

Company Eagle Exploration, Inc. Lease & Well No. Eagle Circle #1
Elevation -- Formation Mississippi Effective Pay - Ft. Ticket No. 11154
Date 3/15/81 Sec. 14 Twp. 33S Range 11W County Barber State Kansas
Test Approved by J. R. Byers Western Representative Les Holtz

Formation Test No. 1 Interval Tested from 4528 ft. to 4542 ft. Total Depth 4542 ft.

Packer Depth 4228 ft. Size 6 5/8 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) 4537 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4541 ft. Recorder Number 13267 Cap. 4050

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

Drilling Contractor Sarcee Drlg. Drill Collar Length 59 I. D. 2.26 in.

Mud Type monpac Viscosity 50 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 8.2 cc. Drill Pipe Length 4447 I. D. 3.3 in.

Chlorides 12,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 406 Anchor Length 14 ft. Size 5 1/2 in.

Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: MISRUN

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

PACKER FAILURE

Time Set Packer(s) A.M. P.M. Time Started Off Bottom A.M. P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 2258 P.S.I.

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

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

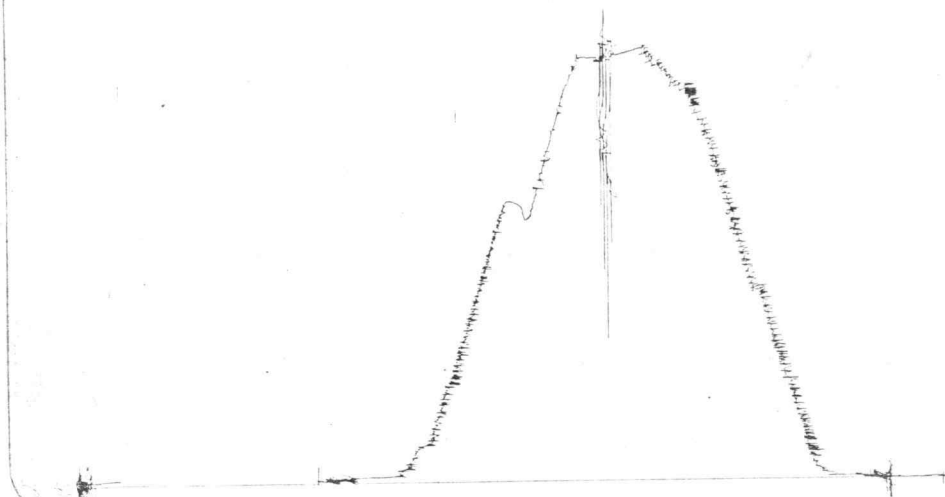
Final Flow Period Minutes (E) -- P.S.I. to (F) -- P.S.I.

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

Final Hydrostatic Pressure (H) 2222 P.S.I.

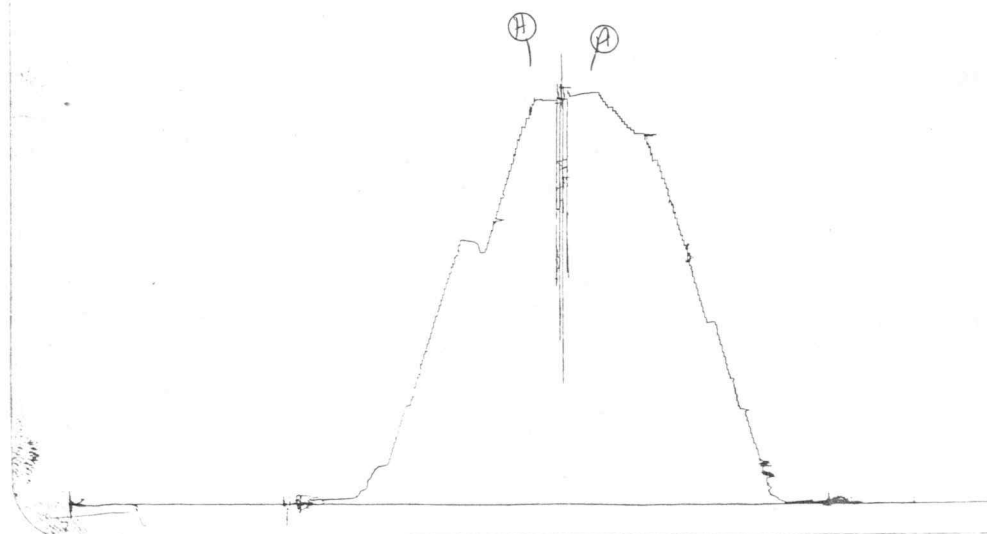
Sta # 11154
0

13267
11154
DST #1



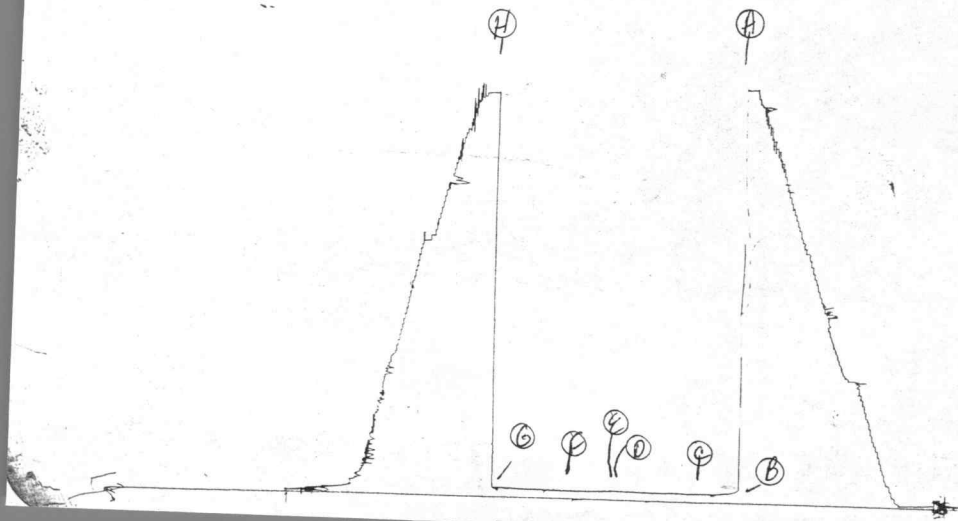
Sta # 11154
I

1057
11154
DST #1



TK # 11155
I

1051
T11155
03J#2



Company Eagle Exploration, Inc. Lease & Well No. Eagle Circle #1
Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 11155
Date 3/15/81 Sec. 14 Twp. 33S Range 11W County Barber State Kansas
Test Approved by J L Byers Western Representative Les Holtz
Formation Test No. 2 Interval Tested from 4533 ft. to 4542 ft. Total Depth 4542 ft.
Packer Depth 4528 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4533 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4537 ft. Recorder Number 1051 Cap. 4250
Bottom Recorder Depth (Outside) 4542 ft. Recorder Number 13267 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Jorcee Drilling Drill Collar Length 59 I. D. 2.26 in.
Mud Type Monpac Viscosity 50 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 8.2 cc. Drill Pipe Length 4447 I. D. 3.3 in.
Chlorides 12,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 406 Anchor Length 9 ft. Size 5 1/2 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 4FH in.

Blow: Weak blow died in 14 minutes initial flow period. Weak blow died in 5 minutes final flow period.

Recovered 10 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:30 ~~A.M.~~ P.M. Time Started Off Bottom 12:30 ~~A.M.~~ P.M. Maximum Temperature 123
Initial Hydrostatic Pressure 2262 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 67 P.S.I. to (C) 48 P.S.I.
Initial Closed In Period 60 Minutes (D) 54 P.S.I.
Final Flow Period 30 Minutes (E) 52 P.S.I. to (F) 48 P.S.I.
Final Closed In Period 57 Minutes (G) 56 P.S.I.
Final Hydrostatic Pressure 2220 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 3/15/81 Recorder No. 1051 Capacity 4250 Test Ticket No. 11155
 Clock No. --- Elevation ----- Location 4537 Ft. ---
 Well Temperature 123 °F

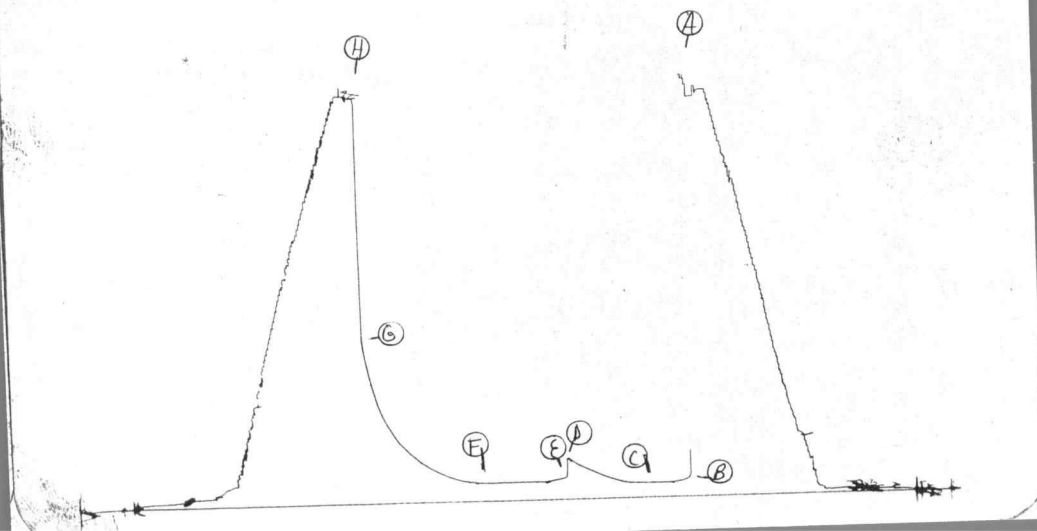
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2262</u> P.S.I.	<u>9:30P</u>	<u>M</u>
B First Initial Flow Pressure	<u>67</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>48</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>54</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>52</u> P.S.I.	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>48</u> P.S.I.		
G Final Closed-in Pressure	<u>56</u> P.S.I.		
H Final Hydrostatic Mud	<u>2220</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>19</u> Inc. 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>67</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>52</u>	<u>0</u>	<u>48</u>
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>51</u>	<u>3</u>	<u>48</u>
P 3 <u>10</u>	<u>54</u>	<u>6</u>	<u>48</u>	<u>10</u>	<u>50</u>	<u>6</u>	<u>49</u>
P 4 <u>15</u>	<u>49</u>	<u>9</u>	<u>48</u>	<u>15</u>	<u>48</u>	<u>9</u>	<u>49</u>
P 5 <u>20</u>	<u>48</u>	<u>12</u>	<u>48</u>	<u>20</u>	<u>48</u>	<u>12</u>	<u>50</u>
P 6 <u>25</u>	<u>48</u>	<u>15</u>	<u>49</u>	<u>25</u>	<u>48</u>	<u>15</u>	<u>51</u>
P 7 <u>30</u>	<u>48</u>	<u>18</u>	<u>49</u>	<u>30</u>	<u>48</u>	<u>18</u>	<u>51</u>
P 8		<u>21</u>	<u>49</u>			<u>21</u>	<u>51</u>
P 9		<u>24</u>	<u>49</u>			<u>24</u>	<u>51</u>
P10		<u>27</u>	<u>49</u>			<u>27</u>	<u>51</u>
P11		<u>30</u>	<u>49</u>			<u>30</u>	<u>52</u>
P12		<u>33</u>	<u>49</u>			<u>33</u>	<u>52</u>
P13		<u>36</u>	<u>49</u>			<u>36</u>	<u>52</u>
P14		<u>39</u>	<u>49</u>			<u>39</u>	<u>53</u>
P15		<u>42</u>	<u>50</u>			<u>42</u>	<u>53</u>
P16		<u>45</u>	<u>51</u>			<u>45</u>	<u>54</u>
P17		<u>48</u>	<u>51</u>			<u>48</u>	<u>54</u>
P18		<u>51</u>	<u>52</u>			<u>51</u>	<u>55</u>
P19		<u>54</u>	<u>52</u>			<u>54</u>	<u>55</u>
P20		<u>57</u>	<u>53</u>			<u>57</u>	<u>56</u>
		<u>60</u>	<u>54</u>				

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DST#3



Company Eagle Exploration, Inc. Lease & Well No. Eagle Circle #1
 Elevation -- Formation Mississippi Effective Pay - Ft. Ticket No. 11156
 Date 3/17/81 Sec. 14 Twp. 33S Range 11W County Barber State Kansas
 Test Approved by J. R. Byers Western Representative Les Holtz
 Formation Test No. 3 Interval Tested from 4600 ft. to 4652 ft. Total Depth 4652 ft.
 Packer Depth 4595 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4600 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4647 ft. Recorder Number 1051 Cap. 4250
 Bottom Recorder Depth (Outside) 4651 ft. Recorder Number 13267 Cap. 4050
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Sarcee Drilling Drill Collar Length 59 I. D. 2.26 in.
 Mud Type monpac Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 17.6 cc. Drill Pipe Length 4513 I. D. 3.3 in.
 Chlorides 16,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 406 Anchor Length 52 ft. Size 5 1/2 in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4FH in.

Blow: Strong blow throughout test.

Recovered 130 ft. of slightly oil cut mud 10% oil; 5% water; 85% mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks:

Time Set Packer(s) 5:30 A.M. Time Started Off Bottom 9:30 A.M. Maximum Temperature 123°
 Initial Hydrostatic Pressure 2305 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 103 P.S.I. to (C) 82 P.S.I.
 Initial Closed In Period 60 Minutes (D) 226 P.S.I.
 Final Flow Period 60 Minutes (E) 116 P.S.I. to (F) 100 P.S.I.
 Final Closed In Period 90 Minutes (G) 921 P.S.I.
 Final Hydrostatic Pressure 2273 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 3/17/81 Test Ticket No. 11156
 Recorder No. 1051 Capacity 4250 Location 4647 Ft.
 Clock No. - Elevation - Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2305</u> P.S.I.	Open Tool	<u>5:30P</u> M	
B First Initial Flow Pressure	<u>103</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>82</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>226</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>116</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>100</u> P.S.I.			
G Final Closed-in Pressure	<u>921</u> P.S.I.			
H Final Hydrostatic Mud	<u>2273</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>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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>103</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>116</u>	<u>0</u>	<u>100</u>
P 2 <u>5</u>	<u>92</u>	<u>3</u>	<u>84</u>	<u>5</u>	<u>114</u>	<u>3</u>	<u>100</u>
P 3 <u>10</u>	<u>86</u>	<u>6</u>	<u>84</u>	<u>10</u>	<u>108</u>	<u>6</u>	<u>101</u>
P 4 <u>15</u>	<u>82</u>	<u>9</u>	<u>84</u>	<u>15</u>	<u>101</u>	<u>9</u>	<u>103</u>
P 5 <u>20</u>	<u>82</u>	<u>12</u>	<u>84</u>	<u>20</u>	<u>100</u>	<u>12</u>	<u>108</u>
P 6 <u>25</u>	<u>82</u>	<u>15</u>	<u>86</u>	<u>25</u>	<u>100</u>	<u>15</u>	<u>110</u>
P 7 <u>30</u>	<u>82</u>	<u>18</u>	<u>88</u>	<u>30</u>	<u>100</u>	<u>18</u>	<u>116</u>
P 8		<u>21</u>	<u>92</u>	<u>35</u>	<u>100</u>	<u>21</u>	<u>123</u>
P 9		<u>24</u>	<u>101</u>	<u>40</u>	<u>100</u>	<u>24</u>	<u>129</u>
P10		<u>27</u>	<u>108</u>	<u>45</u>	<u>100</u>	<u>27</u>	<u>138</u>
P11		<u>30</u>	<u>116</u>	<u>50</u>	<u>100</u>	<u>30</u>	<u>148</u>
P12		<u>33</u>	<u>125</u>	<u>55</u>	<u>100</u>	<u>33</u>	<u>161</u>
P13		<u>36</u>	<u>135</u>	<u>60</u>	<u>100</u>	<u>36</u>	<u>172</u>
P14		<u>39</u>	<u>144</u>			<u>39</u>	<u>183</u>
P15		<u>42</u>	<u>155</u>			<u>42</u>	<u>198</u>
P16		<u>45</u>	<u>166</u>			<u>45</u>	<u>213</u>
P17		<u>48</u>	<u>176</u>			<u>48</u>	<u>230</u>
P18		<u>51</u>	<u>187</u>			<u>51</u>	<u>247</u>
P19		<u>54</u>	<u>198</u>			<u>54</u>	<u>269</u>
P20		<u>57</u>	<u>215</u>			<u>57</u>	<u>288</u>
		<u>60</u>	<u>226</u>			<u>60</u>	<u>312</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 3/17/81 Test Ticket No. 11156
 Recorder No. 1051 Capacity 4250 Location 4647 Ft.
 Clock No. - Elevation - Well Temperature 123 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2305 P.S.I. Open Tool 5:30P M
 B First Initial Flow Pressure 103 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 82 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 D Initial Closed-in Pressure 226 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 116 P.S.I. Final Closed-in Pressure 90 Mins. 90 Mins.
 F Second Final Flow Pressure 100 P.S.I.
 G Final Closed-in Pressure 921 P.S.I.
 H Final Hydrostatic Mud 2273 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>30</u> Inc. 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						63	340
P 2						66	373
P 3						69	407
P 4						72	446
P 5						75	500
P 6						78	564
P 7						81	640
P 8						84	732
P 9						87	849
P10						90	921
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							