



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20030P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201Elevation 2058 KB Formation Morrow sd Eff. Pay _____ Ft.District PRATT Date 11-2-93 Customer Order No. _____COMPANY NAME Robinson oil CoADDRESS 300 W. Douglas Suite 420 Wichita, Kansas 67292LEASE AND WELL NO. BLAU "A" #2 COUNTY Clark STATE KANSAS Sec. 22 Twp. 31 Rge. 21WMail Invoice To _____ Co. Name #2 Blau A Address _____ No. Copies Requested _____

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. 1 Interval Tested From 5087 ft. to 5140 ft. Total Depth 5140 ft.Packer Depth 5082 ft. Size 6 5/8 in. Packer Depth 2 ft. Size 2 in.Packer Depth 5087 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5091 ft. Recorder Number 1057 Cap. 4250Bottom Recorder Depth (Outside) 5094 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Murphy Drilling Co 21 Drill Collar Length 510 I. D. 2 1/4 in.Mud Type Chem Viscosity 5-4 Weight Pipe Length -0- I. D. _____ in.Weight 9.4 Water Loss 9.2 cc. Drill Pipe Length 4549 I. D. 3.8 in.Chlorides 6500 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.Jars: Make WTC Serial Number 411 Anchor Length 53 ft. Size 5 3/4 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 XH in.Blow: Strong blow on initial flow - gas to surface 1 1/2 to 2 min - see flow chartRecovered 120 ft. of gassy mud 5 1/2 gas 1 1/2 oil 94% mudRecovered 60 ft. of oil cut mud 10% gas 30% oil 60% mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: _____

Time On Location 3:45 A.M. Time Pick Up Tool 5:15 P.M. Time Off Location _____ A.M.Time Set Packer(s) 7:45 A.M. Time Started Off Bottom 12:45 P.M. Maximum Temperature 126 °FInitial Hydrostatic Pressure _____ (A) 2562 P.S.I.Initial Flow Period _____ Minutes 30 (B) 376 P.S.I. to (C) 215 P.S.I.Initial Closed In Period _____ Minutes 60 (D) 1706 P.S.I.Final Flow Period _____ Minutes 90 (E) 430 P.S.I. to (F) 161 P.S.I.Final Closed In Period _____ Minutes 120 (G) 1238 P.S.I.Final Hydrostatic Pressure _____ (H) 2508 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 _____
Signature of Customer or his authorized representativeWestern Representative Lod Tuit Thank you

FIELD INVOICE

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



No 5324

GAS FLOW REPORT

Date 11-2-93 Ticket 20030 Company Robinson Oil Co
 Well Name and No. BLAU A-2 Dst No. 1 Interval Tested 5087-5140
 County Clark State Kansas Sec. 22 Twp. 31S Rg. 21W

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
PRE FLOW					
<u>1 1/2</u>	<u>—</u>	<u>1 1/2</u>			<u>Gas to surface</u>
<u>10</u>	<u>7 psi</u>	<u>{</u>			<u>1,036,000 MCFPD</u>
<u>20</u>	<u>5</u>	<u>{</u>			<u>863,000</u>
<u>30</u>	<u>4</u>	<u>{</u>			<u>756,000</u>

SECOND FLOW

					<u>MAX 1270,000 (5 min)</u>
<u>10</u>	<u>18 psi</u>	<u>1 1/4</u>			<u>1,146,000 MCFPD</u>
<u>20</u>	<u>11</u>	<u>{</u>			<u>847,000</u>
<u>30</u>	<u>8</u>	<u>{</u>			<u>700,000</u>
<u>40</u>	<u>7</u>	<u>{</u>			<u>653,000</u>
<u>50</u>	<u>7</u>	<u>{</u>			<u>653,000</u>
<u>60</u>	<u>6.5</u>	<u>{</u>			<u>626,000</u>
<u>70</u>	<u>6.5</u>	<u>{</u>			<u>626,000</u>
<u>80</u>	<u>6</u>	<u>{</u>			<u>599,000</u>
<u>90</u>	<u>6</u>	<u>{</u>			<u>599,000</u>

GAS BOTTLE

Serial No. 640 Date Bottle Filled 11-2-93 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 11-2-93 Test Ticket No. 20030
 Recorder No. 1051 Capacity 4250 Location _____ Ft.
 Clock No. _____ Elevation 2058 KB Well Temperature 124 °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

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		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>5</u>	<u>430</u>	<u>3</u>	<u>893</u>	<u>5</u>	<u>576</u>	<u>3</u>	<u>676</u>
P 2 <u>10</u>	<u>350</u>	<u>6</u>	<u>1038</u>	<u>10</u>	<u>441</u>	<u>6</u>	<u>767</u>
P 3 <u>15</u>	<u>290</u>	<u>9</u>	<u>1120</u>	<u>15</u>	<u>344</u>	<u>9</u>	<u>889</u>
P 4 <u>20</u>	<u>251</u>	<u>12</u>	<u>1202</u>	<u>20</u>	<u>279</u>	<u>12</u>	<u>1009</u>
P 5 <u>25</u>	<u>230</u>	<u>15</u>	<u>1292</u>	<u>25</u>	<u>208</u>	<u>15</u>	<u>1069</u>
P 6 <u>30</u>	<u>204</u>	<u>18</u>	<u>1357</u>	<u>30</u>	<u>193</u>	<u>18</u>	<u>1069</u>
P 7 _____		<u>21</u>	<u>1398</u>	<u>35</u>	<u>178</u>	<u>21</u>	<u>1169</u>
P 8 _____		<u>24</u>	<u>1442</u>	<u>40</u>	<u>171</u>	<u>24</u>	<u>1213</u>
P 9 _____		<u>27</u>	<u>1482</u>	<u>45</u>	<u>171</u>	<u>27</u>	<u>1270</u>
P 10 _____		<u>30</u>	<u>1500</u>	<u>50</u>	<u>171</u>	<u>30</u>	<u>1328</u>
P 11 _____		<u>33</u>	<u>1523</u>	<u>55</u>	<u>171</u>	<u>33</u>	<u>1361</u>
P 12 _____		<u>36</u>	<u>1557</u>	<u>60</u>	<u>171</u>	<u>36</u>	<u>1391</u>
P 13 _____		<u>39</u>	<u>1583</u>	<u>65</u>	<u>161</u>	<u>39</u>	<u>1429</u>
P 14 _____		<u>42</u>	<u>1600</u>	<u>70</u>	<u>161</u>	<u>42</u>	<u>1472</u>
P 15 _____		<u>45</u>	<u>1621</u>	<u>75</u>	<u>161</u>	<u>45</u>	<u>1493</u>
P 16 _____		<u>48</u>	<u>1642</u>	<u>80</u>	<u>161</u>	<u>48</u>	<u>1525</u>
P 17 _____		<u>51</u>	<u>1653</u>	<u>85</u>	<u>161</u>	<u>51</u>	<u>1546</u>
P 18 _____		<u>54</u>	<u>1663</u>	<u>90</u>	<u>161</u>	<u>54</u>	<u>1568</u>
P 19 _____		<u>57</u>	<u>1674</u>			<u>57</u>	<u>1578</u>
P 20 _____		<u>60</u>	<u>1685</u>			<u>60</u>	<u>1589</u>
		<u>63</u>	<u>1685</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date 11-2-93 Test Ticket No. 20030
 Recorder No. 1051 Capacity 4250 Location _____ Ft.
 Clock No. _____ Elevation 2058 RB Well Temperature 126 °F

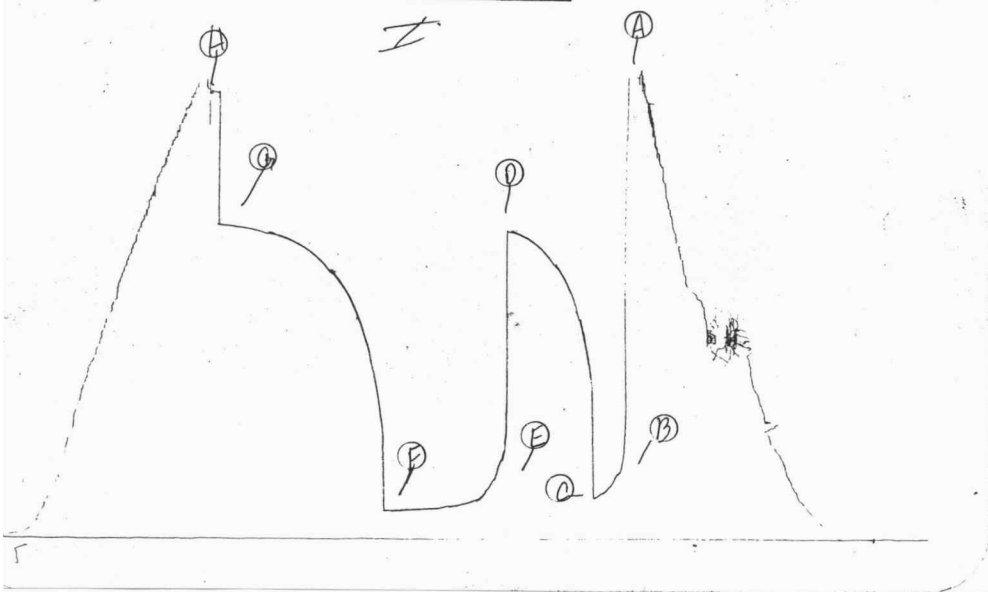
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins. _____ Mins.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____ Mins.
D Initial Closed-in 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

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		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>63</u>	<u>1600</u>
P 2 _____	_____	_____	_____	_____	_____	<u>66</u>	<u>1622</u>
P 3 _____	_____	_____	_____	_____	_____	<u>69</u>	<u>1634</u>
P 4 _____	_____	_____	_____	_____	_____	<u>72</u>	<u>1658</u>
P 5 _____	_____	_____	_____	_____	_____	<u>75</u>	<u>1659</u>
P 6 _____	_____	_____	_____	_____	_____	<u>78</u>	<u>1660</u>
P 7 _____	_____	_____	_____	_____	_____	<u>81</u>	<u>1674</u>
P 8 _____	_____	_____	_____	_____	_____	<u>84</u>	<u>1681</u>
P 9 _____	_____	_____	_____	_____	_____	<u>87</u>	<u>1683</u>
P10 _____	_____	_____	_____	_____	_____	<u>90</u>	<u>1687</u>
P11 _____	_____	_____	_____	_____	_____	<u>93</u>	<u>1696</u>
P12 _____	_____	_____	_____	_____	_____	<u>96</u>	<u>1696</u>
P13 _____	_____	_____	_____	_____	_____	<u>99</u>	<u>1700</u>
P14 _____	_____	_____	_____	_____	_____	<u>102</u>	<u>1706</u>
P15 _____	_____	_____	_____	_____	_____	<u>105</u>	<u>1706</u>
P16 _____	_____	_____	_____	_____	_____	<u>108</u>	<u>1717</u>
P17 _____	_____	_____	_____	_____	_____	<u>111</u>	<u>1719</u>
P18 _____	_____	_____	_____	_____	_____	<u>114</u>	<u>1723</u>
P19 _____	_____	_____	_____	_____	_____	<u>117</u>	<u>1728</u>
P20 _____	_____	_____	_____	_____	_____	<u>120</u>	<u>1728</u>

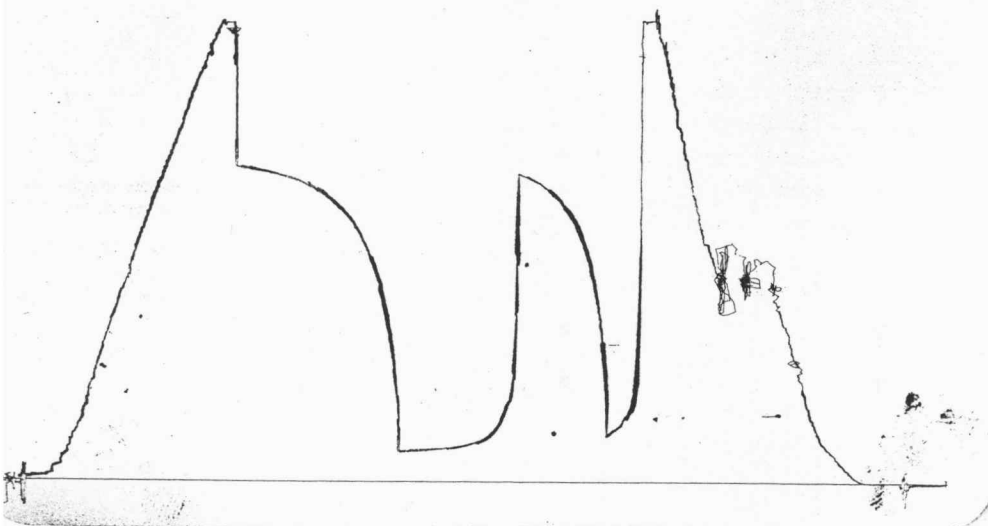
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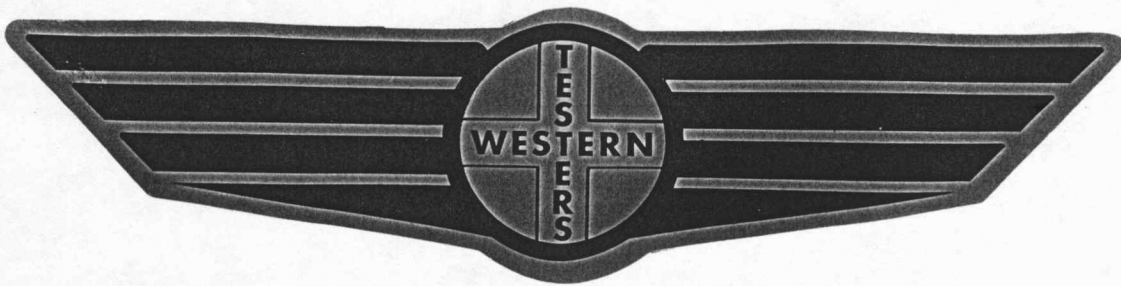


4332 DST#1

TK# 20030
O.



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

COMPANY ROBINSON OIL COMPANY LEASE & WELL NO. #2 BLAU A SEC. 22 TWP. 31S RGE. 21W TEST NO. 1 DATE 11/2/93

DST REPORT

GENERAL INFORMATION

DATE	: 11/2/93	TICKET	: 20030
CUSTOMER	: ROBINSON OIL COMPANY	LEASE	: BLAU A
WELL	: #2	GEOLOGIST	: LANDES
ELEVATION	: 2058 KB	FORMATION	: MORROW SAND
SECTION	: 22	TOWNSHIP	: 31S
RANGE	: 21W	STATE	: KS
GAUGE SN#	: 1051	CLOCK	: 12
	COUNTY: CLARK		
	RANGE : 4250		

WELL INFORMATION

PERFORATION INTERVAL FROM:	5087.00 ft	TO:	5140.00 ft	TVD:	5140.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	5091.0 ft		5094.0 ft		
TEMPERATURE:	126.0				
DRILL COLLAR LENGTH:	510.0 ft	I.D.:	2.240 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4549.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	53.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	5082.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	5087.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	MURFIN DRLG RIG 21	VISCOSITY :	54.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.200 cc
WEIGHT :	9.400 ppg		
CHLORIDES :	6500 ppm	SERIAL NUMBER:	411
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW. GAS TO SURFACE
IN 1 1/2 TO 2 MINUTES. SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
120.0	1.0	5.0	0.0	94.0	GASSY MUD
60.0	30.0	10.0	0.0	60.0	OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0936	STB		
GAS VOLUME:	0.3284	SCF		
MUD VOLUME:	0.7252	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.8188	STB		
			TOTAL FLOW TIME:	120.0000 min.
			AVERAGE OIL RATE:	9.8257 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2562.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	376.00	215.00
INITIAL SHUT-IN	60.00		1706.00
FINAL FLOW	90.00	430.00	161.00
FINAL SHUT-IN	120.00		1738.00

FINAL HYDROSTATIC PRESSURE: 2508.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2562.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	430.00	204.00
INITIAL SHUT-IN	63.00		1685.00
FINAL FLOW	90.00	516.00	161.00
FINAL SHUT-IN	120.00		1728.00

FINAL HYDROSTATIC PRESSURE: 2508.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 11/2/93	TICKET : 20030
CUSTOMER : ROBINSON OIL COMPANY	LEASE : BLAU A
WELL : #2 TEST: 1	GEOLOGIST: LANDES
ELEVATION: 2058 KB	FORMATION: MORROW SAND
SECTION : 22	TOWNSHIP : 31S
RANGE : 21W COUNTY: CLARK	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.500	7 PSIG	1036000 SCF/D
20 MIN	MERLA	1.500	5 PSIG	863000 SCF/D
30 MIN	MERLA	1.500	4 PSIG	756000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.250	18 PSIG	1146000 SCF/D
20 MIN	MERLA	1.250	11 PSIG	847000 SCF/D
30 MIN	MERLA	1.250	8 PSIG	700000 SCF/D
40 MIN	MERLA	1.250	7 PSIG	653000 SCF/D
50 MIN	MERLA	1.250	7 PSIG	653000 SCF/D
60 MIN	MERLA	1.250	6.5 PSIG	626000 SCF/D
70 MIN	MERLA	1.250	6.5 PSIG	626000 SCF/D
80 MIN	MERLA	1.250	6 PSIG	599000 SCF/D
90 MIN	MERLA	1.250	6 PSIG	599000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/2/93	TICKET : 20030
CUSTOMER : ROBINSON OIL COMPANY	LEASE : BLAU A
WELL : #2	GEOLOGIST: LANDES
ELEVATION: 2058 KB	FORMATION: MORROW SAND
SECTION : 22	TOWNSHIP : 31S
RANGE : 21W	STATE : KS
GAUGE SN#: 1051	CLOCK : 12
COUNTY: CLARK	
RANGE : 4250	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	430.00	430.00
5.00	430.00	0.00
10.00	350.00	-80.00
15.00	290.00	-60.00
20.00	251.00	-39.00
25.00	230.00	-21.00
30.00	204.00	-26.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	893.00	893.00	11.00
6.00	1038.00	145.00	6.00
9.00	1120.00	82.00	4.33
12.00	1202.00	82.00	3.50
15.00	1292.00	90.00	3.00
18.00	1351.00	59.00	2.67
21.00	1398.00	47.00	2.43
24.00	1442.00	44.00	2.25
27.00	1482.00	40.00	2.11
30.00	1500.00	18.00	2.00
33.00	1523.00	23.00	1.91
36.00	1557.00	34.00	1.83
39.00	1583.00	26.00	1.77
42.00	1600.00	17.00	1.71
45.00	1621.00	21.00	1.67
48.00	1642.00	21.00	1.63
51.00	1653.00	11.00	1.59
54.00	1663.00	10.00	1.56
57.00	1674.00	11.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1681.00	7.00	1.50
63.00	1685.00	4.00	1.48

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	516.00	516.00
5.00	516.00	0.00
10.00	441.00	-75.00
15.00	344.00	-97.00
20.00	279.00	-65.00
25.00	208.00	-71.00
30.00	193.00	-15.00
35.00	178.00	-15.00
40.00	173.00	-5.00
45.00	169.00	-4.00
50.00	166.00	-3.00
55.00	163.00	-3.00
60.00	162.00	-1.00
65.00	161.00	-1.00
70.00	161.00	0.00
75.00	161.00	0.00
80.00	161.00	0.00
85.00	161.00	0.00
90.00	161.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	676.00	676.00	31.00
6.00	767.00	91.00	16.00
9.00	889.00	122.00	11.00
12.00	1009.00	120.00	8.50
15.00	1071.00	62.00	7.00
18.00	1121.00	50.00	6.00
21.00	1170.00	49.00	5.29
24.00	1214.00	44.00	4.75
27.00	1271.00	57.00	4.33

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

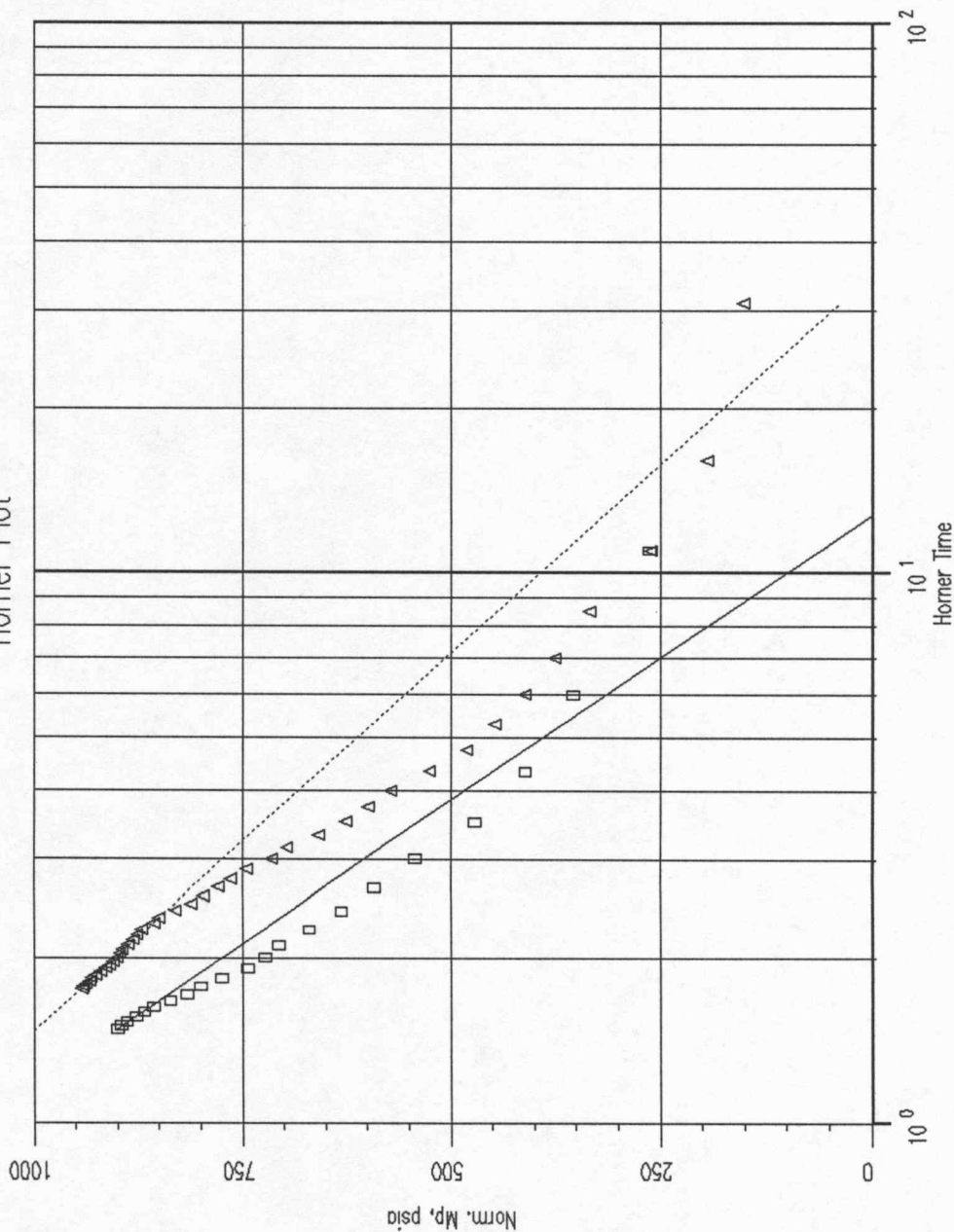
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
30.00	1328.00	57.00	4.00
33.00	1361.00	33.00	3.73
36.00	1392.00	31.00	3.50
39.00	1429.00	37.00	3.31
42.00	1472.00	43.00	3.14
45.00	1493.00	21.00	3.00
48.00	1525.00	32.00	2.88
51.00	1546.00	21.00	2.76
54.00	1561.00	15.00	2.67
57.00	1580.00	19.00	2.58
60.00	1596.00	16.00	2.50
63.00	1615.00	19.00	2.43
66.00	1636.00	21.00	2.36
69.00	1642.00	6.00	2.30
72.00	1657.00	15.00	2.25
75.00	1662.00	5.00	2.20
78.00	1667.00	5.00	2.15
81.00	1673.00	6.00	2.11
84.00	1680.00	7.00	2.07
87.00	1683.00	3.00	2.03
90.00	1687.00	4.00	2.00
93.00	1691.00	4.00	1.97
96.00	1696.00	5.00	1.94
99.00	1700.00	4.00	1.91
102.00	1706.00	6.00	1.88
105.00	1712.00	6.00	1.86
108.00	1717.00	5.00	1.83
111.00	1719.00	2.00	1.81
114.00	1723.00	4.00	1.79
117.00	1726.00	3.00	1.77
120.00	1728.00	2.00	1.75

DATE 11/2/93
 CUSTOMER ROBINSON OIL COMPANY
 WELL #2
 ELEVATION 2058 KB
 SECTION 22
 RANGE 21W
 GAUGE SN# 1051

TEST 1
 COUNTY CLARK
 RANGE 4250

TICKET 20030
 LEASE BLAU A
 GEOLOGIST LANDES
 FORMATION MORROW SAND
 TOWNSHIP 31S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.50	1.50
Slope	-965.14	-727.81
Pstar, psig	1844.49	1897.94
P1hr, psig	894.39	832.12
Skin	-2.12	-2.30
k, md	0.39	0.51
kh/u, md-ft/cp	148.14	196.45
ri, ft	12.82	25.56
DR, %	0.28	0.34
Drawdown Factor, %	-0.026	-0.029
Drawdown P*		

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 11/2/93	TICKET : 20030
CUSTOMER : ROBINSON OIL COMPANY	LEASE : BLAU A
WELL : #2	GEOLOGIST: LANDES
ELEVATION: 2058 KB	FORMATION: MORROW SAND
SECTION : 22	TOWNSHIP : 31S
RANGE : 21W	STATE : KS
GAUGE SN#: 1051	CLOCK : 12
COUNTY: CLARK	
RANGE : 4250	

Input Data

Porosity 0.120 Rw: 0.328 ft h: 6.000 ft

qg 599000.0 STB

Pvt Data

Evalutation Pressure : 1685.0
 Evalutation Temperature: 126.0

Gas Grav 0.65 API Vis 0.016 cp Ct 6.6074E-004 1/PSI
 Bg 0.001 RBL/STB

Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	1.50 hrs
slope	-965.14	-727.81
pstar	1844.49 psig	1897.94 psig
plhr	894.39 psig	832.12 psig
skin	-2.12	-2.30
permeability	0.39 md	0.51 md
transmisability	148.14 md-ft/cp	196.45 md-ft/cp
radius of investigation	12.82 ft	25.56 ft
Damage-Ratio	0.28 percent	0.34 percent
Drawdown Factor		-0.026 percent
Drawdown P*		-0.029 percent