



P. O. BOX 793
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 24824

Formation Mississippi Elevation _____ Eff. Pay _____ Ft. _____

District PRATT Date 6-28-77 Customer Order No. _____

COMPANY NAME GRAVES ETAL

ADDRESS 910 UNION CENTER - WICHITA, KS, 67202

LEASE AND WELL NO. Wheilan #2 COUNTY BARBER STATE KANS Sec. 9 Twp 21S Rge 11W

Mail Inv. To SAME No. Copies Requested Reg

Co. Name SAME Address _____

Mail Charts To SAME No. Copies Requested _____

Address _____

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 4345 to 4390 Total Depth 4390

Size Main Hole 7 7/8 Rat Hole _____ Conv. — B.T. — Damaged — Yes — No Conv. — B.T. — Damaged — Yes — No

Top Packer Depth 4340 Ft. Size 6 3/4 Bottom Packer Depth 4345 Ft. Size 6 3/4

Straddle — Conv. — B.T. — Damaged — Yes — No Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 45 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4352 Ft. Clock No. 5665 Depth 4355 Ft. Clock No. 6894

Top Make KUSTER Cap. 4400 No. 2603 Inside _____ Bottom Make KUSTER Cap. 4150 No. 969 Inside _____

Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Outside _____

Depth _____ Ft. Rec. No. _____ Clock No. _____ Outside _____

Time Set Packer 3:12 P

Tool Open I.F.P. From 3:14 P M. to 3:29 P M. Hr. 15 Min. From (B) 55 P.S.I. To (C) 58 P.S.I.

Tool Closed I.C.I.P. From 3:29 P M. to 4:14 P M. Hr. 45 Min. (D) 535 P.S.I.

Tool Open F.F.P. From 4:14 P M. to 5:14 P M. Hr. 00 Min. From (E) 111 P.S.I. To (F) 111 P.S.I.

Tool Closed F.C.I.P. From 5:14 P M. to 5:59 P M. Hr. 45 Min. (G) 1723 P.S.I.

Initial Hydrostatic Pressure (A) 2,155 P.S.I. Final Hydrostatic Pressure (H) 3,166 P.S.I. Maximum Temp. 123

INFORMATION

BLOW STRONG BLOW OFF BOTTOM OF Bucket immediately on F.F.P. - STRONG BLOW ON F.F.P. - NO GAS TO SURFACE

Did Well Flow — Yes — No — Recovery Total Ft. 80 ft Mud

Reversed Out — Yes — No — Mud Premix Viscosity 39 Weight 9.1 Water Loss 12.8 cc. Chlorides 15,000

EXTRA EQUIPMENT: Type Circ. Sub. PIV Safety Joint — Jars: Size — In. Make — Ser. No. —

Dual Packers — Did Packers Hold? — Did Tool Plug? NO Where? —

DRILLING CONTRACTOR GRAVES DRILLING CO. Length Drill Pipe 3963 ft. I.D. Drill Pipe 38 In. Tool Joint Size 4 1/2 FH

Length Weight Pipe 246 ft. I.D. Weight Pipe 244 In. Tool Joint Size 4 1/2 FH Length Drill Collars 116 ft. I.D. Drill Collars 244 In.

Tool Joint Size 4 1/2 FH Length D.S.T. Tool 66 ft.

Remarks _____

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage 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, or 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By A. Steincamp Western Representative Joe P. Hyslop

Signature of Customer or his Authorized Representative _____ Operator's Time Thank You Hrs. _____

INVOICE SECTION

Open Hole Test	\$ <u>41500</u>
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>41500</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 6-23-77 Test Ticket No. 24824
 Recorder No. 2603 Capacity 4400 Location 4352 Ft.
 Clock No. 5665 Elevation _____ Well Temperature 123 °F

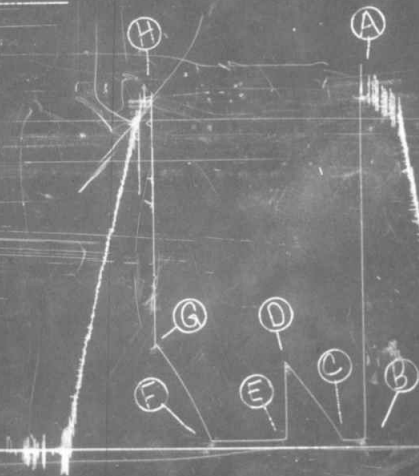
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2104</u> P.S.I.	Open Tool	<u>3:12</u> P _M	
B First Initial Flow Pressure	<u>42</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>42</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>518</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>51</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>45</u> P.S.I.			
G Final Closed-in Pressure	<u>635</u> P.S.I.			
H Final Hydrostatic Mud	<u>2104</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>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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 <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 Inches	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	42	0	42	0	51	0	45
2 5	42	3	60	5	47	3	89
3 10	42	6	105	10	45	6	140
4 15	42	9	143	15	45	9	189
5 20		12	178	20		12	239
6 25		15	210	25		15	285
7 30		18	243	30		18	330
8 35		21	274	35		21	370
9 40		24	308	40		24	408
10 45		27	337	45		27	446
11 50		30	368	50		30	482
12 55		33	397	55		33	515
13 60		36	426	60	45	36	551
4		39	457	65		39	584
5		42	487	70		42	615
6		45	518	75		45	635
7		48		80		48	
8		51		85		51	
9		54		90		54	
0		57				57	
WTC - 4		60				60	

TKT # 24824

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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Graves Drilling Co., Inc. ETAL Lease & Well No. Whelan #2
Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 24824
Date 6-23-77 Sec. 9 Twp. 31S Range 11W County Barber State Kansas
Test Approved by H. Steincamp Western Representative Joe N. Lusk
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4345' to 4390' Total Depth 4390'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 4340 Ft. Size 6 3/4 Bottom Packer Depth 4345 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 Tool Joint Size 4 1/2 FH Anchor Length 45 Ft. Size 5 1/2 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4352 Ft. Clock No. 5665 Depth 4355 Ft. Clock No. 6894
Top Make Kuster Cap. 4400 No. 2603 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 969 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 3:12P. M
Tool Open I.F.P. From 3:14P M. to 3:29P M. - Hr. 15 Min. From (B) 42 P.S.I. To (C) 42 P.S.I.
Tool Closed I.C.I.P. From 3:29P M. to 4:14P M. - Hr. 45 Min (D) 518 P.S.I.
Tool Open F.F.P. From 4:14P M. to 5:14P M. - Hr. 60 Min. From (E) 51 P.S.I. To (F) 45 P.S.I.
Tool Closed F.C.I.P. From 5:14P M. to 5:59P M. - Hr. 45 Min. (G) 635 P.S.I.
Initial Hydrostatic Pressure (A) 2104 P.S.I. Final Hydrostatic Pressure (H) 2104 P.S.I. Maximum Temp. 123

INFORMATION

BLOW Strong blow off bottom of bucket immediately on initial flow period, strong blow on final flow period. No gas to surface.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 80' of mud.

Reversed Out ☐ Yes ☒ No Mud Type Premix Viscosity 39 Weight 9.1 Water Loss 12.8 cc. Chlorides 15,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer ☒ Yes Did Packers Hold? Yes Did Tool Plug? No Where? =

DRILLING CONTRACTOR Graves Drilling Co. Length Drill Pipe? 3963 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 245 Ft. I.D. Weight Pipe 2 1/4 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 116 Ft. I.D. Drill Collars 244 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 66 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 6-23-77 Test Ticket No. 24824
 Recorder No. 2603 Capacity 4400 Location 4352 Ft.
 Clock No. 5665 Elevation - Well Temperature 123 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2104</u> P.S.I.	<u>3:12</u> P M	
B First Initial Flow Pressure	<u>42</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>42</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>518</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>51</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>45</u> P.S.I.		
G Final Closed-in Pressure	<u>635</u> P.S.I.		
H Final Hydrostatic Mud	<u>2104</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>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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 <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 <u>0</u>	<u>42</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>45</u>
P 2 <u>5</u>	<u>42</u>	<u>3</u>	<u>60</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>89</u>
P 3 <u>10</u>	<u>42</u>	<u>6</u>	<u>105</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>140</u>
P 4 <u>15</u>	<u>42</u>	<u>9</u>	<u>143</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>189</u>
P 5		<u>12</u>	<u>178</u>	<u>20</u>	<u>45</u>	<u>12</u>	<u>239</u>
P 6		<u>15</u>	<u>210</u>	<u>25</u>	<u>45</u>	<u>15</u>	<u>285</u>
P 7		<u>18</u>	<u>243</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>330</u>
P 8		<u>21</u>	<u>274</u>	<u>35</u>	<u>45</u>	<u>21</u>	<u>370</u>
P 9		<u>24</u>	<u>308</u>	<u>40</u>	<u>45</u>	<u>24</u>	<u>408</u>
P10		<u>27</u>	<u>337</u>	<u>45</u>	<u>45</u>	<u>27</u>	<u>446</u>
P11		<u>30</u>	<u>368</u>	<u>50</u>	<u>45</u>	<u>30</u>	<u>482</u>
P12		<u>33</u>	<u>397</u>	<u>55</u>	<u>45</u>	<u>33</u>	<u>515</u>
P13		<u>36</u>	<u>426</u>	<u>60</u>	<u>45</u>	<u>36</u>	<u>551</u>
P14		<u>39</u>	<u>457</u>			<u>39</u>	<u>584</u>
P15		<u>42</u>	<u>487</u>			<u>42</u>	<u>615</u>
P16		<u>45</u>	<u>518</u>			<u>45</u>	<u>635</u>
P17							
P18							
P19							
P20							



P. O. BOX 793
GREAT BEND, KANSAS

PHONE 793-7903

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 24825

Formation Mississippi Elevation _____ Eff. Pay _____ Ft.

COMPANY NAME GRAVES ETAL District PRATT Date 6-24-77 Customer Order No. _____
ADDRESS 910 Union Center Wichita, KS 67202
LEASE AND WELL NO. WheLAN #2 COUNTY BARBER STATE KS Sec. 9 Twp. 31 Rge. 11W
Mail Inv. To SAME Co. Name _____ Address _____ No. Copies Requested Reg
Mail Charts To SAME Address _____ No. Copies Requested Reg

Formation Test No. 7 O.K. ☒ Misrun ☐ Interval Tested From 4390 to 4410 Total Depth 4410
Size Main Hole 7 7/8 Rat Hole _____ Conv. ☐ B.T. ☒ Damaged Yes ☐ No Conv. ☒ B.T. ☐ Damaged Yes ☐ No
Top Packer Depth 4385 Ft. Size 6 3/4 Bottom Packer Depth 4390 Ft. Size 6 3/4
Straddle _____ Conv. ☐ B.T. ☐ Damaged Yes ☐ No Packer Depth _____ Ft. Size _____
Tool Size 5/8 OD Tool Joint Size 4 1/2 FH Anchor Length 20 Ft. Size 5/8 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4397 Ft. Clock No. 5665 Depth 4400 Ft. Clock No. 6894
Top Mark RUSTER Cap. 4400 No. 2603 Inside _____ Outside _____ Bottom Mark RUSTER Cap. 4150 No. 969 Inside _____ Outside _____
Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Outside _____ Depth _____ Ft. Rec. No. _____ Clock No. _____ Outside _____

Time Set Packer 6:52 A
Tool Open I.F.P. From 6:54 A M. to 7:09 A M. Hr. 15 Min. From (B) 33 P.S.I. To (C) 33 P.S.I.
Tool Closed I.C.I.P. From 7:09 A M. to 7:54 A M. Hr. 45 Min. (D) 123 P.S.I.
Tool Open F.F.P. From 7:54 A M. to 8:54 A M. Hr. 00 Min. From (E) 44 P.S.I. To (F) 44 P.S.I.
Tool Closed F.C.I.P. From 8:54 A M. to 9:39 A M. Hr. 45 Min. (G) 100 P.S.I.
Initial Hydrostatic Pressure (A) 2,099 P.S.I. Final Hydrostatic Pressure (H) 2,077 P.S.I. Maximum Temp 124 °

BLOW FAIR BLOW ON I.F.P. - HOOD BLOW ON F.F.P.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 10 ft very slightly oil cut
Mud 420 ft gas in pipe

Reversed Out Yes ☐ No ☒ Mud Premix Viscosity 62 Weight 9.1 Water Loss 12.8 cc. Chlorides 15,000
EXTRA EQUIPMENT: Type Circ. Sub. RIN Safety Joint _____ Jars: Size _____ In. Make _____ Ser. No. _____
Dual Packers ☒ Did Packers Hold? Yes Did Tool Plug? _____ Where? _____

DRILLING CONTRACTOR GRAVES DRILLING CO. Length Drill Pipe 4049 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.
Length Weight Pipe 245 ft. I.D. Weight Pipe 2 1/4 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars 116 ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 41 ft.

Remarks _____

COMPANY TERMS

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All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By David Steenamp
Signature of Customer or his
Authorized Representative

Western Representative Joe N. Lusk
Operator's Time Thank You Hrs.

INVOICE SECTION

Open Hole Test	\$ <u>415.00</u>
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ _____
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>415.00</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 6-24-77 Recorder No. 2603 Capacity 4400 Test Ticket No. 24825
 Clock No. 5665 Elevation _____ Location 4397 Ft. Well Temperature 124 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2093</u> P.S.I.		<u>6:52</u> A.M.	
B First Initial Flow Pressure	<u>36</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>36</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>138</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>45</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>39</u> Mins.
F Second Final Flow Pressure	<u>42</u> P.S.I.			
G Final Closed-in Pressure	<u>110</u> P.S.I.			
H Final Hydrostatic Mud	<u>2082</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>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>13</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 <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.
1 0	<u>36</u>	0	<u>36</u>	0	<u>45</u>	0	<u>42</u>
2 5	<u>36</u>	3	<u>36</u>	5	<u>42</u>	3	<u>43</u>
3 10	<u>36</u>	6	<u>36</u>	10		6	<u>46</u>
4 15	<u>36</u>	9	<u>36</u>	15		9	<u>48</u>
5 20		12	<u>36</u>	20		12	<u>54</u>
6 25		15	<u>46</u>	25		15	<u>57</u>
7 30		18	<u>56</u>	30		18	<u>62</u>
8 35		21	<u>65</u>	35		21	<u>71</u>
9 40		24	<u>74</u>	40		24	<u>78</u>
10 45		27	<u>83</u>	45		27	<u>85</u>
11 50		30	<u>91</u>	50		30	<u>92</u>
12 55		33	<u>98</u>	55		33	<u>99</u>
13 60		36	<u>109</u>	60	<u>42</u>	36	<u>107</u>
14		39	<u>119</u>	65		39	<u>110</u>
15		42	<u>129</u>	70		42	
16		45	<u>138</u>	75		45	
17		48		80		48	
18		51		85		51	
19		54		90		54	
20		57				57	
21		60				60	

2607

IT # 24825

I

(H)

(A)

(G)

(F)

(E)

(D)

(C)

(B)



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Graves Drilling Co., Inc. ETAL Lease & Well No. Whelan #2
Elevation - Formation Mississippi Effective Pay - Ft. Ticker No. 24825
Date 6-24-77 Sec. 9 Twp. 31S Range 11W County Barber State Kansas
Test Approved by Harold Steincamp Western Representative Joe N. Lusk
Formation Test No. 2 O.K. X Misrun - Interval Tested From 4390' to 4410' Total Depth 4410'
Size Main Hole 77/8 Rat Hole - Conv. - B.T. X Damaged - Yes - No Conv. X B.T. - Damaged - Yes - No
Top Packer Depth 4385 Ft. Size 6 3/4 Bottom Packer Depth 4390 Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 20 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 4397 Ft. Clock No. 5665 Depth 4400 Ft. Clock No. 6894
Top Make Kuster Cap. 4400 No. 2603 Inside Outside Bottom Make Kuster Cap. 4150 No. 969 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 6:52 A.M.
Tool Open I.F.P. From 6:54 A.M. to 7:09 A.M. - Hr. 15 Min. From (B) 36 P.S.I. To (C) 36 P.S.I.
Tool Closed I.C.I.P. From 7:09 M. to 7:54 A.M. - Hr. 45 Min (D) 138 P.S.I.
Tool Open F.F.P. From 7:54 M. to 8:54 A.M. 1 Hr. - Min. From (E) 45 P.S.I. To (F) 42 P.S.I.
Tool Closed F.C.I.P. From 8:54 M. to 9:39 A.M. - Hr. 45 Min. (G) 110 P.S.I.
Initial Hydrostatic Pressure (A) 2093 P.S.I. Final Hydrostatic Pressure (H) 2082 P.S.I. Maximum Temp. 124

INFORMATION

BLOW Fair blow in initial flow period. Good blow on final flow period.

Did Well Flow - Yes X No Recovery Total Fr. 10' very slightly oil cut mud, 420' gas in pipe.

Reversed Out - Yes X No Mud Type premix Viscosity 62 Weight 9.1 Water Loss 12.8 cc. Chlorides 15,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer - Did Packers Hold? yes Did Tool Plug? - Where? -

DRILLING CONTRACTOR Graves Drilg. Co. Length Drill Pipe? 4049 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 245 Ft. I.D. Weight Pipe 2 1/2 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 116 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 41 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 6-24-77 Test Ticket No. 24825
 Order No. 2603 Capacity 4400 Location 4397 Ft.
 Block No. 5665 Elevation - Well Temperature 124 °F
 Unit Pressure
 Initial Hydrostatic Mud 2093 P.S.I. Open Tool 6:52 A M
 First Initial Flow Pressure 36 P.S.I. First Flow Pressure 15 Mins. 15 Mins.
 First Final Flow Pressure 36 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 Initial Closed-in Pressure 138 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 Second Initial Flow Pressure 45 P.S.I. Final Closed-in Pressure 45 Mins. 39 Mins.
 Second Final Flow Pressure 42 P.S.I.
 Final Closed-in Pressure 110 P.S.I.
 Final Hydrostatic Mud 2082 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>13</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 <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.
1 0	36	0	36	0	45	0	42
2 5	36	3	36	5	42	3	43
3 10	36	6	36	10	42	6	46
4 15	36	9	36	15	42	9	48
5		12	36	20	42	12	54
6		15	46	25	42	15	57
7		18	56	30	42	18	62
8		21	65	35	42	21	71
9		24	74	40	42	24	78
10		27	83	45	42	27	85
11		30	91	50	42	30	92
12		33	98	55	42	33	99
13		36	109	60	42	36	107
14		39	119			39	110
15		42	129				
16		45	138				
17							
18							
19							
20							