

Company Kennedy & Mitchell, Inc. Lease & Well No. Leon #41-523
 Elevation 1352 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 8161
 Date 8/14/81 Sec. 1 Twp. 27S Range 5E County Butler State Kansas
 Test Approved by H. W. Gill Western Representative Norman Allen
 Formation Test No. 1 Interval Tested from 2762 ft. to 2776 ft. Total Depth 2850 ft.
 Packer Depth 2762 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2776 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2765 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 2768 ft. Recorder Number 13268 Cap. 4225
 Below Straddle Recorder Depth 2790 ft. Recorder Number 24 Cap. 4000
 Drilling Contractor Aspen Drlg. Rig #3 Drill Collar Length 150 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 52 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 12.8 cc. Drill Pipe Length 2606 I. D. 3.8 in.
 Chlorides 1,000 P.P.M. Test Tool Length 45 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 14 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 IF in.

Weak throughout test.

Blow: _____
 Recovered 160 ft. of salt water 17,000 chlorides ppm
 Recovered _____ ft. of .6 Resistivity @ 80°F
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: Pressure Recorder #13268

Time Set Packer(s) 3:45 ~~AM~~ P.M. Time Started Off Bottom 6:30 ~~AM~~ P.M. Maximum Temperature 105°
 Initial Hydrostatic Pressure (A) 1370 P.S.I.
 Initial Flow Period Minutes 30 (B) 30 P.S.I. to (C) 81* P.S.I.
 Initial Closed In Period Minutes 45 (D) 802 P.S.I.
 Final Flow Period Minutes 45 (E) 75 P.S.I. to (F) 91 P.S.I.
 Final Closed In Period Minutes 45 (G) 782 P.S.I.
 Final Hydrostatic Pressure (H) 1360 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/14/81 Test Ticket No. 8161
 Recorder No. 13268 Capacity 4225 Location 2768 Ft.
 Clock No. - Elevation 1352 Kelly Bushing Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1370	P.S.I.	3:45P	M
B First Initial Flow Pressure	30	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	81 *	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	802	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	75	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	91	P.S.I.		
G Final Closed-in Pressure	782	P.S.I.		
H Final Hydrostatic Mud	1360	P.S.I.		

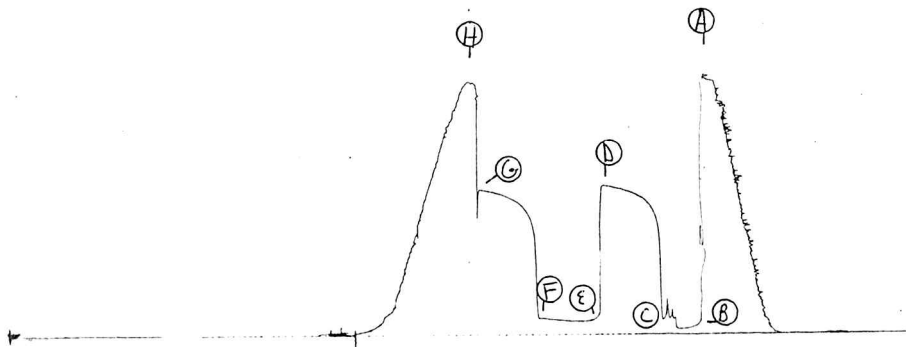
* PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>15</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	30	0	81 *	0	75	0	91
P 2 5	30	3	523	5	75	3	513
P 3 10	30	6	632	10	75	6	609
P 4 15	30	9	679	15	75	9	655
P 5 20	85 *	12	706	20	75	12	683
P 6 25	118*	15	728	25	77	15	704
P 7 30	81 *	18	743	30	81	18	717
P 8		21	753	35	85	21	730
P 9		24	764	40	89	24	740
P10		27	772	45	91	27	751
P11		30	779			30	760
P12		33	784			33	764
P13		36	789			36	770
P14		39	796			39	774
P15		42	800			42	779
P16		45	802			45	782
P17							
P18							
P19							
P20							

TKT # 8161
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13255



TKT # 8161

Below Straddle



Company Kennedy & Mitchell, Inc. Lease & Well No. Leon #41-523
Elevation 1352 Kelly Bushing ? Formation ? Effective Pay - Ft. Ticket No. 8162
Date 8/14/81 Sec. 1 Twp. 27S Range 5E County Butler State Kansas
Test Approved by H. W. Gill Western Representative Norman Allen
Formation Test No. 2 Interval Tested from 2638 ft. to 2664 ft. Total Depth 2850 ft.
Packer Depth 2638 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2664 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2650 ft. Recorder Number 13268 Cap. 4225
Bottom Recorder Depth (Outside) 2647 ft. Recorder Number 1559 Cap. 4200
Below Straddle Recorder Depth 2847 ft. Recorder Number 24 Cap. 4000
Drilling Contractor Aspen Drlg. Rig #3 Drill Collar Length 30 I. D. 2 1/4 in.
Mud Type chemical Viscosity 52 Weight Pipe Length - I. D. - in.
Weight 9.8 Water Loss 12.8 cc. Drill Pipe Length 2592 I. D. 3.8 in.
Chlorides 1,000 P.P.M. Test Tool Length 228 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 26 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 IF in.

Blow: Strong blow dead at forty-five minutes.

Recovered 390 ft. of muddy salt water 24,000 chlorides ppm
Recovered - ft. of .52 Resistivity @ 80°F
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks: -

Time Set Packer(s) 10:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:30 ~~A.M.~~ P.M. Maximum Temperature 103°
Initial Hydrostatic Pressure 1360 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 135 P.S.I. to (C) 160 P.S.I.
Initial Closed In Period 42 Minutes (D) 1004 P.S.I.
Final Flow Period 30 Minutes (E) 197 P.S.I. to (F) 197 P.S.I.
Final Closed In Period 45 Minutes (G) 972 P.S.I.
Final Hydrostatic Pressure 1330 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

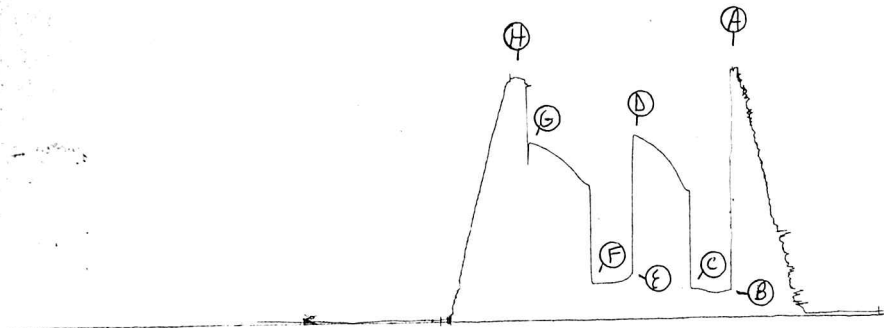
Date 8/14/81 Recorder No. 13268 Capacity 4225 Test Ticket No. 8162
 Location 2650 Ft. Clock No. - Elevation 1352 Kelly Bushing Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1360 P.S.I.	Open Tool	10:00P	M
B First Initial Flow Pressure	135 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	160 P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D Initial Closed-in Pressure	1004 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	197 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	197 P.S.I.			
G Final Closed-in Pressure	972 P.S.I.			
H Final Hydrostatic Mud	1330 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>135</u>	<u>0</u>	<u>160</u>	<u>0</u>	<u>197</u>	<u>0</u>	<u>197</u>
P 2 <u>5</u>	<u>135</u>	<u>3</u>	<u>700</u>	<u>5</u>	<u>197</u>	<u>3</u>	<u>736</u>
P 3 <u>10</u>	<u>135</u>	<u>6</u>	<u>738</u>	<u>10</u>	<u>197</u>	<u>6</u>	<u>753</u>
P 4 <u>15</u>	<u>138</u>	<u>9</u>	<u>789</u>	<u>15</u>	<u>197</u>	<u>9</u>	<u>774</u>
P 5 <u>20</u>	<u>150</u>	<u>12</u>	<u>828</u>	<u>20</u>	<u>197</u>	<u>12</u>	<u>802</u>
P 6 <u>25</u>	<u>158</u>	<u>15</u>	<u>864</u>	<u>25</u>	<u>197</u>	<u>15</u>	<u>828</u>
P 7 <u>30</u>	<u>160</u>	<u>18</u>	<u>887</u>	<u>30</u>	<u>197</u>	<u>18</u>	<u>852</u>
P 8		<u>21</u>	<u>911</u>			<u>21</u>	<u>870</u>
P 9		<u>24</u>	<u>930</u>			<u>24</u>	<u>889</u>
P10		<u>27</u>	<u>949</u>			<u>27</u>	<u>904</u>
P11		<u>30</u>	<u>962</u>			<u>30</u>	<u>922</u>
P12		<u>33</u>	<u>977</u>			<u>33</u>	<u>936</u>
P13		<u>36</u>	<u>989</u>			<u>36</u>	<u>947</u>
P14		<u>39</u>	<u>1000</u>			<u>39</u>	<u>957</u>
P15		<u>42</u>	<u>1004</u>			<u>42</u>	<u>966</u>
P16						<u>45</u>	<u>972</u>
P17							
P18							
P19							
P20							

TKT. # 8162
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13268

TKT # 8162

Below Straddle

