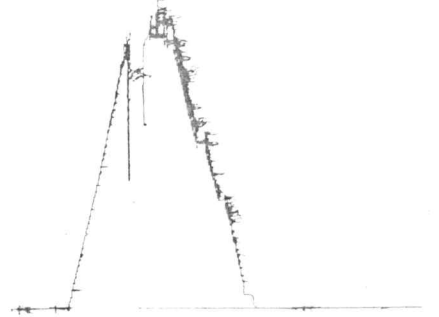


DST #1
#4854

TA # 4854
I

3354



DST #1
#4854

TA # 4854
O

10980



Company National Cooperative Refinery Association Lease & Well No. Buckingham #1
 Elevation 1287 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 4855
 Date 11-30-80 Sec. 20 Twp. 33S Range 1E County Sumner State Kansas
 Test Approved by Earl Baker Western Representative Allen Edgington

Formation Test No. 2 Interval Tested from 3862 ft. to 3875 ft. Total Depth 3875 ft.
 Packer Depth 3857 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3862 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3866 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 3870 ft. Recorder Number 10980 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Dunbar Rig #1 Drill Collar Length 249 I. D. 2 1/4 in.
 Mud Type Chemical Viscosity 55 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 10.8 cc. Drill Pipe Length 3592 I. D. 3.8 in.
 Chlorides 9,000 P.P.M. Test Tool Length 28 ft. Tool Size 4 1/2 OD in.
 Jars: Make WTC Serial Number 401 Anchor Length 13 ft. Size 4 1/2 OD in.
 Did Well Flow? No Reversed Out No 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 FH in.

Blow: Weak blow fifty minutes- thirty minutes into final flow period. Flushed tool. Regained
weak blow (tool slid down two feet) throughout final flow period.

Recovered 190 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:45 ~~A.M.~~ P.M. Time Started Off Bottom 2:00 ~~A.M.~~ P.M. Maximum Temperature 123
 Initial Hydrostatic Pressure 2011 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 57 P.S.I. to (C) 82 P.S.I.
 Initial Closed In Period 45 Minutes (D) 1335 P.S.I.
 Final Flow Period 60 Minutes (E) 95 P.S.I. to (F) 130 P.S.I.
 Final Closed In Period 120 Minutes (G) 1430 P.S.I.
 Final Hydrostatic Pressure 1947 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 11-30-80 Recorder No. 3354 Capacity 4200 Test Ticket No. 4855
 Location 3866 Ft. Elevation 1287 Kelly Bushing Well Temperature 123 °F
 Clock No. -

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2011</u>	P.S.I.	<u>9:45P</u>	<u>M</u>
B First Initial Flow Pressure	<u>57</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>82</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1335</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>95</u>	P.S.I.	<u>120</u>	<u>120</u> Mins.
F Second Final Flow Pressure	<u>130</u>	P.S.I.		
G Final Closed-in Pressure	<u>1430</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1947</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	<u>6</u>		<u>15</u>		<u>12</u>		<u>40</u>	
	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>57</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>130</u>	
P 2	<u>65</u>	<u>3</u>	<u>333</u>	<u>5</u>	<u>Plugged Tool</u>	<u>3</u>	<u>409</u>	
P 3	<u>65</u>	<u>6</u>	<u>635</u>	<u>10</u>	<u>Plugged Tool</u>	<u>6</u>	<u>637</u>	
P 4	<u>70</u>	<u>9</u>	<u>806</u>	<u>15</u>	<u>Plugged Tool</u>	<u>9</u>	<u>791</u>	
P 5	<u>74</u>	<u>12</u>	<u>928</u>	<u>20</u>	<u>Plugged Tool</u>	<u>12</u>	<u>916</u>	
P 6	<u>78</u>	<u>15</u>	<u>1015</u>	<u>25</u>	<u>Flushed Tool</u>	<u>15</u>	<u>1002</u>	
P 7	<u>82</u>	<u>18</u>	<u>1078</u>	<u>30</u>	<u>110</u>	<u>18</u>	<u>1068</u>	
P 8		<u>21</u>	<u>1129</u>	<u>35</u>	<u>112</u>	<u>21</u>	<u>1116</u>	
P 9		<u>24</u>	<u>1173</u>	<u>40</u>	<u>114</u>	<u>24</u>	<u>1160</u>	
P10		<u>27</u>	<u>1209</u>	<u>45</u>	<u>118</u>	<u>27</u>	<u>1194</u>	
P11		<u>30</u>	<u>1238</u>	<u>50</u>	<u>122</u>	<u>30</u>	<u>1219</u>	
P12		<u>33</u>	<u>1264</u>	<u>55</u>	<u>127</u>	<u>33</u>	<u>1245</u>	
P13		<u>36</u>	<u>1287</u>	<u>60</u>	<u>130</u>	<u>36</u>	<u>1262</u>	
P14		<u>39</u>	<u>1309</u>			<u>39</u>	<u>1276</u>	
P15		<u>42</u>	<u>1325</u>			<u>42</u>	<u>1293</u>	
P16		<u>45</u>	<u>1335</u>			<u>45</u>	<u>1306</u>	
P17						<u>48</u>	<u>1316</u>	
P18						<u>51</u>	<u>1329</u>	
P19						<u>54</u>	<u>1338</u>	
P20						<u>57</u>	<u>1346</u>	
						<u>60</u>	<u>1354</u>	

WESTERN TESTING CO., INC.

Pressure Data

Date 11-30-80

Test Ticket No. 4855

Recorder No. 3354

Capacity 4200

Location 3866 Ft.

Clock No. -

Elevation 1287 Kelly Bushing

Well Temperature 123 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>2011</u>	P.S.I.
B First Initial Flow Pressure	<u>57</u>	P.S.I.
C First Final Flow Pressure	<u>82</u>	P.S.I.
D Initial Closed-in Pressure	<u>1335</u>	P.S.I.
E Second Initial Flow Pressure	<u>95</u>	P.S.I.
F Second Final Flow Pressure	<u>130</u>	P.S.I.
G Final Closed-in Pressure	<u>1430</u>	P.S.I.
H Final Hydrostatic Mud	<u>1947</u>	P.S.I.

Open Tool
 First Flow Pressure
 Initial Closed-in Pressure
 Second Flow Pressure
 Final Closed-in Pressure

Time Given	Time Computed
<u>9:45P</u>	<u>M</u>
<u>30</u> Mins.	<u>30</u> Mins.
<u>45</u> Mins.	<u>45</u> Mins.
<u>60</u> Mins.	<u>60</u> Mins.
<u>120</u> Mins.	<u>120</u> Mins.

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 40 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>63</u>	<u>1361</u>
P 2						<u>66</u>	<u>1367</u>
P 3						<u>69</u>	<u>1373</u>
P 4						<u>72</u>	<u>1378</u>
P 5						<u>75</u>	<u>1382</u>
P 6						<u>78</u>	<u>1386</u>
P 7						<u>81</u>	<u>1391</u>
P 8						<u>84</u>	<u>1395</u>
P 9						<u>87</u>	<u>1399</u>
P10						<u>90</u>	<u>1403</u>
P11						<u>93</u>	<u>1406</u>
P12						<u>96</u>	<u>1410</u>
P13						<u>99</u>	<u>1413</u>
P14						<u>102</u>	<u>1416</u>
P15						<u>105</u>	<u>1420</u>
P16						<u>108</u>	<u>1422</u>
P17						<u>111</u>	<u>1424</u>
P18						<u>114</u>	<u>1426</u>
P19						<u>117</u>	<u>1428</u>
P20						<u>120</u>	<u>1430</u>

DST #2
4855

TK #4855
I

1522

