>734</u>	<u>5</u>	<u>56</u>	<u>3</u>	<u>514</u>
P 3	<u>10</u>	<u>6</u>	<u>810</u>	<u>10</u>	<u>58</u>	<u>6</u>	<u>598</u>
P 4	<u>15</u>	<u>9</u>	<u>850</u>	<u>15</u>	<u>63</u>	<u>9</u>	<u>640</u>
P 5		<u>12</u>	<u>877</u>	<u>20</u>	<u>72</u>	<u>12</u>	<u>665</u>
P 6		<u>15</u>	<u>896</u>	<u>25</u>	<u>77</u>	<u>15</u>	<u>686</u>
P 7		<u>18</u>	<u>910</u>	<u>30</u>	<u>81</u>	<u>18</u>	<u>705</u>
P 8		<u>21</u>	<u>923</u>	<u>35</u>	<u>84</u>	<u>21</u>	<u>722</u>
P 9		<u>24</u>	<u>934</u>	<u>40</u>	<u>89</u>	<u>24</u>	<u>734</u>
P10		<u>27</u>	<u>942</u>	<u>45</u>	<u>90</u>	<u>27</u>	<u>746</u>
P11		<u>30</u>	<u>951</u>	<u>50</u>	<u>94</u>	<u>30</u>	<u>759</u>
P12				<u>55</u>	<u>100</u>		
P13				<u>60</u>	<u>103</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1700	1697	PSI
(B) First Initial Flow Pressure	30	30	PSI
(C) First Final Flow Pressure	40	42	PSI
(D) Initial Closed-in Pressure	950	951	PSI
(E) Second Initial Flow Pressure	50	56	PSI
(F) Second Final Flow Pressure	100	103	PSI
(G) Final Closed-in Pressure	750	759	PSI
(H) Final Hydrostatic Mud	1680	1676	PSI



Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Graves Drilling Co., Inc. Lease & Well No. DeWitt #1
Elevation 1708 Kelly Bushings Formation Arbuckle Effective Pay _____ Ft. Ticket No. 13773
Date 4-6-71 Sec. 5 Twp. 18S Range 7W County Rice State Kansas
Test Approved by Benton Brooks Jr. Western Representative Dean Blagrave

Formation Test No. 3 O.K. Misrun _____ Interval Tested From 3257' to 3267' Total Depth 3280'
Size Main Hole 7 7/8" Rat Hole 7 7/8" Conv. _____ B.T. Damaged _____ Yes No Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth 3257 Ft. Size 6 3/4" Packer Depth _____ Ft. Size _____
Straddle _____ Yes No _____ Conv. B.T. _____ Damaged _____ Yes No _____
Packer Depth 3267 Ft. Size 6 3/4"
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" X.H. Anchor Length 10 Ft. Size 5 1/2" O.D.

RECORDERS Depth 3251 Ft. Clock No. 6899 Depth 3259 Ft. Clock No. 9102
Top Make Kuster Cap. 4000 No. 3659 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
Below Straddle: Depth 3276 Clock No. 101 Inside Outside Depth 3278 Ft. Clock No. 110 Inside Outside
Top Make WTC Cap. 4000 No. 47 Inside Outside Bottom Make WCT Cap. 6000 No. 36 Inside Outside

Time Set Packer 2:02 P. M
Tool Open I.F.P. From 2:05 M. to 2:15P. M. Hr. 10 Min. From (B) 49 P.S.I. To (C) 152 P.S.I.
Tool Closed I.C.I.P. From 2:15 M. to 2:45P. M. Hr. 30 Min. (D) 1072 P.S.I.
Tool Open F.F.P. From 2:45 M. to 3:45P. M. Hr. 1 Min. From (E) 194 P.S.I. To (F) 638 P.S.I.
Tool Closed F.C.I.P. From 3:45 M. to 4:15P. M. Hr. 30 Min. (G) 1051 P.S.I.
Initial Hydrostatic Pressure (A) 1703 P.S.I. Final Hydrostatic Pressure (H) 1697 P.S.I.

SURFACE Size Choke 1/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Strong thru out Bottom Choke Size 3/4 In.
Did Well Flow _____ Yes No _____ Recovery Total Ft. 1510 feet oil cut sulphur water

Reversed Out Yes _____ No _____ Mud Type Starch Viscosity 42 Weight 9.8 Water Loss 5 cc. Maximum Temp. 114 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? _____
Length Drill Pipe 3215 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe None ft. I.D. Weight Pipe _____ in. Length Drill Collars 30 ft.
I. D. Drill Collars 2.2 in. Length D.S.T. Tool 41 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

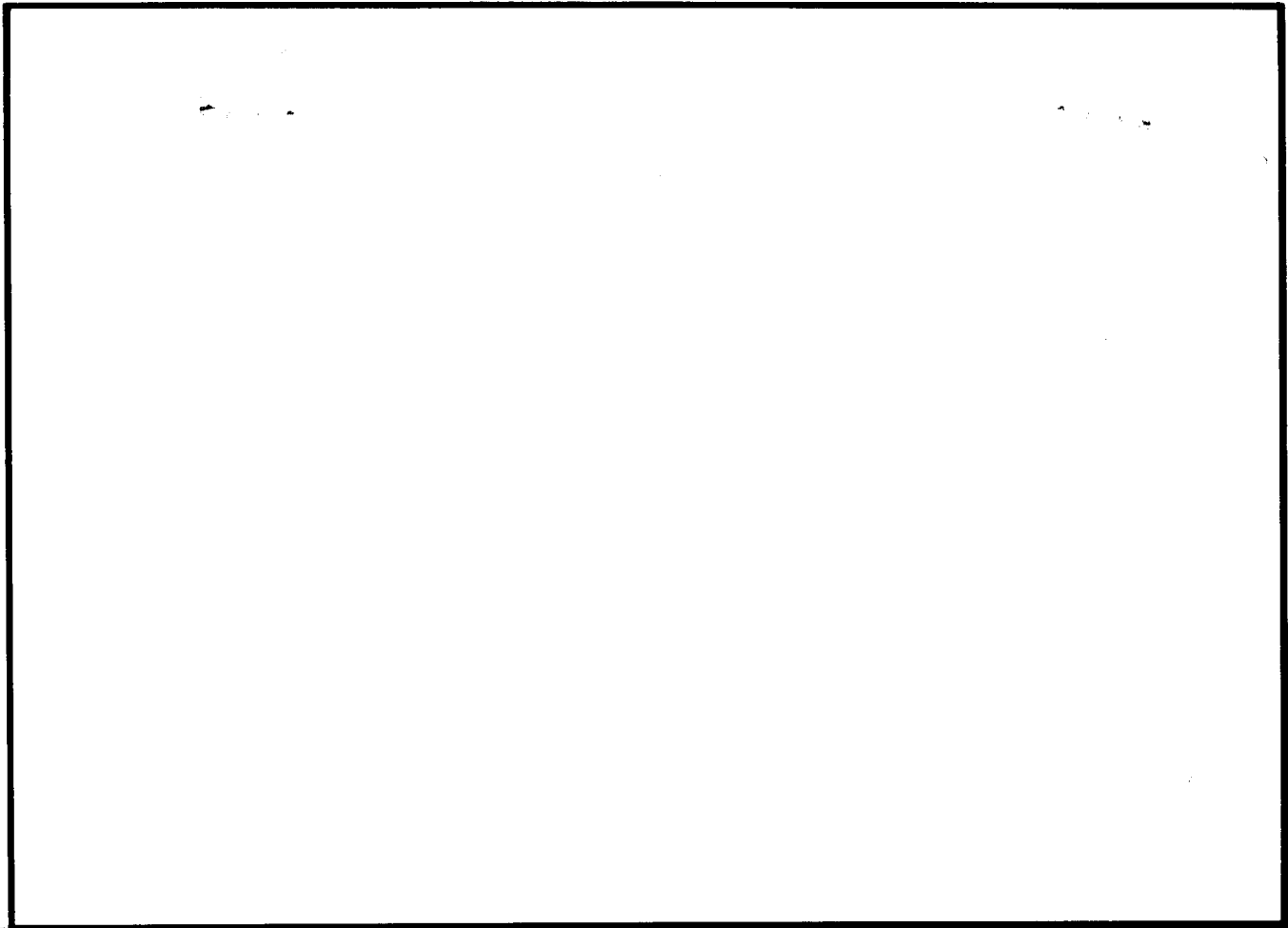
Date 4-6-71 Test Ticket No. 13773
 Recorder No. 3659 Capacity 4000 Location 3251 Ft.
 Clock No. 6899 Elevation 1708 Kelly Bushings Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1703</u>	P.S.I.	<u>2:02 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>49</u>	P.S.I.	<u>10</u>	<u>10</u>
C First Final Flow Pressure	<u>152</u>	P.S.I.	<u>30</u>	<u>30</u>
D Initial Closed-in Pressure	<u>1072</u>	P.S.I.	<u>60</u>	<u>60</u>
E Second Initial Flow Pressure	<u>194</u>	P.S.I.	<u>30</u>	<u>30</u>
F Second Final Flow Pressure	<u>638</u>	P.S.I.		
G Final Closed-in Pressure	<u>1051</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1697</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.
---	--	---	--

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	<u>0</u>	<u>49</u>	<u>0</u>	<u>152</u>	<u>0</u>	<u>194</u>	<u>0</u>	<u>638</u>
P 2	<u>5</u>	<u>80</u>	<u>3</u>	<u>966</u>	<u>5</u>	<u>232</u>	<u>3</u>	<u>976</u>
P 3	<u>10</u>	<u>152</u>	<u>6</u>	<u>1006</u>	<u>10</u>	<u>291</u>	<u>6</u>	<u>994</u>
P 4			<u>9</u>	<u>1028</u>	<u>15</u>	<u>345</u>	<u>9</u>	<u>1010</u>
P 5			<u>12</u>	<u>1041</u>	<u>20</u>	<u>390</u>	<u>12</u>	<u>1020</u>
P 6			<u>15</u>	<u>1048</u>	<u>25</u>	<u>432</u>	<u>15</u>	<u>1028</u>
P 7			<u>18</u>	<u>1055</u>	<u>30</u>	<u>472</u>	<u>18</u>	<u>1034</u>
P 8			<u>21</u>	<u>1060</u>	<u>35</u>	<u>506</u>	<u>21</u>	<u>1041</u>
P 9			<u>24</u>	<u>1064</u>	<u>40</u>	<u>540</u>	<u>24</u>	<u>1045</u>
P10			<u>27</u>	<u>1068</u>	<u>45</u>	<u>571</u>	<u>27</u>	<u>1048</u>
P11			<u>30</u>	<u>1072</u>	<u>50</u>	<u>596</u>	<u>30</u>	<u>1051</u>
P12					<u>55</u>	<u>622</u>		
P13					<u>60</u>	<u>638</u>		
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1710	1703	PSI
(B) First Initial Flow Pressure	50	49	PSI
(C) First Final Flow Pressure	160	152	PSI
(D) Initial Closed-in Pressure	1070	1072	PSI
(E) Second Initial Flow Pressure	190	194	PSI
(F) Second Final Flow Pressure	630	638	PSI
(G) Final Closed-in Pressure	1050	1051	PSI
(H) Final Hydrostatic Mud	1690	1697	PSI