

Company Griggs Oil, Inc. Lease & Well No. Einsel #1  
 Elevation 1910 Kelly Bush Formation Mississippi Effective Pay - Ft. Ticket No. 3498  
 Date 2-6-80 Sec. 14 Twp. 33S Range 17W County Comanche State Kansas  
 Test Approved by Douglas V. Davis, Jr. Western Representative Mike Tritt

Formation Test No. 1 Interval Tested from 5095 ft. to 5110 ft. Total Depth 5110 ft.  
 Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number 2605 Cap. \_\_\_\_\_  
 Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number 3354 Cap. \_\_\_\_\_  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number - Cap. \_\_\_\_\_

Drilling Contractor Venture Drlg. (#1) Drill Collar Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
 Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
 Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Drill Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
 Chlorides \_\_\_\_\_ P.P.M. Test Tool Length \_\_\_\_\_ ft. Tool Size \_\_\_\_\_ in.  
 Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Surface Choke Size \_\_\_\_\_ in. Bottom Choke Size \_\_\_\_\_ in.  
 Main Hole Size \_\_\_\_\_ in. Tool Joint Size \_\_\_\_\_ in.

Blow: \_\_\_\_\_

Recovered 90 ft. of drilling mud.  
 Recovered 270 ft. of gas and oil cut mud  
 Recovered 180 ft. of salt water  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Tool would not turn on bottom. Tool spun OK after coming out of hole.

Time Set Packer(s) 9:40 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 10:35 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature \_\_\_\_\_  
 Initial Hydrostatic Pressure ..... (A) 2466 P.S.I.  
 Initial Flow Period ..... Minutes (B) 305 P.S.I. to (C) 270 P.S.I.  
 Initial Closed In Period ..... Minutes (D) - P.S.I.  
 Final Flow Period ..... Minutes (E) - P.S.I. to (F) - P.S.I.  
 Final Closed In Period ..... Minutes (G) - P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2445 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 2-6-80 Recorder No. 2605 Capacity 4150 Test Ticket No. 3498  
 Clock No. - Elevation 1910 Kelly Bushing Location - Ft. -  
 Well Temperature - °F

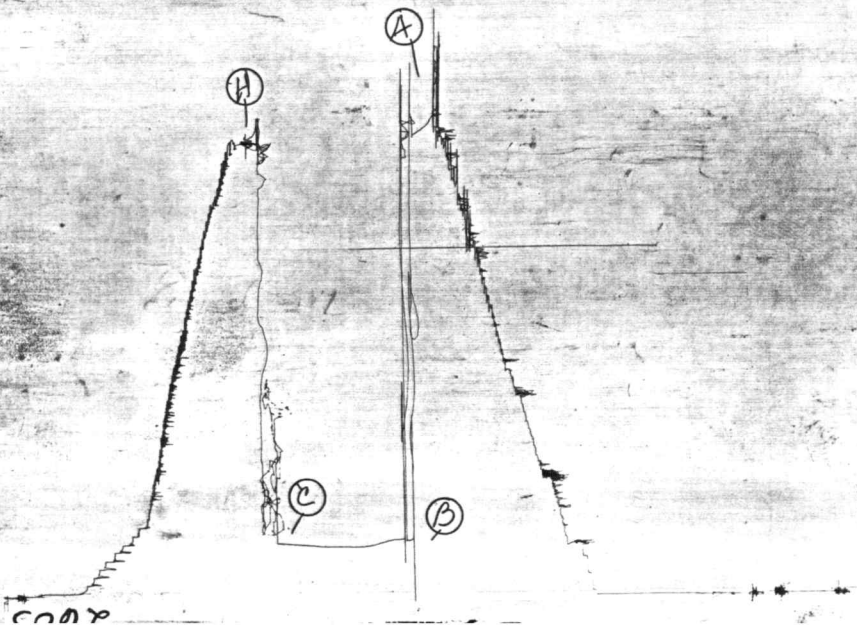
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2466</u> P.S.I.	Open Tool	<u>9:40A.</u> M	
B First Initial Flow Pressure	<u>305</u> P.S.I.	First Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
C First Final Flow Pressure	<u>270</u> P.S.I.	Initial Closed-in Pressure	<u>-</u> Mins.	<u>-</u> Mins.
D Initial Closed-in Pressure	<u>-</u> P.S.I.	Second Flow Pressure	<u>-</u> Mins.	<u>-</u> Mins.
E Second Initial Flow Pressure	<u>-</u> P.S.I.	Final Closed-in Pressure	<u>-</u> Mins.	<u>-</u> Mins.
F Second Final Flow Pressure	<u>-</u> P.S.I.			
G Final Closed-in Pressure	<u>-</u> P.S.I.			
H Final Hydrostatic Mud	<u>2445</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: _____ 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.	Point Minutes
P 1	<u>298</u>							
P 2	<u>290</u>							
P 3	<u>286</u>							
P 4	<u>275</u>							
P 5	<u>265</u>							
P 6	<u>256</u>							
P 7	<u>252</u>							
P 8	<u>252</u>							
P 9	<u>252</u>							
P10	<u>252</u>							
P11	<u>253</u>							
P12	<u>254</u>							
P13	<u>255</u>							
P14	<u>258</u>							
P15	<u>262</u>							
P16	<u>265</u>							
P17	<u>267</u>							
P18	<u>269</u>							
P19	<u>270</u>							
P20								

2600 DSF #1

TKT# 3498  
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Company Griggs Oil, Inc. Lease & Well No. Einsel #1  
 Elevation 1910 Kelly Bush Formation Mississippi Effective Pay - Ft. Ticket No. 3564  
 Date 2-7-80 Sec. 14 Twp. 33S Range 17W County Commanche State Kansas  
 Test Approved by Douglas V. Davis, Jr. Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 5086 ft. to 5100 ft. Total Depth 5100 ft.  
 Packer Depth 5081 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 5086 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 5091 ft. Recorder Number 2607 Cap. 4150  
 Bottom Recorder Depth (Outside) 5094 ft. Recorder Number 3351 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Venture Drlg. (#1) Drill Collar Length 560 I. D. 2 1/4 in.  
 Mud Type Premix-Drispac Viscosity 37 Weight Pipe Length - I. D. - in.  
 Weight 9.2 Water Loss 26.8 cc. Drill Pipe Length 4497 I. D. 3.8 in.  
 Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 410 Anchor Length 14 ft. Size 5 1/2 OD in.  
 Did Well Flow? No Reversed Out - 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: Fair blow decreased to weak blow and died in 27 minutes on initial flow period. WEak  
blow died in 15 minutes on second flow period.

Recovered 2800 ft. of drilling mud  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks: Tool opened going in hole. Last 15 stands tight going in hole.

Time Set Packer(s) 3:55 ~~==P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 8:25 ~~==P.M.~~ <sup>A.M.</sup> Maximum Temperature -  
 Initial Hydrostatic Pressure ..... (A) 2442 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) - P.S.I. to (C) - P.S.I.  
 Initial Closed In Period ..... Minutes 60 (D) - P.S.I.  
 Final Flow Period ..... Minutes 60 (E) - P.S.I. to (F) - P.S.I.  
 Final Closed In Period ..... Minutes 120 (G) - P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2405 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 2-7-80 Test Ticket No. 3564  
 Recorder No. 2607 Capacity 4150 Location 5091 Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2442</u> P.S.I.	Open Tool	<u>3:55</u> A M	
B First Initial Flow Pressure	— P.S.I.	First Flow Pressure	<u>30</u> Mins.	— Mins.
C First Final Flow Pressure	— P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	— Mins.
D Initial Closed-in Pressure	— P.S.I.	Second Flow Pressure	<u>60</u> Mins.	— Mins.
E Second Initial Flow Pressure	— P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	— Mins.
F Second Final Flow Pressure	— P.S.I.			
G Final Closed-in Pressure	— P.S.I.			
H Final Hydrostatic Mud	<u>2405</u> <del>2406</del> P.S.I.			

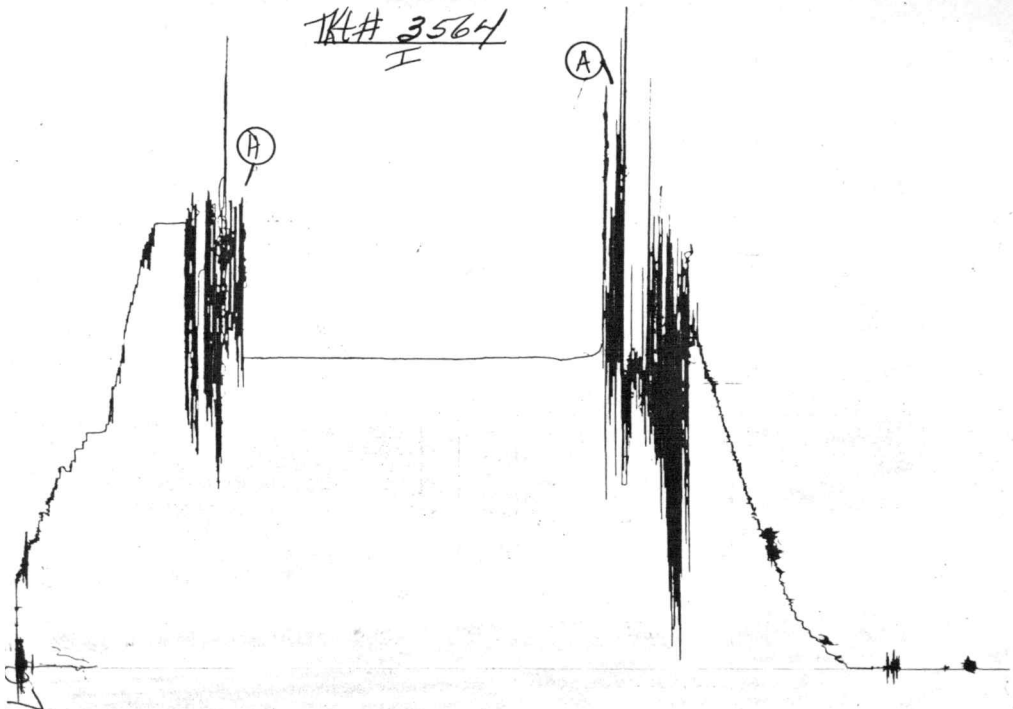
### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Point Minutes	Point Minutes	Point Minutes	Point Minutes
P 1	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
P 2	<u>5</u>	<u>3</u>	<u>5</u>	<u>3</u>
P 3	<u>10</u>	<u>6</u>	<u>10</u>	<u>6</u>
P 4	<u>15</u>	<u>9</u>	<u>15</u>	<u>9</u>
P 5	<u>20</u>	<u>12</u>	<u>20</u>	<u>12</u>
P 6	<u>25</u>	<u>15</u>	<u>25</u>	<u>15</u>
P 7	<u>30</u>	<u>18</u>	<u>30</u>	<u>18</u>
P 8	<u>35</u>	<u>21</u>	<u>35</u>	<u>21</u>
P 9	<u>40</u>	<u>24</u>	<u>40</u>	<u>24</u>
P10	<u>45</u>	<u>27</u>	<u>45</u>	<u>27</u>
P11	<u>50</u>	<u>30</u>	<u>50</u>	<u>30</u>
P12	<u>55</u>	<u>33</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>

TKL# 3564  
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Company Griggs Oil, Inc. Lease & Well No. Einsel #1

Elevation ----- Formation Mississippi Effective Pay --- Ft. Ticket No. 3565

Date 2/9/80 Sec. 14 Twp. 33S Range 17W County Comanche State Kansas

Test Approved by Douglas V. Davis, Jr. Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 5084 ft. to 5100 ft. Total Depth 5100 ft.

Packer Depth 5079 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 5084 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5090 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 5093 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Venture Drilling Rig #1 Drill Collar Length 90 I. D. 2 1/4 in.

Mud Type premix-drispic Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 8.8 cc. Drill Pipe Length 4965 I. D. 3.8 in.

Chlorides 34,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410 Anchor Length 16 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 Tool Joint Size 4 1/2 FH in.

Blow: Weak blow increased to strong blow on first flow period. Strong blow throughout second flow period.

Recovered 210 ft. of oil and gas cut mud

Recovered 180 ft. of salt water

Recovered        ft. of       

Recovered        ft. of       

Recovered        ft. of       

Remarks:       

Time Set Packer(s) 10:15 A.M. Time Started Off Bottom 2:00 P.M. Maximum Temperature 128°

Initial Hydrostatic Pressure (A) 2390 P.S.I.

Initial Flow Period Minutes 30 (B) 135 P.S.I. to (C) 114 P.S.I.

Initial Closed In Period Minutes 45 (D) 1563 P.S.I.

Final Flow Period Minutes 60 (E) 142 P.S.I. to (F) 167 P.S.I.

Final Closed In Period Minutes 90 (G) 1580 P.S.I.

Final Hydrostatic Pressure (H) 2364 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 2/9/80 Test Ticket No. 3565  
 Recorder No. 2607 Capacity 4150 Location 5090 Ft.  
 Clock No. ----- Elevation ----- Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2390</u> P.S.I.	Open Tool	<u>10:15P</u> M	
B First Initial Flow Pressure	<u>135</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>114</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1563</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>142</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>167</u> P.S.I.			
G Final Closed-in Pressure	<u>1580</u> P.S.I.			
H Final Hydrostatic Mud	<u>2364</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a 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>135</u>	<u>0</u>	<u>114</u>	<u>0</u>	<u>142</u>	<u>0</u>	<u>167</u>	
P 2 <u>5</u>	<u>116</u>	<u>3</u>	<u>606</u>	<u>5</u>	<u>142</u>	<u>3</u>	<u>521</u>	
P 3 <u>10</u>	<u>112</u>	<u>6</u>	<u>983</u>	<u>10</u>	<u>142</u>	<u>6</u>	<u>887</u>	
P 4 <u>15</u>	<u>114</u>	<u>9</u>	<u>1176</u>	<u>15</u>	<u>146</u>	<u>9</u>	<u>1094</u>	
P 5 <u>20</u>	<u>114</u>	<u>12</u>	<u>1297</u>	<u>20</u>	<u>150</u>	<u>12</u>	<u>1236</u>	
P 6 <u>25</u>	<u>114</u>	<u>15</u>	<u>1372</u>	<u>25</u>	<u>157</u>	<u>15</u>	<u>1318</u>	
P 7 <u>30</u>	<u>114</u>	<u>18</u>	<u>1416</u>	<u>30</u>	<u>161</u>	<u>18</u>	<u>1370</u>	
P 8		<u>21</u>	<u>1454</u>	<u>35</u>	<u>163</u>	<u>21</u>	<u>1410</u>	
P 9		<u>24</u>	<u>1481</u>	<u>40</u>	<u>167</u>	<u>24</u>	<u>1433</u>	
P10		<u>27</u>	<u>1506</u>	<u>45</u>	<u>169</u>	<u>27</u>	<u>1460</u>	
P11		<u>30</u>	<u>1521</u>	<u>50</u>	<u>169</u>	<u>30</u>	<u>1475</u>	
P12		<u>33</u>	<u>1530</u>	<u>55</u>	<u>167</u>	<u>33</u>	<u>1487</u>	
P13		<u>36</u>	<u>1539</u>	<u>60</u>	<u>167</u>	<u>36</u>	<u>1502</u>	
P14		<u>39</u>	<u>1547</u>			<u>39</u>	<u>1513</u>	
P15		<u>42</u>	<u>1555</u>			<u>42</u>	<u>1523</u>	
P16		<u>45</u>	<u>1563</u>			<u>45</u>	<u>1532</u>	
P17						<u>48</u>	<u>1538</u>	
P18						<u>51</u>	<u>1544</u>	
P19						<u>54</u>	<u>1549</u>	
P20						<u>57</u>	<u>1554</u>	

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 2/9/80 Test Ticket No. 3565  
 Recorder No. 2607 Capacity 4150 Location 5090 Ft.  
 Clock No. ----- Elevation ----- Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2390</u> P.S.I.	Open Tool	<u>10:15P</u> M	
B First Initial Flow Pressure	<u>135</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>114</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1563</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>142</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>167</u> P.S.I.			
G Final Closed-in Pressure	<u>1580</u> P.S.I.			
H Final Hydrostatic Mud	<u>2364</u> P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>30</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>63</u>	<u>1562</u>
P 2						<u>66</u>	<u>1565</u>
P 3						<u>69</u>	<u>1568</u>
P 4						<u>72</u>	<u>1571</u>
P 5						<u>75</u>	<u>1574</u>
P 6						<u>78</u>	<u>1575</u>
P 7						<u>81</u>	<u>1576</u>
P 8						<u>84</u>	<u>1577</u>
P 9						<u>87</u>	<u>1579</u>
P10						<u>90</u>	<u>1580</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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