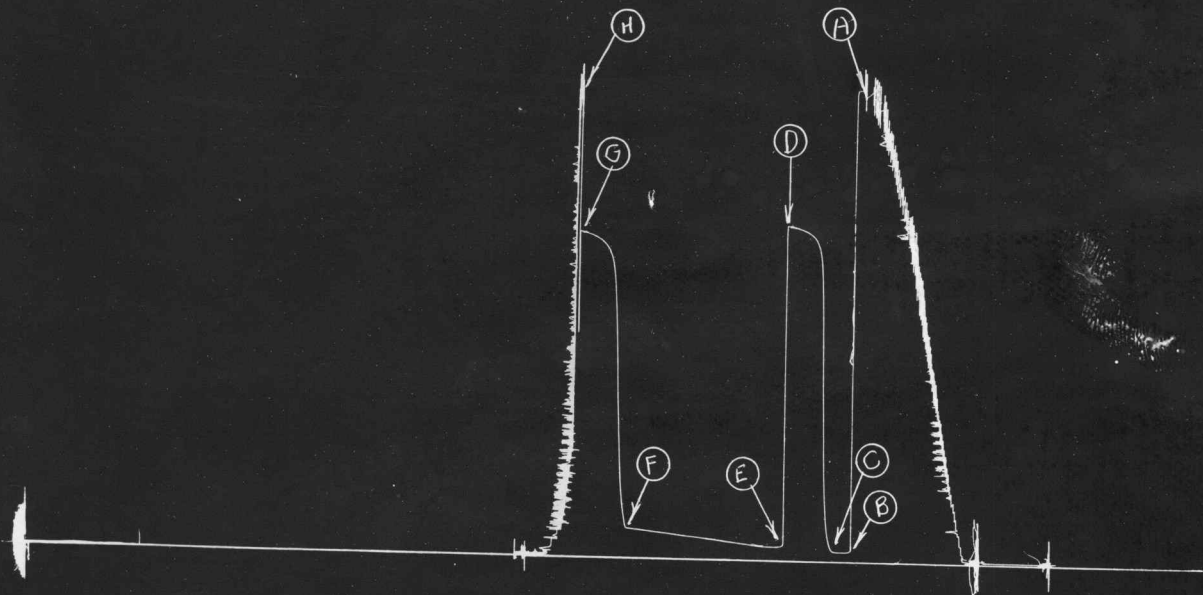


PICKRELL DRUG CO.
McCORMICK "B"-1

TEST # 1
TKT # 5352.





Home Office: Great Bend, Kansas
P. O. Box 793 Swift 3-7903

Company Pickrell Drilling Company Lease & Well No. McCormick #B-1
Elevation 1519 Derrick Floor Formation Kansas City Ticket Number 5352
Date March 14, 1966 Sec. 29 Twp. 29 Range 6 County Kingman State Kansas
Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

Formation Test No. 1 O.K. Misrun Interval Tested From 3713' to 3728' Total Depth 3728'
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 3708 Ft. Size 6 3/4 Packer Depth 3713 Ft. Size 6 3/4
Straddle Yes No Conv. B.T. Damaged Yes No
Packer Depth Ft. Size

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 15 Ft. Size 5 1/2 OD

RECORDERS Depth 3722 Ft. Clock No. 6861 Depth 3725 Ft. Clock No. 139
Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Western Cap. 4000 No. 60 Inside Outside
Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside
Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 10:32 A M
Tool Open I.F.P. From 10:37 M to 10:47 M Hr. 10 Min. From (B) 39 P.S.I. To (C) 39 P.S.I.
Tool Closed I.C.I.P. From 10:47 M. to 11:17 M. Hr. 30 Min. (D) 1409 P.S.I.
Tool Open F.F.P. From 11:17 M. to 12:47 M. Hr. 30 Min. From (E) 58 P.S.I. To (F) 123 P.S.I.
Tool Closed F.C.I.P. From 12:47 M. to 1:17 M. Hr. 30 Min. (G) 1367 P.S.I.
Initial Hydrostatic Pressure (A) 1970 P.S.I. Final Hydrostatic Pressure (H) 1961 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak to fair Bottom Choke Size 3/4 In.
Did Well Flow Yes No Recovery Total Ft. 20' very slightly oil cut mud; 180' very slightly oil cut water

Reversed Out Yes No Mud Type starch Viscosity 36 Weight 9.6 Maximum Temp. 131 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size _____ Make _____ Ser. No. _____

Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes

Length Drill Pipe 2522 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1044 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 35 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date March 14, 1966

Test Ticket No. 5352

Recorder No. 1559 Capacity 4200 Location 3722 Ft.

Clock No. 6861 Elevation 1519 Derrick Floor Well Temperature 131 °F

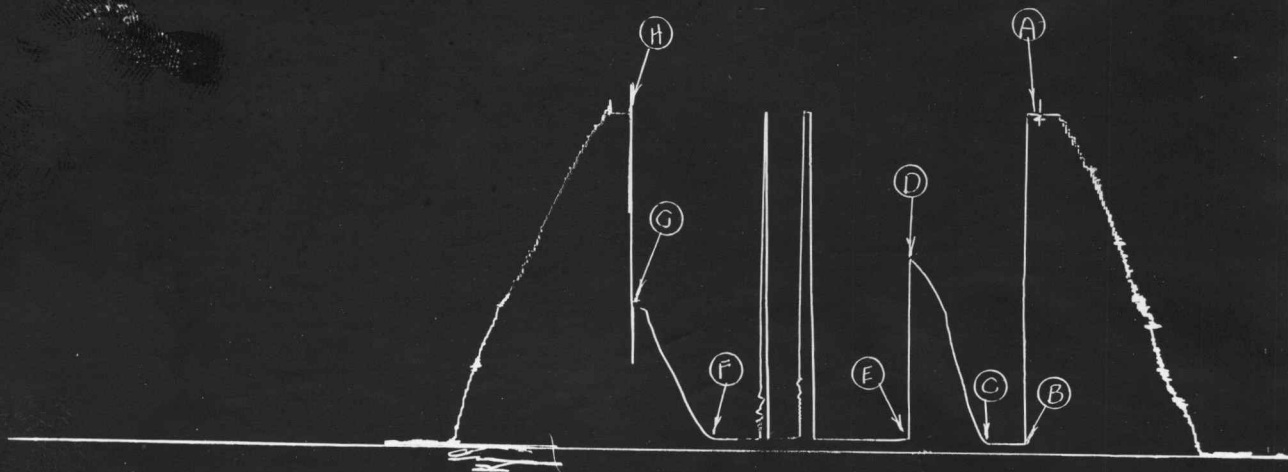
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1970</u>	P.S.I.	<u>10:32A</u>	<u>M</u>
B First Initial Flow Pressure	<u>39</u>	P.S.I.	<u>10</u>	<u>10</u> Mins.
C First Final Flow Pressure	<u>39</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1409</u>	P.S.I.	<u>90</u>	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>58</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>123</u>	P.S.I.		
G Final Closed-in Pressure	<u>1367</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1961</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>18</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 <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>0</u>	<u>39</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>123</u>
P 2	<u>5</u>	<u>3</u>	<u>117</u>	<u>5</u>	<u>58</u>	<u>3</u>	<u>244</u>
P 3	<u>10</u>	<u>6</u>	<u>434</u>	<u>10</u>	<u>59</u>	<u>6</u>	<u>701</u>
P 4		<u>9</u>	<u>1200</u>	<u>15</u>	<u>60</u>	<u>9</u>	<u>1117</u>
P 5		<u>12</u>	<u>1336</u>	<u>20</u>	<u>62</u>	<u>12</u>	<u>1273</u>
P 6		<u>15</u>	<u>1367</u>	<u>25</u>	<u>68</u>	<u>15</u>	<u>1311</u>
P 7		<u>18</u>	<u>1384</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>1332</u>
P 8		<u>21</u>	<u>1395</u>	<u>35</u>	<u>79</u>	<u>21</u>	<u>1346</u>
P 9		<u>24</u>	<u>1401</u>	<u>40</u>	<u>83</u>	<u>24</u>	<u>1355</u>
P10		<u>27</u>	<u>1407</u>	<u>45</u>	<u>89</u>	<u>27</u>	<u>1363</u>
P11		<u>30</u>	<u>1409</u>	<u>50</u>	<u>91</u>	<u>30</u>	<u>1367</u>
P12				<u>55</u>	<u>94</u>		
P13				<u>60</u>	<u>100</u>		
P14				<u>65</u>	<u>104</u>		
P15				<u>70</u>	<u>108</u>		
P16				<u>75</u>	<u>112</u>		
P17				<u>80</u>	<u>115</u>		
P18				<u>85</u>	<u>119</u>		
P19				<u>90</u>	<u>123</u>		
P20							

PICKRELL DRIG. CO.
M^CCORMICK "B" #1

TEST #2
TKT #5353





Home Office: Great Bend, Kansas
P. O. Box 793 Swift 3-7903

Company Pickrell Drilling Company Lease & Well No. McCormick #B-1
Elevation 1519 Derrick Floor Formation Kansas City Ticket Number 5353
Date March 15, 1966 Sec. 29 Twp. 29 Range 6 County Kingman State Kansas
Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

Formation Test No. 2 O.K. Misrun Interval Tested From 3760' 3775' Total Depth 3775'
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 3745 Ft. Size 6 3/4 Packer Depth 3750 Ft. Size 6 3/4
Straddle Yes No Conv. B.T. Damaged Yes No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 25 Ft. Size 5 1/2 OD

RECORDERS Depth 3769 Ft. Clock No. 6861 Depth 3772 Ft. Clock No. 139
Top Make Kuster Cap. 4200 No. 1559 ~~Inside~~ Outside Bottom Make Western Cap. 4000 No. 60 ~~Inside~~ Outside
Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Ft. Clock No. _____ Outside
Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 3:42 A M
Tool Open I.F.P. From 3:45 M to 3:55 M Hr. 10 Min. From (B) 31 P.S.I. To (C) 31 P.S.I.
Tool Closed I.C.I.P. From 3:55 M. to 4:25 M. Hr. 30 Min. (D) 1167 P.S.I.
Tool Open F.F.P. From 4:25 M. to 5:25 M. Hr. 30 Min. From (E) 37 P.S.I. To (F) 41 P.S.I.
Tool Closed F.C.I.P. From 5:25 M. to 5:55 M. Hr. 30 Min. (G) 893 P.S.I.
Initial Hydrostatic Pressure (A) 1978 P.S.I. Final Hydrostatic Pressure (H) 1956 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak. Died in 15 minutes. Bottom Choke Size 3/4 In.

Did Well Flow Yes No Recovery Total Ft. 30' mud.; skim of oil

Reversed Out Yes No Mud Type starch Viscosity 44 Weight 9.8 Maximum Temp. 119 °F

EXTRA EQUIPMENT: Dual Packers Safety Joint Jars: Size _____ Make _____ Ser. No. _____

Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes

Length Drill Pipe 2569 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1044 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 45 ft.

Remarks Open for FF. Weak blow for 15 minutes. Died. Flushed tool 30 minutes. No blow. Flushed tool 45 minutes - no blow. Close for F.C.I.P. in 60 minutes. Kuster clock stopped when starting out of hole.

WESTERN TESTING CO., INC.
Pressure Data

Date March 15, 1966

Test Ticket No. 5353

Recorder No. 1559 Capacity 4200 Location 3769 Ft.

Clock No. 6861 Elevation 1519 Derrick Floor Well Temperature 119 °F

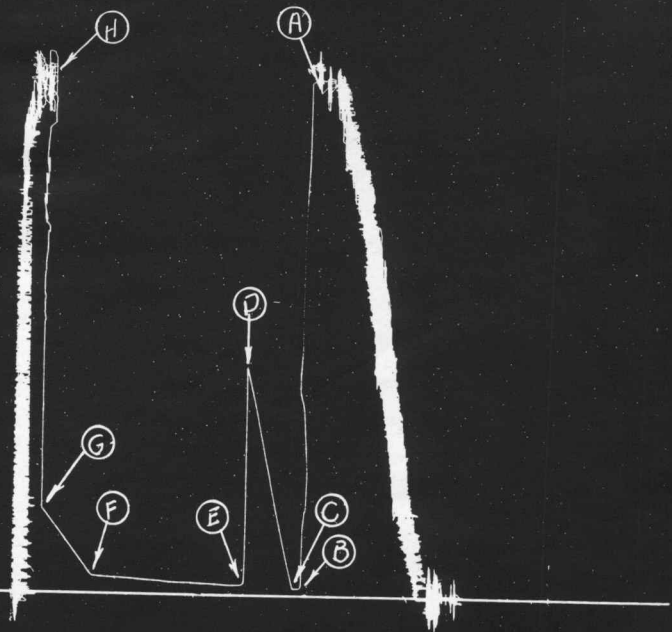
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1978</u> P.S.I.	Opened Tool	<u>3:42</u> A M	
B First Initial Flow Pressure	<u>31</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>31</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1167</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>37</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
F Second Final Flow Pressure	<u>41</u> P.S.I.			
G Final Closed-in Pressure	<u>893</u> P.S.I.			
H Final Hydrostatic Mud	<u>1956</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>9</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>2</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>31</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>41</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>54</u>	<u>5</u>	<u>37</u>	<u>3</u>	<u>57</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>192</u>	<u>10</u>	<u>37</u>	<u>6</u>	<u>93</u>
P 4		<u>9</u>	<u>447</u>	<u>15</u>	<u>37</u>	<u>9</u>	<u>300</u>
P 5		<u>12</u>	<u>226</u>	<u>20</u>	<u>37</u>	<u>12</u>	<u>426</u>
P 6		<u>15</u>	<u>776</u>	<u>25</u>	<u>37</u>	<u>15</u>	<u>541</u>
P 7		<u>18</u>	<u>903</u>	<u>30</u>	<u>37</u>	<u>18</u>	<u>601</u>
P 8		<u>21</u>	<u>997</u>	<u>35</u>	<u>41</u>	<u>21</u>	<u>661</u>
P 9		<u>24</u>	<u>1083</u>	<u>40</u>	<u>41</u>	<u>24</u>	<u>716</u>
P10		<u>27</u>	<u>1146</u>	<u>45</u>	<u>41</u>	<u>27</u>	<u>765</u>
P11		<u>30</u>	<u>1167</u>	<u>50</u>	<u>41</u>	<u>29</u>	<u>893</u>
P12				<u>55</u>	<u>41</u>		
P13				<u>60</u>	<u>41</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

PICKRELL DRUG CO.
McCORMICK "B" #1

TEST # 3
TKT # 5356





Home Office: Great Bend, Kansas
P. O. Box 793 Swift 3-7903

Company Pickrell Drilling Company Lease & Well No. McCormick #B-1
Elevation 1519 Derrick Floor Formation Mississippi Ticker Number 5356
Date March 17, 1966 Sec. 29 Twp. 29 Range 6 County Kingman State Kansas
Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

Formation Test No. 3 O.K. Misrun _____ Interval Tested From 4138' to 4153' Total Depth 4153'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. Damaged Yes No
Packer Depth 4133 Ft. Size 6 3/4 Packer Depth 4138 Ft. Size 6 3/4
Straddle Yes No _____ Conv. _____ B.T. _____ Damaged Yes _____ No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 15 Ft. Size 5 1/2 OD
RECORDERS Depth 4147 Ft. Clock No. 6860 Depth 4150 Ft. Clock No. 139
Top Make Kuster Cap. 4300 No. 1566 Inside Bottom Make Western Cap. 4000 No. 60 Inside
Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Ft. Clock No. _____ Inside
Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Inside

Time Set Packer 12:38 A M
Tool Open I.F.P. From 12:41 M to 12:46 M Hr. 5 Min. From (B) 30 P.S.I. To (C) 30 P.S.I.
Tool Closed I.C.I.P. From 12:46 M. to 1:16 M. Hr. 30 Min. (D) 1004 P.S.I.
Tool Open F.F.P. From 1:16 M. to 2:46 M. 1 Hr. 30 Min. From (E) 45 P.S.I. To (F) 77 P.S.I.
Tool Closed F.C.I.P. From 2:46 M. to 3:16 M. Hr. 30 Min. (G) 376 P.S.I.
Initial Hydrostatic Pressure (A) 2227 P.S.I. Final Hydrostatic Pressure (H) 2201 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Strong Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 130' heavy oil cut mud

Reversed Out Yes No Mud Type starch Viscosity 45 Weight 9.9 Maximum Temp. 128 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size _____ Make _____ Ser. No. _____
Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes
Length Drill Pipe 2927 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1044 ft. I.D. Weight Pipe _____ in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 35 ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date March 17, 1966

Recorder No. 1566 Capacity 4300

Test Ticket No. 5356

Clock No. 6860 Elevation 1519 Derrick Floor

Location 4147 Ft.

Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2227</u>	P.S.I.	<u>12:38 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>30</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>30</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1004</u>	P.S.I.	<u>90</u> Mins.	<u>88</u> Mins.
E Second Initial Flow Pressure	<u>45</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>77</u>	P.S.I.		
G Final Closed-in Pressure	<u>376</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2201</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.

Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In

Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure

Breakdown: 17 Inc.
of 5 mins. and a
final inc. of 3 Min.

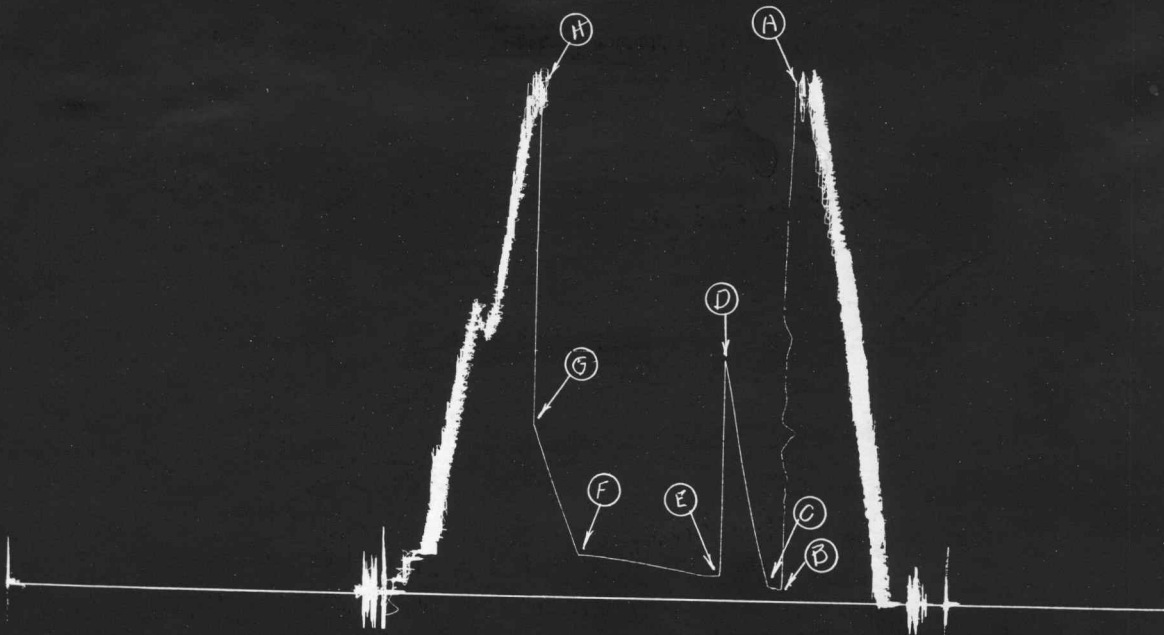
Final Shut-In

Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>30</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>77</u>
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>120</u>	<u>5</u>	<u>46</u>	<u>3</u>	<u>103</u>
P 3		<u>6</u>	<u>211</u>	<u>10</u>	<u>48</u>	<u>6</u>	<u>142</u>
P 4		<u>9</u>	<u>319</u>	<u>15</u>	<u>50</u>	<u>9</u>	<u>172</u>
P 5		<u>12</u>	<u>419</u>	<u>20</u>	<u>52</u>	<u>12</u>	<u>200</u>
P 6		<u>15</u>	<u>536</u>	<u>25</u>	<u>53</u>	<u>15</u>	<u>233</u>
P 7		<u>18</u>	<u>639</u>	<u>30</u>	<u>54</u>	<u>18</u>	<u>265</u>
P 8		<u>21</u>	<u>754</u>	<u>35</u>	<u>55</u>	<u>21</u>	<u>289</u>
P 9		<u>24</u>	<u>847</u>	<u>40</u>	<u>57</u>	<u>24</u>	<u>317</u>
P10		<u>27</u>	<u>935</u>	<u>45</u>	<u>59</u>	<u>27</u>	<u>348</u>
P11		<u>30</u>	<u>1004</u>	<u>50</u>	<u>61</u>	<u>30</u>	<u>376</u>
P12				<u>55</u>	<u>63</u>		
P13				<u>60</u>	<u>64</u>		
P14				<u>65</u>	<u>65</u>		
P15				<u>70</u>	<u>68</u>		
P16				<u>75</u>	<u>71</u>		
P17				<u>80</u>	<u>73</u>		
P18				<u>85</u>	<u>75</u>		
P19				<u>88</u>	<u>77</u>		
P20							

PICKRELL DRUG CO.
M^cCORMICK "B"-1

TEST#4
TKT#5357





Home Office: Great Bend, Kansas
P. O. Box 793 Swift 3-7903

Company Pickrell Drilling Company Lease & Well No. McCormick #B-1
Elevation 1519 Derrick Floor Formation Mississippi Ticket Number 5357
Date March 17, 1966 Sec. 29 Twp. 29 Range 6 County Kingman State Kansas
Test Approved by Ralph W. Ruwwe Western Representative Leon Elmore

Formation Test No. 4 O.K. Misrun _____ Interval Tested From 4140' to 4169' Total Depth 4169'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. Damaged Yes No
Packer Depth 4135 Ft. Size 6 3/4 Packer Depth 4140 Ft. Size 6 3/4
Straddle Yes No _____ Conv. _____ B.T. _____ Damaged Yes _____ No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 29 Ft. Size 5 1/2 OD

RECORDERS Depth 4159 Ft. Clock No. 5665 Depth 4162 Ft. Clock No. 139
Top Make Kuster Cap. 4300 No. 1566 Inside Outside Bottom Make Western Cap. 4000 No. 60 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside Outside Depth _____ Ft. Clock No. _____ Outside Inside
Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 12:17 P M
Tool Open I.F.P. From 12:20 M to 12:30 M Hr. 10 Min. From (B) 47 P.S.I. To (C) 58 P.S.I.
Tool Closed I.C.I.P. From 12:30 M. to 1:00 M. Hr. 30 Min. (D) 1051 P.S.I.
Tool Open F.F.P. From 1:00 M. to 2:30 M. Hr. 1 Hr. 30 Min. From (E) 103 P.S.I. To (F) 183 P.S.I.
Tool Closed F.C.I.P. From 2:30 M. to 3:00 M. Hr. 30 Min. (G) 754 P.S.I.
Initial Hydrostatic Pressure (A) 2217 P.S.I. Final Hydrostatic Pressure (H) 2206 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION _____ _____ _____ M. _____
_____ _____ _____ _____ M. _____
_____ _____ _____ _____ M. _____

BLOW Strong Bottom Choke Size 3/4 In.

Did Well Flow Yes No _____ Recovery Total Ft. 180' heavy oil cut mud; 120' oil cut mud; 60' salt water

Mud Reversed Out Yes No _____ Mud Type starch Viscosity 46 Weight 9.9 Maximum Temp. 130 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size _____ Make _____ Ser. No. _____

Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes

Length Drill Pipe 2943 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1044 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 49 ft.

Remarks Gas to surface in one hour 20 minutes. Too small to measure.

WESTERN TESTING CO., INC.
Pressure Data

Date March 17, 1966

Test Ticket No. 5357

Recorder No. 1566 Capacity 4300 Location 4159 Ft.

Clock No. 5665 Elevation 1519 Derrick Floor Well Temperature 130 °F

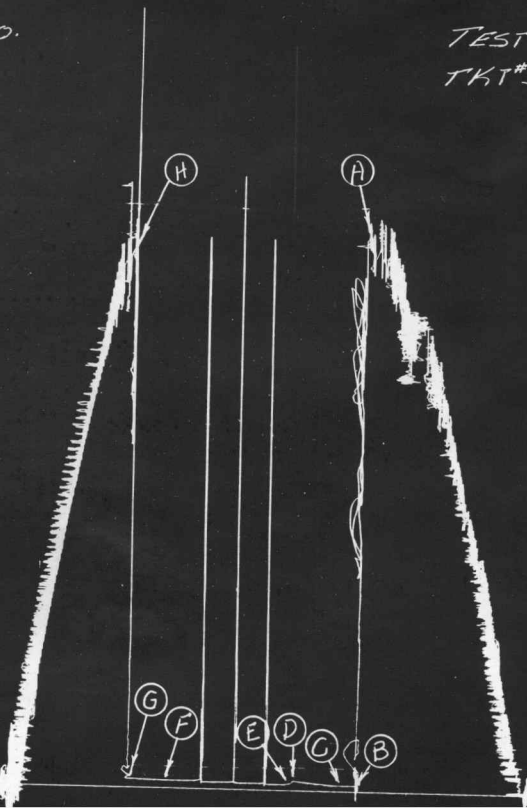
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2217</u> P.S.I.	Opened Tool	<u>12:17</u> P M	
B First Initial Flow Pressure	<u>47</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>58</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
D Initial Closed-in Pressure	<u>1051</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>103</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>29</u> Mins.
F Second Final Flow Pressure	<u>183</u> P.S.I.			
G Final Closed-in Pressure	<u>754</u> P.S.I.			
H Final Hydrostatic Mud	<u>2206</u> P.S.I.			

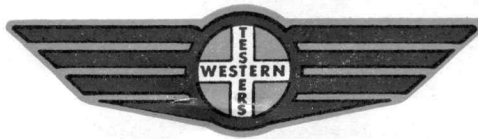
PRESSURE BREAKDOWN

Point Mins.	First Flow Press.	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.	Breakdown: <u>17</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>2</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>47</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>103</u>	<u>0</u>	<u>183</u>
P 2	<u>54</u>	<u>3</u>	<u>146</u>	<u>5</u>	<u>103</u>	<u>3</u>	<u>237</u>
P 3	<u>58</u>	<u>6</u>	<u>233</u>	<u>10</u>	<u>105</u>	<u>6</u>	<u>302</u>
P 4		<u>9</u>	<u>324</u>	<u>15</u>	<u>108</u>	<u>9</u>	<u>363</u>
P 5		<u>12</u>	<u>417</u>	<u>20</u>	<u>118</u>	<u>12</u>	<u>413</u>
P 6		<u>15</u>	<u>529</u>	<u>25</u>	<u>127</u>	<u>15</u>	<u>484</u>
P 7		<u>18</u>	<u>645</u>	<u>30</u>	<u>131</u>	<u>18</u>	<u>542</u>
P 8		<u>21</u>	<u>787</u>	<u>35</u>	<u>138</u>	<u>21</u>	<u>604</u>
P 9		<u>24</u>	<u>920</u>	<u>40</u>	<u>146</u>	<u>24</u>	<u>673</u>
P10		<u>27</u>	<u>1019</u>	<u>45</u>	<u>151</u>	<u>27</u>	<u>739</u>
P11		<u>29</u>	<u>1051</u>	<u>50</u>	<u>157</u>	<u>29</u>	<u>754</u>
P12				<u>55</u>	<u>164</u>		
P13				<u>60</u>	<u>168</u>		
P14				<u>65</u>	<u>172</u>		
P15				<u>70</u>	<u>177</u>		
P16				<u>75</u>	<u>181</u>		
P17				<u>80</u>	<u>182</u>		
P18				<u>85</u>	<u>183</u>		
P19							
P20							

PICKRELL DRAG CO.
M^CCORMICK "B" #1

TEST #5
TKT #5296





Home Office: Great Bend, Kansas
P. O. Box 793 Swift 3-7903

Company Pickrell Drilling Company Lease & Well No. McCormick #B-1
Elevation 1519 Derrick Floor Formation Misener Ticket Number 5296
Date March 19, 1966 Sec. 29 Twp 29 Range 6 County Kingman State Kansas
Test Approved by Ralph W. Ruwe Western Representative George Tew

Formation Test No. 5 O.K. Misrun _____ Interval Tested From 4484' to 4495' Total Depth 4495'
Size Main Hole 7 7/8 Rat Hole none Conv. _____ B.T. Damaged Yes No Conv. B.T. _____ Damaged Yes No
Packer Depth 4484 Ft. Size 6 3/4 Packer Depth 4479 Ft. Size 6 3/4
Straddle Yes No _____ Conv. _____ B.T. _____ Damaged Yes _____ No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 11 Ft. Size 5 1/2 OD

RECORDERS Depth 4488 Ft. Clock No. 6866 Depth 4491 Ft. Clock No. 6896
Top Make Kuster Cap. 4200 No. 1559 Inside Bottom Make Kuster Cap. 4150 No. 2605 Outside
Below Straddle: Depth _____ Clock No. _____ Inside Depth _____ Ft. Clock No. _____ Outside
Top Make _____ Cap. _____ No. _____ Inside Bottom Make _____ Cap. _____ No. _____ Outside

Time Set Packer 9:17 P M

Tool Open I.F.P. From 9:20 M to 9:30 M Hr. 10 Min. From (B) 20 P.S.I. To (C) 20 P.S.I.
Tool Closed I.C.I.P. From 9:30 M to 10:00 M Hr. 30 Min. (D) 35 P.S.I.
Tool Open F.F.P. From 10:00 M to 11:00 M 1 Hr. Min. From (E) 22 P.S.I. To (F) 27 P.S.I.
Tool Closed F.C.I.P. From 11:00 M to 11:30 M Hr. 30 Min. (G) 35 P.S.I.
Initial Hydrostatic Pressure (A) 2291 P.S.I. Final Hydrostatic Pressure (H) 2280 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	<u>1/2 In.</u>			
			<u>M.</u>	
			<u>M.</u>	
			<u>M.</u>	

BLOW Weak for ten minutes. Then died. Bottom Choke Size 3/4 In.

Did Well Flow Yes No _____ Recovery Total Ft. 20' drilling mud Mud

Reversed Out Yes No _____ Mud Type starch Viscosity 42 Weight 9.5 Maximum Temp. 125 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size _____ Make _____ Ser. No. _____

Type Circ. Sub. plug Did Tool Plug? no Where? _____ Did Packer Hold? yes

Length Drill Pipe 3444 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1020 ft. I.D. Weight Pipe 2.7 in Length Drill Collars _____ ft.

I. D. Drill Collars _____ in Length D.S.T. Tool 31 ft.

Remarks Flushed tool at 10 and 30 and 50 minute intervals.

WESTERN TESTING CO., INC.

Pressure Data

Date March 19, 1966 Test Ticket No. 5296
 Recorder No. 1559 Capacity 4200 Location 4488 Ft.
 Clock No. 6866 Elevation 1519 Derrick Floor Well Temperature 125 °F

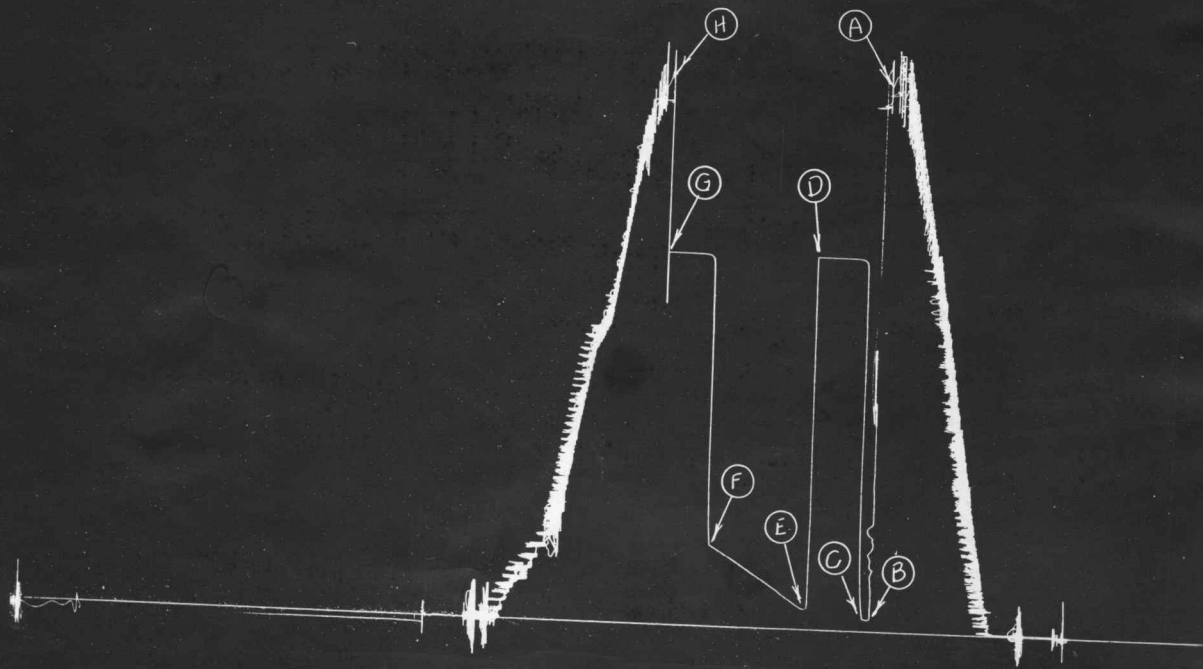
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2291</u>	P.S.I.	<u>9:17 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>20</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>20</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>35</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>22</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>27</u>	P.S.I.		
G Final Closed-in Pressure	<u>35</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2280</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>9</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>0</u>	<u>20</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>27</u>
P 2	<u>5</u>	<u>3</u>	<u>21</u>	<u>5</u>	<u>22</u>	<u>3</u>	<u>27</u>
P 3	<u>10</u>	<u>6</u>	<u>24</u>	<u>10</u>	<u>22</u>	<u>6</u>	<u>28</u>
P 4		<u>9</u>	<u>26</u>	<u>15</u>	<u>25</u>	<u>9</u>	<u>28</u>
P 5		<u>12</u>	<u>27</u>	<u>20</u>	<u>25</u>	<u>12</u>	<u>29</u>
P 6		<u>15</u>	<u>29</u>	<u>25</u>	<u>25</u>	<u>15</u>	<u>30</u>
P 7		<u>18</u>	<u>31</u>	<u>30</u>	<u>25</u>	<u>18</u>	<u>31</u>
P 8		<u>21</u>	<u>32</u>	<u>35</u>	<u>25</u>	<u>21</u>	<u>32</u>
P 9		<u>24</u>	<u>33</u>	<u>40</u>	<u>25</u>	<u>24</u>	<u>33</u>
P10		<u>27</u>	<u>34</u>	<u>45</u>	<u>25</u>	<u>27</u>	<u>35</u>
P11		<u>30</u>	<u>35</u>	<u>50</u>	<u>25</u>		
P12				<u>55</u>	<u>27</u>		
P13				<u>60</u>	<u>27</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

PICKRELL DRIG. CO.
M^cCORMICK "B" #1

TEST # 6
TKT # 5297





Home Office: Great Bend, Kansas
P. O. Box 793 Swift 3-7903

Company Pickrell Drilling Company Lease & Well No. McCormick #B-1
Elevation 1519 Derrick Formation Viola Ticket Number 5297
Date March 20, 1966 Sec. 29 Twp. 29 Range 6 County Kingman State Kansas
Test Approved by Ralph W. Ruwe Western Representative George Tew

Formation Test No. 6 O.K. Misrun Interval Tested From 4494' to 4505' Total Depth 4505'
Size Main Hole 7 7/8 Rat Hole none Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 4494 Ft. Size 6 3/4 Packer Depth 4489 Ft. Size 6 3/4
Straddle Yes No Conv. B.T. Damaged Yes No
Packer Depth _____ Ft. Size _____

Tool Size 5 1/2 OD Tool Jt. Size 4 1/2 FH Anchor Length 11 Ft. Size 5 1/2 OD
RECORDERS Depth 4498 Ft. Clock No. 6866 Depth 4501 Ft. Clock No. 6869
Top Make Kuster Cap. 4200 No. 1559 Inside Bottom Make Kuster Cap. 4150 No. 2605 Inside
Below Straddle: Depth _____ Clock No. Outside Depth _____ Ft. Clock No. Outside
Top Make _____ Cap. _____ No. Inside Bottom Make _____ Cap. _____ No. Outside

Time Set Packer 10:22A M
Tool Open I.F.P. From 10:25 M to 10:30 M Hr. 5 Min. From (B) 48 P.S.I. To (C) 54 P.S.I.
Tool Closed I.C.I.P. From 10:30 M. to 11:00 Hr. 30 Min. (D) 1590 P.S.I.
Tool Open F.F.P. From 11:00 M. to 12:00 M. 1 Hr. Min. From (E) 97 P.S.I. To (F) 344 P.S.I.
Tool Closed F.C.I.P. From 12:00 M. to 12:30 M. Hr. 30 Min. (G) 1590 P.S.I.
Initial Hydrostatic Pressure (A) 2284 P.S.I. Final Hydrostatic Pressure (H) 2273 P.S.I.

SURFACE Size Choke 1/2 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Good 50 blow throughout test. Bottom Choke Size 3/4 In.
Did Well Flow Yes No Recovery Total Ft. 720' total fluid: 60' mud and gas cut oil; 60' very heavy oil cut gassy mud; 60' oil cut watery mud; 540' water . ** Mud
Reversed Out Yes No Mud Type starch Viscosity 50 Weight 9.8 Maximum Temp. 137 °F

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Jars: Size _____ Make _____ Ser. No. _____
Type Circ. Sub. plug Did Tool Plug? _____ Where? _____ Did Packer Hold? _____
Length Drill Pipe 345 ft. I.D. Drill Pipe 3.8 in Length Weight Pipe 1020 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool 31 ft.

Remarks ****3550' gas in pipe - Grindout = 1st 60' 75% oil; 2nd 60' 40% oil.**

WESTERN TESTING CO., INC.
Pressure Data

Date March 20, 1966

Test Ticket No. 5297

Recorder No. 1559 Capacity 4200

Location 4498 Ft.

Clock No. 6866 Elevation 1519 Derrick Floor

Well Temperature 137 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2284</u>	P.S.I.	<u>10:22</u> A M	
B First Initial Flow Pressure	<u>48</u>	P.S.I.	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>54</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1590</u>	P.S.I.	<u>60</u> Mins.	<u>58</u> Mins.
E Second Initial Flow Pressure	<u>87</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>344</u>	P.S.I.		
G Final Closed-in Pressure	<u>1590</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2273</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 3 Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>48</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>87</u>	<u>0</u>	<u>344</u>
P 2 <u>5</u>	<u>54</u>	<u>3</u>	<u>1175</u>	<u>5</u>	<u>96</u>	<u>3</u>	<u>1298</u>
P 3		<u>6</u>	<u>1483</u>	<u>10</u>	<u>117</u>	<u>6</u>	<u>1588</u>
P 4		<u>9</u>	<u>1590</u>	<u>15</u>	<u>142</u>	<u>9</u>	<u>1590</u>
P 5		<u>12</u>	<u>1590</u>	<u>20</u>	<u>173</u>	<u>12</u>	<u>1590</u>
P 6		<u>15</u>	<u>1590</u>	<u>25</u>	<u>196</u>	<u>15</u>	<u>1590</u>
P 7		<u>18</u>	<u>1590</u>	<u>30</u>	<u>219</u>	<u>18</u>	<u>1590</u>
P 8		<u>24</u>	<u>1590</u>	<u>40</u>	<u>265</u>	<u>24</u>	<u>1590</u>
P 9		<u>27</u>	<u>1590</u>	<u>45</u>	<u>290</u>	<u>27</u>	<u>1590</u>
P 10		<u>30</u>	<u>1590</u>	<u>50</u>	<u>311</u>	<u>30</u>	<u>1590</u>
P 10		<u>33</u>	<u>1590</u>	<u>55</u>	<u>332</u>		
P 11				<u>58</u>	<u>344</u>		
P 12							
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							