

Company Energy Methods Corporation Lease & Well No. Walkingstick #1-7
Elevation 1278 Kelly Bushing Formation Kansas City Effective Pay ---- Ft. Ticket No. 5850
Date 8/4/80 Sec. 7 Twp. 29S Range 4E County Butler State Kansas
Test Approved by W. W. Wakefield Western Representative Fred G. Klaus

Formation Test No. 1 Interval Tested from 2187 ft. to 2218 ft. Total Depth 2218 ft.

Packer Depth 2187 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2182 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2192 ft. Recorder Number 1559 Cap. 4200 PSI

Bottom Recorder Depth (Outside) 2195 ft. Recorder Number 5666 Cap. 3050 PSI

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

Drilling Contractor White & Ellis Drilling Rig #7 Drill Collar Length 313 I. D. 2 3/4 in.

Mud Type chemical Viscosity 32 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 16.8 cc. Drill Pipe Length 1844 I. D. 3.8 in.

Chlorides 2,400 P.P.M. Test Tool Length 61 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 401 Anchor Length 31 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size - in. Collars NC-44 Tool Joint Size 4 1/2 in.

Blow: Very weak blow throughout test. Slid five feet to bottom; another four feet after tool opened

Lost packer seat; seated packer second try.

Recovered 65 ft. of drilling mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: Flushed tool fifteen inches into second opening.

Time Set Packer(s) 7:30 A.M. Time Started Off Bottom 9:20 P.M. Maximum Temperature 101°

Initial Hydrostatic Pressure (A) 1574 P.S.I.

Initial Flow Period Minutes 10 (B) 44 P.S.I. to (C) 44 P.S.I.

Initial Closed In Period Minutes 30 (D) 723 P.S.I.

Final Flow Period Minutes 35 (E) 63 P.S.I. to (F) 47 P.S.I.

Final Closed In Period Minutes 27 (G) 698 P.S.I.

Final Hydrostatic Pressure (H) 1234 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date: 8-4-80 Test Ticket No. 5850
Recorder No. 1559 Capacity 4200 Location 2192 Ft.
Clock No. _____ Elevation 1278 Kelly Bushing Well Temperature 101 °F

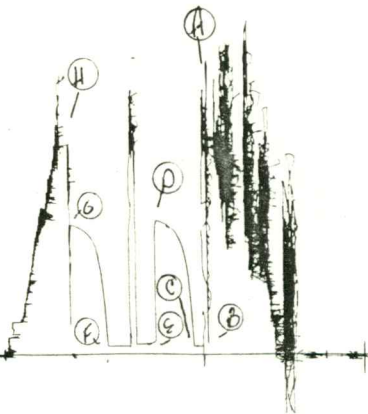
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1574 P.S.I.	Open Tool	7:30 A	
B First Initial Flow Pressure	44 P.S.I.	First Flow Pressure	15 Mins.	10 Mins.
C First Final Flow Pressure	44 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	723 P.S.I.	Second Flow Pressure	30 Mins.	35 Mins.
E Second Initial Flow Pressure	63 P.S.I.	Final Closed-in Pressure	30 Mins.	27 Mins.
F Second Final Flow Pressure	47 P.S.I.			
G Final Closed-in Pressure	698 P.S.I.			
H Final Hydrostatic Mud	1234 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>7</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>44</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>47</u>
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>345</u>	<u>5</u>	<u>59</u>	<u>3</u>	<u>307</u>
P 3 <u>10</u>	<u>44</u>	<u>6</u>	<u>494</u>	<u>10</u>	<u>56</u>	<u>6</u>	<u>466</u>
P 4 _____	_____	<u>9</u>	<u>585</u>	<u>15</u>	<u>47</u>	<u>9</u>	<u>571</u>
P 5 _____	_____	<u>12</u>	<u>635</u>	<u>20</u>	<u>47</u>	<u>12</u>	<u>625</u>
P 6 _____	_____	<u>15</u>	<u>668</u>	<u>25</u>	<u>47</u>	<u>15</u>	<u>654</u>
P 7 _____	_____	<u>18</u>	<u>689</u>	<u>30</u>	<u>47</u>	<u>18</u>	<u>668</u>
P 8 _____	_____	<u>21</u>	<u>702</u>	<u>35</u>	<u>47</u>	<u>21</u>	<u>681</u>
P 9 _____	_____	<u>24</u>	<u>709</u>	_____	_____	<u>24</u>	<u>689</u>
P10 _____	_____	<u>27</u>	<u>716</u>	_____	_____	<u>27</u>	<u>698</u>
P11 _____	_____	<u>30</u>	<u>723</u>	_____	_____	_____	_____
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

JKF #5850
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15.50



Company Energy Methods Corporation Lease & Well No. Walkingstick #1-7
Elevation 1278 Kelly Bushing Formation Arbuckle Effective Pay ---- Ft. Ticket No. 6067
Date 8/6/80 Sec. 7 Twp. 29S Range 4E County Butler State Kansas
Test Approved by W. W. Wakefield Western Representative Norman Allen

Formation Test No. 2 Interval Tested from 2736 ft. to 2742 ft. Total Depth 2753 ft.

Packer Depth 2736 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) 2726AP ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 2729AP ft. Recorder Number 1560 Cap. 4500

Below Straddle Recorder Depth 2750 ft. Recorder Number 42 Cap. 4000

Drilling Contractor White & Ellis Drilling Co. Rig #7 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 13.- cc. Drill Pipe Length 2399 I. D. 3.8 in.

Chlorides 1,200 P.P.M. Test Tool Length 44 ft. Tool Size 4 1/2 OD in.

Jars: Make WTC Serial Number 404 Anchor Length 6 ft. Size 4 1/2 OD in.

Did Well Flow? No Reversed Out Yes 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: Strong diminishing blow to fair blow at end of test.

Recovered 1800 ft. of sulphur cut salt water

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 1:40 ~~A.M.~~ P.M. Time Started Off Bottom 4:30 ~~A.M.~~ P.M. Maximum Temperature 105°

Initial Hydrostatic Pressure (A) 1413 P.S.I.

Initial Flow Period Minutes 25 (B) 59 P.S.I. to (C) 348 P.S.I.

Initial Closed In Period Minutes 33 (D) 984 P.S.I.

Final Flow Period Minutes 60 (E) 395 P.S.I. to (F) 806 P.S.I.

Final Closed In Period Minutes 60 (G) 951 P.S.I.

Final Hydrostatic Pressure (H) 1378 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-6-80 Recorder No. 3354 Capacity 4200 Test Ticket No. 6067
 Clock No. _____ Elevation 1278 Kelly Bushing Location 2726 AP Ft. _____
 Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1413 P.S.I.	Open Tool	1:40P M	
B First Initial Flow Pressure	59 P.S.I.	First Flow Pressure	20 Mins.	25 Mins.
C First Final Flow Pressure	348 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	984 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	395 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	806 P.S.I.			
G Final Closed-in Pressure	951 P.S.I.			
H Final Hydrostatic Mud	1378 P.S.I.			

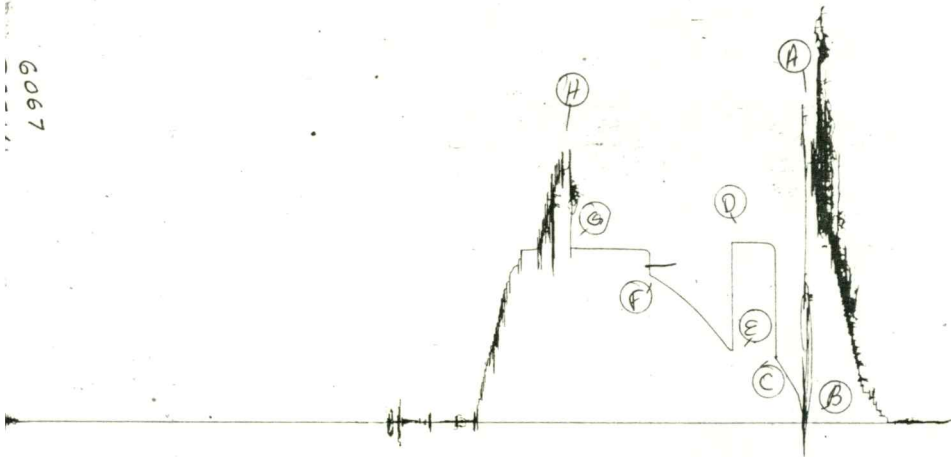
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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>	59	0	348	0	395	0	806
P 2 <u>5</u>	59	3	956	5	424	3	943
P 3 <u>10</u>	186	6	977	10	468	6	944
P 4 <u>15</u>	253	9	981	15	515	9	945
P 5 <u>20</u>	310	12	982	20	555	12	946
P 6 <u>25</u>	348	15	982	25	597	15	947
P 7 _____		18	982	30	633	18	947
P 8 _____		21	983	35	662	21	948
P 9 _____		24	983	40	694	24	948
P10 _____		27	983	45	724	27	949
P11 _____		30	984	50	751	30	949
P12 _____		33	984	55	776	33	949
P13 _____				60	806	36	949
P14 _____						39	949
P15 _____						42	949
P16 _____						45	949
P17 _____						48	950
P18 _____						51	950
P19 _____						54	950
P20 _____						57	951
						60	951

JK# #6067

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6067



Int # 6067
Below Saddle

