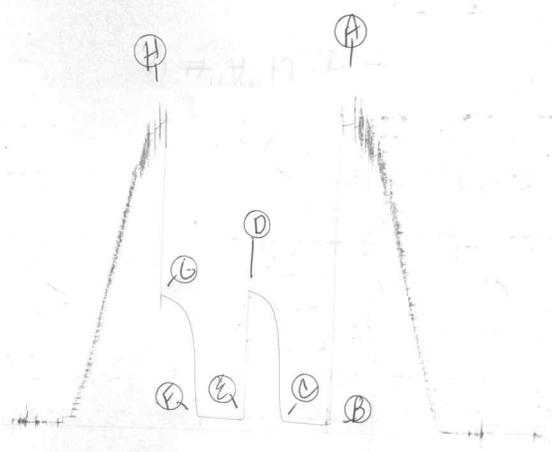


SK# 11409

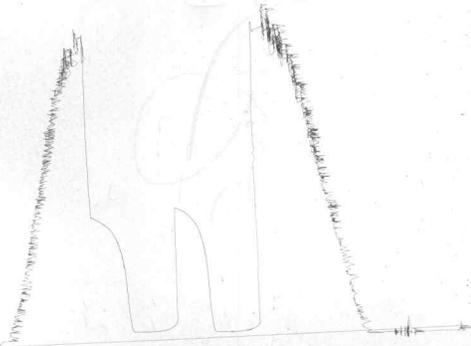
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Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Petroleum Energy, Inc. Lease & Well No. Grossardt "A" #4
Elevation 1849 Ground Level Formation Arbuckle Effective Pay - Ft. Ticket No. 11409
Date 4/18/81 Sec. 9 Twp. 17S Range 11W County Barton State Kansas
Test Approved by Jim Musgrove Western Representative Ray Schwager

Formation Test No. 1 Interval Tested from 3285 ft. to 3312 ft. Total Depth 3312 ft.
Packer Depth 3280 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3285 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3301 ft. Recorder Number 13269 Cap. 4375
Bottom Recorder Depth (Outside) 3304 ft. Recorder Number 13270 Cap. 4375
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 44 Weight Pipe Length 315 I. D. 2.7 in.
Weight 9.9 Water Loss 12.8 cc. Drill Pipe Length 2948 I. D. 3.8 in.
Chlorides 55,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.
Jars: Make - Serial Number - Anchor Length 27 ft. Size 5 1/2 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 4 1/2 XH in.

Blow: Weak blow throughout test

Recovered 1 ft. of oil
Recovered 65 ft. of oil cut mud - 10% oil; 1% gas; 9% water 80% mud
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 10:50 ~~A.M.~~ P.M. Time Started Off Bottom 12:50 ~~A.M.~~ P.M. Maximum Temperature 101
Initial Hydrostatic Pressure 1804 P.S.I. (A)
Initial Flow Period 35 Minutes (B) 48 P.S.I. to (C) 61 P.S.I.
Initial Closed In Period 30 Minutes (D) 797 P.S.I.
Final Flow Period 35 Minutes (E) 70 P.S.I. to (F) 75 P.S.I.
Final Closed In Period 30 Minutes (G) 759 P.S.I.
Final Hydrostatic Pressure 1750 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 4/18/81 Recorder No. 13269 Capacity 4375 Test Ticket No. 11409
 Location 3301 Ft. Elevation 1849 Ground Level Well Temperature 101 °F
 Clock No. -

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1804</u>	P.S.I.	<u>10:50P</u>	<u>M</u>
B First Initial Flow Pressure	<u>48</u>	P.S.I.	<u>30</u>	<u>Mins. 35</u> Mins.
C First Final Flow Pressure	<u>61</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
D Initial Closed-in Pressure	<u>797</u>	P.S.I.	<u>30</u>	<u>Mins. 35</u> Mins.
E Second Initial Flow Pressure	<u>70</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
F Second Final Flow Pressure	<u>75</u>	P.S.I.		
G Final Closed-in Pressure	<u>759</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1750</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>48</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>70</u>	<u>0</u>	<u>75</u>
P 2 <u>5</u>	<u>48</u>	<u>3</u>	<u>216</u>	<u>5</u>	<u>66</u>	<u>3</u>	<u>286</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>565</u>	<u>10</u>	<u>67</u>	<u>6</u>	<u>539</u>
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>670</u>	<u>15</u>	<u>68</u>	<u>9</u>	<u>626</u>
P 5 <u>20</u>	<u>52</u>	<u>12</u>	<u>717</u>	<u>20</u>	<u>70</u>	<u>12</u>	<u>670</u>
P 6 <u>25</u>	<u>55</u>	<u>15</u>	<u>743</u>	<u>25</u>	<u>72</u>	<u>15</u>	<u>698</u>
P 7 <u>30</u>	<u>57</u>	<u>18</u>	<u>763</u>	<u>30</u>	<u>74</u>	<u>18</u>	<u>717</u>
P 8 <u>35</u>	<u>61</u>	<u>21</u>	<u>776</u>	<u>35</u>	<u>75</u>	<u>21</u>	<u>730</u>
P 9 _____	_____	<u>24</u>	<u>787</u>	_____	_____	<u>24</u>	<u>743</u>
P10 _____	_____	<u>27</u>	<u>793</u>	_____	_____	<u>27</u>	<u>752</u>
P11 _____	_____	<u>30</u>	<u>797</u>	_____	_____	<u>30</u>	<u>759</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

JK # 11410
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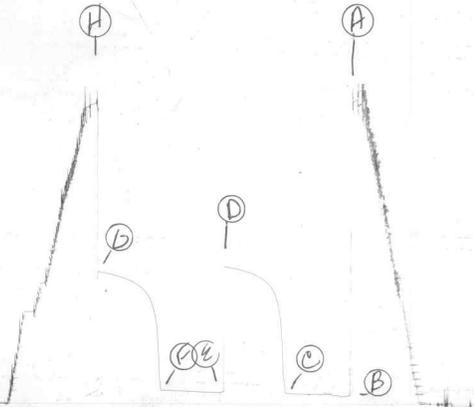
JK # 11410



SK# 11410

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Home Office: Wichita, Kansas 67201
 P.O. Box 1599 (316) 262-5861

Company Petroleum Energy, Inc. Lease & Well No. Grossardt "A" #4
 Elevation 1849 Ground Level Formation Arbuckle Effective Pay - Ft. Ticket No. 11410
 Date 4/19/81 Sec. 9 Twp. 17S Range 11W County Barton State Kansas
 Test Approved by Jim Musgrove Western Representative Ray Schwager

Formation Test No. 2 Interval Tested from 3285 ft. to 3315 ft. Total Depth 3315 ft.
 Packer Depth 3280 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3285 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3303 ft. Recorder Number 13269 Cap. 4375
 Bottom Recorder Depth (Outside) 3306 ft. Recorder Number 13270 Cap. 4375
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Drilling Rig #3 Drill Collar Length - I. D. - in.
 Mud Type Starch Viscosity 44 Weight Pipe Length 315 I. D. 2.7 in.
 Weight 9.9 Water Loss 12.8 cc. Drill Pipe Length 2950 I. D. 3.8 in.
 Chlorides 55,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 30 ft. Size 5 1/2 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 4 1/2 XH in.

Blow: Weak blow throughout test.

Recovered 25 ft. of clean oil
 Recovered 120 ft. of oil cut mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid tool approx 5 ft. to bottom

Time Set Packer(s) 9:40 ~~P.M.~~ A.M. Time Started Off Bottom 12:40 ~~P.M.~~ A.M. Maximum Temperature 100
 Initial Hydrostatic Pressure (A) 1724 P.S.I.
 Initial Flow Period Minutes 50 (B) 46 P.S.I. to (C) 59 P.S.I.
 Initial Closed In Period Minutes 45 (D) 784 P.S.I.
 Final Flow Period Minutes 45 (E) 68 P.S.I. to (F) 77 P.S.I.
 Final Closed In Period Minutes 48 (G) 758 P.S.I.
 Final Hydrostatic Pressure (H) 1724 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 4/19/81

Test Ticket No. 11410

Recorder No. 13269

Capacity 4375

Location 3303 Ft.

Clock No. -

Elevation 1849 Ground Level

Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1724</u> P.S.I.	Open Tool	<u>9:40A</u>	<u>M</u>
B First Initial Flow Pressure	<u>46</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>50</u> Mins.
C First Final Flow Pressure	<u>59</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>784</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>68</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure	<u>77</u> P.S.I.			
G Final Closed-in Pressure	<u>758</u> P.S.I.			
H Final Hydrostatic Mud	<u>1724</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 10 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>46</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>77</u>
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>412</u>	<u>5</u>	<u>65</u>	<u>3</u>	<u>423</u>
P 3 <u>10</u>	<u>44</u>	<u>6</u>	<u>578</u>	<u>10</u>	<u>66</u>	<u>6</u>	<u>552</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>646</u>	<u>15</u>	<u>67</u>	<u>9</u>	<u>611</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>680</u>	<u>20</u>	<u>69</u>	<u>12</u>	<u>646</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>704</u>	<u>25</u>	<u>71</u>	<u>15</u>	<u>670</u>
P 7 <u>30</u>	<u>55</u>	<u>18</u>	<u>722</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>685</u>
P 8 <u>35</u>	<u>55</u>	<u>21</u>	<u>735</u>	<u>35</u>	<u>75</u>	<u>21</u>	<u>698</u>
P 9 <u>40</u>	<u>57</u>	<u>24</u>	<u>746</u>	<u>40</u>	<u>76</u>	<u>24</u>	<u>711</u>
P10 <u>45</u>	<u>58</u>	<u>27</u>	<u>754</u>	<u>45</u>	<u>77</u>	<u>27</u>	<u>722</u>
P11 <u>50</u>	<u>59</u>	<u>30</u>	<u>761</u>			<u>30</u>	<u>728</u>
P12		<u>33</u>	<u>767</u>			<u>33</u>	<u>735</u>
P13		<u>36</u>	<u>773</u>			<u>36</u>	<u>741</u>
P14		<u>39</u>	<u>778</u>			<u>39</u>	<u>748</u>
P15		<u>42</u>	<u>783</u>			<u>42</u>	<u>752</u>
P16		<u>45</u>	<u>784</u>			<u>45</u>	<u>757</u>
P17						<u>48</u>	<u>758</u>
P18							
P19							
P20							