

Company Kennedy & Mitchell, Inc. Lease & Well No. Lamatsch #33-550
 Elevation ----- Formation Lansing Effective Pay - Ft. Ticket No. 8598
 Date 10/27/80 Sec. 16 Twp. 17S Range 11W County Barton State Kansas
 Test Approved by Bruce Miller Western Representative Denis Wondra
 Formation Test No. 1 Interval Tested from 2912 ft. to 3006 ft. Total Depth 3006 ft.
 Packer Depth 2907 ft. Size 6 5/8 in. Packer Depth 2912 ft. Size 6 5/8 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2922 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 2925 ft. Recorder Number 3659 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor DaMac Drilling Rig #1 Drill Collar Length 60 I. D. 2.7 in.
 Mud Type starch Viscosity 30 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 7.0 cc. Drill Pipe Length 2831 I. D. 3.8 in.
 Chlorides 45,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 94 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 XH in.

Blow: Fair throughout initial flow period. Fair; increased to very good by end of final flow period.

Recovered 180 ft. of watery mud
 Recovered 90 ft. of muddy water Chlorides 50,000 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: Slid tool ten feet to bottom.

Time Set Packer(s) 8:43 ~~A.M.~~ P.M. Time Started Off Bottom 1:45 ~~A.M.~~ P.M. Maximum Temperature 101°
 Initial Hydrostatic Pressure 1429 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 61 P.S.I. to (C) 77 P.S.I.
 Initial Closed In Period 63 Minutes (D) 1035 P.S.I.
 Final Flow Period 85 Minutes (E) 100 P.S.I. to (F) 152 P.S.I.
 Final Closed In Period 63 Minutes (G) 989 P.S.I.
 Final Hydrostatic Pressure 1429 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10-27-80 Test Ticket No. 8598
 Recorder No. 3474 Capacity 3000 Location 2922 Ft.
 Clock No. - Elevation - Well Temperature 101 °F

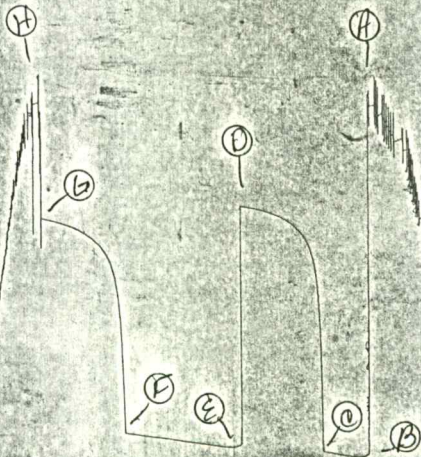
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1429 P.S.I.	8:43P	M
B First Initial Flow Pressure	61 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	77 P.S.I.	60 Mins.	63 Mins.
D Initial Closed-in Pressure	1035 P.S.I.	90 Mins.	85 Mins.
E Second Initial Flow Pressure	100 P.S.I.	60 Mins.	63 Mins.
F Second Final Flow Pressure	152 P.S.I.		
G Final Closed-in Pressure	989 P.S.I.		
H Final Hydrostatic Mud	1429 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>17</u> Inc.		Breakdown: <u>21</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 0	61	0	77	0	100	0	152
P 2 5	59	3	467	5	97	3	514
P 3 10	59	6	720	10	97	6	680
P 4 15	62	9	814	15	100	9	758
P 5 20	65	12	867	20	105	12	808
P 6 25	71	15	902	25	108	15	838
P 7 30	77	18	927	30	112	18	864
P 8		21	945	35	115	21	885
P 9		24	961	40	120	24	898
P10		27	974	45	124	27	914
P11		30	985	50	129	30	924
P12		33	994	55	132	33	933
P13		36	1000	60	136	36	944
P14		39	1005	65	138	39	950
P15		42	1012	70	141	42	958
P16		45	1017	75	147	45	962
P17		48	1021	80	150	48	968
P18		51	1026	85	152	51	973
P19		54	1027			54	977
P20		57	1032			57	982
		60	1034			60	985
		63	1035			63	989

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Company Kennedy & Mitchell, Inc. Lease & Well No. Lamatsch #33-550
 Elevation ----- Formation Kansas City Effective Pay - Ft. Ticket No. 8599
 Date 10/29/80 Sec. 16 Twp. 17S Range 11W County Barton State Kansas
 Test Approved by Bruce Miller Western Representative Denis Wondra
 Formation Test No. 2 Interval Tested from 3180 ft. to 3245 ft. Total Depth 3245 ft.
 Packer Depth 3175 ft. Size 6 5/8 in. Packer Depth 3180 ft. Size 6 5/8 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3200 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 3203 ft. Recorder Number 3659 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor DaMac Drilling Rig #1 Drill Collar Length 60 I. D. 2.7 in.
 Mud Type starch Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 6.4 cc. Drill Pipe Length 3099 I. D. 3.8 in.
 Chlorides 37,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 65 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 XH in.

Blow: Steady one half inch throughout initial flow period. Very weak; died in eighteen minutes on final flow period. Flushed tool; few bubbles; died again.

Recovered 15 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: Read from bottom Recorder #3659

Time Set Packer(s) 12:13 A.M. Time Started Off Bottom 3:15 P.M. Maximum Temperature 105°
 Initial Hydrostatic Pressure 1637 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 55 P.S.I. to (C) 45 P.S.I.
 Initial Closed In Period 54 Minutes (D) 93 P.S.I.
 Final Flow Period 30 Minutes (E) 53 P.S.I. to (F) 51 P.S.I.
 Final Closed In Period 60 Minutes (G) 69 P.S.I.
 Final Hydrostatic Pressure 1600 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10-29-80 Test Ticket No. 8599
 Recorder No. 3659 Capacity 4000 Location 3203 Ft.
 Clock No. - Elevation - Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1637</u> P.S.I.	Open Tool	<u>12:13A</u> M	
B First Initial Flow Pressure	<u>55</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>45</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
D Initial Closed-in Pressure	<u>93</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>53</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>51</u> P.S.I.			
G Final Closed-in Pressure	<u>69</u> P.S.I.			
H Final Hydrostatic Mud	<u>1600</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>18</u> Inc.		Breakdown: <u>6</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>55</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>51</u>
P 2 <u>5</u>	<u>47</u>	<u>3</u>	<u>45</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>51</u>
P 3 <u>10</u>	<u>45</u>	<u>6</u>	<u>45</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>51</u>
P 4 <u>15</u>	<u>45</u>	<u>9</u>	<u>45</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>51</u>
P 5 <u>20</u>	<u>45</u>	<u>12</u>	<u>45</u>	<u>20</u>	Flushed Tool	<u>12</u>	<u>51</u>
P 6 <u>25</u>	<u>45</u>	<u>15</u>	<u>45</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>51</u>
P 7 <u>30</u>	<u>45</u>	<u>18</u>	<u>45</u>	<u>30</u>	<u>51</u>	<u>18</u>	<u>51</u>
P 8		<u>21</u>	<u>45</u>			<u>21</u>	<u>51</u>
P 9		<u>24</u>	<u>47</u>			<u>24</u>	<u>51</u>
P10		<u>27</u>	<u>49</u>			<u>27</u>	<u>52</u>
P11		<u>30</u>	<u>53</u>			<u>30</u>	<u>53</u>
P12		<u>33</u>	<u>57</u>			<u>33</u>	<u>54</u>
P13		<u>36</u>	<u>61</u>			<u>36</u>	<u>55</u>
P14		<u>39</u>	<u>65</u>			<u>39</u>	<u>57</u>
P15		<u>42</u>	<u>69</u>			<u>42</u>	<u>59</u>
P16		<u>45</u>	<u>73</u>			<u>45</u>	<u>61</u>
P17		<u>48</u>	<u>80</u>			<u>48</u>	<u>63</u>
P18		<u>51</u>	<u>84</u>			<u>51</u>	<u>65</u>
P19		<u>54</u>	<u>93</u>			<u>54</u>	<u>67</u>
P20						<u>57</u>	<u>68</u>
						<u>60</u>	<u>69</u>

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