

Company Kansas Oil Corporation Lease & Well No. Hoskinson #1
 Elevation 1862 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 6899
 Date 11/26/80 Sec. 1 Twp. 26S Range 12W County Pratt State Kansas
 Test Approved by Dick Stoneburner Western Representative Rodger A. Mounts

Formation Test No. 1 Interval Tested from 3617 ft. to 3635 ft. Total Depth 3635 ft.
 Packer Depth 3612 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3617 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3622 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 3635 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Sparton Drlg. Rig #2 Drill Collar Length 284 I. D. 2.2 in.
 Mud Type drispac Viscosity 53 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 6.4 cc. Drill Pipe Length 3313 I. D. 3.8 in.
 Chlorides 21,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 18 ft. Size 5 1/2 OD in.
 Did Well Flow? Yes 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 XH in.

Blow: Good strong blow. Gas to surface five minutes on initial flow period. Same
slow final flow period. See attached sheet for gas measurements.

Recovered 90 ft. of heavy oil and gas cut mud (35% mud;25%water;15% oil;25% gas)
 Recovered 60 ft. of heavy oil and gas cut mud (8% mud;32% water;40% oil;10% gas)
 Recovered 60 ft. of heavy oil adn gas cut mud (10% mud;35% water;40% oil;10% gas)
 Recovered 60 ft. of oil cut salt water (10% mud;85% water;5% oil)
 Recovered 60 ft. of salt water Chlorides 110,000 ppm
 Remarks: Tool slid ten feet to bottom

Time Set Packer(s) 5:18 ^{AM} P.M. Time Started Off Bottom 8:18 ^{AM} P.M. Maximum Temperature 106
 Initial Hydrostatic Pressure (A) 1757 P.S.I.
 Initial Flow Period Minutes 35 (B) 78 P.S.I. to (C) 89 P.S.I.
 Initial Closed In Period Minutes 66 (D) 1296 P.S.I.
 Final Flow Period Minutes 30 (E) 97 P.S.I. to (F) 112 P.S.I.
 Final Closed In Period Minutes 66 (G) 1285 P.S.I.
 Final Hydrostatic Pressure (H) 1729 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/26/80 Test Ticket No. 6899
 Recorder No. 1566 Capacity 4300 Location 3622 Ft.
 Clock No. -- Elevation 1862 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1757</u> P.S.I.	Open Tool	<u>5:18P</u> M	
B First Initial Flow Pressure	<u>78</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>89</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
D Initial Closed-in Pressure	<u>1296</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>97</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>112</u> P.S.I.			
G Final Closed-in Pressure	<u>1285</u> P.S.I.			
H Final Hydrostatic Mud	<u>1729</u> P.S.I.			

PRESSURE BREAKDOWN

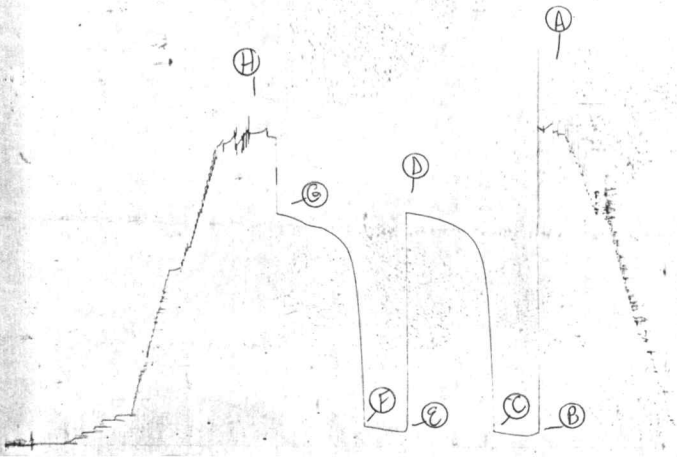
Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>7</u> mins. and a final inc. of <u>0</u> Min.		of <u>22</u> mins. and a final inc. of <u>0</u> Min.		of <u>6</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a 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>78</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>112</u>	
P 2 <u>5</u>	<u>69</u>	<u>3</u>	<u>598</u>	<u>5</u>	<u>84</u>	<u>3</u>	<u>541</u>	
P 3 <u>10</u>	<u>65</u>	<u>6</u>	<u>890</u>	<u>10</u>	<u>89</u>	<u>6</u>	<u>787</u>	
P 4 <u>15</u>	<u>67</u>	<u>9</u>	<u>1024</u>	<u>15</u>	<u>93</u>	<u>9</u>	<u>951</u>	
P 5 <u>20</u>	<u>71</u>	<u>12</u>	<u>1096</u>	<u>20</u>	<u>99</u>	<u>12</u>	<u>1054</u>	
P 6 <u>25</u>	<u>78</u>	<u>15</u>	<u>1139</u>	<u>25</u>	<u>107</u>	<u>15</u>	<u>1103</u>	
P 7 <u>30</u>	<u>86</u>	<u>18</u>	<u>1165</u>	<u>30</u>	<u>112</u>	<u>18</u>	<u>1133</u>	
P 8 <u>35</u>	<u>89</u>	<u>21</u>	<u>1186</u>			<u>21</u>	<u>1154</u>	
P 9		<u>24</u>	<u>1203</u>			<u>24</u>	<u>1173</u>	
P10		<u>27</u>	<u>1216</u>			<u>27</u>	<u>1186</u>	
P11		<u>30</u>	<u>1229</u>			<u>30</u>	<u>1199</u>	
P12		<u>33</u>	<u>1240</u>			<u>33</u>	<u>1210</u>	
P13		<u>36</u>	<u>1248</u>			<u>36</u>	<u>1215</u>	
P14		<u>39</u>	<u>1257</u>			<u>39</u>	<u>1218</u>	
P15		<u>42</u>	<u>1264</u>			<u>42</u>	<u>1223</u>	
P16		<u>45</u>	<u>1270</u>			<u>45</u>	<u>1233</u>	
P17		<u>48</u>	<u>1276</u>			<u>48</u>	<u>1246</u>	
P18		<u>51</u>	<u>1279</u>			<u>51</u>	<u>1257</u>	
P19		<u>54</u>	<u>1285</u>			<u>54</u>	<u>1266</u>	
P20		<u>57</u>	<u>1287</u>			<u>57</u>	<u>1272</u>	
		<u>60</u>	<u>1291</u>			<u>60</u>	<u>1279</u>	
		<u>63</u>	<u>1294</u>			<u>63</u>	<u>1283</u>	
		<u>66</u>	<u>1296</u>			<u>66</u>	<u>1285</u>	

TKT # 6899

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1566

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Company Kansas Oil Corporation Lease & Well No. Hoskinson #1
 Elevation 1862 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 8567
 Date 11/27/80 Sec. 1 Twp. 26S Range 12W County Pratt State Kansas
 Test Approved by Dick Stoneburner Western Representative Stuart Stover

Formation Test No. 2 Interval Tested from 3648 ft. to 3668 ft. Total Depth 3668 ft.
 Packer Depth 3643 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3648 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3653 ft. Recorder Number 11018 Cap. 4425
 Bottom Recorder Depth (Outside) 3658 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Spartan Drlg. Rig #2 Drill Collar Length 217 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 53 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 6.4 cc. Drill Pipe Length 3410 I. D. 4.0 in.
 Chlorides 21,000 P.P.M. Test Tool Length 21 ft. Tool Size 3 1/2 in.
 Jars: Make - Serial Number - Anchor Length 20 ft. Size 4 1/2 in.
 Did Well Flow? - Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow.

Recovered 65 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 4:15 A.M. P.M. Time Started Off Bottom 6:15 A.M. P.M. Maximum Temperature -
 Initial Hydrostatic Pressure (A) 1802 P.S.I.
 Initial Flow Period Minutes 30 (B) 129 P.S.I. to (C) 111 P.S.I.
 Initial Closed In Period Minutes 27 (D) 1154 P.S.I.
 Final Flow Period Minutes 30 (E) 136 P.S.I. to (F) 117 P.S.I.
 Final Closed In Period Minutes 36 (G) 600 P.S.I.
 Final Hydrostatic Pressure (H) 1780 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 11/27/80

Test Ticket No. 8567

Recorder No. 11018

Capacity 4425

Location 3653 Ft.

Clock No. --- Elevation

1862 Kelly Bushing

Well Temperature -- °F

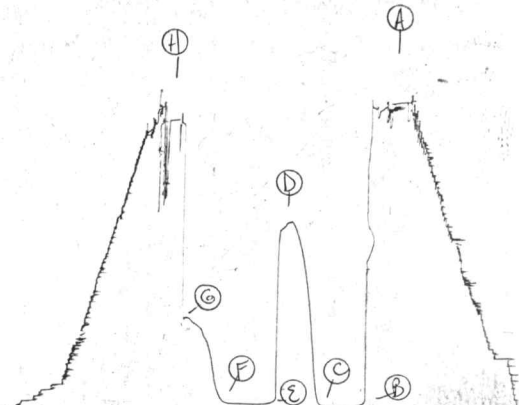
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1802	P.S.I.	4:15 P M	
B First Initial Flow Pressure	129	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	111	P.S.I.	30 Mins.	27 Mins.
D Initial Closed-in Pressure	1154	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	136	P.S.I.	30 Mins.	36 Mins.
F Second Final Flow Pressure	117	P.S.I.		
G Final Closed-in Pressure	600	P.S.I.		
H Final Hydrostatic Mud	1780	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.
	6		9		6		12	
	of 5 mins.	and a	of 3 mins.	and a	of 5 mins.	and a	of 3 mins.	and a
	final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	129	0	111	0	136	0	117	
P 2 5	116	3	120	5	124	3	118	
P 3 10	113	6	189	10	118	6	120	
P 4 15	111	9	462	15	117	9	129	
P 5 20	111	12	712	20	117	12	160	
P 6 25	111	15	896	25	117	15	238	
P 7 30	111	18	1015	30	117	18	376	
P 8		21	1095			21	458	
P 9		24	1154			24	507	
P10		27	1154			27	546	
P11						30	564	
P12						33	584	
P13						36	600	
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 8567
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11018-8567



Company Kansas Oil Corporation Lease & Well No. Hoskinson #1
 Elevation 1862 Kelly Bushing Formation - Effective Pay ---- Ft. Ticket No. 8483
 Date 11/28/80 Sec. 1 Twp. 26S Range 12W County Pratt State Kansas
 Test Approved by Dick Stoneburner Western Representative Rod Tritt

Formation Test No. 3 Interval Tested from 3800 ft. to 3824 ft. Total Depth 3824 ft.
 Packer Depth 3795 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3800 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3804 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 3807 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Spartan Drlg. Rig #2 Drill Collar Length 230 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 10.4 cc. Drill Pipe Length 2550 I. D. 3.8 in.
 Chlorides 31,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 24 ft. Size 5 1/2 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 increasing to good blow on initial flow. Good blow throughout final flow period.

Recovered 300 ft. of muddy water Chlorides 85,000 ppm
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: Hit a tight hole on the last two hundred feet to bottom.

Time Set Packer(s) 7:50 ~~A.M.~~ P.M. Time Started Off Bottom 10:50 ~~A.M.~~ P.M. Maximum Temperature 118°
 Initial Hydrostatic Pressure (A) 1878 P.S.I.
 Initial Flow Period Minutes 30 (B) 110 P.S.I. to (C) 127 P.S.I.
 Initial Closed In Period Minutes 63 (D) 1381 P.S.I.
 Final Flow Period Minutes 30 (E) 181 P.S.I. to (F) 173 P.S.I.
 Final Closed In Period Minutes 69 (G) 1371 P.S.I.
 Final Hydrostatic Pressure (H) 1832 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/28/80 Test Ticket No. 8483
 Recorder No. 2606 Capacity 4150 Location 3804 Ft.
 Clock No. -- Elevation 1862 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1878</u>	P.S.I.	<u>7:50P</u>	<u>M</u>
B First Initial Flow Pressure	<u>110</u>	P.S.I.	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>127</u>	P.S.I.	<u>60</u>	<u>63</u>
D Initial Closed-in Pressure	<u>1381</u>	P.S.I.	<u>30</u>	<u>30</u>
E Second Initial Flow Pressure	<u>181</u>	P.S.I.	<u>60</u>	<u>69</u>
F Second Final Flow Pressure	<u>173</u>	P.S.I.		
G Final Closed-in Pressure	<u>1371</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1832</u>	P.S.I.		

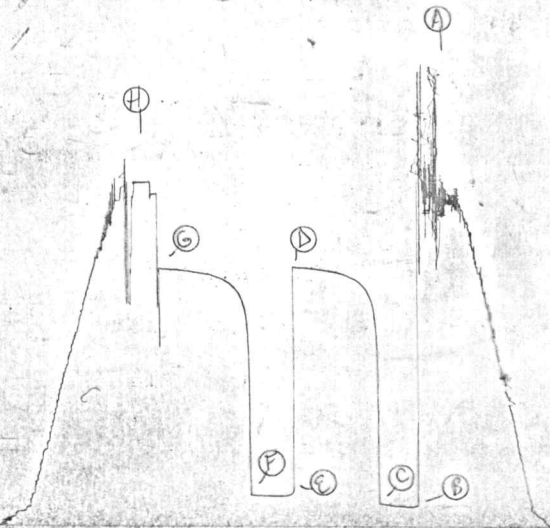
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>23</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>127</u>	<u>0</u>	<u>181</u>	<u>0</u>	<u>173</u>
P 2	<u>5</u>	<u>3</u>	<u>1060</u>	<u>5</u>	<u>171</u>	<u>3</u>	<u>1041</u>
P 3	<u>10</u>	<u>6</u>	<u>1188</u>	<u>10</u>	<u>171</u>	<u>6</u>	<u>1184</u>
P 4	<u>15</u>	<u>9</u>	<u>1242</u>	<u>15</u>	<u>171</u>	<u>9</u>	<u>1234</u>
P 5	<u>20</u>	<u>12</u>	<u>1273</u>	<u>20</u>	<u>171</u>	<u>12</u>	<u>1263</u>
P 6	<u>25</u>	<u>15</u>	<u>1296</u>	<u>25</u>	<u>171</u>	<u>15</u>	<u>1286</u>
P 7	<u>30</u>	<u>18</u>	<u>1311</u>	<u>30</u>	<u>173</u>	<u>18</u>	<u>1300</u>
P 8		<u>21</u>	<u>1323</u>			<u>21</u>	<u>1313</u>
P 9		<u>24</u>	<u>1334</u>			<u>24</u>	<u>1323</u>
P10		<u>27</u>	<u>1342</u>			<u>27</u>	<u>1329</u>
P11		<u>30</u>	<u>1350</u>			<u>30</u>	<u>1340</u>
P12		<u>33</u>	<u>1356</u>			<u>33</u>	<u>1344</u>
P13		<u>36</u>	<u>1361</u>			<u>36</u>	<u>1348</u>
P14		<u>39</u>	<u>1364</u>			<u>39</u>	<u>1350</u>
P15		<u>42</u>	<u>1366</u>			<u>42</u>	<u>1355</u>
P16		<u>45</u>	<u>1368</u>			<u>45</u>	<u>1359</u>
P17		<u>48</u>	<u>1370</u>			<u>48</u>	<u>1361</u>
P18		<u>51</u>	<u>1372</u>			<u>51</u>	<u>1364</u>
P19		<u>54</u>	<u>1374</u>			<u>54</u>	<u>1367</u>
P20		<u>57</u>	<u>1376</u>			<u>57</u>	<u>1368</u>
		<u>60</u>	<u>1378</u>			<u>60</u>	<u>1369</u>
		<u>63</u>	<u>1381</u>			<u>63</u>	<u>1370</u>
						<u>66</u>	<u>1371</u>
						<u>69</u>	<u>1371</u>

2606 D.S. #3.

TKT # 8483

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Company Kansas Oil Corporation Lease & Well No. Hoskinson #1
 Elevation 1862 Kelly Bushing Formation Viola Effective Pay -- Ft. Ticket No. 830
 Date 11/30/80 Sec. 1 Twp. 26S Range 12W County Pratt State Kansas
 Test Approved by Dick Stoneburner Western Representative Jeff Piotrowski

Formation Test No. 4 Interval Tested from 4120 ft. to 4131 ft. Total Depth 4131 ft.
 Packer Depth 4115 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4120 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4123 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 4128 ft. Recorder Number 1565 Cap. 4900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Spartan Drlg. Rig #2 Drill Collar Length 210 I. D. 2.2 in.

Mud Type drispac Viscosity 47 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 18.4 cc. Drill Pipe Length 3890 I. D. 3.8 in.

Chlorides 28,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 11 ft. Size 5 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

Blow: Fair slowly building to strong initial flow period. No blow on final flow period.

Recovered 240 ft. of mud Chlorides 33,000 ppm Top, Middle &

Recovered 180 ft. of gas cut mud Bottom

Recovered 120 ft. of gas and slightly oil cut mud

Recovered - ft. of -

Recovered - ft. of -

Remarks: Slid tool ten feet to bottom.

Time Set Packer(s) 3:34 AM Time Started Off Bottom 6:34 AM Maximum Temperature 127°

Initial Hydrostatic Pressure (A) 2004 P.S.I.

Initial Flow Period Minutes 30 (B) 268 * P.S.I. to (C) 292 * P.S.I.

Initial Closed In Period Minutes 60 (D) 820 P.S.I.

Final Flow Period Minutes 30 (E) 284 * P.S.I. to (F) 292 P.S.I.

Final Closed In Period Minutes 60 (G) 623 P.S.I.

Final Hydrostatic Pressure (H) 1970 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/30/80 Test Ticket No. 8308
 Recorder No. 5673 Capacity 5400 Location 4123 Ft.
 Clock No. --- Elevation 1862 Kelly Bushing Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2004	P.S.I.	3:34P	M
B First Initial Flow Pressure	268 *	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	292 *	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	820	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	284 *	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	292	P.S.I.		
G Final Closed-in Pressure	623	P.S.I.		
H Final Hydrostatic Mud	1970	P.S.I.		

* Pressures questionable due to plugging action because tool slid to bottom.

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0 268 *	0	292*	0	284*
P 2	5 PLUGGING ACTION	3	478*	5	284*
P 3	10 292 *	6	555*	10	292*
P 4	15 292 *	9	620*	15	298*
P 5	20 292 *	12	650*	20	297*
P 6	25 292 *	15	661*	25	292
P 7	30 292 *	18	675*	30	292
P 8		21	694*		
P 9		24	713*		
P10		27	713*		
P11		30	779*		
P12		33	773*		
P13		36	765*		
P14		39	754*		
P15		42	740*		
P16		45	738*		
P17		48	757*		
P18		51	765*		
P19		54	836*		
P20		57	830*		
		60	820*		

5623

DST #4

TKT # 8308

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