

Company Petroleum Energy, Inc. Lease & Well No. McFarland #1
 Elevation 1747 Kelly Bushing Formation Simpson Sand Effective Pay - Ft. Ticket No. 15678
 Date 3/18/82 Sec. 12 Twp. 20S Range 10W County Rice State Kansas
 Test Approved by Ken Hamlin Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 3238 ft. to 3279 ft. Total Depth 3279 ft.
 Packer Depth 3233 ft. Size 6 5/8 in. Packer Depth 3238 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) 3269 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 3271 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drlg. Rig #2 Drill Collar Length 300 I. D. 2.7 in.
 Mud Type starch Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.9 Water Loss 15.2 cc. Drill Pipe Length 2917 I. D. 3.8 in.
 Chlorides 66,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 41 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 in.

Blow: Very weak blow; died in fifteen minutes on initial flow period. No blow; flushed tool few bubbles and died on final flow period.

Recovered 65 ft. of mud with trace of oil on top of tool.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid tool eight feet to bottom.

Time Set Packer(s) 5:28 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:50 ~~P.M.~~ ^{A.M.} Maximum Temperature 106°
 Initial Hydrostatic Pressure 1678 (A) 1678 P.S.I.
 Initial Flow Period 20 Minutes (B) 89 P.S.I. to (C) 89 P.S.I.
 Initial Closed In Period 18 Minutes (D) 724 P.S.I.
 Final Flow Period 20 Minutes (E) 89 P.S.I. to (F) 89 P.S.I.
 Final Closed In Period 18 Minutes (G) 764 P.S.I.
 Final Hydrostatic Pressure 1676 (H) 1676 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/18/82 Test Ticket No. 15678
 Recorder No. 3474 Capacity 3000 Location 3269 Ft.
 Clock No. --- Elevation 1747 Kelly Bushing Well Temperature 106 °F

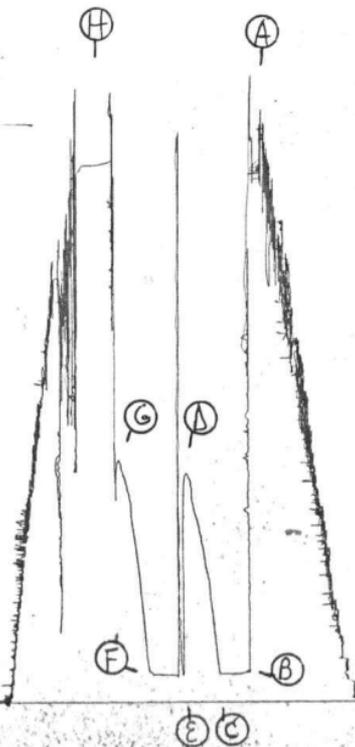
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1678</u>	P.S.I.	<u>5:28A</u>	<u>M</u>
B First Initial Flow Pressure	<u>89</u>	P.S.I.	<u>20</u>	<u>18</u> Mins.
C First Final Flow Pressure	<u>89</u>	P.S.I.	<u>20</u>	<u>18</u> Mins.
D Initial Closed-in Pressure	<u>724</u>	P.S.I.	<u>20</u>	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	<u>20</u>	<u>18</u> Mins.
F Second Final Flow Pressure	<u>89</u>	P.S.I.		
G Final Closed-in Pressure	<u>764</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1676</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>4</u> Inc.		Breakdown: <u>6</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>89</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>89</u>
P 2 <u>5</u>	<u>89</u>	<u>3</u>	<u>300</u>	<u>5</u>	<u>86</u>	<u>3</u>	<u>277</u>
P 3 <u>10</u>	<u>89</u>	<u>6</u>	<u>420</u>	<u>10</u>	<u>87</u>	<u>6</u>	<u>424</u>
P 4 <u>15</u>	<u>89</u>	<u>9</u>	<u>517</u>	<u>15</u>	<u>88</u>	<u>9</u>	<u>548</u>
P 5 <u>20</u>	<u>89</u>	<u>12</u>	<u>580</u>	<u>20</u>	<u>89</u>	<u>12</u>	<u>664</u>
P 6		<u>15</u>	<u>674</u>			<u>15</u>	<u>712</u>
P 7		<u>18</u>	<u>724</u>			<u>18</u>	<u>764</u>
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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Company Petroleum Energy, Inc. Lease & Well No. McFarland #1
 Elevation 1747 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 15679
 Date 3/ 19/82 Sec. 12 Twp. 20S Range 10W County Rice State Kansas
 Test Approved by Ken Hamlin Western Representative Denis Wondra

Formation Test No. 2 Interval Tested from 3258 ft. to 3288 ft. Total Depth 3288 ft.
 Packer Depth 3255 ft. Size 6 5/8 in. Packer Depth 3258 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) 3278 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 3281 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drlg. Rig #2 Drill Collar Length 300 I. D. 2.7 in.
 Mud Type starch Viscosity 41 Weight Pipe Length - I. D. - in.
 Weight 9.7 Water Loss 20.8 cc. Drill Pipe Length 2937 I. D. 3.8 in.
 Chlorides 58,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 30 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 FH in.

Blow: Strong throughout test.

Recovered 180 ft. of gas in pipe
 Recovered 1540 ft. of gassy oil Gravity 44
 Recovered 200 ft. of muddy oil
 Recovered 180 ft. of oil and gas cut muddy water Chlorides 88,000 ppm
 Recovered ft. of

Remarks:

Time Set Packer(s) 2:23 ^{A.M.}/_{P.M.} Time Started Off Bottom 4:25 ^{A.M.}/_{P.M.} Maximum Temperature 108°
 Initial Hydrostatic Pressure (A) 1684 P.S.I.
 Initial Flow Period Minutes 30 (B) 191 P.S.I. to (C) 536 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1090 P.S.I.
 Final Flow Period Minutes 30 (E) 588 P.S.I. to (F) 751 P.S.I.
 Final Closed In Period Minutes 30 (G) 1100 P.S.I.
 Final Hydrostatic Pressure (H) 1642 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/19/82 Test Ticket No. 15679
 Recorder No. 3474 Capacity 3000 Location 3278 Ft.
 Clock No. -- Elevation 1747 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1684</u>	P.S.I.	<u>2''23A</u>	<u>M</u>
B First Initial Flow Pressure	<u>191</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>536</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1090</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>588</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>751</u>	P.S.I.		
G Final Closed-in Pressure	<u>1100</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1642</u>	P.S.I.		

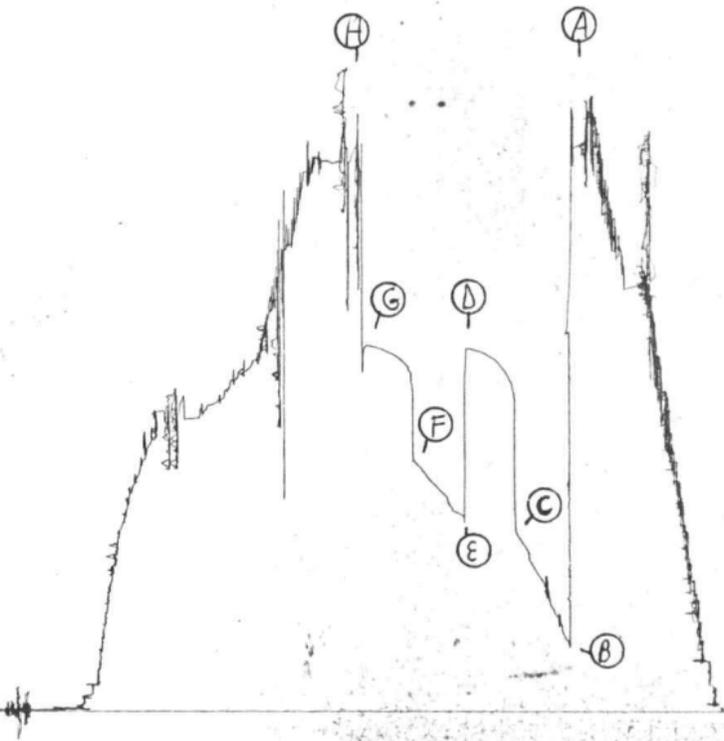
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>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>0</u>	<u>536</u>	<u>0</u>	<u>588</u>	<u>0</u>	<u>751</u>
P 2	<u>5</u>	<u>3</u>	<u>989</u>	<u>5</u>	<u>601</u>	<u>3</u>	<u>1035</u>
P 3	<u>10</u>	<u>6</u>	<u>1015</u>	<u>10</u>	<u>645</u>	<u>6</u>	<u>1053</u>
P 4	<u>15</u>	<u>9</u>	<u>1035</u>	<u>15</u>	<u>673</u>	<u>9</u>	<u>1067</u>
P 5	<u>20</u>	<u>12</u>	<u>1054</u>	<u>20</u>	<u>698</u>	<u>12</u>	<u>1075</u>
P 6	<u>25</u>	<u>15</u>	<u>1065</u>	<u>25</u>	<u>732</u>	<u>15</u>	<u>1083</u>
P 7	<u>30</u>	<u>18</u>	<u>1074</u>	<u>30</u>	<u>751</u>	<u>18</u>	<u>1089</u>
P 8		<u>21</u>	<u>1082</u>			<u>21</u>	<u>1095</u>
P 9		<u>24</u>	<u>1086</u>			<u>24</u>	<u>1098</u>
P10		<u>27</u>	<u>1089</u>			<u>27</u>	<u>1100</u>
P11		<u>30</u>	<u>1090</u>			<u>30</u>	<u>1100</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
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