

Company Petroleum Energy, Inc. Lease & Well No. Habiger "A" #1
 Elevation 1670 Kelly Bushing Kinderhook Formation ----- Effective Pay ----- Ft. Ticket No. 5514
 Date 3/13/80 Sec. 24 Twp. 20S Range 9W County Rice State Kansas
 Test Approved by Jim Musgrove Western Representative Vernon Wondra

Formation Test No. 1 Interval Tested from 3289 ft. to 3311 ft. Total Depth 3311 ft.
 Packer Depth 3284 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3289 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3301 ft. Recorder Number 10979 Cap. 4100
 Bottom Recorder Depth (Outside) 3304 ft. Recorder Number 1563 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drlg. Co. Rig #2 Drill Collar Length 344 I. D. 2 1/4 in.
 Mud Type starch-gel Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 10.0 Water Loss 11.4 cc. Drill Pipe Length 2946 I. D. 3.8 in.
 Chlorides 77,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 402 Anchor Length 22 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 weqk blow ;died in five minutes on first flow period. Flushed too - few bubbles, died on second opening.

Recovered 30 ft. of thin mud (chlorides 100,000 ppm)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: Flushed tool on second opening.

Time Set Packer(s) 12:20 ~~A.M.~~ P.M. Time Started Off Bottom 1:40 ~~A.M.~~ P.M. Maximum Temperature 98°
 Initial Hydrostatic Pressure 1737 P.S.I. (A)
 Initial Flow Period 20 Minutes (B) 58 P.S.I. to (C) 17 P.S.I.
 Initial Closed In Period 18 Minutes (D) 119 P.S.I.
 Final Flow Period 15 Minutes (E) 60 P.S.I. to (F) 27 P.S.I.
 Final Closed In Period 24 Minutes (G) 118 P.S.I.
 Final Hydrostatic Pressure 1709 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 3/13/80 Recorder No. 10979 Capacity 4100 Test Ticket No. 5514
 Clock No. ----- Elevation 1670 Kelly Bushing Location 3301 Ft. 98 °F
 Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	1737	P.S.I.	12:20P	M
B. First Initial Flow Pressure	58	P.S.I.	20	Mins. 20 Mins.
C. First Final Flow Pressure	17	P.S.I.	20	Mins. 18 Mins.
D. Initial Closed-in Pressure	119	P.S.I.	20	Mins. 15 Mins.
E. Second Initial Flow Pressure	60	P.S.I.	20	Mins. 24 Mins.
F. Second Final Flow Pressure	27	P.S.I.		
G. Final Closed-in Pressure	118	P.S.I.		
H. Final Hydrostatic Mud	1709	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 4 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 6 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 8 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 <u>0</u>	<u>58</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>21</u>
P 2 <u>5</u>	<u>27</u>	<u>3</u>	<u>63</u>	<u>5</u>	<u>39</u>	<u>3</u>	<u>67</u>
P 3 <u>10</u>	<u>18</u>	<u>6</u>	<u>98</u>	<u>10</u>	<u>27</u>	<u>6</u>	<u>98</u>
P 4 <u>15</u>	<u>17</u>	<u>9</u>	<u>107</u>	<u>15</u>	<u>27</u>	<u>9</u>	<u>107</u>
P 5 <u>20</u>	<u>17</u>	<u>12</u>	<u>113</u>			<u>12</u>	<u>111</u>
P 6 _____		<u>15</u>	<u>117</u>			<u>15</u>	<u>115</u>
P 7 _____		<u>18</u>	<u>119</u>			<u>18</u>	<u>116</u>
P 8 _____						<u>21</u>	<u>117</u>
P 9 _____						<u>24</u>	<u>118</u>
P10 _____							
P11 _____							
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

TR#5514
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