



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 13506

OK

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation 1808 K.B Formation INDEAN CAVE Eff. Pay — Ft.

District DODGE City Date 1/27/82 Customer Order No. —

COMPANY NAME GEAR PETROLEUM CO. INC.

ADDRESS 300 SUTTON PLACE WICHITA, KS, 67202

LEASE AND WELL NO. WATKENS B 1-10 COUNTY BARBER STATE KS Sec. 10 Twp 30S Rge 11W

Mail Invoice To SAME Co. Name SAME Address SAME No. Copies Requested 5

Mail Charts To SAME Address SAME No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2731 ft. to 2783 ft. Total Depth 2783 ft.

Packer Depth 2726 ft. Size 6 7/8 in. Packer Depth 2731 ft. Size 6 5/8 in.

Packer Depth — ft. Size — in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 2733 ft. Recorder Number 10980 Cap. 4200

Bottom Recorder Depth (Outside) 2737 ft. Recorder Number 6233 Cap. 4000

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

Drilling Contractor GRAVES DRILL CO. REG #1 Drill Collar Length 120' I. D. 2.2 in.

Mud Type PREMIX STINGIN Viscosity 37 Weight Pipe Length — I. D. — in.

Weight 9.6 Water Loss 13.6 cc. Drill Pipe Length 2587 I. D. 3.8 in.

Chlorides 51,000 P.P.M. Test Tool Length 24' ft. Tool Size 4.5 in.

Jars: Make — Serial Number — Anchor Length 52' ft. Size 5.5 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 4.5 in.

Blow: FEW BUBBLES DEED IN SMDN on Initial flow period

FEW BUBBLES + WEAK BLOW on final flow period

Recovered 150 ft. of W.M.M.U. CHLORIDES 82,000

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Remarks:

Time On Location 12:15 P.M. Time Pick Up Tool 1:00 P.M. Time Off Location — P.M.

Time Set Packer(s) 2:50 P.M. Time Started Off Bottom 4:50 P.M. Maximum Temperature 99°

Initial Hydrostatic Pressure (A) 1497 P.S.I.

Initial Flow Period Minutes 30 (B) 64 P.S.I. to (C) 75 P.S.I.

Initial Closed In Period Minutes 30 (D) 707 P.S.I.

Final Flow Period Minutes 30 (E) 107 P.S.I. to (F) 118 P.S.I.

Final Closed In Period Minutes 30 (G) 685 P.S.I.

Final Hydrostatic Pressure (H) 1476 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By W. Bruce Bidleman Signature of Customer or his authorized representative

Western Representative Danell Clapham Thank you Bruce

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (625.00), Safety Joint (65.00), Mileage (105), Fluid Sampler, Extra Charts, Insurance, and TOTAL (768.75).

WESTERN TESTING CO., INC.

Pressure Data

Date 1-27 Test Ticket No. 13506  
 Recorder No. 10980 Capacity 4200 Location 2733  
 Clock No. --- Elevation 1818 KB Well Temperature 99

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1487</u> P.S.I.	<u>2:50</u> A	<u>M</u>
B First Initial Flow Pressure	<u>55</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Min
C First Final Flow Pressure	<u>76</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mir
D Initial Closed-in Pressure	<u>712</u> P.S.I.	<u>30</u> Mins.	<u>40</u> Mir
E Second Initial Flow Pressure	<u>97</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mir
F Second Final Flow Pressure	<u>106</u> P.S.I.		
G Final Closed-in Pressure	<u>675</u> P.S.I.		
H Final Hydrostatic Mud	<u>1487</u> P.S.I.		

PRESSURE BREAKDOWN

<p><b>First Flow Pressure</b>                  Breakdown: <u>6</u> Inc.                  of <u>5</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Initial Shut-In</b>                  Breakdown: <u>11</u> Inc.                  of <u>3</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Second Flow Pressure</b>                  Breakdown: <u>8</u> Inc.                  of <u>5</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Final Shut-In</b>                  Breakdown: <u>10</u> Inc.                  of <u>3</u> mins. and a                  final inc. of <u>0</u> Min.</p>
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>106</u>
P 2	<u>5</u>	<u>3</u>	<u>483</u>	<u>5</u>	<u>97</u>	<u>3</u>	<u>438</u>
P 3	<u>10</u>	<u>6</u>	<u>583</u>	<u>10</u>	<u>97</u>	<u>6</u>	<u>545</u>
P 4	<u>15</u>	<u>9</u>	<u>624</u>	<u>15</u>	<u>98</u>	<u>9</u>	<u>588</u>
P 5	<u>20</u>	<u>12</u>	<u>650</u>	<u>20</u>	<u>101</u>	<u>12</u>	<u>615</u>
P 6	<u>25</u>	<u>15</u>	<u>665</u>	<u>25</u>	<u>101</u>	<u>15</u>	<u>632</u>
P 7	<u>30</u>	<u>18</u>	<u>679</u>	<u>30</u>	<u>104</u>	<u>18</u>	<u>644</u>
P 8	<u>35</u>	<u>21</u>	<u>689</u>	<u>35</u>	<u>105</u>	<u>21</u>	<u>654</u>
P 9	<u>40</u>	<u>24</u>	<u>697</u>	<u>40</u>	<u>106</u>	<u>24</u>	<u>664</u>
P10	<u>45</u>	<u>27</u>	<u>705</u>	<u>45</u>		<u>27</u>	<u>673</u>
P11	<u>50</u>	<u>30</u>	<u>709</u>	<u>50</u>		<u>30</u>	<u>675</u>
P12	<u>55</u>	<u>33</u>	<u>712</u>	<u>55</u>		<u>33</u>	
P13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</u>	
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

Company Gear Petroleum Company, Inc. Lease & Well No. Watkins "B" #1-10  
 Elevation 1818 Kelly Bushing Formation Indian Cave Effective Pay - Ft. Ticket No. 13506  
 Date 1/27/82 Sec. 10 Twp. 30S Range 11W County Barber State Kansas  
 Test Approved by W. Bryce Bidleman Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 2731 ft. to 2783 ft. Total Depth 2783 ft.  
 Packer Depth 2726 ft. Size 6 5/8 in. Packer Depth 2731 ft. Size 6 5/8 in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2733 ft. Recorder Number 10980 Cap. 4200  
 Bottom Recorder Depth (Outside) 2737 ft. Recorder Number 6233 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drlg. Rig #1 Drill Collar Length 120 I. D. 2.2 in.  
 Mud Type premix-starch Viscosity 37 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 13.6 cc. Drill Pipe Length 2587 I. D. 3.8 in.  
 Chlorides 51,000 P.P.M. Test Tool Length 24 ft. Tool Size 4.5 in.  
 Jars: Make - Serial Number - Anchor Length 52 ft. Size 5.5 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 4.5 in.

Blow: Few bubbles and died in five minutes on initial flow period. Few bubbles and weak blow on final flow period.

Recovered 150 ft. of watery mud Chlorides 82,000 ppm  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks:       

Time Set Packer(s) 2:50 ~~P.M.~~ A.M. Time Started Off Bottom 4:50 ~~P.M.~~ A.M. Maximum Temperature 99°  
 Initial Hydrostatic Pressure 1487 P.S.I. (A)  
 Initial Flow Period 30 Minutes (B) 55 P.S.I. to (C) 76 P.S.I.  
 Initial Closed In Period 33 Minutes (D) 712 P.S.I.  
 Final Flow Period 40 Minutes (E) 97 P.S.I. to (F) 106 P.S.I.  
 Final Closed In Period 30 Minutes (G) 675 P.S.I.  
 Final Hydrostatic Pressure 1487 P.S.I. (H)

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 1/27/82 Test Ticket No. 13506  
 Recorder No. 10980 Capacity 4200 Location 2733 Ft.  
 Clock No. -- Elevation 1818 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1487	P.S.I.	2:50A	
B First Initial Flow Pressure	55	P.S.I.	30	30
C First Final Flow Pressure	76	P.S.I.	30	33
D Initial Closed-in Pressure	712	P.S.I.	30	40
E Second Initial Flow Pressure	97	P.S.I.	30	30
F Second Final Flow Pressure	106	P.S.I.		
G Final Closed-in Pressure	675	P.S.I.		
H Final Hydrostatic Mud	1487	P.S.I.		

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	55	0	76	0	97	0	106
P 2	55	3	483	5	97	3	438
P 3	58	6	583	10	97	6	545
P 4	61	9	624	15	98	9	588
P 5	67	12	650	20	101	12	615
P 6	73	15	665	25	101	15	632
P 7	76	18	670	30	104	18	644
P 8		21	689	35	105	21	654
P 9		24	705	40	106	24	664
P10		27	709			27	673
P11		30	712			30	675
P12		33					
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Plot # 13506  
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