



WESTERN TESTING CO., INC.  
FORMATION TESTING

OK

TICKET

No. 16110

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

Elevation 1408 GL Formation MISS Eff. Pay \_\_\_\_\_ Ft.

District PRAT Date 8-11-82 Customer Order No. \_\_\_\_\_

COMPANY NAME Kan-Ex

ADDRESS 800 Billing Bldg Wichita, Kansas 67202

LEASE AND WELL NO. 1 RAIDA COUNTY Kingman STATE Kansas Sec 18 Twp. 30S Rge. 6W

Mail Invoice To #1 RAIDA Same No. Copies Requested 10

Co. Name RAIDA Address \_\_\_\_\_

Mail Charts To RAIDA Same No. Copies Requested 10

Address \_\_\_\_\_

Formation Test No. 1 Interval Tested From 4087 ft. to 4098 ft. Total Depth 4098 ft.

Packer Depth 4082 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 4087 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4088 ft.

Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4091 ft.

Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth \_\_\_\_\_ ft.

Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor Kan Drilling #1

Drill Collar Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Mud Type Dripac Viscosity 47

Weight Pipe Length 304 I. D. 2 1/2 in.

Weight 9.3 Water Loss 12 cc.

Drill Pipe Length 3755 I. D. 3.8 in.

Chlorides 9.000 P.P.M.

Test Tool Length 28 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 402

Anchor Length 11 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 TH in.

Blow: Strong blow throughout test - gas to surface @ min  
See flow chart attached sheet for gas measurements

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

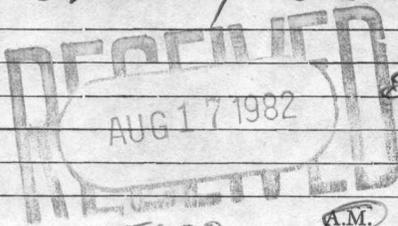
Recovered 120 ft. of slightly oil cut muddy water 52,000 P.P.M

Recovered \_\_\_\_\_ ft. of 50% oil

Recovered \_\_\_\_\_ ft. of 50% mud

Recovered \_\_\_\_\_ ft. of 85% water

Remarks: \_\_\_\_\_



Time On Location 4:00 A.M. Time Pick Up Tool 5:00 P.M. Time Off Location 1:00 A.M.

Time Set Packer(s) 6:35 P.M. Time Started Off Bottom 10:20 A.M. Maximum Temperature 130° F

Initial Hydrostatic Pressure ..... (A) 2083 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 72 P.S.I. to (C) 83 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1267 P.S.I.

Final Flow Period ..... Minutes 48 (E) 104 P.S.I. to (F) 104 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 1254 P.S.I.

Final Hydrostatic Pressure ..... (H) 2062 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 Bill Smith  
Signature of Customer or his authorized representative

Western Representative Red Lutz Thank you

FIELD INVOICE

Open Hole Test \$ 675.00  
Misrun \$ \_\_\_\_\_  
Straddle Test \$ \_\_\_\_\_  
Jars \$ 300.00  
Selective Zone \$ \_\_\_\_\_  
Safety Joint \$ 65.00  
Standby \$ \_\_\_\_\_  
Evaluation \$ \_\_\_\_\_  
Extra Packer \$ \_\_\_\_\_  
Circ. Sub. \$ \_\_\_\_\_  
Mileage \$ \_\_\_\_\_  
Fluid Sampler \$ \_\_\_\_\_  
Extra Charts \$ \_\_\_\_\_  
Insurance \$ \_\_\_\_\_  
Telecopier \$ \_\_\_\_\_  
TOTAL \$ 1040.00



**Nº 3956**

**GAS FLOW REPORT**

Date 8-11-82 Ticket 16110 Company KAN-EX Inc  
 Well Name and No. 1 - RAIDA Dst No. 1 Interval Tested 4087-4098  
 County KINGMAN State KANSAS Sec. 18 Twp. 30S Rg. 6W

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
<b>PRE FLOW</b>					
10		1			
20	2.5 psi	✓			gas to surface OK 220,000 CFPD
30	3.5 psi	✓			265,000 ✓

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
<b>SECOND FLOW</b>					
10	5 psi	1			OK 319,000 CFPD
20	5	✓			319,000
30	5.5	✓			336,000
40	5.5	✓			OK 336,000
45	5.5	✓			336,000 ✓

**GAS BOTTLE**

Serial No. \_\_\_\_\_ Date Bottle Filled 8-11-82 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 KAN-EX Inc.  
 Authorized by Bill Smith

WESTERN TESTING CO., INC.

Pressure Data

Date 8-11-82 Test Ticket No. 16110  
 Recorder No. 2606 Capacity 4150 Location 4088 Ft.  
 Clock No. --- Elevation 1408 Well Temperature 130 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2088</u> P.S.I.		<u>6:35 A</u> M	
B First Initial Flow Pressure	<u>80</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>96</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>1273</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>103</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>110</u> P.S.I.			
G Final Closed-in Pressure	<u>1271</u> P.S.I.			
H Final Hydrostatic Mud	<u>2066</u> P.S.I.			

PRESSURE BREAKDOWN

<p><b>First Flow Pressure</b>                  Breakdown: <u>6</u> Inc.                  of <u>5</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Initial Shut-In</b>                  Breakdown: <u>21</u> Inc.                  of <u>3</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Second Flow Pressure</b>                  Breakdown: <u>9</u> Inc.                  of <u>5</u> mins. and a                  final inc. of <u>0</u> Min.</p>	<p><b>Final Shut-In</b>                  Breakdown: <u>30</u> Inc.                  of <u>3</u> mins. and a                  final inc. of <u>0</u> Min.</p>
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>80</u>	0	<u>96</u>	0	<u>103</u>	0	<u>110</u>
P 2 5	<u>80</u>	3	<u>1184</u>	5	<u>103</u>	3	<u>1180</u>
P 3 10	<u>83</u>	6	<u>1226</u>	10	<u>103</u>	6	<u>1209</u>
P 4 15	<u>87</u>	9	<u>1244</u>	15	<u>103</u>	9	<u>1226</u>
P 5 20	<u>91</u>	12	<u>1252</u>	20	<u>103</u>	12	<u>1237</u>
P 6 25	<u>95</u>	15	<u>1257</u>	25	<u>104</u>	15	<u>1244</u>
P 7 30	<u>96</u>	18	<u>1259</u>	30	<u>105</u>	18	<u>1248</u>
P 8 35		21	<u>1261</u>	35	<u>106</u>	21	<u>1252</u>
P 9 40		24	<u>1263</u>	40	<u>108</u>	24	<u>1256</u>
P10 45		27	<u>1265</u>	45	<u>110</u>	27	<u>1258</u>
P11 50		30	<u>1267</u>	50		30	<u>1260</u>
P12 55		33	<u>1269</u>	55		33	<u>1261</u>
P13 60		36	<u>1270</u>	60		36	<u>1262</u>
P14		39	<u>1271</u>	65		39	<u>1263</u>
P15		42	<u>1272</u>	70		42	<u>1264</u>
P16		45	<u>1273</u>	75		45	<u>1265</u>
P17		48		80		48	<u>1266</u>
P18		51		85		51	<u>1267</u>
P19		54		90		54	<u>1268</u>
P20		57				57	<u>1269</u>
		60				60	<u>1270</u>

13 1273

Continue next page

WESTERN TESTING CO., INC.

Pressure Data

Date 8-11-82

Test Ticket No. 16118

Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	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.			

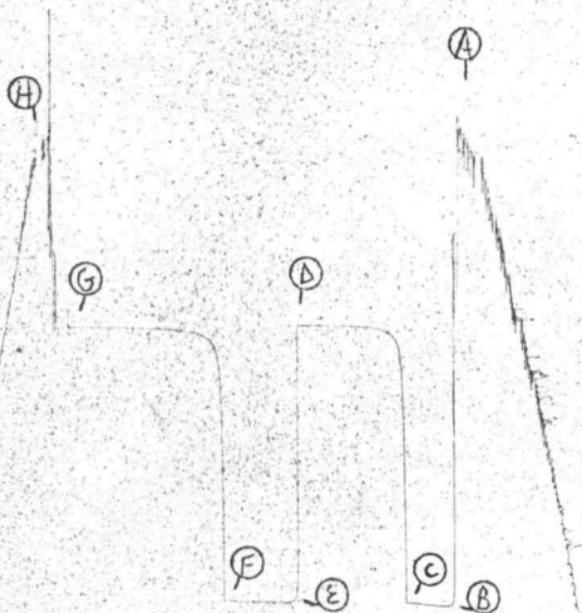
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63		63	1271
P 2		66		66	
P 3		69		69	
P 4		72		72	
P 5		75		75	1271
P 6		78		78	
P 7		81		81	
P 8		84		84	
P 9		87		87	
P10		90		90	1271
P11		93		93	
P12		96		96	
P13		99		99	
P14		102		102	
P15		105		105	
P16		108		108	
P17		111		111	
P18		114		114	
P19		117		117	
P20		120		120	

2606 DST#1

TRT # 16110

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Company Kan-Ex, Inc. Lease & Well No. #1 Raida  
 Elevation 1408 Ground Level Formation Mississippi Effective Pay -- Ft. Ticket No. 16110  
 Date 8/11/82 Sec. 18 Twp. 30S Range 6W County Kingman State Kansas  
 Test Approved by Bill Smith Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4087 ft. to 4098 ft. Total Depth 4098 ft.  
 Packer Depth 4082 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4087 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4088 ft. Recorder Number 2606 Cap. 4150  
 Bottom Recorder Depth (Outside) 4091 ft. Recorder Number 4332 Cap. 4200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Kaw Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type drispac Viscosity 47 Weight Pipe Length 304 I. D. 2 1/2 in.  
 Weight 9.3 Water Loss 12 cc. Drill Pipe Length 3755 I. D. 3.8 in.  
 Chlorides 9,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WIC Serial Number 402 Anchor Length 11 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: Strong blow throughout test. Gas to surface in ten minutes. See attached sheet for gas measurements.

Recovered 120 ft. of slightly oil cut muddy water Chlorides 52,000 ppm  
 Recovered - ft. of 5% oil; 5% mud; 85% water  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 6:35 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 11:20 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 130°  
 Initial Hydrostatic Pressure (A) 2088 P.S.I.  
 Initial Flow Period Minutes 30 (B) 80 P.S.I. to (C) 96 P.S.I.  
 Initial Closed In Period Minutes 63 (D) 1273 P.S.I.  
 Final Flow Period Minutes 45 (E) 103 P.S.I. to (F) 110 P.S.I.  
 Final Closed In Period Minutes 90 (G) 1271 P.S.I.  
 Final Hydrostatic Pressure (H) 2066 P.S.I.

## GAS FLOW REPORT

Date 8/11/82 Ticket 16110 Company Kan-Ex, Inc.  
 Well Name and No. #1 Raida Dst No. 1 Interval Tested 4087'-4098'  
 County Kingman State Kansas Sec. 18 Twp. 30S Rg. 6W

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
<b>PRE FLOW</b>					
10 min.			1" orifice		Gas to surface
20 min.	2.5 PSIG		1" orifice		220,000 CFPD
30 min.	3.5 PSIG		1" orifice		263,000 CFPD

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
<b>SECOND FLOW</b>					
10 min.	5.0 PSIG		1" orifice		319,000 CFPD
20 min.	5.0 PSIG		1" orifice		319,000 CFPD
30 min.	5.5 PSIG		1" orifice		336,000 CFPD
40 min.	5.5 PSIG		1" orifice		336,000 CFPD
45 min.	5.5 PSIG		1" orifice		336,000 CFPD

### GAS BOTTLE

Serial No.      Date Bottle Filled 8/11/82 Date to be Invoiced 8/ 8/11/82

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 Kan-Ex, Inc.  
 Authorized by Bill Smith

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

Date 8/11/82

Test Ticket No. 16110

Recorder No. 2606

Capacity 4150

Location 4088 Ft.

Clock No. -

Elevation 1408 Ground Level

Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2088</u> P.S.I.	Open Tool	<u>6:35A</u>	<u>M</u>
B First Initial Flow Pressure	<u>80</u> P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>96</u> P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>1273</u> P.S.I.	Second Flow Pressure	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>103</u> P.S.I.	Final Closed-in Pressure	<u>90</u>	<u>90</u> Mins.
F Second Final Flow Pressure	<u>110</u> P.S.I.			
G Final Closed-in Pressure	<u>1271</u> P.S.I.			
H Final Hydrostatic Mud	<u>2066</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>6</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.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>80</u>	<u>0</u>	<u>96</u>	<u>0</u>	<u>103</u>	<u>0</u>	<u>110</u>	
P 2 <u>5</u>	<u>80</u>	<u>3</u>	<u>1184</u>	<u>5</u>	<u>103</u>	<u>3</u>	<u>1180</u>	
P 3 <u>10</u>	<u>83</u>	<u>6</u>	<u>1226</u>	<u>10</u>	<u>103</u>	<u>6</u>	<u>1209</u>	
P 4 <u>15</u>	<u>87</u>	<u>9</u>	<u>1244</u>	<u>15</u>	<u>103</u>	<u>9</u>	<u>1226</u>	
P 5 <u>20</u>	<u>91</u>	<u>12</u>	<u>1252</u>	<u>20</u>	<u>103</u>	<u>12</u>	<u>1237</u>	
P 6 <u>25</u>	<u>95</u>	<u>15</u>	<u>1257</u>	<u>25</u>	<u>104</u>	<u>15</u>	<u>1244</u>	
P 7 <u>30</u>	<u>96</u>	<u>18</u>	<u>1259</u>	<u>30</u>	<u>105</u>	<u>18</u>	<u>1248</u>	
P 8		<u>21</u>	<u>1261</u>	<u>35</u>	<u>106</u>	<u>21</u>	<u>1252</u>	
P 9		<u>24</u>	<u>1263</u>	<u>40</u>	<u>108</u>	<u>24</u>	<u>1256</u>	
P10		<u>27</u>	<u>1265</u>	<u>45</u>	<u>110</u>	<u>27</u>	<u>1258</u>	
P11		<u>30</u>	<u>1267</u>			<u>30</u>	<u>1260</u>	
P12		<u>33</u>	<u>1269</u>			<u>33</u>	<u>1261</u>	
P13		<u>36</u>	<u>1270</u>			<u>36</u>	<u>1262</u>	
P14		<u>39</u>	<u>1271</u>			<u>39</u>	<u>1263</u>	
P15		<u>42</u>	<u>1272</u>			<u>42</u>	<u>1264</u>	
P16		<u>45</u>	<u>1273</u>			<u>45</u>	<u>1265</u>	
P17		<u>48</u>	<u>1273</u>			<u>48</u>	<u>1266</u>	
P18		<u>51</u>	<u>1273</u>			<u>51</u>	<u>1267</u>	
P19		<u>54</u>	<u>1273</u>			<u>54</u>	<u>1268</u>	
P19		<u>57</u>	<u>1273</u>			<u>57</u>	<u>1269</u>	
P20		<u>60</u>	<u>1273</u>			<u>60</u>	<u>1270</u>	
WTC - 4		<u>63</u>	<u>1273</u>					

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

Date 8/11/82

Test Ticket No. 16110

Recorder No. 2606

Capacity 4150

Location 4088 Ft.

Clock No. - Elevation 1408 Ground Level

Well Temperature 130 °F

Point	Pressure			Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2088</u>	P.S.I.	Open Tool	<u>6:35A</u>	<u>M</u>
B. First Initial Flow Pressure	<u>80</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u> Mins.
C. First Final Flow Pressure	<u>96</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>63</u> Mins.
D. Initial Closed-in Pressure	<u>1273</u>	P.S.I.	Second Flow Pressure	<u>45</u>	<u>45</u> Mins.
E. Second Initial Flow Pressure	<u>103</u>	P.S.I.	Final Closed-in Pressure	<u>90</u>	<u>90</u> Mins.
F. Second Final Flow Pressure	<u>110</u>	P.S.I.			
G. Final Closed-in Pressure	<u>1271</u>	P.S.I.			
H. Final Hydrostatic Mud	<u>2066</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: 21 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: 30 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>63</u>	<u>1271</u>
P 2						<u>66</u>	<u>1271</u>
P 3						<u>69</u>	<u>1271</u>
P 4						<u>72</u>	<u>1271</u>
P 5						<u>75</u>	<u>1271</u>
P 6						<u>78</u>	<u>1271</u>
P 7						<u>81</u>	<u>1271</u>
P 8						<u>84</u>	<u>1271</u>
P 9						<u>87</u>	<u>1271</u>
P10						<u>90</u>	<u>1271</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							