



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

Company Tomlinson Oil Co., Inc. Lease & Well No. Broadie #1
 Elevation 1949 Kelly Bush. Formation Morrow Effective Pay - Ft. Ticket No. 21706
 Date 11-4-76 Sec. 21 Twp. 33S Range 22W County Clark State Kansas
 Test Approved by Craig Caulk Western Representative Bill Hager

Formation Test No. 1 O.K. Misrun Interval Tested From 5292' to 5420' Total Depth 5420'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 5287 Ft. Size 6 3/4 Bottom Packer Depth 5292 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 128 Ft. Size 41-5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5314 Ft. Clock No. 4763 Depth 5317 Ft. Clock No. 9712
 Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4000 No. 3660 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 1:41A. M
 Tool Open I.F.P. From 1:43A M. to 2:13A M. - Hr. 30 Min. From (B) 43 P.S.I. To (C) 53 P.S.I.
 Tool Closed I.C.I.P. From 2:13A M. to 3:13A M. - Hr. 60 Min (D) 108 P.S.I.
 Tool Open F.F.P. From 3:13A M. to 3:28A M. - Hr. 15 Min. From (E) 53 P.S.I. To (F) 56 P.S.I.
 Tool Closed F.C.I.P. From 3:28A M. to 4:58A M. - Hr. 90 Min. (G) 100 P.S.I.
 Initial Hydrostatic Pressure (A) 2517 P.S.I. Final Hydrostatic Pressure (H) 2511 P.S.I. Maximum Temp. 126

INFORMATION

BLOW Very weak blow for 30 minutes.

Did Well Flow Yes No Recovery Total Ft. 65' of drilling mud.

Reversed Out Yes No Mud Type Driscopac Viscosity 44 Weight 9.0 Water Loss 10.6 cc. Chlorides 8000 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 Gabbert-Jones, Inc. Length Drill Pipe? 4887 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 383 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 Length D.S.T. Tool 150 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 11-4-76 Test Ticket No. 21706
 Recorder No. 2604 Capacity 4150 Location 5314 Ft.
 Clock No. 4763 Elevation 1949 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2517</u> P.S.I.	Open Tool	<u>1:41A.</u> M	
B First Initial Flow Pressure	<u>43</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>53</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>108</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>53</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>56</u> P.S.I.			
G Final Closed-in Pressure	<u>100</u> P.S.I.			
H Final Hydrostatic Mud	<u>2511</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.
	of <u>6</u> mins. and a		of <u>20</u> mins. and a		of <u>3</u> mins. and a		of <u>30</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>43</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>56</u>	
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>53</u>	<u>5</u>	<u>52</u>	<u>3</u>	<u>60</u>	
P 3 <u>10</u>	<u>45</u>	<u>6</u>	<u>56</u>	<u>10</u>	<u>53</u>	<u>6</u>	<u>62</u>	
P 4 <u>15</u>	<u>46</u>	<u>9</u>	<u>60</u>	<u>15</u>	<u>56</u>	<u>9</u>	<u>63</u>	
P 5 <u>20</u>	<u>51</u>	<u>12</u>	<u>63</u>			<u>12</u>	<u>64</u>	
P 6 <u>25</u>	<u>47</u>	<u>15</u>	<u>66</u>			<u>15</u>	<u>66</u>	
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>70</u>			<u>18</u>	<u>67</u>	
P 8		<u>21</u>	<u>72</u>			<u>21</u>	<u>69</u>	
P 9		<u>24</u>	<u>75</u>			<u>24</u>	<u>70</u>	
P10		<u>27</u>	<u>78</u>			<u>27</u>	<u>71</u>	
P11		<u>30</u>	<u>80</u>			<u>30</u>	<u>72</u>	
P12		<u>33</u>	<u>83</u>			<u>33</u>	<u>75</u>	
P13		<u>36</u>	<u>85</u>			<u>36</u>	<u>77</u>	
P14		<u>39</u>	<u>89</u>			<u>39</u>	<u>78</u>	
P15		<u>42</u>	<u>92</u>			<u>42</u>	<u>79</u>	
P16		<u>45</u>	<u>94</u>			<u>45</u>	<u>80</u>	
P17		<u>48</u>	<u>96</u>			<u>48</u>	<u>82</u>	
P18		<u>51</u>	<u>99</u>			<u>51</u>	<u>83</u>	
P19		<u>54</u>	<u>102</u>			<u>54</u>	<u>85</u>	
P20		<u>57</u>	<u>105</u>			<u>57</u>	<u>86</u>	
		<u>60</u>	<u>108</u>			<u>60</u>	<u>87</u>	

WESTERN TESTING CO., INC.

Pressure Data

Date 11-4-76

Test Ticket No. 21706

Recorder No. 2604 Capacity 4150 Location 6314 Ft.

Clock No. 4763 Elevation 1949 Kelly Bushing Well Temperature 126 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2517</u>	P.S.I.	Open Tool	<u>1:41A.</u>	<u>M</u>
B First Initial Flow Pressure	<u>43</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>53</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>60</u>
D Initial Closed-in Pressure	<u>108</u>	P.S.I.	Second Flow Pressure	<u>15</u>	<u>15</u>
E Second Initial Flow Pressure	<u>53</u>	P.S.I.	Final Closed-in Pressure	<u>90</u>	<u>87</u>
F Second Final Flow Pressure	<u>56</u>	P.S.I.			
G Final Closed-in Pressure	<u>100</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2511</u>	P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1				<u>63</u>
P 2				<u>66</u>
P 3				<u>69</u>
P 4				<u>72</u>
P 5				<u>75</u>
P 6				<u>78</u>
P 7				<u>81</u>
P 8				<u>84</u>
P 9				<u>87</u>
P10				
P11				
P12				
P13				
P14				
P15				
P16				
P17				
P18				
P19				
P20				

TKT # 21706

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