

Liberty Enterprises, Inc.

Herbert #1

Company _____ Lease & Well No. _____

Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 8448

Date 11/5/80 Sec. 19 Twp. 13S Range 20W County Ellis State Kansas

Test Approved by Robert F. Pfannenstiel Western Representative William Weaver

Formation Test No. 1 Interval Tested from 3915 ft. to 3937 ft. Total Depth 3937 ft.

Packer Depth 3910 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3915 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3932 ft. Recorder Number 4331 Cap 4150

Bottom Recorder Depth (Outside) 3935 ft. Recorder Number 13240 Cap 4500

Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Ranger Drlg. Rig #1 Drill Collar Length - I. D. - in.

Mud Type - Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 11.6 cc. Drill Pipe Length 3895 I. D. 3.82 in.

Chlorides - P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 22 ft. Size 5 1/2

Did Well Flow? - Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow steady throughout test.

Recovered 15 ft. of slightly oil cut mud

Recovered 45 ft. of heavy oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:40 A.M. P.M. Time Started Off Bottom 7:40 A.M. P.M. Maximum Temperature 115°

Initial Hydrostatic Pressure (A) 2237 P.S.I.

Initial Flow Period Minutes 30 (B) 72 P.S.I. to (C) 63 P.S.I.

Initial Closed In Period Minutes 30 (D) 1062 P.S.I.

Final Flow Period Minutes 30 (E) 92 P.S.I. to (F) 74 P.S.I.

Final Closed In Period Minutes 33 (G) 964 P.S.I.

Final Hydrostatic Pressure (H) 2197 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-5-80 Recorder No. 4331 Capacity 4150 Test Ticket No. 8448 Location 3932 Ft.
 Clock No. - Elevation - Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2237 P.S.I.	Open Tool	5:40P	M
B First Initial Flow Pressure	72 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	63 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1062 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	92 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	74 P.S.I.			
G Final Closed-in Pressure	964 P.S.I.			
H Final Hydrostatic Mud	2197 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>11</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>72</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>92</u>	<u>0</u>	<u>74</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>72</u>	<u>5</u>	<u>76</u>	<u>3</u>	<u>79</u>
P 3 <u>10</u>	<u>63</u>	<u>6</u>	<u>138</u>	<u>10</u>	<u>74</u>	<u>6</u>	<u>100</u>
P 4 <u>15</u>	<u>63</u>	<u>9</u>	<u>408</u>	<u>15</u>	<u>74</u>	<u>9</u>	<u>186</u>
P 5 <u>20</u>	<u>63</u>	<u>12</u>	<u>703</u>	<u>20</u>	<u>74</u>	<u>12</u>	<u>376</u>
P 6 <u>25</u>	<u>63</u>	<u>15</u>	<u>849</u>	<u>25</u>	<u>74</u>	<u>15</u>	<u>619</u>
P 7 <u>30</u>	<u>63</u>	<u>18</u>	<u>929</u>	<u>30</u>	<u>74</u>	<u>18</u>	<u>756</u>
P 8		<u>21</u>	<u>976</u>			<u>21</u>	<u>834</u>
P 9		<u>24</u>	<u>1013</u>			<u>24</u>	<u>879</u>
P10		<u>27</u>	<u>1038</u>			<u>27</u>	<u>914</u>
P11		<u>30</u>	<u>1062</u>			<u>30</u>	<u>940</u>
P12						<u>33</u>	<u>964</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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