

Company Pickrell Drilling Company Lease & Well No. McFadden "C" #3  
 Elevation 2527 Kelly Bushing Formation Marmaton Effective Pay --- Ft. Ticket No. 4212  
 Date 12/12/79 Sec. 36 Twp. 30S Range 24W County Clark State Kansas  
 Test Approved by Mike G. Russell Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 5216 ft. to 5285 ft. Total Depth 5285 ft.  
 Packer Depth 5211 ft. Size 6 3/4 in. Packer Depth 5216 ft. Size 6 3/4 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5238 ft. Recorder Number 3474 Cap. 3000  
 Bottom Recorder Depth (Outside) 5241 ft. Recorder Number 3659 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Company Rig #1 Drill Collar Length 240 I. D. 2.7 in.  
 Mud Type drispac Viscosity 41 Weight Pipe Length - I. D. - in.  
 Weight 9.3 Water Loss 26.4 cc. Drill Pipe Length 4948 I. D. 3.8 in.  
 Chlorides 27,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 410 Anchor Length 69 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: Weak. Increased to fair in fifteen minutes on first flow period. Good throughout second opening.

Recovered 90 ft. of muddy water  
 Recovered 310 ft. of salt water chlorides 52,000 ppm  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Remarks:         

Time Set Packer(s) 4:43 ~~P.M.~~ A.M. Time Started Off Bottom 9:15 ~~P.M.~~ A.M. Maximum Temperature 120<sup>0</sup>  
 Initial Hydrostatic Pressure 2604 P.S.I. (A)  
 Initial Flow Period 30 Minutes (B) 56 P.S.I. to (C) 95 P.S.I.  
 Initial Closed In Period 60 Minutes (D) 1660 P.S.I.  
 Final Flow Period 90 Minutes (E) 138 P.S.I. to (F) 205 P.S.I.  
 Final Closed In Period 90 Minutes (G) 1614 P.S.I.  
 Final Hydrostatic Pressure 2589 P.S.I. (H)

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12/12/79 Test Ticket No. 4212  
 Recorder No. 3474 Capacity 3000 Location 5238 Ft.  
 Clock No. --- Elevation 2527 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2604 P.S.I.	Open Tool	4:43A	M
B First Initial Flow Pressure	56 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	95 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1660 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	138 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	205 P.S.I.			
G Final Closed-in Pressure	1614 P.S.I.			
H Final Hydrostatic Mud	2589 P.S.I.			

### PRESSURE BREAKDOWN

**First Flow Pressure** Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.  
**Initial Shut-In** Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.  
**Second Flow Pressure** Breakdown: 18 Inc. of 5 mins. and a final inc. of 0 Min.  
**Final Shut-In** Breakdown: 30 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	0	56	0	95	0	138	0	205
P 2	5	56	3	377	5	138	3	511
P 3	10	62	6	1176	10	138	6	1180
P 4	15	71	9	1371	15	140	9	1312
P 5	20	82	12	1438	20	142	12	1375
P 6	25	91	15	1483	25	147	15	1417
P 7	30	95	18	1517	30	152	18	1444
P 8			21	1540	35	157	21	1465
P 9			24	1563	40	162	24	1483
P 10			27	1578	45	167	27	1502
P 11			30	1591	50	170	30	1514
P 12			33	1604	55	175	33	1524
P 13			36	1614	60	179	36	1530
P 14			39	1623	65	184	39	1540
P 15			42	1633	70	188	42	1549
P 16			45	1640	75	193	45	1557
P 17			48	1643	80	197	48	1563
P 18			51	1649	85	201	51	1569
P 19			54	1654	90	205	54	1574
P 20			57	1657			57	1580
			60	1660			60	1585

**WESTERN TESTING CO., INC.**  
Pressure Data

Date 12/12/79 Test Ticket No. 4212  
 Recorder No. 3474 Capacity 3000 Location 5238 Ft.  
 Clock No. --- Elevation 2527 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2604	P.S.I.	4:43A	M
B First Initial Flow Pressure	56	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	95	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1660	P.S.I.	90	Mins. 90 Mins.
E Second Initial Flow Pressure	138	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	205	P.S.I.		
G Final Closed-in Pressure	1614	P.S.I.		
H Final Hydrostatic Mud	2589	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		20		18		30	
	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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1						63	1589	
P 2						66	1593	
P 3						69	1597	
P 4						72	1601	
P 5						75	1605	
P 6						78	1607	
P 7						81	1609	
P 8						84	1612	
P 9						87	1613	
P10						90	1614	
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

THE # 4212  
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(H)

(A)

(G)

(D)

(F)

(E)

(C)

(B)



Company Pickrell Drilling Company Lease & Well No. McFadden "C" #3  
 Elevation 2427 Kelly Bushing Formation Morrow Effective Pay --- Ft. Ticket No. 3454  
 Date 12/13/79 Sec. 36 Twp. 30S Range 24W County Clark State Kansas  
 Test Approved by Mike G. Russell Western Representative Dave Sloan

Formation Test No. 2 Interval Tested from 5400 ft. to 5433 ft. Total Depth 5433 ft.  
 Packer Depth 5395 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 5700 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5425 ft. Recorder Number 2604 Cap. 4150  
 Bottom Recorder Depth (Outside) 5428 ft. Recorder Number 6246 Cap. 5200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Company Rig #1 Drill Collar Length 240 I. D. 2.2 in.  
 Mud Type drispac Viscosity 50 Weight Pipe Length - I. D. - in.  
 Weight 9.2 Water Loss 14.8 cc. Drill Pipe Length 5132 I. D. 3.8 in.  
 Chlorides 26,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 402 Anchor Length 33 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: Very weak; dying ten minutes on initial opening.

Recovered 10 ft. of drilling mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks: Flushed tool after opening tool for final flow; weak blow; died one minute.  
Clock stopped inside recorder; READ PRESSURES OUTSIDE CHART.

Time Set	Packer(s)	<del>AM</del> P.M.	Time Started	Off Bottom	<del>AM</del> P.M.	Maximum Temperature
	<u>8:55</u>			<u>10:35</u>		<u>120<sup>0</sup></u>
Initial Hydrostatic Pressure			(A)	<u>2165</u>	P.S.I.	
Initial Flow Period			Minutes <u>30</u>	(B)	<u>42</u>	P.S.I. to (C) <u>112</u> P.S.I.
Initial Closed In Period			Minutes <u>60</u>	(D)	<u>382</u>	P.S.I.
Final Flow Period			Minutes <u>10</u>	(E)	<u>66</u>	P.S.I. to (F) <u>109</u> P.S.I.
Final Closed In Period			Minutes <u>---</u>	(G)	<u>---</u>	P.S.I.
Final Hydrostatic Pressure			(H)	<u>2131</u>	P.S.I.	

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12-13-79 Test Ticket No. 3454  
 Recorder No. 6246 Capacity 4150 Location 5425 Ft.  
 Clock No. ----- Elevation 2427 Kelly Bushing Well Temperature 120 °F

Point	Pressure			Time	
		P.S.I.		Given	Computed
A. Initial Hydrostatic Mud	2165	P.S.I.	Open Tool	8:55	M
B. First Initial Flow Pressure	42	P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C. First Final Flow Pressure	112	P.S.I.	Initial Closed-in Pressure	60	Mins. 60 Mins.
D. Initial Closed-in Pressure	382	P.S.I.	Second Flow Pressure	10	Mins. 10 Mins.
E. Second Initial Flow Pressure	66	P.S.I.	Final Closed-in Pressure	---	Mins. --- Mins.
F. Second Final Flow Pressure	109	P.S.I.			
G. Final Closed-in Pressure	---	P.S.I.			
H. Final Hydrostatic Mud	2131	P.S.I.			

### PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>0</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>42</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>66</u>		
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>77</u>	<u>5</u>	<u>85</u>		
P 3 <u>10</u>	<u>45</u>	<u>6</u>	<u>85</u>	<u>10</u>	<u>109</u>		
P 4 <u>15</u>	<u>49</u>	<u>9</u>	<u>96</u>				
P 5 <u>20</u>	<u>62</u>	<u>12</u>	<u>107</u>				
P 6 <u>25</u>	<u>89</u>	<u>15</u>	<u>117</u>				
P 7 <u>30</u>	<u>112</u>	<u>18</u>	<u>130</u>				
P 8 _____		<u>21</u>	<u>151</u>				
P 9 _____		<u>24</u>	<u>168</u>				
P10 _____		<u>27</u>	<u>283</u>				
P11 _____		<u>30</u>	<u>207</u>				
P12 _____		<u>33</u>	<u>224</u>				
P13 _____		<u>36</u>	<u>235</u>				
P14 _____		<u>39</u>	<u>213</u>				
P15 _____		<u>42</u>	<u>230</u>				
P16 _____		<u>45</u>	<u>254</u>				
P17 _____		<u>48</u>	<u>267</u>				
P18 _____		<u>51</u>	<u>307</u>				
P19 _____		<u>54</u>	<u>322</u>				
P20 _____		<u>57</u>	<u>357</u>				
		<u>60</u>	<u>382</u>				

114# 3454  
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VC McFadden #1  
DSTV

