



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 15137

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

Elevation Formation Elgin Sd. Eff. Pay Ft.

COMPANY NAME Midco Exploration District Pratt Inc Date 1-18-82 Customer Order No 200 E. First Suite 520 ADDRESS 411 Farmers + Bankers Bldg Wichita KS 67202 LEASE AND WELL NO Chain #1 COUNTY Barber STATE KS Sec 32 Twp 30 Rge 11w Mail Invoice To Same #1 Chain No. Copies Requested Reg Co. Name Address Mail Charts To Same No. Copies Requested Reg Address

Formation Test No 1 Interval Tested from 3524 ft. to 3585 ft. Total Depth 3585 ft. Packer Depth 3519 ft. Size 6 3/4 in. Packer Depth 3524 ft. Size 6 3/4 in. Top Recorder Depth (Inside) 3527 ft. Recorder Number 5673 Cap. 5400 Bottom Recorder Depth (Outside) 3530 ft. Recorder Number 1565 Cap. 4900 Below Straddle Recorder Depth Recorder Number Cap. Drilling Contractor Graves #1 Drill Collar Length 90 I. D. 2.0 in. Mud Type Chem Viscosity 34 Weight 9.5 Water Loss 72.2 cc. Drill Pipe Length 3414 I. D. 3.8 in. Chlorides 22,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in. Jars: Make Serial Number Anchor Length 30-31 ft. Size 5 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak increasing to strong I.F. - strong thru FF.

Recovered 1660 ft. of Gas In Pipe Recovered 40 ft. of slightly Oil cut Mud - 11% Gas 9% Oil 7% Water 75% Mud Recovered 2180 ft. of Heavy Oil cut Mud - 47% Gas - 32% Oil 7% Water 14% Mud Recovered 120 ft. of Muddy Water Chlorides 52,000 ppm

Time On Location 1:30 A.M. Time Pick Up Tool 3:00 A.M. Time Off Location 10:30 A.M. Time Set Packer(s) 4:45 A.M. Time Started Off Bottom 7:30 A.M. Maximum Temperature 112 degrees P.M. Initial Hydrostatic Pressure (A) 1729 P.S.I. Initial Flow Period 30 (B) 40 P.S.I. to (C) 68 P.S.I. Initial Closed In Period 45 (D) 1336 P.S.I. Final Flow Period 45 (E) 109 P.S.I. to (F) 136 P.S.I. Final Closed In Period 45 (G) 1308 P.S.I. Final Hydrostatic Pressure (H) 1715 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.

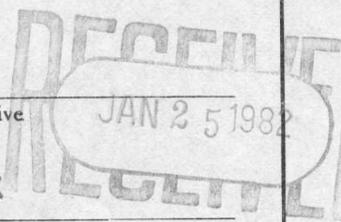
Test Approved By Arden Latblaff Signature of Customer or his authorized representative

Western Representative [Signature]

Thank you

FIELD INVOICE

Open Hole Test \$ 625.00 Misrun \$ Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage 26 \$ 19.50 Fluid Sampler \$ Extra Charts \$ Insurance \$ TOTAL \$ 644.50



WESTERN TESTING CO., INC.

Pressure Data

Date 1-18 Recorder No. 5673 Capacity 5400 Test Ticket No. 15137 Location 3527 F
 Clock No. --- Elevation --- Well Temperature 112 °

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1729</u>	P.S.I.	<u>4:45 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>44</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Min.
C First Final Flow Pressure	<u>78</u>	P.S.I.	<u>45</u> Mins.	<u>48</u> Min.
D Initial Closed-in Pressure	<u>1339</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Min.
E Second Initial Flow Pressure	<u>112</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Min.
F Second Final Flow Pressure	<u>142</u>	P.S.I.		
G Final Closed-in Pressure	<u>1313</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1715</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In			
Breakdown: <u>6</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>15</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>0</u>	<u>44</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>142</u>
P 2	<u>5</u>	<u>3</u>	<u>51</u>	<u>3</u>	<u>136</u>	<u>5</u>	<u>112</u>	<u>3</u>	<u>238</u>
P 3	<u>10</u>	<u>6</u>	<u>59</u>	<u>6</u>	<u>224</u>	<u>10</u>	<u>112</u>	<u>6</u>	<u>428</u>
P 4	<u>15</u>	<u>9</u>	<u>66</u>	<u>9</u>	<u>355</u>	<u>15</u>	<u>116</u>	<u>9</u>	<u>795</u>
P 5	<u>20</u>	<u>12</u>	<u>70</u>	<u>12</u>	<u>667</u>	<u>20</u>	<u>120</u>	<u>12</u>	<u>1036</u>
P 6	<u>25</u>	<u>15</u>	<u>74</u>	<u>15</u>	<u>1037</u>	<u>25</u>	<u>126</u>	<u>15</u>	<u>1136</u>
P 7	<u>30</u>	<u>18</u>	<u>78</u>	<u>18</u>	<u>1165</u>	<u>30</u>	<u>130</u>	<u>18</u>	<u>1192</u>
P 8	<u>35</u>	<u>21</u>		<u>21</u>	<u>1225</u>	<u>35</u>	<u>134</u>	<u>21</u>	<u>1220</u>
P 9	<u>40</u>	<u>24</u>		<u>24</u>	<u>1254</u>	<u>40</u>	<u>138</u>	<u>24</u>	<u>1243</u>
P10	<u>45</u>	<u>27</u>		<u>27</u>	<u>1276</u>	<u>45</u>	<u>142</u>	<u>27</u>	<u>1257</u>
P11	<u>50</u>	<u>30</u>		<u>30</u>	<u>1293</u>	<u>50</u>		<u>30</u>	<u>1271</u>
P12	<u>55</u>	<u>33</u>		<u>33</u>	<u>1306</u>	<u>55</u>		<u>33</u>	<u>1284</u>
P13	<u>60</u>	<u>36</u>		<u>36</u>	<u>1314</u>	<u>60</u>		<u>36</u>	<u>1293</u>
P14		<u>39</u>		<u>39</u>	<u>1323</u>	<u>65</u>		<u>39</u>	<u>1301</u>
P15		<u>42</u>		<u>42</u>	<u>1331</u>	<u>70</u>		<u>42</u>	<u>1308</u>
P16		<u>45</u>		<u>45</u>	<u>1336</u>	<u>75</u>		<u>45</u>	<u>1313</u>
P17		<u>48</u>		<u>48</u>	<u>1339</u>	<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>		<u>57</u>				<u>57</u>	
		<u>60</u>		<u>60</u>				<u>60</u>	

Company Midco Exploration, Inc. Lease & Well No. #1 Chain
 Elevation - Formation Elgin Sand Effective Pay - Ft. Ticket No. 15137
 Date 1/18/82 Sec. 32 Twp. 30S Range 11W County Barber State Kansas
 Test Approved by Arden Ratzlaff Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 3524 ft. to 3585 ft. Total Depth 3585 ft.
 Packer Depth 3519 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3524 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3527 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 3530 ft. Recorder Number 1565 Cap. 4900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Rig #1 Drill Collar Length 90 I. D. 2.2 in.
 Mud Type Chemical Viscosity 34 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 72.2 cc. Drill Pipe Length 3414 I. D. 3.8 in.
 Chlorides 22,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 61 ft. Size 5 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: Weak increasing to strong initial flow period. Strong throughout final flow period.

Recovered 1660 ft. of gas in pipe
 Recovered 40 ft. of slightly oil cut mud - 11% gas; 7% oil; 7% water; 75% mud
 Recovered 180 ft. of heavy oil cut mud - 47% gas; 32% oil; 7% water; 14% mud
 Recovered 120 ft. of muddy water Chlorides 52,000 PPM
 Recovered ft. of

Remarks:

Time Set Packer(s) 4:45 ~~A.M.~~ P.M. Time Started Off Bottom 7:30 ~~A.M.~~ P.M. Maximum Temperature 112
 Initial Hydrostatic Pressure 1729 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 44 P.S.I. to (C) 78 P.S.I.
 Initial Closed In Period 48 Minutes (D) 1339 P.S.I.
 Final Flow Period 45 Minutes (E) 112 P.S.I. to (F) 142 P.S.I.
 Final Closed In Period 45 Minutes (G) 1313 P.S.I.
 Final Hydrostatic Pressure 1715 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 1/18/82 Test Ticket No. 15137
 Recorder No. 5673 Capacity 5400 Location 3527 Ft.
 Clock No. - Elevation - Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1729</u>	P.S.I.	<u>4:45P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>44</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C. First Final Flow Pressure	<u>78</u>	P.S.I.	<u>45</u>	<u>48</u> Mins.
D. Initial Closed-in Pressure	<u>1339</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E. Second Initial Flow Pressure	<u>112</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
F. Second Final Flow Pressure	<u>142</u>	P.S.I.		
G. Final Closed-in Pressure	<u>1313</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1715</u>	P.S.I.		

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 16 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.

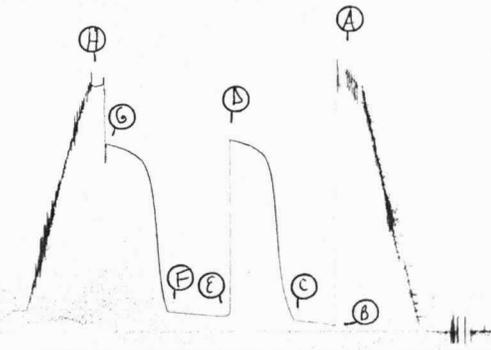
Final Shut-In
 Breakdown: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	<u>0</u>	<u>44</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>142</u>
P 2	<u>5</u>	<u>51</u>	<u>3</u>	<u>136</u>	<u>5</u>	<u>112</u>	<u>3</u>	<u>238</u>
P 3	<u>10</u>	<u>59</u>	<u>6</u>	<u>224</u>	<u>10</u>	<u>112</u>	<u>6</u>	<u>428</u>
P 4	<u>15</u>	<u>66</u>	<u>9</u>	<u>355</u>	<u>15</u>	<u>116</u>	<u>9</u>	<u>795</u>
P 5	<u>20</u>	<u>70</u>	<u>12</u>	<u>667</u>	<u>20</u>	<u>120</u>	<u>12</u>	<u>1036</u>
P 6	<u>25</u>	<u>74</u>	<u>15</u>	<u>1037</u>	<u>25</u>	<u>126</u>	<u>15</u>	<u>1136</u>
P 7	<u>30</u>	<u>78</u>	<u>18</u>	<u>1165</u>	<u>30</u>	<u>130</u>	<u>18</u>	<u>1192</u>
P 8			<u>21</u>	<u>1225</u>	<u>35</u>	<u>134</u>	<u>21</u>	<u>1220</u>
P 9			<u>24</u>	<u>1254</u>	<u>40</u>	<u>138</u>	<u>24</u>	<u>1243</u>
P10			<u>27</u>	<u>1276</u>	<u>45</u>	<u>142</u>	<u>27</u>	<u>1257</u>
P11			<u>30</u>	<u>1293</u>			<u>30</u>	<u>1271</u>
P12			<u>33</u>	<u>1306</u>			<u>33</u>	<u>1284</u>
P13			<u>36</u>	<u>1314</u>			<u>36</u>	<u>1293</u>
P14			<u>39</u>	<u>1323</u>			<u>39</u>	<u>1301</u>
P15			<u>42</u>	<u>1331</u>			<u>42</u>	<u>1308</u>
P16			<u>45</u>	<u>1336</u>			<u>45</u>	<u>1313</u>
P17			<u>48</u>	<u>1339</u>				
P18								
P19								
P20								

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DST 41

TRT # 15137

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 15138

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

Elevation _____ Formation Miss Eff. Pay _____ Ft.

COMPANY NAME Midco Exploration, Inc. District Pratt Date 1-21-82 Customer Order No. 2006 First Unit 520

ADDRESS 411 Farmers + Bankers Bld Wichita KS

LEASE AND WELL NO. Chain #1 COUNTY Barber STATE KS Sec. 32 Twp 30 Rge 11w

Mail Invoice To Same #1 Chain No. Copies Requested Reg

Mail Charts To Same Address _____ No. Copies Requested Reg

Formation Test No. 2 Interval Tested from 4433 ft. to 4456 ft. Total Depth 4456 ft.

Packer Depth 4428 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4433 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4436 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4439 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor Graves #1 Drill Collar Length 120 I. D. 2.2 in.

Mud Type Chem Viscosity 47 Weight Pipe Length _____ I. D. _____ in.

Weight 9.4 Water Loss 13.0 cc. Drill Pipe Length 4293 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make _____ Serial Number _____ Anchor Length 23 ft. Size 5 1/2 OD in.

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

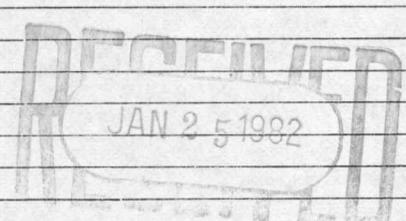
Main Hole Size 2 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Wesk thru IF No Blow FF

Recovered 30 ft. of Mud

Recovered _____ ft. of _____

Remarks: _____



Time On Location	<u>11:30</u> <u>A.M.</u>	Time Pick Up Tool	<u>12:30</u> <u>P.M.</u>	Time Off Location	<u>7:00</u> <u>A.M.</u>
Time Set Packer(s)	<u>2:05</u> <u>A.M.</u>	Time Started Off Bottom	<u>4:35</u> <u>P.M.</u>	Maximum Temperature	<u>119°</u>
Initial Hydrostatic Pressure	(A) <u>2190</u> P.S.I.				
Initial Flow Period	Minutes <u>30</u> (B) <u>13</u> P.S.I.			(C) <u>13</u> P.S.I.	
Initial Closed In Period	Minutes <u>45</u> (D) <u>27</u> P.S.I.				
Final Flow Period	Minutes <u>30</u> (E) <u>13</u> P.S.I.			(F) <u>13</u> P.S.I.	
Final Closed In Period	Minutes <u>45</u> (G) <u>27</u> P.S.I.				
Final Hydrostatic Pressure	(H) <u>2176</u> P.S.I.				

COMPANY TERMS

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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 Arden Ratcliff
Signature of Customer or his authorized representative

Western Representative [Signature]

Thank you

FIELD INVOICE

Open Hole Test	\$ <u>700.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage <u>26</u>	\$ <u>19.50</u>
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ _____
TOTAL	\$ <u>719.50</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 1-21 Test Ticket No. 15138
 Recorder No. 5673 Capacity 5400 Location 4436
 Clock No. --- Elevation --- Well Temperature 118

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2187</u> P.S.I.	<u>2:05</u> P	<u>M</u>
B First Initial Flow Pressure	<u>16</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Min
C First Final Flow Pressure	<u>21</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Min
D Initial Closed-in Pressure	<u>27</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Min
E Second Initial Flow Pressure	<u>24</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Min
F Second Final Flow Pressure	<u>24</u> P.S.I.		
G Final Closed-in Pressure	<u>32</u> P.S.I.		
H Final Hydrostatic Mud	<u>2187</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>16</u>	<u>0</u> <u>21</u>	<u>0</u> <u>24</u>	<u>0</u> <u>24</u>			
P 2	<u>5</u> <u>16</u>	<u>3</u> <u>21</u>	<u>5</u> <u>24</u>	<u>3</u> <u>24</u>			
P 3	<u>10</u> <u>16</u>	<u>6</u> <u>21</u>	<u>10</u> <u>24</u>	<u>6</u> <u>24</u>			
P 4	<u>15</u> <u>16</u>	<u>9</u> <u>21</u>	<u>15</u> <u>24</u>	<u>9</u> <u>24</u>			
P 5	<u>20</u> <u>21</u>	<u>12</u> <u>22</u>	<u>20</u> <u>24</u>	<u>12</u> <u>24</u>			
P 6	<u>25</u> <u>21</u>	<u>15</u> <u>22</u>	<u>25</u> <u>24</u>	<u>15</u> <u>24</u>			
P 7	<u>30</u> <u>21</u>	<u>18</u> <u>22</u>	<u>30</u> <u>24</u>	<u>18</u> <u>24</u>			
P 8	<u>35</u> <u>21</u>	<u>21</u> <u>22</u>	<u>35</u> <u>24</u>	<u>21</u> <u>24</u>			
P 9	<u>40</u> <u>21</u>	<u>24</u> <u>23</u>	<u>40</u> <u>24</u>	<u>24</u> <u>25</u>			
P 10	<u>45</u> <u>21</u>	<u>27</u> <u>24</u>	<u>45</u> <u>24</u>	<u>27</u> <u>26</u>			
P 11	<u>50</u> <u>21</u>	<u>30</u> <u>25</u>	<u>50</u> <u>24</u>	<u>30</u> <u>27</u>			
P 12	<u>55</u> <u>21</u>	<u>33</u> <u>26</u>	<u>55</u> <u>24</u>	<u>33</u> <u>28</u>			
P 13	<u>60</u> <u>21</u>	<u>36</u> <u>27</u>	<u>60</u> <u>24</u>	<u>36</u> <u>29</u>			
P 14	<u>65</u> <u>21</u>	<u>39</u> <u>27</u>	<u>65</u> <u>24</u>	<u>39</u> <u>30</u>			
P 15	<u>70</u> <u>21</u>	<u>42</u> <u>27</u>	<u>70</u> <u>24</u>	<u>42</u> <u>31</u>			
P 16	<u>75</u> <u>21</u>	<u>45</u> <u>27</u>	<u>75</u> <u>24</u>	<u>45</u> <u>32</u>			
P 17	<u>80</u> <u>21</u>	<u>48</u> <u>27</u>	<u>80</u> <u>24</u>	<u>48</u> <u>32</u>			
P 18	<u>85</u> <u>21</u>	<u>51</u> <u>27</u>	<u>85</u> <u>24</u>	<u>51</u> <u>32</u>			
P 19	<u>90</u> <u>21</u>	<u>54</u> <u>27</u>	<u>90</u> <u>24</u>	<u>54</u> <u>32</u>			
P 20	<u>95</u> <u>21</u>	<u>57</u> <u>27</u>	<u>95</u> <u>24</u>	<u>57</u> <u>32</u>			
	<u>100</u> <u>21</u>	<u>60</u> <u>27</u>	<u>100</u> <u>24</u>	<u>60</u> <u>32</u>			

Company Midco Exploration, Inc. Lease & Well No. #1 Chain
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 15138
 Date 1/21/82 Sec. 32 Twp. 30S Range 11W County Barber State Kansas
 Test Approved by Arden Ratzlaff Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 4433 ft. to 4456 ft. Total Depth 4456 ft.
 Packer Depth 4428 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4433 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4436 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 4439 ft. Recorder Number 1565 Cap. 4900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Rig #1 Drill Collar Length 120 I. D. 2.2 in.
 Mud Type Chemical Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 12.0 cc. Drill Pipe Length 4293 I. D. 3.8 in.
 Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 23 ft. Size 5 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: Weak throughout initial flow period. No blow on final flow period.

Recovered 30 ft. of mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 2:05 ~~A.M.~~ P.M. Time Started Off Bottom 4:35 ~~A.M.~~ P.M. Maximum Temperature 118
 Initial Hydrostatic Pressure (A) 2187 P.S.I.
 Initial Flow Period Minutes 30 (B) 16 P.S.I. to (C) 21 P.S.I.
 Initial Closed In Period Minutes 45 (D) 27 P.S.I.
 Final Flow Period Minutes 30 (E) 24 P.S.I. to (F) 24 P.S.I.
 Final Closed In Period Minutes 45 (G) 32 P.S.I.
 Final Hydrostatic Pressure (H) 2187 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 1/21/82 Test Ticket No. 15138
 Recorder No. 5673 Capacity 5400 Location 4436 Ft.
 Clock No. - Elevation - Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2187</u> P.S.I.	Open Tool	<u>2:05P</u> M	
B. First Initial Flow Pressure	<u>16</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>21</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D. Initial Closed-in Pressure	<u>27</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>24</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F. Second Final Flow Pressure	<u>24</u> P.S.I.			
G. Final Closed-in Pressure	<u>32</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2187</u> P.S.I.			

PRESSURE BREAKDOWN

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

Final Shut-In
 Breakdown: 15 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>16</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>24</u>
P 2	<u>5</u>	<u>16</u>	<u>3</u>	<u>21</u>	<u>5</u>	<u>24</u>	<u>3</u>	<u>24</u>
P 3	<u>10</u>	<u>16</u>	<u>6</u>	<u>21</u>	<u>10</u>	<u>24</u>	<u>6</u>	<u>24</u>
P 4	<u>15</u>	<u>16</u>	<u>9</u>	<u>21</u>	<u>15</u>	<u>24</u>	<u>9</u>	<u>24</u>
P 5	<u>20</u>	<u>16</u>	<u>12</u>	<u>21</u>	<u>20</u>	<u>24</u>	<u>12</u>	<u>24</u>
P 6	<u>25</u>	<u>21</u>	<u>15</u>	<u>22</u>	<u>25</u>	<u>24</u>	<u>15</u>	<u>24</u>
P 7	<u>30</u>	<u>21</u>	<u>18</u>	<u>22</u>	<u>30</u>	<u>24</u>	<u>18</u>	<u>24</u>
P 8			<u>21</u>	<u>22</u>			<u>21</u>	<u>24</u>
P 9			<u>24</u>	<u>23</u>			<u>24</u>	<u>25</u>
P10			<u>27</u>	<u>24</u>			<u>27</u>	<u>26</u>
P11			<u>30</u>	<u>25</u>			<u>30</u>	<u>27</u>
P12			<u>33</u>	<u>26</u>			<u>33</u>	<u>28</u>
P13			<u>36</u>	<u>27</u>			<u>36</u>	<u>29</u>
P14			<u>39</u>	<u>27</u>			<u>39</u>	<u>30</u>
P15			<u>42</u>	<u>27</u>			<u>42</u>	<u>31</u>
P16			<u>45</u>	<u>27</u>			<u>45</u>	<u>32</u>
P17								
P18								
P19								
P20								

5673
Dsta2

TKT # 15138

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