Company Petroleum Energy, Inc. Lease & Well No. Madden #1

Elevation 1826 Ground Level Formation Lansing Effective Pay - Ft. Ticket No. 12258

Date 8/19/81 Sec. 10 Twp. 19S Range 12W County Barton State Kansas

Test Approved by Jim Musgrove Western Representative Ray Schwager

Formation Test No. 1 Interval Tested from 3151 ft. to 3165 ft. Total Depth 3165 ft.

Packer Depth 3146 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3151 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3152 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 3155 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Duke Drilling Rig #3 Drill Collar Length 120 I. D. 2.2 in.

Mud Type Starch Viscosity 36 Weight Pipe Length - I. D. - in.

Weight 10.2 Water Loss 20.2 cc. Drill Pipe Length 3009 I. D. 3.8 in.

Chlorides 84,000 P.P.M. Test Tool Length 22 ft. Tool Size 4½ in.

Jars: Make No Serial Number - Anchor Length 14 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Initial flow period fair blow building to good blow (3 inches to 7 inches)
Final flow period good blow throughout.

Recovered 280 ft. of gas in pipe

Recovered 20 ft. of slightly oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:00 A.M. ~~P.M.~~ Time Started Off Bottom 8:00 A.M. ~~P.M.~~ Maximum Temperature 99

Initial Hydrostatic Pressure		(A) 1815 P.S.I.		
Initial Flow Period	Minutes 45	(B) 41 P.S.I.	to (C) 44 P.S.I.	
Initial Closed In Period	Minutes 48	(D) 100 P.S.I.		
Final Flow Period	Minutes 45	(E) 51 P.S.I.	to (F) 53 P.S.I.	
Final Closed In Period	Minutes 48	(G) 118 P.S.I.		
Final Hydrostatic Pressure		(H) 1761 P.S.I.		

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 8/19/81 Test Ticket No. 12258

Recorder No. 13269 Capacity 4375 Location 3152 Ft.

Clock No. - Elevation 1826 Ground Level Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1815 P.S.I.	Open Tool	5:00A M	
B First Initial Flow Pressure	41 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	44 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D Initial Closed-in Pressure	100 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	51 P.S.I.	Final Closed-in Pressure	45 Mins.	48 Mins.
F Second Final Flow Pressure	53 P.S.I.			
G Final Closed-in Pressure	118 P.S.I.			
H Final Hydrostatic Mud	1761 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	41
P 2 5	41
P 3 10	41
P 4 15	42
P 5 20	43
P 6 25	43
P 7 30	44
P 8 35	44
P 9 40	44
P10 45	44
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	44
3	46
6	48
9	51
12	53
15	57
18	62
21	66
24	67
27	68
30	72
33	77
36	84
39	89
42	93
45	95
48	100

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	51
5	51
10	51
15	53
20	53
25	53
30	53
35	53
40	53
45	53

Final Shut-In
Breakdown: 16 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	53
3	55
6	61
9	64
12	68
15	70
18	75
21	79
24	84
27	87
30	92
33	95
36	99
39	105
42	109
45	114
48	118

B

IKT # 12258

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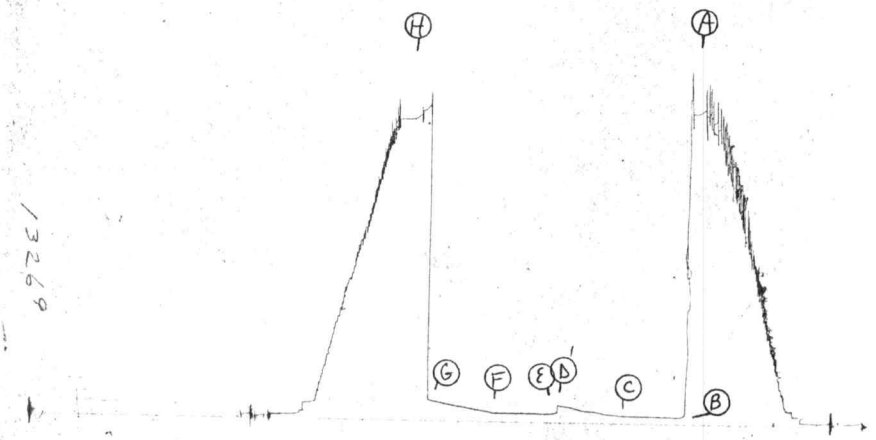

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Company Petroleum Energy, Inc. Lease & Well No. Madden #1

Elevation 1826 Ground Level Formation Lansing Effective Pay - Ft. Ticket No. 12259

Date 8/19/81 Sec. 10 Twp. 19S Range 12W County Barton State Kansas

Test Approved by Jim Musgrove Western Representative Ray Schwager

Formation Test No. 2 Interval Tested from 3172 ft. to 3205 ft. Total Depth 3205 ft.

Packer Depth 3167 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3172 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3173 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 3176 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Duke Drilling Rig #3 Drill Collar Length 120 I. D. 2.2 in.

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

Weight 10.2 Water Loss 15.8 cc. Drill Pipe Length 3030 I. D. 3.8 in.

Chlorides 81,000 P.P.M. Test Tool Length 22 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 33 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Initial flow period very weak blow died in 15 minutes. Final flow period no blow - flushed tool - no help.

Recovered 5 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:40 ~~A.M.~~ P.M. Time Started Off Bottom 10:40 ~~A.M.~~ P.M. Maximum Temperature 102

Initial Hydrostatic Pressure (A) 1815 P.S.I.

Initial Flow Period Minutes 30 (B) 46 P.S.I. to (C) 46 P.S.I.

Initial Closed In Period Minutes 30 (D) 70 P.S.I.

Final Flow Period Minutes 30 (E) 73 P.S.I. to (F) 44 P.S.I.

Final Closed In Period Minutes 30 (G) 56 P.S.I.

Final Hydrostatic Pressure (H) 1771 P.S.I.

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 8/19/81 Test Ticket No. 12259

Recorder No. 13269 Capacity 4375 Location 3173 Ft.

Clock No. - Elevation 1826 Ground Level Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1815	P.S.I.	Open Tool 8:40P M	
B First Initial Flow Pressure	46	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C First Final Flow Pressure	46	P.S.I.	Initial Closed-in Pressure 30 Mins.	30 Mins.
D Initial Closed-in Pressure	70	P.S.I.	Second Flow Pressure 30 Mins.	30 Mins.
E Second Initial Flow Pressure	73	P.S.I.	Final Closed-in Pressure 30 Mins.	30 Mins.
F Second Final Flow Pressure	44	P.S.I.		
G Final Closed-in Pressure	56	P.S.I.		
H Final Hydrostatic Mud	1771	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	46
P 2 5	46
P 3 10	46
P 4 15	46
P 5 20	46
P 6 25	46
P 7 30	46
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	46
3	47
6	48
9	50
12	52
15	54
18	57
21	61
24	64
27	68
30	70

Second Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	73
5	76
10	66
15	45
20	44
25	44
30	44

Flushed Tool

Final Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	44
3	45
6	46
9	48
12	50
15	52
18	53
21	54
24	55
27	56
30	56

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TKT # 12259

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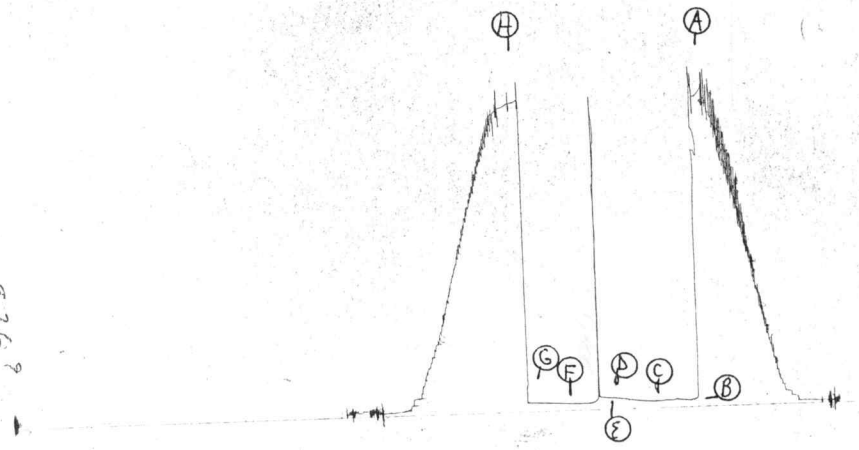

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