

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

Elevation

Formation

TICKET

NO

10341

Eff. Pay

Ft.

District Pratt Date 8-17-82 Customer Order No. _____
COMPANY NAME T X O (Production) Corp.
ADDRESS 200 West Douglas - Suite 300 Wichita
LEASE AND WELL NO. Norton A COUNTY Clark STATE Ks Sec. 8 Twp. 30 Rge. 25W
Mail Invoice To #1 "A" NORTON No. Copies Requested _____
Co. Name to PO Box 329 Perkins Lodge Ks 67104 Address _____
Mail Charts To _____ No. Copies Requested _____

Formation Test No. 1 Interval Tested From 5286 ft. to 5323 ft. Total Depth 5323 ft.
Packer Depth 5281 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 5286 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —
Top Recorder Depth (Inside) 5289 ft. Recorder Number 1566 Cap. 4300
Bottom Recorder Depth (Outside) 5293 ft. Recorder Number 3086 Cap. 4500
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —
Drilling Contractor FWA Drill Collar Length 440' I. D. 2.2 in.
Mud Type chem. Viscosity 46 Weight Pipe Length — I. D. — in.
Weight 8.8+ Water Loss 12.0 cc. Drill Pipe Length 4816' I. D. 3.2 in.
Chlorides 12,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 3660 Anchor Length 37 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 4" in.
Blow: STRONG gas to surface 10 min. I.F.P. See Flow Chart!

Recovered 800 ft. of Free Oil
Recovered 60 ft. of muddy oil w/ 15% mud 85% oil
Recovered 60 ft. of dark drg mud w/ few oil specks
Recovered — ft. of (98% dm 20% oil)
Recovered — ft. of —
Remarks: 34 gravity @ 80%

Time On Location 5:45 A.M. Time Pick Up Tool 11:00 A.M. Time Off Location 11:00 A.M.
Time Set Packer(s) 1:45 P.M. Time Started Off Bottom 5:30 P.M. Maximum Temperature 130°
Initial Hydrostatic Pressure (A) 2701 P.S.I.
Initial Flow Period Minutes 36 (B) 108 P.S.I. to (C) 140 P.S.I.
Initial Closed In Period Minutes 60 (D) 1216 P.S.I.
Final Flow Period Minutes 45 (E) 162 P.S.I. to (F) 280 P.S.I.
Final Closed In Period Minutes 90 (G) 1205 P.S.I.
Final Hydrostatic Pressure (H) 2428 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 Ray A. Craves
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!

FIELD INVOICE

Open Hole Test \$ 750.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ 300.00
Selective Zone \$ _____
Safety Joint \$ 65.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage 80 \$ — 0 —
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ 50.00
TOTAL \$ 1165.00



GAS FLOW REPORT

No 3296

Date 8-17-82 Ticket 16347 Company TXO
 Well Name and No. Norton A Dst No. 1 Interval Tested 5286-5323
 County Clark State K. Sec. 8 Twp. 30 Rg. 25

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

	PSI				
					gas-to-surface 10 min
15	5	1/2		OK	78,100 CFD
20	6.5	1		OK	90,100 "
25	6	1		OK	86,300 "
30	6	1			86,300 "

SECOND FLOW

	PSI				
05	9	1/4		OK	29,000 CFD
10	12	1/4		OK	34,000 "
15	18	1/4		OK	43,900 "
20	23	1/4		OK	51,800 "
30	32	1/4		OK	64,600 "
35	35	1/4		OK	69,000 "
45	40	1/4			75,800 "

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 8-17 Test Ticket No. 16347
 Recorder No. 1566 Capacity 4300 Location 5289 Ft.
 Clock No. Elevation Well Temperature 130 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>2682</u>	P.S.I.
B First Initial Flow Pressure	<u>103</u>	P.S.I.
C First Final Flow Pressure	<u>142</u>	P.S.I.
D Initial Closed-in Pressure	<u>1225</u>	P.S.I.
E Second Initial Flow Pressure	<u>176</u>	P.S.I.
F Second Final Flow Pressure	<u>286</u>	P.S.I.
G Final Closed-in Pressure	<u>1223</u>	P.S.I.
H Final Hydrostatic Mud	<u>2441</u>	P.S.I.

	Time Given	Time Computed
Open Tool	<u>1:45 P</u>	<u>M</u>
First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Initial Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
Second Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 18 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 8 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 29 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.
P 1 0	<u>103</u>
P 2 5	<u>103</u>
P 3 10	<u>106</u>
P 4 15	<u>114</u>
P 5 20	<u>127</u>
P 6 25	<u>138</u>
P 7 30	<u>142</u>
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Point Minutes	Press.
0	<u>142</u>
3	<u>1039</u>
6	<u>1148</u>
9	<u>1177</u>
12	<u>1194</u>
15	<u>1202</u>
18	<u>1208</u>
21	<u>1212</u>
24	<u>1215</u>
27	<u>1218</u>
30	<u>1220</u>
33	<u>1221</u>
36	<u>1222</u>
39	<u>1223</u>
42	<u>1224</u>
45	<u>1225</u>
48	<u>5</u>
51	<u>5</u>
54	<u>1225</u>
~~57~~	
~~60~~	

Point Minutes	Press.
0	<u>176</u>
5	<u>176</u>
10	<u>188</u>
15	<u>203</u>
20	<u>219</u>
25	<u>240</u>
30	<u>255</u>
35	<u>269</u>
40	<u>286</u>
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Point Minutes	Press.
0	<u>286</u>
3	<u>974</u>
6	<u>1126</u>
9	<u>1160</u>
12	<u>1178</u>
15	<u>1190</u>
18	<u>1194</u>
21	<u>1198</u>
24	<u>1202</u>
27	<u>1206</u>
30	<u>1210</u>
33	<u>1212</u>
36	<u>1213</u>
39	<u>1214</u>
42	<u>1215</u>
45	<u>1216</u>
48	<u>1217</u>
51	<u>1218</u>
54	<u>1219</u>
57	<u>1220</u>
60	<u>1221</u>

WESTERN TESTING CO., INC.

Pressure Data

Date: _____ Test Ticket No. 16347

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

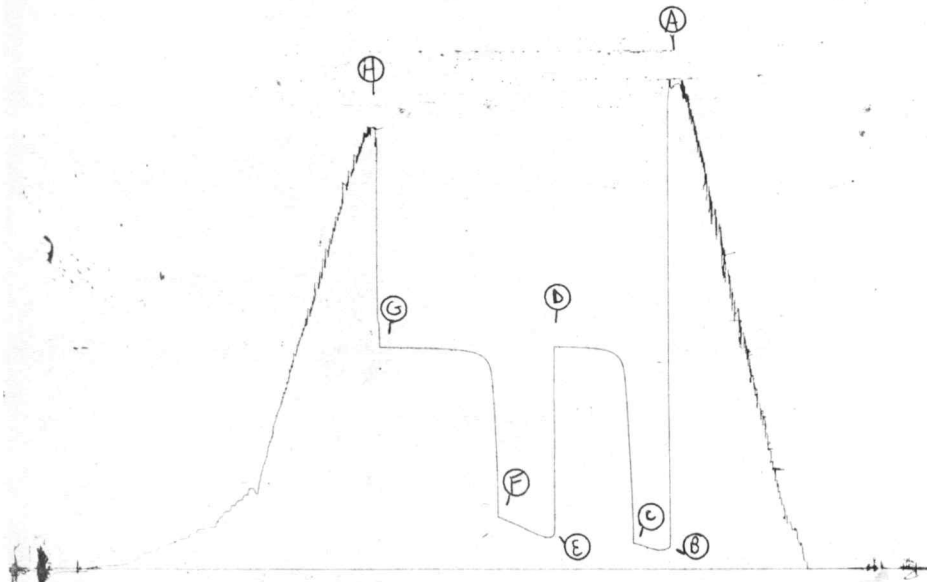
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____ P.S.I.			M _____
B First Initial Flow Pressure _____ P.S.I.		First Flow Pressure _____	Mins. _____ Mins. _____
C First Final Flow Pressure _____ P.S.I.		Initial Closed-in Pressure _____	Mins. _____ Mins. _____
D Initial Closed-in Pressure _____ P.S.I.		Second Flow Pressure _____	Mins. _____ Mins. _____
E Second Initial Flow Pressure _____ P.S.I.		Final Closed-in Pressure _____	Mins. _____ Mins. _____
F Second Final Flow Pressure _____ P.S.I.			
G Final Closed-in Pressure _____ P.S.I.			
H Final Hydrostatic Mud _____ P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: _____ 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.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____	_____	<u>63</u> _____	_____	_____	_____	<u>63</u> _____	<u>1222</u>
P 2 _____	_____	<u>66</u> _____	_____	_____	_____	<u>66</u> _____	<u>1223</u>
P 3 _____	_____	<u>69</u> _____	_____	_____	_____	<u>69</u> _____	_____
P 4 _____	_____	<u>72</u> _____	_____	_____	_____	<u>72</u> _____	_____
P 5 _____	_____	<u>75</u> _____	_____	_____	_____	<u>75</u> _____	_____
P 6 _____	_____	<u>78</u> _____	_____	_____	_____	<u>78</u> _____	_____
P 7 _____	_____	<u>81</u> _____	_____	_____	_____	<u>81</u> _____	_____
P 8 _____	_____	<u>84</u> _____	_____	_____	_____	<u>84</u> _____	_____
P 9 _____	_____	<u>87</u> _____	_____	_____	_____	<u>87</u> _____	<u>1223</u>
P10 _____	_____	<u>90</u> _____	_____	_____	_____	<u>90</u> _____	_____
P11 _____	_____	<u>93</u> _____	_____	_____	_____	<u>93</u> _____	_____
P12 _____	_____	<u>96</u> _____	_____	_____	_____	<u>96</u> _____	_____
P13 _____	_____	<u>99</u> _____	_____	_____	_____	<u>99</u> _____	_____
P14 _____	_____	<u>102</u> _____	_____	_____	_____	<u>102</u> _____	_____
P15 _____	_____	<u>105</u> _____	_____	_____	_____	<u>105</u> _____	_____
P16 _____	_____	<u>108</u> _____	_____	_____	_____	<u>108</u> _____	_____
P17 _____	_____	<u>111</u> _____	_____	_____	_____	<u>111</u> _____	_____
P18 _____	_____	<u>114</u> _____	_____	_____	_____	<u>114</u> _____	_____
P19 _____	_____	<u>117</u> _____	_____	_____	_____	<u>117</u> _____	_____
P20 _____	_____	<u>120</u> _____	_____	_____	_____	<u>120</u> _____	_____

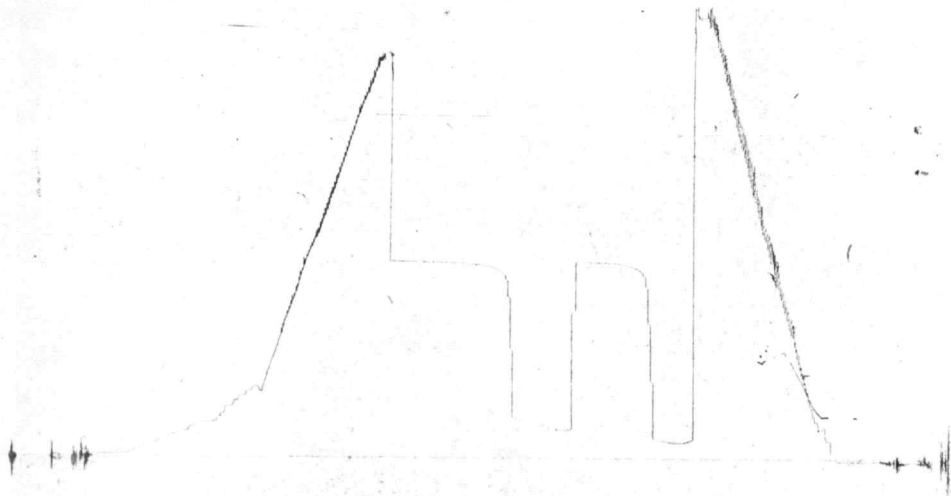
TKT # 16347

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3086

TKT # 16347



Company TXO Production Corp. Lease & Well No. #1 "A" Norton
 Elevation ---- Formation Morrow Sand Effective Pay - Ft. Ticket No. 16347
 Date 8/17/82 Sec. 8 Twp. 30S Range 25W County Clark State Kansas
 Test Approved by Rex A. Cravens Western Representative Mike Rogers
 Formation Test No. 1 Interval Tested from 5286 ft. to 5323 ft. Total Depth 5323 ft.
 Packer Depth 5281 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 5286 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5289 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 5293 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor F.W.A. Drlg. Drill Collar Length 440 I. D. 2.2 in.
 Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 8.8+ Water Loss 12.0 cc. Drill Pipe Length 4816 I. D. 3.2 in.
 Chlorides 12,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 3660 Anchor Length 37 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 4" in.

Blow: Strong blow. Gas to surface in ten minutes on initial flow period. See attached
sheet for gas measurements.

Recovered 800 ft. of free oil
 Recovered 60 ft. of muddy oil with 15% mud; 85% oil
 Recovered 60 ft. of drilling mud with few oil specks (98% drilling mud 2% oil)
 Recovered ft. of
 Recovered ft. of 34 Gravity @ 80°F

Remarks:

Time Set Packer(s) 1:45 ~~AM~~ P.M. Time Started Off Bottom 5:30 ~~AM~~ P.M. Maximum Temperature 130°
 Initial Hydrostatic Pressure 2682 P.S.I.
 Initial Flow Period 30 Minutes (B) 103 P.S.I. to (C) 142 P.S.I.
 Initial Closed In Period 54 Minutes (D) 1225 P.S.I.
 Final Flow Period 40 Minutes (E) 176 P.S.I. to (F) 286 P.S.I.
 Final Closed In Period 87 Minutes (G) 1223 P.S.I.
 Final Hydrostatic Pressure 2441 P.S.I. (H)

GAS FLOW REPORT

Date 8/17/82 Ticket 16347 Company TXO Production Corp.
 Well Name and No. #1 "A" Norton Dst No. 1 Interval Tested 5286'-5323'
 County Clark State Kansas Sec. 8 Twp. 30S Rg. 25W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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Gas to surface in ten minutes.

PRE FLOW

15 min.	5.0 PSIG	1/2" orifice			78,100 CFPD
20 min.	6.5 PSIG	1/2" orifice			90,100 CFPD
25 min.	6.0 PSIG	1/2" orifice			86,300 CFPD
30 min.	6.0 PSIG	1/2" orifice			86,300 CFPD

SECOND FLOW

5 min.	9.0 PSIG	1/4" orifice			29,000 CFPD
10 min.	12.0 PSIG	1/4" orifice			34,000 CFPD
15 min.	18.0 PSIG	1/4" orifice			43,900 CFPD
20 min.	23.0 PSIG	1/4" orifice			51,800 CFPD
30 min.	32.0 PSIG	1/4" orifice			64,600 CFPD
35 min.	35.0 PSIG	1/4" orifice			69,000 CFPD
45 min.	40.0 PSIG	1/4" orifice			75,800 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 8/17/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME TXO Production Corp.
 Authorized by Rex A. Cravens

WESTERN TESTING CO., INC.

Pressure Data

Date 8/17/82

Test Ticket No. 16347

Recorder No. 1566 Capacity 4300 Location 5289 Ft.

Clock No. -- Elevation -- Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2682</u> P.S.I.	Open Tool	<u>1:45P</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>142</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
D Initial Closed-in Pressure	<u>1225</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>176</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>286</u> P.S.I.			
G Final Closed-in Pressure	<u>1223</u> P.S.I.			
H Final Hydrostatic Mud	<u>2441</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>18</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>29</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>103</u>	<u>0</u>	<u>142</u>	<u>0</u>	<u>176</u>	<u>0</u>	<u>286</u>
P 2 <u>5</u>	<u>103</u>	<u>3</u>	<u>1039</u>	<u>5</u>	<u>176</u>	<u>3</u>	<u>974</u>
P 3 <u>10</u>	<u>106</u>	<u>6</u>	<u>1148</u>	<u>10</u>	<u>188</u>	<u>6</u>	<u>1126</u>
P 4 <u>15</u>	<u>114</u>	<u>9</u>	<u>1177</u>	<u>15</u>	<u>203</u>	<u>9</u>	<u>1160</u>
P 5 <u>20</u>	<u>127</u>	<u>12</u>	<u>1194</u>	<u>20</u>	<u>219</u>	<u>12</u>	<u>1178</u>
P 6 <u>25</u>	<u>138</u>	<u>15</u>	<u>1202</u>	<u>25</u>	<u>240</u>	<u>15</u>	<u>1190</u>
P 7 <u>30</u>	<u>142</u>	<u>18</u>	<u>1208</u>	<u>30</u>	<u>255</u>	<u>18</u>	<u>1194</u>
P 8		<u>21</u>	<u>1212</u>	<u>35</u>	<u>269</u>	<u>21</u>	<u>1198</u>
P 9		<u>24</u>	<u>1215</u>	<u>40</u>	<u>286</u>	<u>24</u>	<u>1202</u>
P10		<u>27</u>	<u>1218</u>			<u>27</u>	<u>1206</u>
P11		<u>30</u>	<u>1220</u>			<u>30</u>	<u>1210</u>
P12		<u>33</u>	<u>1221</u>			<u>33</u>	<u>1212</u>
P13		<u>36</u>	<u>1222</u>			<u>36</u>	<u>1213</u>
P14		<u>39</u>	<u>1223</u>			<u>39</u>	<u>1214</u>
P15		<u>42</u>	<u>1224</u>			<u>42</u>	<u>1215</u>
P16		<u>45</u>	<u>1225</u>			<u>45</u>	<u>1216</u>
P17		<u>48</u>	<u>1225</u>			<u>48</u>	<u>1217</u>
P18		<u>51</u>	<u>1225</u>			<u>51</u>	<u>1218</u>
P19		<u>54</u>	<u>1225</u>			<u>54</u>	<u>1219</u>
P20						<u>57</u>	<u>1220</u>
						<u>60</u>	<u>1221</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 8/17/82

Test Ticket No. 16347

Recorder No. 1566

Capacity 4300

Location 5289 Ft.

Clock No. -- Elevation --

Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2682</u> P.S.I.	Open Tool	<u>1:45P</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>142</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
D Initial Closed-in Pressure	<u>1225</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>176</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>286</u> P.S.I.			
G Final Closed-in Pressure	<u>1223</u> P.S.I.			
H Final Hydrostatic Mud	<u>2441</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: 18 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 8 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 29 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						63	1222
P 2						66	1223
P 3						69	1223
P 4						72	1223
P 5						75	1223
P 6						78	1223
P 7						81	1223
P 8						84	1223
P 9						87	1223
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							