

Company Omega Enterprises, Inc. Lease & Well No. Setterstone #1
 Elevation 1175 Kelly Bushing Formation Layton Effective Pay ---- Ft. Ticket No. 5948
 Date 9/19/80 Sec. 34 Twp. 34 S Range 2 E County Sumner State KS
 Test Approved by F. W. Morgan Western Representative Allen Edgington

Formation Test No. 1 Interval Tested from 2742 ft. to 2761 ft. Total Depth 2761 ft.
 Packer Depth 2737 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.
 Packer Depth 2742 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----
 Top Recorder Depth (Inside) 2756 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 2760 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. -----

Drilling Contractor Blue Streak Drilling Drill Collar Length 226 I. D. 2 3/4 in.
 Mud Type Chemical Viscosity 31 Weight Pipe Length 439 I. D. 2 3/4 in.
 Weight 9.8 Water Loss 24 cc. Drill Pipe Length 2086 I. D. 3.8 in.
 Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 4 1/2 in.
 Jars: Make NO Serial Number ----- Anchor Length 19 ft. Size 4 1/2 in.
 Did Well Flow? NO Reversed Out ----- 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 to fair blow throughout test.

Recovered 70 ft. of Slightly gas and oil cut mud.
 Recovered 60 ft. of Slightly gas and oil cut salt water.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Read outside recorder #1560

Time Set Packer(s) 2:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 112° F.
 Initial Hydrostatic Pressure (A) 1432 P.S.I.
 Initial Flow Period Minutes 30 (B) 34 P.S.I. to (C) 51 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1054 P.S.I.
 Final Flow Period Minutes 30 (E) 71 P.S.I. to (F) 92 P.S.I.
 Final Closed In Period Minutes 30 (G) 1002 P.S.I.
 Final Hydrostatic Pressure (H) 1409 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 9-19-80 Test Ticket No. 5948
 Recorder No. 1560 Capacity 4200 Location 2756 Ft.
 Clock No. ----- Elevation 1175 Kelly Bushing Well Temperature 112 °F

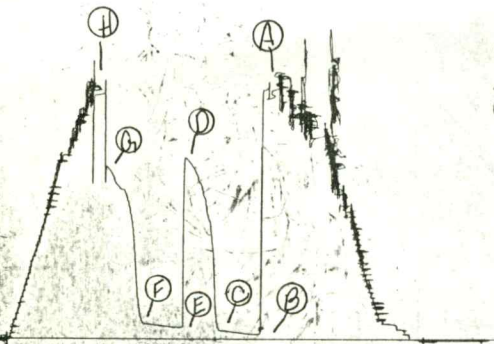
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1432</u>	P.S.I.	<u>2:45</u> A. M.	
B First Initial Flow Pressure	<u>34</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>51</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1054</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>71</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>92</u>	P.S.I.		
G Final Closed-in Pressure	<u>1002</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1409</u>	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.
	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>34</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>92</u>	
P 2 <u>5</u>	<u>34</u>	<u>3</u>	<u>196</u>	<u>5</u>	<u>71</u>	<u>3</u>	<u>168</u>	
P 3 <u>10</u>	<u>37</u>	<u>6</u>	<u>469</u>	<u>10</u>	<u>75</u>	<u>6</u>	<u>347</u>	
P 4 <u>15</u>	<u>41</u>	<u>9</u>	<u>682</u>	<u>15</u>	<u>81</u>	<u>9</u>	<u>587</u>	
P 5 <u>20</u>	<u>44</u>	<u>12</u>	<u>759</u>	<u>20</u>	<u>85</u>	<u>12</u>	<u>727</u>	
P 6 <u>25</u>	<u>49</u>	<u>15</u>	<u>844</u>	<u>25</u>	<u>88</u>	<u>15</u>	<u>819</u>	
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>912</u>	<u>30</u>	<u>92</u>	<u>18</u>	<u>871</u>	
P 8 _____		<u>21</u>	<u>972</u>			<u>21</u>	<u>885</u>	
P 9 _____		<u>24</u>	<u>1015</u>			<u>24</u>	<u>912</u>	
P10 _____		<u>27</u>	<u>1038</u>			<u>27</u>	<u>966</u>	
P11 _____		<u>30</u>	<u>1054</u>			<u>30</u>	<u>1002</u>	
P12 _____								
P13 _____								
P14 _____								
P15 _____								
P16 _____								
P17 _____								
P18 _____								
P19 _____								
P20 _____								

TK#5948

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1560

Company Omega Enterprises, Inc. Lease & Well No. Setterstone #1
 Elevation 1175 Kelly Bushing Formation Mississippian Effective Pay ----- Ft. Ticket No. 5949
 Date 9-22-80 Sec. 34 Twp. 34s Range 2 E County Sumner State Kansas
 Test Approved by Frank Morgan Western Representative Allen Edgington

Formation Test No. 2 Interval Tested from 3468 ft. to 3480 ft. Total Depth 3480 ft.
 Packer Depth 3463 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
 Packer Depth 3468 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----
 Top Recorder Depth (Inside) 3474 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 3478 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. -----

Drilling Contractor Blue Streak Drill Collar Length 106 I. D. 2 1/4 in.
 Mud Type Chemical Viscosity 41 Weight Pipe Length 439 I. D. 2 1/4 in.
 Weight 9.6 Water Loss 22.4 cc. Drill Pipe Length 2923 I. D. 3.8 in.
 Chlorides 8000 P.P.M. Test Tool Length 20 ft. Tool Size 4 1/2 OD in.
 Jars: Make No Serial Number ----- Anchor Length 12 ft. Size 4 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: Fair to strong blow throughout test.

Recovered 650 ft. of gas
 Recovered 80 ft. of Heavy oil and gas, cut mud. 30% gas, 30% oil, 40% mud.
 Recovered 70 ft. of Slightly oil and gas, cut watery mud. 30% gas, 25% oil, 45% mud.
 Recovered 100 ft. of Slightly oil and gas, cut salty water.
 Recovered 480 ft. of Salt water, gas cut. 91,000 PPM Chlorides, .18 Resistivity @ 78⁰ F.
 Remarks: 730 Total Fluid.

Time Set Packer(s) 5:00 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 7:00 ~~P.M.~~ ^{A.M.} Maximum Temperature 123⁰
 Initial Hydrostatic Pressure (A) 1814 P.S.I.
 Initial Flow Period Minutes 30 (B) 49 P.S.I. to (C) 175 P.S.I.
 Initial Closed In Period Minutes 30 (D) 757 P.S.I.
 Final Flow Period Minutes 30 (E) 219 P.S.I. to (F) 306 P.S.I.
 Final Closed In Period Minutes 30 (G) 886 P.S.I.
 Final Hydrostatic Pressure (H) 1794 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 9-22-80 Test Ticket No. 5949
 Recorder No. 3354 Capacity 4200 Location 3474 Ft.
 Clock No. ----- Elevation 1175 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1814	P.S.I.	5:00 A M	
B First Initial Flow Pressure	49	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	175	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	757	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	219	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	306	P.S.I.		
G Final Closed-in Pressure	886	P.S.I.		
H Final Hydrostatic Mud	1794	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>10</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	49	0	175	0	219	0	306
P 2	5	65	3	553	5	234	3	654
P 3	10	91	6	660	10	253	6	772
P 4	15	116	9	705	15	270	9	821
P 5	20	137	12	730	20	281	12	850
P 6	25	165	15	749	25	293	15	861
P 7	30	175	18	757	30	306	18	873
P 8			21	757			21	878
P 9			24	757			24	880
P10			27	757			27	884
P11			30	757			30	886
P12								
P13								
P14								
P15								
P16								
P17								
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