

Company Murfin Drilling Company Lease & Well No. Burmeister #1-14
Elevation 2018 Kelly Bushing Kinderhook Formation ----- Effective Pay ----- Ft. Ticket No. 6150
Date 7/28/80 Sec. 14 Twp. 24S Range 15W County Stafford State Kansas
Test Approved by George R. Dent Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4055 ft. to 4160 ft. Total Depth 4160 ft.

Packer Depth 4050 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4055 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4058 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4061 ft. Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling

Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 45

Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 11.2 cc.

Drill Pipe Length 4097 I. D. 3.8 in.

Chlorides 16,000 P.P.M.

Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number --

Anchor Length 43 + 62 D.P. ft. Size 5 1/2 OD 4 1/2 in.

Did Well Flow? No Reversed Out -

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: Very weak; died in twenty minutes on initial flow period. No blow on final flow.

Recovered 20 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:40 ~~A.M.~~ P.M. Time Started Off Bottom 9:40 ~~A.M.~~ P.M. Maximum Temperature 118°

Initial Hydrostatic Pressure (A) 2504 P.S.I.

Initial Flow Period Minutes 30 (B) 112 P.S.I. to (C) 68 P.S.I.

Initial Closed In Period Minutes 30 (D) 60 P.S.I.

Final Flow Period Minutes 30 (E) 60 P.S.I. to (F) 58 P.S.I.

Final Closed In Period Minutes 27 (G) 72 P.S.I.

Final Hydrostatic Pressure (H) 2487 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7/28/80 Test Ticket No. 6150
 Recorder No. 2606 Capacity 4150 Location 4058 Ft.
 Clock No. - Elevation 2018 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2504	P.S.I.	7:40P	M
B First Initial Flow Pressure	112	P.S.I.	30	Mins.
C First Final Flow Pressure	68	P.S.I.	30	Mins.
D Initial Closed-in Pressure	60	P.S.I.	30	Mins.
E Second Initial Flow Pressure	60	P.S.I.	30	Mins.
F Second Final Flow Pressure	58	P.S.I.	30	Mins.
G Final Closed-in Pressure	72	P.S.I.		
H Final Hydrostatic Mud	2487	P.S.I.		

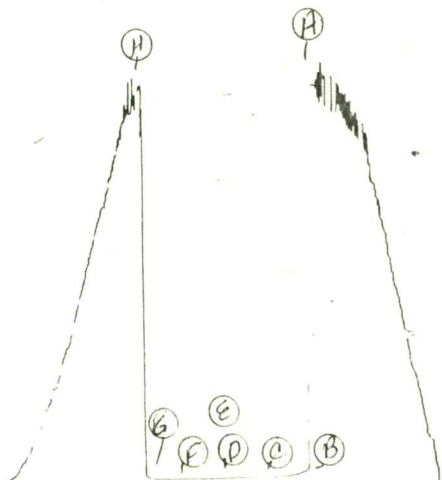
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</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>112</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>58</u>
P 2 <u>5</u>	<u>100</u>	<u>3</u>	<u>68</u>	<u>5</u>	<u>60</u>	<u>3</u>	<u>58</u>
P 3 <u>10</u>	<u>85</u>	<u>6</u>	<u>67</u>	<u>10</u>	<u>59</u>	<u>6</u>	<u>58</u>
P 4 <u>15</u>	<u>80</u>	<u>9</u>	<u>66</u>	<u>15</u>	<u>58</u>	<u>9</u>	<u>58</u>
P 5 <u>20</u>	<u>73</u>	<u>12</u>	<u>65</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>58</u>
P 6 <u>25</u>	<u>70</u>	<u>15</u>	<u>65</u>	<u>25</u>	<u>58</u>	<u>15</u>	<u>58</u>
P 7 <u>30</u>	<u>68</u>	<u>18</u>	<u>64</u>	<u>30</u>	<u>58</u>	<u>18</u>	<u>56</u>
P 8 _____		<u>21</u>	<u>63</u>			<u>21</u>	<u>55</u>
P 9 _____		<u>24</u>	<u>62</u>			<u>24</u>	<u>63</u>
P10 _____		<u>27</u>	<u>61</u>			<u>27</u>	<u>72</u>
P11 _____		<u>30</u>	<u>60</u>				
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

2606 VST #1

SKT # 6150

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Company Murfin Drilling Company Lease & Well No. Burmeister #1-14
Elevation 2018 Kelly Bushing Formation Simpson Effective Pay --- Ft. Ticket No. 6322
Date 7/29/80 Sec. 14 Twp. 24S Range 15W County Stafford State Kansas
Test Approved by George R. Dent Western Representative Roger Mounts

Formation Test No. 2 Interval Tested from 4204 ft. to 4310 ft. Total Depth 4310 ft.

Packer Depth 4259 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4264 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4266 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4269 ft. Recorder Number 3086 Cap. 4500

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length - I. D. 2.2 in.

Mud Type starch Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 13.3 cc. Drill Pipe Length 4243 I. D. 3.8 in.

Chlorides 20,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number - Anchor Length 46 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out - 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: _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____ MISRUN

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOOL STOPPED AT FIVE HUNDRED SEVENTY FIVE FEET OFF BOTTOM. COME OUT AND LAID TOOL DOWN AND CONDITIONED HOLE.

NO PRESSURES AVAILABLE

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____

Initial Hydrostatic Pressure _____ (A) _____ P.S.I.

Initial Flow Period _____ Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.

Initial Closed In Period _____ Minutes _____ (D) _____ P.S.I.

Final Flow Period _____ Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.

Final Closed In Period _____ Minutes _____ (G) _____ P.S.I.

Final Hydrostatic Pressure _____ (H) _____ P.S.I.

SKT # 6322

1566

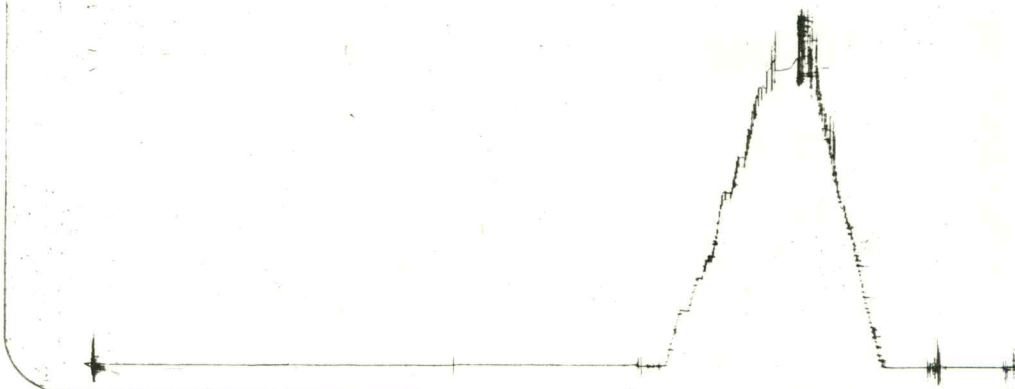
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SKT # 6322

3086

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Company Murfin Drilling Company Lease & Well No. Burmeister #1-14
Elevation 2018 Kelly Bushing Formation Simpson Effective Pay ---- Ft. Ticket No. 6323
Date 7/30/80 Sec. 14 Twp. 24S Range. 15W County. Stafford State. Kansas
Test Approved by George R. Dent Western Representative Roger Mounts

Formation Test No. 3 Interval Tested from 4264 ft. to 4310 ft. Total Depth 4310 ft.

Packer Depth 4259 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4264 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4266 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4269 ft. Recorder Number 3086 Cap. 4500

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 53 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 11.8 cc. Drill Pipe Length 4243 I. D. 3.8 in.

Chlorides 17,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number - Anchor Length 46 ft. Size 5 1/2 OD in.

Did Well Flow? - Reversed Out - 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: Good building blow off bottom in twenty-six minutes initial flow period. Same blow final flow priod.

Recovered 380 ft. of muddy water

Recovered 90 ft. of sulfurous muddy water

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 11:16 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 2:46 ~~P.M.~~ ^{A.M.} Maximum Temperature 118°

Initial Hydrostatic Pressure (A) 2130 P.S.I.

Initial Flow Period Minutes 45 (B) 71 P.S.I. to (C) 91 P.S.I.

Initial Closed In Period Minutes 45 (D) 1362 P.S.I.

Final Flow Period Minutes 60 (E) 123 P.S.I. to (F) 179 P.S.I.

Final Closed In Period Minutes 60 (G) 1339 P.S.I.

Final Hydrostatic Pressure (H) 2097 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7-30-80 Test Ticket No. 6323
 Recorder No. 1566 Capacity 4300 Location 4266 Ft.
 Clock No. ----- Elevation 2018 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2130	P.S.I.	11:16 AM	
B First Initial Flow Pressure	71	P.S.I.	45 Mins.	45 Mins.
C First Final Flow Pressure	91	P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1362	P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	123	P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	179	P.S.I.		
G Final Closed-in Pressure	1339	P.S.I.		
H Final Hydrostatic Mud	2097	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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>71</u>	<u>0</u>	<u>91</u>	<u>0</u>	<u>123</u>	<u>0</u>	<u>179</u>
P 2 <u>5</u>	<u>60</u>	<u>3</u>	<u>836</u>	<u>5</u>	<u>120</u>	<u>3</u>	<u>946</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>1120</u>	<u>10</u>	<u>123</u>	<u>6</u>	<u>1094</u>
P 4 <u>15</u>	<u>59</u>	<u>9</u>	<u>1190</u>	<u>15</u>	<u>127</u>	<u>9</u>	<u>1174</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>1229</u>	<u>20</u>	<u>132</u>	<u>12</u>	<u>1188</u>
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>1259</u>	<u>25</u>	<u>138</u>	<u>15</u>	<u>1216</u>
P 7 <u>30</u>	<u>65</u>	<u>18</u>	<u>1280</u>	<u>30</u>	<u>140</u>	<u>18</u>	<u>1233</u>
P 8 <u>35</u>	<u>76</u>	<u>21</u>	<u>1298</u>	<u>35</u>	<u>141</u>	<u>21</u>	<u>1250</u>
P 9 <u>40</u>	<u>82</u>	<u>24</u>	<u>1311</u>	<u>40</u>	<u>149</u>	<u>24</u>	<u>1266</u>
P10 <u>45</u>	<u>91</u>	<u>27</u>	<u>1322</u>	<u>45</u>	<u>153</u>	<u>27</u>	<u>1276</u>
P11		<u>30</u>	<u>1330</u>	<u>50</u>	<u>162</u>	<u>30</u>	<u>1285</u>
P12		<u>33</u>	<u>1338</u>	<u>55</u>	<u>173</u>	<u>33</u>	<u>1294</u>
P13		<u>36</u>	<u>1345</u>	<u>60</u>	<u>179</u>	<u>36</u>	<u>1302</u>
P14		<u>39</u>	<u>1349</u>			<u>39</u>	<u>1308</u>
P15		<u>42</u>	<u>1354</u>			<u>42</u>	<u>1315</u>
P16		<u>45</u>	<u>1362</u>			<u>45</u>	<u>1320</u>
P17						<u>48</u>	<u>1324</u>
P18						<u>51</u>	<u>1328</u>
P19						<u>54</u>	<u>1332</u>
P20						<u>57</u>	<u>1336</u>
						<u>60</u>	<u>1339</u>

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