



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 12247

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

Elevation 1432 R.B Formation Miss Eff. Pay Ft.

COMPANY NAME Jay Boy Oil Inc Co Inc
ADDRESS 8400 Killarney Wichita KS 67206
LEASE AND WELL NO. Nattier #1 COUNTY Harvey STATE Ks Sec. 21 Twp. 22S Rge. 34W
Mail Invoice To Same #1 Nattier No. Copies Requested 9
Mail Charts To Same See inside No. Copies Requested 9

Formation Test No. 1 Interval Tested From 3194 ft. to 3215 ft. Total Depth 3215 ft.
Packer Depth 3189 ft. Size 6 3/8 in. Packer Depth - ft. Size - in.
Packer Depth 3194 ft. Size 6 3/8 in. Packer Depth - ft. Size - in.

Top Recorder Depth (Inside) 3205 ft. Recorder Number 3086 Cap. 4500
Bottom Recorder Depth (Outside) 3208 ft. Recorder Number 13552 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Rig #4 Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 45 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 9.8 cc. Drill Pipe Length 3053 I. D. 3.8 in.
Chlorides 550 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 00 in.
Jars: Make - Serial Number - Anchor Length 21 ft. Size 5 1/2 00 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow throughout flow periods

Recovered 20 ft. of Drlg Mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 1:30 A.M. Time Pick Up Tool 2:00 A.M. Time Off Location A.M.
Time Set Packer(s) 3:00 P.M. Time Started Off Bottom 6:45 A.M. Maximum Temperature 112° P.M.
Initial Hydrostatic Pressure (A) 1560 P.S.I.
Initial Flow Period Minutes 30 (B) 35 P.S.I. to (C) 35 P.S.I.
Initial Closed In Period Minutes 60 (D) 544 P.S.I. 319
Final Flow Period Minutes 45 (E) 3.5 P.S.I. to (F) 35 P.S.I.
Final Closed In Period Minutes 90 (G) 497 P.S.I. 355
Final Hydrostatic Pressure (H) 1543 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 Jerry Lonas
Signature of Customer or his authorized representative
Western Representative Jim Wonda Thank You

FIELD INVOICE

Open Hole Test \$ 450
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$ 20
Insurance \$
Telecopier \$
TOTAL \$

2226
new survey for bill

WESTERN TESTING CO., INC.

Pressure Data

Date 2-7-87 Recorder No. 3086 Capacity 4500 Test Ticket No. 12247 Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1571</u>	P.S.I.	<u>3:00 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>56</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>56</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>552</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>52</u>	P.S.I.	<u>90</u>	<u>90</u> Mins.
F Second Final Flow Pressure	<u>52</u>	P.S.I.		
G Final Closed-in Pressure	<u>522</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1541</u>	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 0	<u>56</u>	0	<u>56</u>	0	<u>52</u>	0	<u>52</u>
P 2 5		3		5		3	<u>52</u>
P 3 10		6		10		6	<u>54</u>
P 4 15		9	<u>56</u>	15		9	<u>55</u>
P 5 20		12	<u>57</u>	20		12	<u>57</u>
P 6 25		15	<u>82</u>	25		15	<u>59</u>
P 7 30	<u>56</u>	18	<u>110</u>	30		18	<u>69</u>
P 8 35		21	<u>127</u>	35		21	<u>81</u>
P 9 40		24	<u>155</u>	40		24	<u>98</u>
P10 45		27	<u>193</u>	45	<u>52</u>	27	<u>118</u>
P11 50		30	<u>236</u>	50		30	<u>146</u>
P12 55		33	<u>268</u>	55		33	<u>174</u>
P13 60		36	<u>301</u>	60		36	<u>199</u>
P14 65		39	<u>346</u>	65		39	<u>226</u>
P15 70		42	<u>381</u>	70		42	<u>251</u>
P16 75		45	<u>415</u>	75		45	<u>272</u>
P17 80		48	<u>443</u>	80		48	<u>295</u>
P18 85		51	<u>468</u>	85		51	<u>321</u>
P19 90		54	<u>495</u>	90		54	<u>345</u>
P20 95		57	<u>523</u>	95		57	<u>366</u>
100		60	<u>552</u>	100		60	<u>382</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 12247

Recorder No. _____ Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	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>105</u>	<u>63</u>		<u>105</u>		<u>63</u>	<u>402</u>
P 2	<u>110</u>	<u>66</u>		<u>110</u>		<u>66</u>	<u>416</u>
P 3	<u>115</u>	<u>69</u>		<u>115</u>		<u>69</u>	<u>434</u>
P 4	<u>120</u>	<u>72</u>		<u>120</u>		<u>72</u>	<u>448</u>
P 5	<u>125</u>	<u>75</u>		<u>125</u>		<u>75</u>	<u>463</u>
P 6	<u>130</u>	<u>78</u>		<u>130</u>		<u>78</u>	<u>475</u>
P 7	<u>135</u>	<u>81</u>		<u>135</u>		<u>81</u>	<u>488</u>
P 8	<u>140</u>	<u>84</u>		<u>140</u>		<u>84</u>	<u>500</u>
P 9	<u>145</u>	<u>87</u>		<u>145</u>		<u>87</u>	<u>511</u>
P10	<u>150</u>	<u>90</u>		<u>150</u>		<u>90</u>	<u>522</u>
P11	<u>155</u>	<u>93</u>		<u>155</u>		<u>93</u>	
P12	<u>160</u>	<u>96</u>		<u>160</u>		<u>96</u>	
P13	<u>165</u>	<u>99</u>		<u>165</u>		<u>99</u>	
P14	<u>170</u>	<u>102</u>		<u>170</u>		<u>102</u>	
P15	<u>175</u>	<u>105</u>		<u>175</u>		<u>105</u>	
P16	<u>180</u>	<u>108</u>		<u>180</u>		<u>108</u>	
P17	<u>185</u>	<u>111</u>		<u>185</u>		<u>111</u>	
P18	<u>190</u>	<u>114</u>		<u>190</u>		<u>114</u>	
P19	<u>195</u>	<u>117</u>		<u>195</u>		<u>117</u>	
P20	<u>200</u>	<u>120</u>		<u>200</u>		<u>120</u>	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JAY BOY OIL COMPANY, INC. LEASE & WELL NO. #1 NATTIER SEC. 21 TWP. 22S RGE. 3W TEST NO. 1 DATE 2/7/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2/7/87 TICKET : 12247
CUSTOMER : JAY BOY OIL CO. INC. LEASE : NATTIER
WELL : #1 TEST: 1 GEOLOGIST : HONAS
ELEVATION : 1432 KB FORMATION : MISSISSIPPIAN
SECTION : 21 TOWNSHIP : 22
RANGE : 3W COUNTY : HARVEY STATE : KANSAS
GAUGE SN# : 3086 RANGE : 4500 CLOCK : 12

INTERVAL FROM : 3194 TO : 3215 TOTAL DEPTH : 3215
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3189 SIZE : 6.63
PACKER DEPTH : 3194 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN RIG 4
MUD TYPE : CHEMICAL VISCOSITY : 45
WEIGHT : 9.1 WATER LOSS (CC) : 9.8
CHLORIDES (PPM) : 550
JARS-MAKE : SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3053 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 21 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : INITIAL FLOW PERIOD-WEAK BLOW THROUGHOUT.
BLOW COMMENT #2 : FINAL FLOW PERIOD-WEAK BLOW THROUGHOUT.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: DRILLING MUD.

Total Barrels Fluid = 0.10
Total Fluid Prod Rate = 1.89 BFPD
Indicated Wtr Rate = 1.70 BWPD

REMARK 1 :
REMARK 2 : TIGHT HOLE
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	3:00 AM	TIME STARTED OFF BOTTOM :	6:45 AM
WELL TEMPERATURE :	112		
INITIAL HYDROSTATIC PRESSURE		(A)	1571
INITIAL FLOW PERIOD MIN:	30	(B)	56 PSI TO (C) : 56
INITIAL CLOSED IN PERIOD MIN:	60	(D)	552
FINAL FLOW PERIOD MIN:	45	(E)	52 PSI TO (F) : 52
FINAL CLOSED IN PERIOD MIN:	90	(G)	522
FINAL HYDROSTATIC PRESSURE		(H)	1541

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KANSAS
FIELD : NATTIER
WELL : #1
DATE : 2/7/87
GAUGE NO : 3086

OPERATIONAL COMMENTS

TIGHT HOLE

COMPANY : JAY BOY OIL CO. INC.
 WELL : #1
 GAUGE # : 3086
 DATE : 7/ 2/87

FIELD : NATTIER
 JOB # : 12247
 DEPTH : 3215
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P _i -P _(i-1)
1	3: 0: 0	0.000	56.000	112.00	0.000
2	3: 4: 59	0.083	56.000	112.00	0.000
3	3:10: 0	0.167	56.000	112.00	0.000
4	3:15: 0	0.250	56.000	112.00	0.000
5	3:19: 59	0.333	56.000	112.00	0.000
6	3:25: 0	0.417	56.000	112.00	0.000
7	3:30: 0	0.500	56.000	112.00	0.000
8	3:33: 0	0.550	56.000	112.00	0.000
9	3:36: 0	0.600	56.000	112.00	0.000
10	3:39: 0	0.650	56.000	112.00	0.000
11	3:42: 0	0.700	57.000	112.00	1.000
12	3:45: 0	0.750	82.000	112.00	25.000
13	3:48: 0	0.800	110.000	112.00	28.000
14	3:51: 0	0.850	127.000	112.00	17.000
15	3:54: 0	0.900	155.000	112.00	28.000
16	3:57: 0	0.950	193.000	112.00	38.000
17	4: 0: 0	1.000	236.000	112.00	43.000
18	4: 2: 59	1.050	268.000	112.00	32.000
19	4: 6: 0	1.100	301.000	112.00	33.000
20	4: 9: 0	1.150	346.000	112.00	45.000
21	4:12: 0	1.200	381.000	112.00	35.000
22	4:15: 0	1.250	415.000	112.00	34.000
23	4:18: 0	1.300	443.000	112.00	28.000
24	4:21: 0	1.350	468.000	112.00	25.000
25	4:24: 0	1.400	495.000	112.00	27.000
26	4:27: 0	1.450	523.000	112.00	28.000
27	4:30: 0	1.500	552.000	112.00	29.000
28	4:31: 0	1.517	52.000	112.00	-500.000
29	4:34: 59	1.583	52.000	112.00	0.000
30	4:40: 0	1.667	52.000	112.00	0.000
31	4:45: 0	1.750	52.000	112.00	0.000
32	4:49: 59	1.833	52.000	112.00	0.000
33	4:55: 0	1.917	52.000	112.00	0.000
34	5: 0: 0	2.000	52.000	112.00	0.000
35	5: 4: 59	2.083	52.000	112.00	0.000
36	5:10: 0	2.167	52.000	112.00	0.000
37	5:15: 0	2.250	52.000	112.00	0.000
38	5:18: 0	2.300	53.000	112.00	1.000
39	5:21: 0	2.350	54.000	112.00	1.000
40	5:24: 0	2.400	55.000	112.00	1.000
41	5:27: 0	2.450	57.000	112.00	2.000
42	5:30: 0	2.500	59.000	112.00	2.000
43	5:33: 0	2.550	69.000	112.00	10.000
44	5:36: 0	2.600	81.000	112.00	12.000
45	5:39: 0	2.650	98.000	112.00	17.000
46	5:42: 0	2.700	118.000	112.00	20.000
47	5:45: 0	2.750	146.000	112.00	28.000
48	5:48: 0	2.800	174.000	112.00	28.000
49	5:51: 0	2.850	199.000	112.00	25.000
50	5:54: 0	2.900	226.000	112.00	27.000
51	5:57: 0	2.950	251.000	112.00	25.000
52	6: 0: 0	3.000	272.000	112.00	21.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 3086
DATE : 7/ 2/87

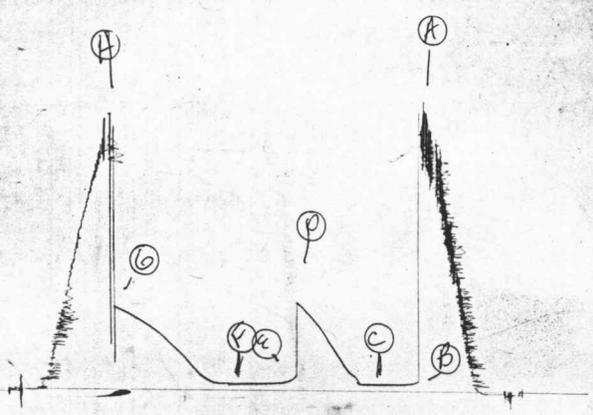
FIELD : NATTIER
JOB # : 12247
DEPTH : 3215
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	6: 3: 0	3.050	295.000	112.00	23.000
54	6: 6: 0	3.100	321.000	112.00	26.000
55	6: 9: 0	3.150	345.000	112.00	24.000
56	6:12: 0	3.200	366.000	112.00	21.000
57	6:15: 0	3.250	382.000	112.00	16.000
58	6:18: 0	3.300	402.000	112.00	20.000
59	6:21: 0	3.350	416.000	112.00	14.000
60	6:24: 0	3.400	434.000	112.00	18.000
61	6:27: 0	3.450	448.000	112.00	14.000
62	6:30: 0	3.500	463.000	112.00	15.000
63	6:33: 0	3.550	475.000	112.00	12.000
64	6:36: 0	3.600	488.000	112.00	13.000
65	6:39: 0	3.650	500.000	112.00	12.000
66	6:42: 0	3.700	511.000	112.00	11.000
67	6:45: 0	3.750	522.000	112.00	11.000

WESTERN TESTING CO. INC.

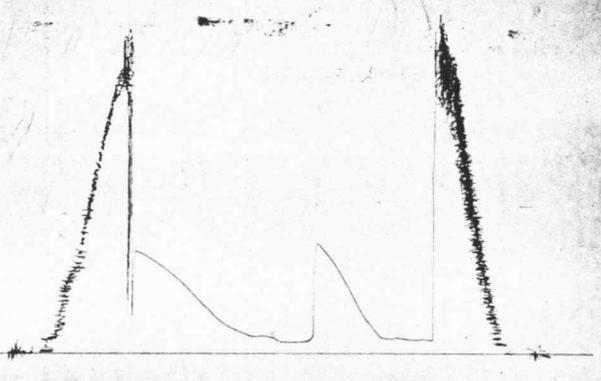
JK # 12247
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JK # 12247
O

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 12248

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

Elevation _____ Formation Miss Eff. Pay _____ Ft.

COMPANY NAME Jay Boy Oil, Inc Co Inc. District Pratt Date 2/7/87 Customer Order No. _____

LEASE AND WELL NO. Nattier #1 COUNTY Harvey STATE KS Sec. 21 Twp. 22 S 34 Rge. _____

Mail Invoice To Same Co. Name Same See District Address _____ No. Copies Requested 5

Formation Test No. 2 Interval Tested From 3214 ft. to 3230 ft. Total Depth 3230 ft.
Packer Depth 3209 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3214 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Top Recorder Depth (Inside) 3220 ft. Recorder Number 3086 Cap. 4500
Bottom Recorder Depth (Outside) 3223 ft. Recorder Number 13552 Cap. 4050
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Allen Rig #4 Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 45 Weight Pipe Length _____ I. D. _____ in.
Weight 9.1 Water Loss 9.8 cc. Drill Pipe Length 3073 I. D. 3.8 in.
Chlorides 550 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make _____ Serial Number _____ 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 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak flow throughout first flow
No blow on second flow

Recovered 20 ft. of Dry Mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides _____ P.P.M. Sample Jars used _____ Remarks: _____

Table with 4 columns: Time On Location, Time Pick Up Tool, Time Off Location, Time Set Packer(s). Rows include Initial Hydrostatic Pressure, Initial Flow Period, Initial Closed In Period, Final Flow Period, Final Closed In Period, Final Hydrostatic Pressure.

COMPANY TERMS

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Test Approved By: [Signature] Signature of Customer or his authorized representative
Western Representative: [Signature] Thank You

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include 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.

2326

WESTERN TESTING CO., INC.

Pressure Data

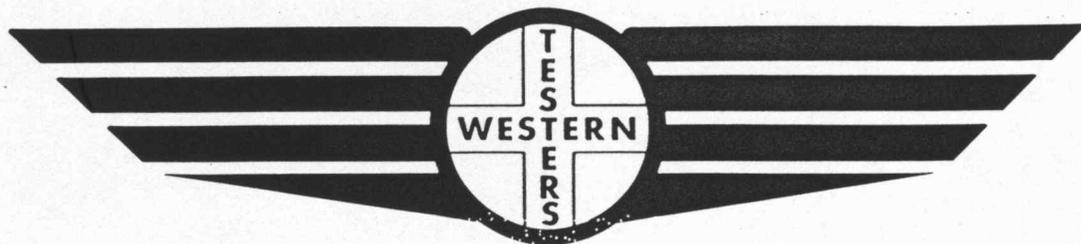
Date 2-7-87 Test Ticket No. 12248
 Recorder No. 3086 Capacity 4500 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1537</u>	P.S.I.	<u>2:15 A</u>	M
B First Initial Flow Pressure	<u>45</u>	P.S.I.	<u>30</u>	Mins <u>30</u> Mins.
C First Final Flow Pressure	<u>45</u>	P.S.I.	<u>100</u>	Mins <u>63</u> Mins.
D Initial Closed-in Pressure	<u>786</u>	P.S.I.	<u>30</u>	Mins <u>30</u> Mins.
E Second Initial Flow Pressure	<u>57</u>	P.S.I.	<u>100</u>	Mins <u>60</u> Mins.
F Second Final Flow Pressure	<u>57</u>	P.S.I.		
G Final Closed-in Pressure	<u>613</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1524</u>	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 0	<u>45</u>	0	<u>45</u>	0	<u>57</u>	0	<u>57</u>
P 2 5		3		5		3	
P 3 10		6		10		6	
P 4 15		9		15		9	
P 5 20		12	<u>45</u>	20		12	
P 6 25		15	<u>46</u>	25		15	<u>57</u>
P 7 30	<u>45</u>	18	<u>51</u>	30	<u>57</u>	18	<u>58</u>
P 8 35		21	<u>61</u>	35		21	<u>64</u>
P 9 40		24	<u>80</u>	40		24	<u>76</u>
P10 45		27	<u>99</u>	45		27	<u>94</u>
P11 50		30	<u>161</u>	50		30	<u>115</u>
P12 55		33	<u>241</u>	55		33	<u>139</u>
P13 60		36	<u>326</u>	60		36	<u>168</u>
P14 65		39	<u>409</u>	65		39	<u>226</u>
P15 70		42	<u>483</u>	70		42	<u>287</u>
P16 75		45	<u>552</u>	75		45	<u>346</u>
P17 80		48	<u>611</u>	80		48	<u>410</u>
P18 85		51	<u>661</u>	85		51	<u>474</u>
P19 90		54	<u>708</u>	90		54	<u>530</u>
P20 95		57	<u>739</u>	95		57	<u>577</u>
100		60	<u>761</u>	100		60	<u>613</u>
		1.3	<u>786</u>				

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JAY BOY OIL COMPANY, INC. LEASE & WELL NO. #1 NATTIER SEC. 21 TWP. 22S RGE. 3W TEST NO. 2 DATE 2/7/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2/7/87 TICKET : 12248
CUSTOMER : JAY BOY OIL CO. INC. LEASE : NATTIER
WELL : #1 TEST: 2 GEOLOGIST : HONAS
ELEVATION : FORMATION : MISSISSIPPIAN
SECTION : 21 TOWNSHIP : 22
RANGE : 3W COUNTY : HARVEY STATE : KANSAS
GAUGE SN# : 3086 RANGE : 4500 CLOCK : 12

INTERVAL FROM : 3214 TO : 3230 TOTAL DEPTH : 3230
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3209 SIZE : 6.63
PACKER DEPTH : 3214 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRLG. RIG 4
MUD TYPE : CHEMICAL VISCOSITY : 45
WEIGHT : 9.1 WATER LOSS (CC) : 9.8
CHLORIDES (PPM) : 550
JARS-MAKE : SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3073 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 16 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5

BLOW COMMENT #1 : INITIAL FLOW PERIOD-WEAK BLOW THROUGHOUT.
BLOW COMMENT #2 : FINAL FLOW PERIOD - NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: DRILLING MUD

Total Barrels Fluid = 0.10
Total Fluid Prod Rate = 2.36 BFPD
Indicated Wtr Rate = 2.12 BWPD

REMARK 1 :
REMARK 2 : TIGHT HOLE
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	3:15 PM	TIME STARTED OFF BOTTOM :	6:15 PM
WELL TEMPERATURE :	112		
INITIAL HYDROSTATIC PRESSURE		(A)	1537
INITIAL FLOW PERIOD MIN:	30	(B)	45 PSI TO (C) : 45
INITIAL CLOSED IN PERIOD MIN:	63	(D)	786
FINAL FLOW PERIOD MIN:	30	(E)	57 PSI TO (F) : 57
FINAL CLOSED IN PERIOD MIN:	60	(G)	613
FINAL HYDROSTATIC PRESSURE		(H)	1524

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KANSAS
FIELD : NATTIER
WELL : #1
DATE : 2/7/87
GAUGE NO : 3086

OPERATIONAL COMMENTS

TIGHT HOLE

COMPANY : JAY BOY OIL CO. INC.
 WELL : #1
 GAUGE # : 3086
 DATE : 7/ 2/87

FIELD : NATTIER
 JOB # : 12248
 DEPTH : 3230
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P _i -P _(i-1)
1	3:15: 0	0.000	45.000	112.00	0.000
2	3:19:59	0.083	45.000	112.00	0.000
3	3:25: 0	0.167	45.000	112.00	0.000
4	3:30: 0	0.250	45.000	112.00	0.000
5	3:34:59	0.333	45.000	112.00	0.000
6	3:40: 0	0.417	45.000	112.00	0.000
7	3:45: 0	0.500	45.000	112.00	0.000
8	3:48: 0	0.550	45.000	112.00	0.000
9	3:51: 0	0.600	45.000	112.00	0.000
10	3:54: 0	0.650	45.000	112.00	0.000
11	3:57: 0	0.700	45.000	112.00	0.000
12	4: 0: 0	0.750	46.000	112.00	1.000
13	4: 3: 0	0.800	51.000	112.00	5.000
14	4: 6: 0	0.850	61.000	112.00	10.000
15	4: 9: 0	0.900	80.000	112.00	19.000
16	4:12: 0	0.950	99.000	112.00	19.000
17	4:15: 0	1.000	161.000	112.00	62.000
18	4:18: 0	1.050	241.000	112.00	80.000
19	4:21: 0	1.100	326.000	112.00	85.000
20	4:24: 0	1.150	409.000	112.00	83.000
21	4:27: 0	1.200	483.000	112.00	74.000
22	4:30: 0	1.250	552.000	112.00	69.000
23	4:33: 0	1.300	611.000	112.00	59.000
24	4:36: 0	1.350	661.000	112.00	50.000
25	4:39: 0	1.400	708.000	112.00	47.000
26	4:42: 0	1.450	739.000	112.00	31.000
27	4:45: 0	1.500	761.000	112.00	22.000
28	4:48: 0	1.550	786.000	112.00	25.000
29	4:49: 0	1.567	57.000	112.00	-729.000
30	4:52:59	1.633	57.000	112.00	0.000
31	4:58: 0	1.717	57.000	112.00	0.000
32	5: 3: 0	1.800	57.000	112.00	0.000
33	5: 7:59	1.883	57.000	112.00	0.000
34	5:13: 0	1.967	57.000	112.00	0.000
35	5:18: 0	2.050	57.000	112.00	0.000
36	5:21: 0	2.100	57.000	112.00	0.000
37	5:23:59	2.150	57.000	112.00	0.000
38	5:27: 0	2.200	57.000	112.00	0.000
39	5:30: 0	2.250	57.000	112.00	0.000
40	5:33: 0	2.300	57.000	112.00	0.000
41	5:36: 0	2.350	58.000	112.00	1.000
42	5:38:59	2.400	64.000	112.00	6.000
43	5:42: 0	2.450	76.000	112.00	12.000
44	5:45: 0	2.500	94.000	112.00	18.000
45	5:48: 0	2.550	115.000	112.00	21.000
46	5:51: 0	2.600	139.000	112.00	24.000
47	5:54: 0	2.650	168.000	112.00	29.000
48	5:56:59	2.700	226.000	112.00	58.000
49	6: 0: 0	2.750	287.000	112.00	61.000
50	6: 3: 0	2.800	346.000	112.00	59.000
51	6: 6: 0	2.850	410.000	112.00	64.000
52	6: 9: 0	2.900	474.000	112.00	64.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 3086
DATE : 7/ 2/87

FIELD : NATTIER
JOB # : 12248
DEPTH : 3230
TEST :

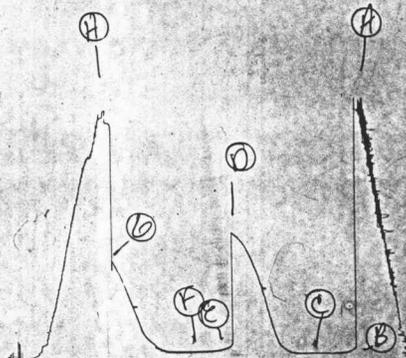
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	6:11:59	2.950	530.000	112.00	56.000
54	6:15: 0	3.000	577.000	112.00	47.000
55	6:18: 0	3.050	613.000	112.00	36.000

WESTERN TESTING CO. INC.

JKT # 12248

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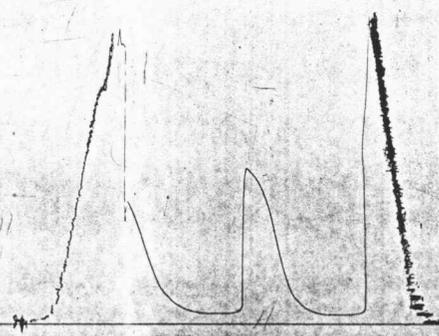
9



JKT # 12248

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 12249

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

Elevation _____ Formation Miss Eff. Pay _____ Ft.

District Pratt Date 2/8/87 Customer Order No.
COMPANY NAME Jay Boy Oil, Inc Co Inc

ADDRESS _____

LEASE AND WELL NO. Nattier #1 COUNTY Harvey STATE KS Sec. 21 Twp. 22 Rge. 3

Mail Invoice To Same Co. Name No. Copies Requested 5

Mail Charts To Same See District Address No. Copies Requested 59

Formation Test No. 3 Interval Tested From 3225 ft. to 3238 ft. Total Depth 3238 ft.

Packer Depth 3220 ft. Size 6 1/8 in. Packer Depth - ft. Size - in.
Packer Depth 3225 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3228 ft. Recorder Number 3086 Cap. 4500

Bottom Recorder Depth (Outside) 3231 ft. Recorder Number 13552 Cap. 4050

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

Drilling Contractor Allen Rig #4 Drill Collar Length 120 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 9.8 cc. Drill Pipe Length 3084 I. D. 3.8 in.

Chlorides 550 P.P.M. Test Tool Length 21 ft. Tool Size 5/200 in.

Jars: Make - Serial Number - Anchor Length 13 ft. Size 5/200 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: Weak blow throughout flow periods

Recovered 150 ft. of Muddy Water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 24,000 P.P.M. Sample Jars used _____ Remarks: Tite Hole

Time On Location _____ A.M. Time Pick Up Tool 12:00 P.M. Time Off Location _____ A.M.

Time Set Packer(s) 1:05 A.M. Time Started Off Bottom 5:05 P.M. Maximum Temperature 113°

Initial Hydrostatic Pressure (A) 1486 P.S.I.

Initial Flow Period Minutes 45 (B) 47 P.S.I. to (C) 47 P.S.I.

Initial Closed In Period Minutes 60 (D) 834 P.S.I.

Final Flow Period Minutes 45 (E) 82 P.S.I. to (F) 82 P.S.I.

Final Closed In Period Minutes 90 (G) 834 P.S.I.

Final Hydrostatic Pressure (H) 1462 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 Jerry Jones Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Table with 2 columns: Item Name and Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

2376

WESTERN TESTING CO., INC.

Pressure Data

Date 2-8-87 Test Ticket No. 12249
 Recorder No. 3086 Capacity 4500 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 112 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1481</u>			<u>1:05 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>58</u>	P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>58</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>858</u>	P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>99</u>	P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>99</u>	P.S.I.			
G Final Closed-in Pressure	<u>864</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1444</u>	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 0	<u>58</u>	0	<u>58</u>	0	<u>99</u>	0	<u>99</u>
P 2 5		3	<u>198</u>	5		3	<u>197</u>
P 3 10		6	<u>434</u>	10		6	<u>395</u>
P 4 15		9	<u>573</u>	15		9	<u>551</u>
P 5 20		12	<u>657</u>	20		12	<u>627</u>
P 6 25		15	<u>715</u>	25		15	<u>683</u>
P 7 30		18	<u>751</u>	30		18	<u>724</u>
P 8 35		21	<u>774</u>	35		21	<u>755</u>
P 9 40		24	<u>792</u>	40		24	<u>776</u>
P10 45	<u>58</u>	27	<u>806</u>	45	<u>99</u>	27	<u>795</u>
P11 50		30	<u>818</u>	50		30	<u>807</u>
P12 55		33	<u>823</u>	55		33	<u>815</u>
P13 60		36	<u>832</u>	60		36	<u>822</u>
P14 65		39	<u>836</u>	65		39	<u>830</u>
P15 70		42	<u>839</u>	70		42	<u>835</u>
P16 75		45	<u>844</u>	75		45	<u>838</u>
P17 80		48	<u>849</u>	80		48	<u>843</u>
P18 85		51	<u>851</u>	85		51	<u>846</u>
P19 90		54	<u>853</u>	90		54	<u>849</u>
P20 95		57	<u>856</u>	95		57	<u>850</u>
100		60	<u>858</u>	100		60	<u>852</u>

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 12249

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

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
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>105</u>	_____	<u>63</u>	_____	<u>105</u>	_____	<u>63</u>	<u>854</u>
P 2 <u>110</u>	_____	<u>66</u>	_____	<u>110</u>	_____	<u>66</u>	<u>856</u>
P 3 <u>115</u>	_____	<u>69</u>	_____	<u>115</u>	_____	<u>69</u>	<u>857</u>
P 4 <u>120</u>	_____	<u>72</u>	_____	<u>120</u>	_____	<u>72</u>	<u>858</u>
P 5 <u>125</u>	_____	<u>75</u>	_____	<u>125</u>	_____	<u>75</u>	<u>859</u>
P 6 <u>130</u>	_____	<u>78</u>	_____	<u>130</u>	_____	<u>78</u>	<u>860</u>
P 7 <u>135</u>	_____	<u>81</u>	_____	<u>135</u>	_____	<u>81</u>	<u>861</u>
P 8 <u>140</u>	_____	<u>84</u>	_____	<u>140</u>	_____	<u>84</u>	<u>862</u>
P 9 <u>145</u>	_____	<u>87</u>	_____	<u>145</u>	_____	<u>87</u>	<u>863</u>
P10 <u>150</u>	_____	<u>90</u>	_____	<u>150</u>	_____	<u>90</u>	<u>864</u>
P11 <u>155</u>	_____	<u>93</u>	_____	<u>155</u>	_____	<u>93</u>	_____
P12 <u>160</u>	_____	<u>96</u>	_____	<u>160</u>	_____	<u>96</u>	_____
P13 <u>165</u>	_____	<u>99</u>	_____	<u>165</u>	_____	<u>99</u>	_____
P14 <u>170</u>	_____	<u>102</u>	_____	<u>170</u>	_____	<u>102</u>	_____
P15 <u>175</u>	_____	<u>105</u>	_____	<u>175</u>	_____	<u>105</u>	_____
P16 <u>180</u>	_____	<u>108</u>	_____	<u>180</u>	_____	<u>108</u>	_____
P17 <u>185</u>	_____	<u>111</u>	_____	<u>185</u>	_____	<u>111</u>	_____
P18 <u>190</u>	_____	<u>114</u>	_____	<u>190</u>	_____	<u>114</u>	_____
P19 <u>195</u>	_____	<u>117</u>	_____	<u>195</u>	_____	<u>117</u>	_____
P20 <u>200</u>	_____	<u>120</u>	_____	<u>200</u>	_____	<u>120</u>	_____

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2/8/87 TICKET : 12249
CUSTOMER : JAY BOY OIL CO. INC. LEASE : NATTIER
WELL : #1 TEST: 3 GEOLOGIST : HONAS
ELEVATION : FORMATION : MISSISSIPPIAN
SECTION : 21 TOWNSHIP : 22
RANGE : 3W COUNTY : HARVEY STATE : KANSAS
GAUGE SN# : 3086 RANGE : 4500 CLOCK : 12

INTERVAL FROM : 3225 TO : 3238 TOTAL DEPTH : 3238
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3220 SIZE : 6.63
PACKER DEPTH : 3225 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRLG RIG 4
MUD TYPE : CHEMICAL VISCOSITY : 45
WEIGHT : 9.1 WATER LOSS (CC) : 9.8
CHLORIDES (PPM) : 550
JARS-MAKE : SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3084 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 13 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : INITIAL FLOW PERIOD-WEAK BLOW THROUGHOUT
BLOW COMMENT #2 : FINAL FLOW PERIOD-WEAK BLOW THROUGHOUT.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 150 FT OF: MUDDY WATER
RECOVERED : 0 FT OF: (CHL. 24000 PPM)

Total Barrels Fluid = 1.01
Total Fluid Prod Rate = 16.17 BFPD
Indicated Wtr Rate = 16.17 BWPD

REMARK 1 :
REMARK 2 : TIGHT HOLE
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	1:05 AM	TIME STARTED OFF BOTTOM :	5:05 AM
WELL TEMPERATURE :	113		
INITIAL HYDROSTATIC PRESSURE		(A)	1481
INITIAL FLOW PERIOD MIN:	45	(B)	58 PSI TO (C) : 58
INITIAL CLOSED IN PERIOD MIN:	60	(D)	858
FINAL FLOW PERIOD MIN:	45	(E)	99 PSI TO (F) : 99
FINAL CLOSED IN PERIOD MIN:	90	(G)	864
FINAL HYDROSTATIC PRESSURE		(H)	1444

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KANSAS
FIELD : NATTIER
WELL : #1
DATE : 2/8/87
GAUGE NO : 3086

OPERATIONAL COMMENTS

TIGHT HOLE

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 3086
DATE : 8/ 2/87

FIELD : NATTIER
JOB # : 12249
DEPTH : 3238
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1: 5: 0	0.000	58.000	113.00	0.000
2	1: 9:59	0.083	58.000	113.00	0.000
3	1:15: 0	0.167	58.000	113.00	0.000
4	1:20: 0	0.250	58.000	113.00	0.000
5	1:24:59	0.333	58.000	113.00	0.000
6	1:30: 0	0.417	58.000	113.00	0.000
7	1:35: 0	0.500	58.000	113.00	0.000
8	1:39:59	0.583	58.000	113.00	0.000
9	1:45: 0	0.667	58.000	113.00	0.000
10	1:50: 0	0.750	58.000	113.00	0.000
11	1:53: 0	0.800	198.000	113.00	140.000
12	1:56: 0	0.850	434.000	113.00	236.000
13	1:59: 0	0.900	573.000	113.00	139.000
14	2: 2: 0	0.950	657.000	113.00	84.000
15	2: 5: 0	1.000	715.000	113.00	58.000
16	2: 8: 0	1.050	751.000	113.00	36.000
17	2:11: 0	1.100	774.000	113.00	23.000
18	2:14: 0	1.150	792.000	113.00	18.000
19	2:17: 0	1.200	806.000	113.00	14.000
20	2:20: 0	1.250	818.000	113.00	12.000
21	2:23: 0	1.300	823.000	113.00	5.000
22	2:26: 0	1.350	832.000	113.00	9.000
23	2:29: 0	1.400	836.000	113.00	4.000
24	2:32: 0	1.450	839.000	113.00	3.000
25	2:35: 0	1.500	844.000	113.00	5.000
26	2:38: 0	1.550	849.000	113.00	5.000
27	2:41: 0	1.600	851.000	113.00	2.000
28	2:44: 0	1.650	853.000	113.00	2.000
29	2:47: 0	1.700	856.000	113.00	3.000
30	2:50: 0	1.750	858.000	113.00	2.000
31	2:51: 0	1.767	99.000	113.00	-759.000
32	2:54:59	1.833	99.000	113.00	0.000
33	3: 0: 0	1.917	99.000	113.00	0.000
34	3: 5: 0	2.000	99.000	113.00	0.000
35	3: 9:59	2.083	99.000	113.00	0.000
36	3:15: 0	2.167	99.000	113.00	0.000
37	3:20: 0	2.250	99.000	113.00	0.000
38	3:24:59	2.333	99.000	113.00	0.000
39	3:30: 0	2.417	99.000	113.00	0.000
40	3:35: 0	2.500	99.000	113.00	0.000
41	3:38: 0	2.550	197.000	113.00	98.000
42	3:41: 0	2.600	395.000	113.00	198.000
43	3:44: 0	2.650	551.000	113.00	156.000
44	3:47: 0	2.700	627.000	113.00	76.000
45	3:50: 0	2.750	683.000	113.00	56.000
46	3:53: 0	2.800	724.000	113.00	41.000
47	3:56: 0	2.850	755.000	113.00	31.000
48	3:59: 0	2.900	776.000	113.00	21.000
49	4: 2: 0	2.950	795.000	113.00	19.000
50	4: 5: 0	3.000	807.000	113.00	12.000
51	4: 8: 0	3.050	815.000	113.00	8.000
52	4:11: 0	3.100	822.000	113.00	7.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 3086
DATE : 8/ 2/87

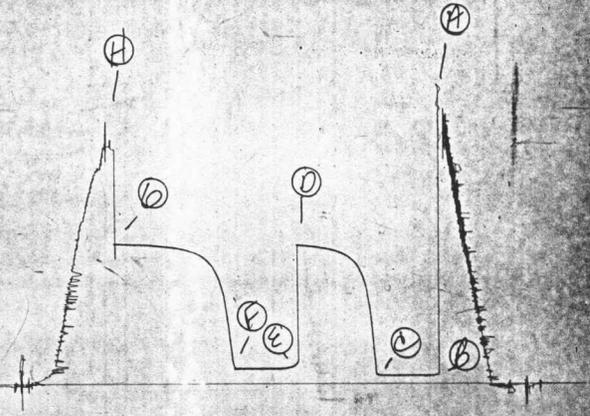
FIELD : NATTIER
JOB # : 12249
DEPTH : 3238 .
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	4:14: 0	3.150	830.000	113.00	8.000
54	4:17: 0	3.200	835.000	113.00	5.000
55	4:20: 0	3.250	838.000	113.00	3.000
56	4:23: 0	3.300	843.000	113.00	5.000
57	4:26: 0	3.350	846.000	113.00	3.000
58	4:29: 0	3.400	849.000	113.00	3.000
59	4:32: 0	3.450	850.000	113.00	1.000
60	4:35: 0	3.500	852.000	113.00	2.000
61	4:38: 0	3.550	854.000	113.00	2.000
62	4:41: 0	3.600	856.000	113.00	2.000
63	4:44: 0	3.650	857.000	113.00	1.000
64	4:47: 0	3.700	858.000	113.00	1.000
65	4:50: 0	3.750	859.000	113.00	1.000
66	4:53: 0	3.800	860.000	113.00	1.000
67	4:56: 0	3.850	861.000	113.00	1.000
68	4:59: 0	3.900	862.000	113.00	1.000
69	5: 2: 0	3.950	863.000	113.00	1.000
70	5: 5: 0	4.000	864.000	113.00	1.000

WESTERN TESTING CO. INC.

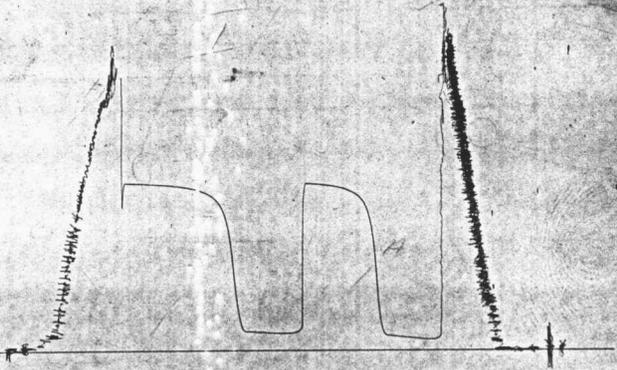
Alt # 12249

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Alt # 12249

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 12250

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

Elevation _____ Formation Misner Sand Eff. Pay _____ Ft.

District Pratt Date 2/9/87 Customer Order No. _____

COMPANY NAME Jay Boy Oil Co. Inc.

ADDRESS 8400 Killarney

LEASE AND WELL NO. Nattier #1 COUNTY Harvey STATE KS Sec. 21 Twp. 22 Rge. 3

Mail Invoice To Same #1 Nattier Co. Name Address No. Copies Requested 19

Mail Charts To Same Address No. Copies Requested 19

Formation Test No. 4 Interval Tested From 3520 ft. to 3540 ft. Total Depth 3540 ft.
Packer Depth 3515 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3520 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3530 ft. Recorder Number 3086 Cap. 4500
Bottom Recorder Depth (Outside) 3533 ft. Recorder Number 13552 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Rig #4 Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 44 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 3379 I. D. 3.8 in.
Chlorides 850 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 20 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow died in 20 min on first flow
No blow on second flow

Recovered 0 ft. of
Recovered _____ ft. of
Recovered _____ ft. of
Recovered _____ ft. of
Recovered _____ ft. of
Chlorides _____ P.P.M. Sample Jars used _____ Remarks: tight hole

Time On Location 11:30 A.M. Time Pick Up Tool 12:00 P.M. Time Off Location _____ A.M.
Time Set Packer(s) 1:15 P.M. Time Started Off Bottom 4:15 P.M. Maximum Temperature 116°
Initial Hydrostatic Pressure (A) 1681 P.S.I.
Initial Flow Period Minutes 30 (B) 11 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period Minutes 60 (D) 11 P.S.I.
Final Flow Period Minutes 30 (E) 11 P.S.I. to (F) 11 P.S.I.
Final Closed In Period Minutes 60 (G) 11 P.S.I.
Final Hydrostatic Pressure (H) 1658 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 representative
Western Representative _____

FIELD INVOICE

Open Hole Test \$ 50
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

2376

WESTERN TESTING CO., INC.

Pressure Data

Date 2-9-87 Test Ticket No. 1250
 Recorder No. 3086 Capacity 4500 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 116 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1685</u> P.S.I.		M
B First Initial Flow Pressure	<u>23</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>23</u> P.S.I.	<u>600</u> Mins.	<u>600</u> Mins.
D Initial Closed-in Pressure	<u>23</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>23</u> P.S.I.	<u>600</u> Mins.	<u>600</u> Mins.
F Second Final Flow Pressure	<u>23</u> P.S.I.		
G Final Closed-in Pressure	<u>23</u> P.S.I.		
H Final Hydrostatic Mud	<u>1657</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
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 0	<u>23</u>	0	<u>23</u>	0	<u>23</u>	0	<u>23</u>
P 2 5		3		5		3	
P 3 10		6		10		6	
P 4 15		9		15		9	
P 5 20		12		20		12	
P 6 25		15		25		15	
P 7 30	<u>23</u>	18		30	<u>23</u>	18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P 10 45		27		45		27	
P 11 50		30		50		30	
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14 65		39		65		39	
P 15 70		42		70		42	
P 16 75		45		75		45	
P 17 80		48		80		48	
P 18 85		51		85		51	
P 19 90		54		90		54	
P 20 95		57		95		57	
100		60	<u>23</u>	100		60	<u>23</u>

TO: JAY BOY OIL COMPANY INC.
8400 KILLARNEY
WICHITA, KS 67206

FROM: WESTERN TESTING CO., INC.
P.O. BOX 1599
WICHITA, KS 67201-1599

SUBJECT: COPIES OF DRILL STEM TEST MAILED TO INTEREST OWNERS.

DATE: FEB. 9 THRU 12, 1987

WELL NAME & NUMBER: NATTIER #1

TEST NUMBER: 4, 5, 6 & 7

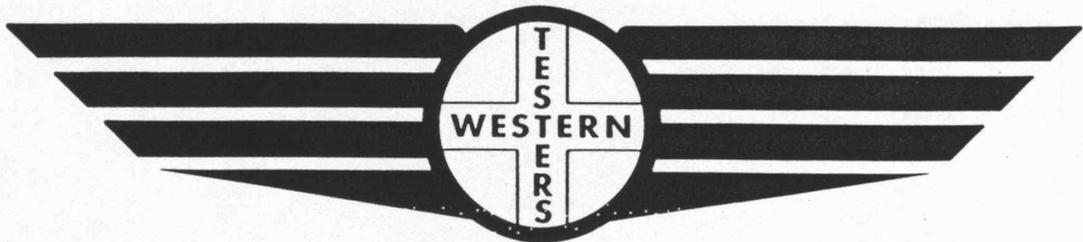
LOCATION: HARVEY COUNTY KANSAS

COPIES MAILED TO:

JAY BOY OIL COMPANY INC.
8400 KILLARNEY
WICHITA, KS 67206
(INVOICE , ORIGINAL & 5 COPIES)

PHOENIX PETROLEUM CORPORATION
151 N. MAIN, SUITE 350
WICHITA, KS 67202
(3 COPIES)

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

OIL COMPANY JAY BOY OIL CO., INC.

LEASE & WELL NO. #1 NATTIER

SEC. 21 TWP 22S RGE. 3W

TEST NO. 4

DATE 2/9/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2-9-87
CUSTOMER : JAY BOY OIL CO. INC.
WELL : #1 TEST: 4
ELEVATION : -
SECTION : 21
RANGE : 3W COUNTY : HARVEY
GAUGE SN# : 3086 RANGE : 4500

TICKET : 12250
LEASE : NATTIER
GEOLOGIST : J. HONAS
FORMATION : MISNER SAND
TOWNSHIP : 22S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3520 TO : 3540 TOTAL DEPTH : 3540
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3515 SIZE : 6.63
PACKER DEPTH : 3520 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRILLING RIG #4
MUD TYPE : CHEMICAL VISCOSITY : 44
WEIGHT : 9.1 WATER LOSS (CC) : 10.4
CHLORIDES (PPM) : 850
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3379 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 20 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : WEAK BLOW DIED IN 20 MINUTES ON THE INITIAL FLOW.
BLOW COMMENT #2 : NO BLOW ON THE FINAL FLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 0 FT OF:

Total Barrels Fluid = 0.00
Total Fluid Prod Rate = 0.00 BFPD

REMARK 1 : TIGHT HOLE
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 1:15 AM

TIME STARTED OFF BOTTOM : 4:15 AM

WELL TEMPERATURE : 116

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 60

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 60

FINAL HYDROSTATIC PRESSURE

(A) 1685

(B) 23 PSI TO (C) : 23

(D) 23

(E) 23 PSI TO (F) : 23

(G) 23

(H) 1657

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KANSAS
FIELD : NATTIER
WELL : #1
DATE : 2-9-87
GAUGE NO : 3086

OPERATIONAL COMMENTS

TIGHT HOLE

COMPANY : JAY BOY OIL CO. INC.
 WELL : #1
 GAUGE # : 3086
 DATE : 9/ 2/87

FIELD : NATTIER
 JOB # : 12250
 DEPTH : 3540
 TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:15: 0	0.000	23.000	116.00	0.000
2	1:19:59	0.083	23.000	116.00	0.000
3	1:25: 0	0.167	23.000	116.00	0.000
4	1:30: 0	0.250	23.000	116.00	0.000
5	1:34:59	0.333	23.000	116.00	0.000
6	1:40: 0	0.417	23.000	116.00	0.000
7	1:45: 0	0.500	23.000	116.00	0.000
8	1:48: 0	0.550	23.000	116.00	0.000
9	1:51: 0	0.600	23.000	116.00	0.000
10	1:54: 0	0.650	23.000	116.00	0.000
11	1:57: 0	0.700	23.000	116.00	0.000
12	2: 0: 0	0.750	23.000	116.00	0.000
13	2: 3: 0	0.800	23.000	116.00	0.000
14	2: 6: 0	0.850	23.000	116.00	0.000
15	2: 9: 0	0.900	23.000	116.00	0.000
16	2:12: 0	0.950	23.000	116.00	0.000
17	2:15: 0	1.000	23.000	116.00	0.000
18	2:18: 0	1.050	23.000	116.00	0.000
19	2:21: 0	1.100	23.000	116.00	0.000
20	2:24: 0	1.150	23.000	116.00	0.000
21	2:27: 0	1.200	23.000	116.00	0.000
22	2:30: 0	1.250	23.000	116.00	0.000
23	2:33: 0	1.300	23.000	116.00	0.000
24	2:36: 0	1.350	23.000	116.00	0.000
25	2:39: 0	1.400	23.000	116.00	0.000
26	2:42: 0	1.450	23.000	116.00	0.000
27	2:45: 0	1.500	23.000	116.00	0.000
28	2:46: 0	1.517	23.000	116.00	0.000
29	2:49:59	1.583	23.000	116.00	0.000
30	2:55: 0	1.667	23.000	116.00	0.000
31	3: 0: 0	1.750	23.000	116.00	0.000
32	3: 4:59	1.833	23.000	116.00	0.000
33	3:10: 0	1.917	23.000	116.00	0.000
34	3:15: 0	2.000	23.000	116.00	0.000
35	3:18: 0	2.050	23.000	116.00	0.000
36	3:21: 0	2.100	23.000	116.00	0.000
37	3:24: 0	2.150	23.000	116.00	0.000
38	3:27: 0	2.200	23.000	116.00	0.000
39	3:30: 0	2.250	23.000	116.00	0.000
40	3:33: 0	2.300	23.000	116.00	0.000
41	3:36: 0	2.350	23.000	116.00	0.000
42	3:39: 0	2.400	23.000	116.00	0.000
43	3:42: 0	2.450	23.000	116.00	0.000
44	3:45: 0	2.500	23.000	116.00	0.000
45	3:48: 0	2.550	23.000	116.00	0.000
46	3:51: 0	2.600	23.000	116.00	0.000
47	3:54: 0	2.650	23.000	116.00	0.000
48	3:57: 0	2.700	23.000	116.00	0.000
49	4: 0: 0	2.750	23.000	116.00	0.000
50	4: 3: 0	2.800	23.000	116.00	0.000
51	4: 6: 0	2.850	23.000	116.00	0.000
52	4: 9: 0	2.900	23.000	116.00	0.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 3086
DATE : 9/ 2/87

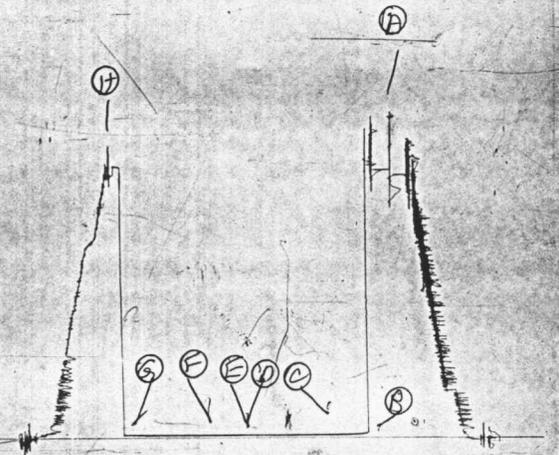
FIELD : NATTIER
JOB # : 12250
DEPTH : 3540
TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	4:12: 0	2.950	23.000	116.00	0.000
54	4:15: 0	3.000	23.000	116.00	0.000

WESTERN TESTING CO. INC.

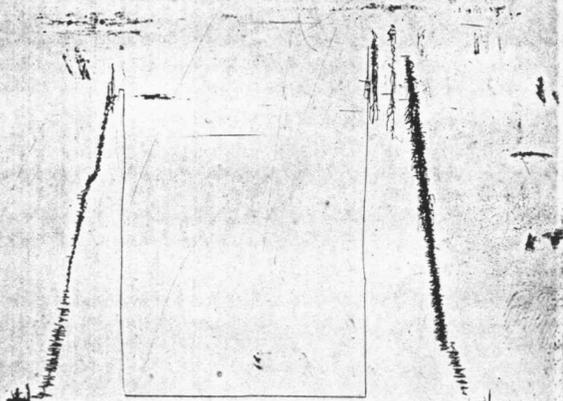
TK4 12250 9

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TK4 12250 9

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 11721

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

Elevation _____ Formation Hunton Eff. Pay _____ Ft.

District H Pratt Date 2/9/87 Customer Order No. _____

COMPANY NAME Jay Boy Oil Co Inc

ADDRESS _____

LEASE AND WELL NO. Nattier #1 COUNTY Harvey STATE Ks Sec. 21 Twp. 22 Rge. 3w

Mail Invoice To Same # / Nattier No. Copies Requested 59

Mail Charts To Same Address _____ No. Copies Requested 59

Formation Test No. 51 Interval Tested From 3549 ft. to 3559 ft. Total Depth 3559 ft.
Packer Depth 3544 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.
Packer Depth 3549 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3550 ft. Recorder Number 3086 Cap. 4500
Bottom Recorder Depth (Outside) 3553 ft. Recorder Number 13552 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Rig #4 Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 43 Weight Pipe Length _____ I. D. _____ in.
Weight 9.2 Water Loss 9.4 cc. Drill Pipe Length 3408 I. D. 3.8 in.
Chlorides 1100 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make _____ Serial Number _____ Anchor Length 10 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods

Recovered 390 ft. of Gas in Pipe
Recovered 60 ft. of Mud + Wtr cut 0.1 (20% wtr) (707000)
Recovered 390 ft. of Oily Salt Water
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides 57,000 P.P.M. Sample Jars used _____ Remarks: Tite Hole

Time On Location _____ A.M. P.M. Time Pick Up Tool 11:30 A.M. P.M. Time Off Location _____ A.M. P.M.
Time Set Packer(s) 12:35 A.M. P.M. Time Started Off Bottom 3:35 A.M. P.M. Maximum Temperature 117°
Initial Hydrostatic Pressure _____ (A) 1670 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 59 P.S.I. to (C) 106 P.S.I.
Initial Closed In Period _____ Minutes 60 (D) 753 P.S.I.
Final Flow Period _____ Minutes 30 (E) 189 P.S.I. to (F) 213 P.S.I.
Final Closed In Period _____ Minutes 60 (G) 706 P.S.I.
Final Hydrostatic Pressure _____ (H) 1647 P.S.I.

COMPANY TERMS

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Test Approved By Jimmy Jones
Signature of Customer or his authorized representative

Western Representative Jim Wonda Thank You
2276

FIELD INVOICE

Open Hole Test \$ 450
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ _____

WESTERN TESTING CO., INC.
Pressure Data

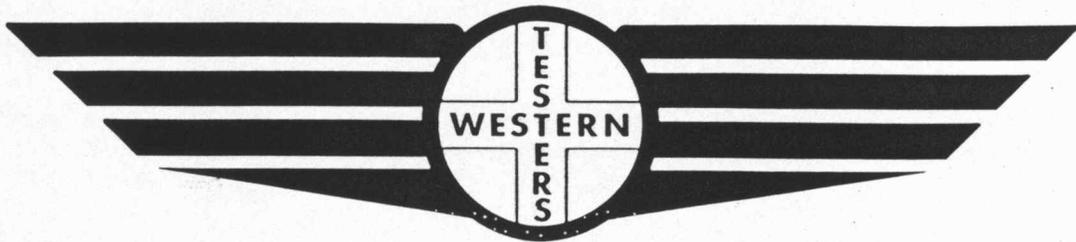
Date 2-9-87 Test Ticket No. 11721
 Recorder No. 3086 Capacity 4500 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1679</u>	P.S.I.	<u>12:55</u>	M
B First Initial Flow Pressure	<u>53</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>101</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
D Initial Closed-in Pressure	<u>761</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>203</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
F Second Final Flow Pressure	<u>213</u>	P.S.I.		
G Final Closed-in Pressure	<u>710</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1669</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
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 0	<u>53</u>	0	<u>101</u>	0	<u>203</u>	0	<u>213</u>
P 2 5	<u>53</u>	3	<u>559</u>	5		3	<u>520</u>
P 3 10	<u>57</u>	6	<u>609</u>	10		6	<u>560</u>
P 4 15	<u>64</u>	9	<u>637</u>	15	<u>203</u>	9	<u>584</u>
P 5 20	<u>76</u>	12	<u>655</u>	20	<u>205</u>	12	<u>603</u>
P 6 25	<u>91</u>	15	<u>673</u>	25	<u>208</u>	15	<u>615</u>
P 7 30	<u>101</u>	18	<u>685</u>	30	<u>213</u>	18	<u>629</u>
P 8 35		21	<u>696</u>	35		21	<u>638</u>
P 9 40		24	<u>706</u>	40		24	<u>645</u>
P10 45		27	<u>713</u>	45		27	<u>655</u>
P11 50		30	<u>722</u>	50		30	<u>662</u>
P12 55		33	<u>726</u>	55		33	<u>668</u>
P13 60		36	<u>731</u>	60		36	<u>676</u>
P14 65		39	<u>738</u>	65		39	<u>682</u>
P15 70		42	<u>743</u>	70		42	<u>689</u>
P16 75		45	<u>746</u>	75		45	<u>693</u>
P17 80		48	<u>749</u>	80		48	<u>696</u>
P18 85		51	<u>752</u>	85		51	<u>699</u>
P19 90		54	<u>755</u>	90		54	<u>702</u>
P20 95		57	<u>758</u>	95		57	<u>706</u>
100		60	<u>761</u>	100		60	<u>710</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JAY BOY OIL CO., INC.

LEASE & WELL NO. #1 NATTIER

SEC. 21 TWP. 22S RGE. 3W TEST NO. 5 DATE 2/9/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2-9-87
CUSTOMER : JAY BOY OIL CO. INC.
WELL : #1 TEST: 5
ELEVATION : -
SECTION : 21
RANGE : 3W COUNTY : HARVEY
GAUGE SN# : 3086 RANGE : 4500
TICKET : 11721
LEASE : NATTIER
GEOLOGIST : J. HONAS
FORMATION : HUNTON
TOWNSHIP : 22S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3549 TO : 3559 TOTAL DEPTH : 3559
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3544 SIZE : 6.63
PACKER DEPTH : 3549 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRILLING RIG #1
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.2 WATER LOSS (CC) : 9.4
CHLORIDES (PPM) : 1100
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3408 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 10 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : STRONG BLOW THROUGHOUT BOTH FLOW PERIODS.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 60 FT OF: MUD & WATER CUT OIL
20% WTR-70% OIL
RECOVERED : 390 FT OF: OILY SALT WATER

Total Barrels Fluid = 5.22
Total Fluid Prod Rate = 125.25 BFPD
Indicated Oil Rate = 22.27 BOPD
Indicated Wtr Rate = 101.04 BWPD
Corrected Oil Rate = 118.84 BOPD
Corrected Wtr Rate = 539.24 BWPD

REMARK 1 : TIGHT HOLE.
REMARK 2 : RECOVERED 390 FEET OF GAS ABOVE FLUID.
REMARK 3 : CHLORIDES: 57000 PPM
REMARK 4 :

SET PACKER(S) : 12:35 PM TIME STARTED OFF BOTTOM : 3:35 PM
WELL TEMPERATURE : 117
INITIAL HYDROSTATIC PRESSURE (A) 1679
INITIAL FLOW PERIOD MIN: 30 (B) 53 PSI TO (C) : 101
INITIAL CLOSED IN PERIOD MIN: 60 (D) 761
FINAL FLOW PERIOD MIN: 30 (E) 203 PSI TO (F) : 213
FINAL CLOSED IN PERIOD MIN: 60 (G) 710
FINAL HYDROSTATIC PRESSURE (H) 1669

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KANSAS
FIELD : NATTIER
WELL : #1
DATE : 2-9-87
GAUGE NO : 3086

OPERATIONAL COMMENTS

TIGHT HOLE.
RECOVERED 390 FEET OF GAS ABOVE FLUID.
CHLORIDES: 57000 PPM

COMPANY : JAY BOY OIL CO. INC.
 WELL : #1
 GAUGE # : 3086
 DATE : 9/ 2/87

FIELD : NATTIER
 JOB # : 11721
 DEPTH : 3559'
 TEST : TIGHT HOLE.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	12:35: 0	0.000	53.000	117.00	0.000
2	12:39:59	0.083	53.000	117.00	0.000
3	12:45: 0	0.167	57.000	117.00	4.000
4	12:50: 0	0.250	64.000	117.00	7.000
5	12:54:59	0.333	76.000	117.00	12.000
6	13: 0: 0	0.417	91.000	117.00	15.000
7	13: 5: 0	0.500	101.000	117.00	10.000
8	13: 8: 0	0.550	559.000	117.00	458.000
9	13:11: 0	0.600	609.000	117.00	50.000
10	13:14: 0	0.650	637.000	117.00	28.000
11	13:17: 0	0.700	655.000	117.00	18.000
12	13:20: 0	0.750	673.000	117.00	18.000
13	13:23: 0	0.800	685.000	117.00	12.000
14	13:26: 0	0.850	696.000	117.00	11.000
15	13:29: 0	0.900	706.000	117.00	10.000
16	13:32: 0	0.950	713.000	117.00	7.000
17	13:35: 0	1.000	722.000	117.00	9.000
18	13:38: 0	1.050	726.000	117.00	4.000
19	13:41: 0	1.100	731.000	117.00	5.000
20	13:44: 0	1.150	738.000	117.00	7.000
21	13:47: 0	1.200	743.000	117.00	5.000
22	13:50: 0	1.250	746.000	117.00	3.000
23	13:53: 0	1.300	749.000	117.00	3.000
24	13:56: 0	1.350	752.000	117.00	3.000
25	13:59: 0	1.400	755.000	117.00	3.000
26	14: 2: 0	1.450	758.000	117.00	3.000
27	14: 5: 0	1.500	761.000	117.00	3.000
28	14: 6: 0	1.517	203.000	117.00	-558.000
29	14: 9:59	1.583	203.000	117.00	0.000
30	14:15: 0	1.667	203.000	117.00	0.000
31	14:20: 0	1.750	203.000	117.00	0.000
32	14:24:59	1.833	205.000	117.00	2.000
33	14:30: 0	1.917	208.000	117.00	3.000
34	14:35: 0	2.000	213.000	117.00	5.000
35	14:38: 0	2.050	520.000	117.00	307.000
36	14:41: 0	2.100	560.000	117.00	40.000
37	14:44: 0	2.150	584.000	117.00	24.000
38	14:47: 0	2.200	603.000	117.00	19.000
39	14:50: 0	2.250	615.000	117.00	12.000
40	14:53: 0	2.300	629.000	117.00	14.000
41	14:56: 0	2.350	638.000	117.00	9.000
42	14:59: 0	2.400	645.000	117.00	7.000
43	15: 2: 0	2.450	655.000	117.00	10.000
44	15: 5: 0	2.500	662.000	117.00	7.000
45	15: 8: 0	2.550	668.000	117.00	6.000
46	15:11: 0	2.600	676.000	117.00	8.000
47	15:14: 0	2.650	682.000	117.00	6.000
48	15:17: 0	2.700	689.000	117.00	7.000
49	15:20: 0	2.750	693.000	117.00	4.000
50	15:23: 0	2.800	696.000	117.00	3.000
51	15:26: 0	2.850	699.000	117.00	3.000
52	15:29: 0	2.900	702.000	117.00	3.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 3086
DATE : 9/2/87

FIELD : NATTIER
JOB # : 11721
DEPTH : 3559
TEST : TIGHT HOLE.

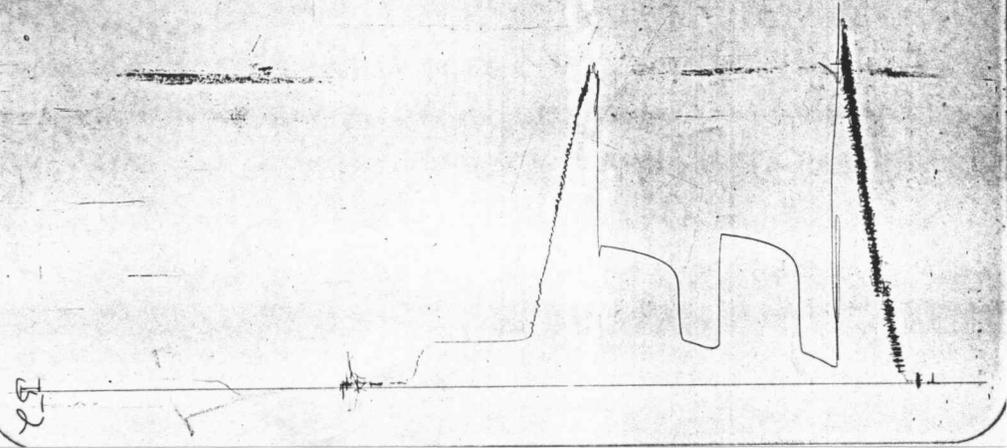
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	15:32:0	2.950	706.000	117.00	4.000
54	15:35:0	3.000	710.000	117.00	4.000

WESTERN TESTING CO. INC.

TKT 11721

9

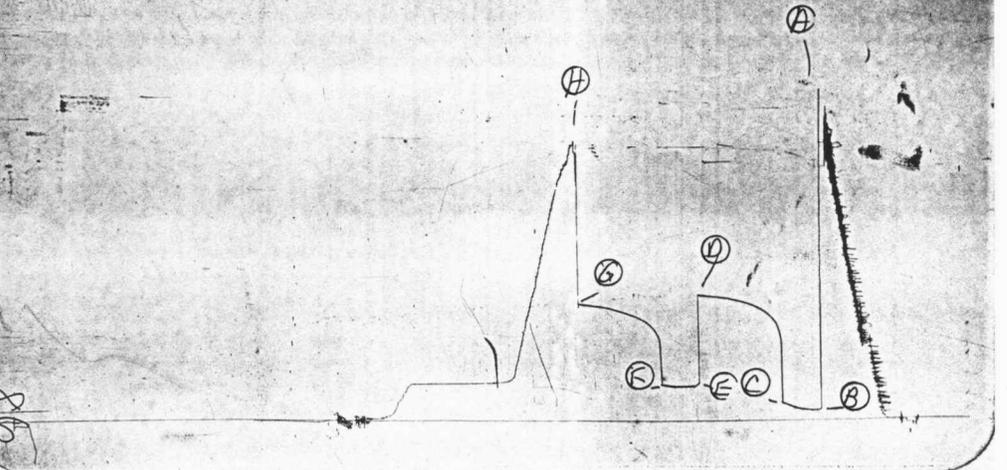
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TKT 11721

9

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 11722

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

Elevation _____ Formation Simpson Eff. Pay _____ Ft.

District Pratt Date 2/10/87 Customer Order No. _____

COMPANY NAME Jay Boy Oil, Co Inc.

ADDRESS _____

LEASE AND WELL NO. Nattier #1 COUNTY Harvey STATE Ks Sec. 21 Twp. 22 Rge. 3W

Mail Invoice To Same # / Nattier Co, Name Address No. Copies Requested 59

Mail Charts To Same Address No. Copies Requested 59

Formation Test No. 6 Interval Tested From 3673 ft. to 3699 ft. Total Depth 3699 ft.
Packer Depth 3668 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3673 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3689 ft. Recorder Number 3086 Cap. 4500
Bottom Recorder Depth (Outside) 3692 ft. Recorder Number 13552 Cap. 4050
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Allen Rig #4 Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 53 Weight Pipe Length - I. D. - in.
Weight 9.2 Water Loss 9.4 Drill Pipe Length 3532 I. D. 3.8 in.
Chlorides 1200 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 26 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 1/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow died in 15 min on first flow
No blow on second flow

Recovered 10 ft. of Drly Mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:

Time On Location _____ A.M. Time Pick Up Tool 9:30 A.M. Time Off Location _____ A.M.
P.M. P.M. P.M.
Time Set Packer(s) 10:50 A.M. Time Started Off Bottom 12:50 A.M. Maximum Temperature 118 P.M.
P.M. P.M.
Initial Hydrostatic Pressure (A) 1727 P.S.I.
Initial Flow Period (B) 30 Minutes (C) 35 P.S.I. to (D) 35 P.S.I.
Initial Closed In Period (D) 30 Minutes (E) 741 P.S.I.
Final Flow Period (E) 30 Minutes (F) 47 P.S.I. to (G) 47 P.S.I.
Final Closed In Period (G) 30 Minutes (H) 520 P.S.I.
Final Hydrostatic Pressure (H) 1704 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 Jerry Vonas Signature of Customer or his authorized representative

Western Representative Jim Wanda Thank You

FIELD INVOICE

Open Hole Test \$ 150
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

2326

WESTERN TESTING CO., INC.

Pressure Data

Date 2-10-87 Recorder No. 3086 Capacity 4500 Test Ticket No. 11722 Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature 118 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1736</u> P.S.I.	<u>10:50 A M</u>	
B First Initial Flow Pressure	<u>30</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>30</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>750</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>46</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>46</u> P.S.I.		
G Final Closed-in Pressure	<u>527</u> P.S.I.		
H Final Hydrostatic Mud	<u>1712</u> 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>0</u> <u>30</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>46</u>
P 2	<u>5</u>	<u>3</u>	<u>30</u>	<u>5</u>		<u>3</u>	<u>46</u>
P 3	<u>10</u>	<u>6</u>	<u>43</u>	<u>10</u>		<u>6</u>	<u>46</u>
P 4	<u>15</u>	<u>9</u>	<u>132</u>	<u>15</u>		<u>9</u>	<u>50</u>
P 5	<u>20</u>	<u>12</u>	<u>276</u>	<u>20</u>		<u>12</u>	<u>89</u>
P 6	<u>25</u>	<u>15</u>	<u>396</u>	<u>25</u>		<u>15</u>	<u>162</u>
P 7	<u>30</u> <u>30</u>	<u>18</u>	<u>509</u>	<u>30</u>	<u>46</u>	<u>18</u>	<u>250</u>
P 8	<u>35</u>	<u>21</u>	<u>596</u>	<u>35</u>		<u>21</u>	<u>332</u>
P 9	<u>40</u>	<u>24</u>	<u>674</u>	<u>40</u>		<u>24</u>	<u>405</u>
P10	<u>45</u>	<u>27</u>	<u>727</u>	<u>45</u>		<u>27</u>	<u>469</u>
P11	<u>50</u>	<u>30</u>	<u>750</u>	<u>50</u>		<u>30</u>	<u>527</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>65</u>	<u>39</u>		<u>65</u>		<u>39</u>	
P15	<u>70</u>	<u>42</u>		<u>70</u>		<u>42</u>	
P16	<u>75</u>	<u>45</u>		<u>75</u>		<u>45</u>	
P17	<u>80</u>	<u>48</u>		<u>80</u>		<u>48</u>	
P18	<u>85</u>	<u>51</u>		<u>85</u>		<u>51</u>	
P19	<u>90</u>	<u>54</u>		<u>90</u>		<u>54</u>	
P20	<u>95</u>	<u>57</u>		<u>95</u>		<u>57</u>	
	<u>100</u>	<u>60</u>		<u>100</u>		<u>60</u>	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

PANTY JAY BOY OIL CO., INC.

LEASE & WELL NO. #1 NATTIER

SEC. 21 TWP. 22S RGE. 3W

TEST NO.

6

DATE 2/10/87

RECOVERED : 10 FT OF: DRILLING MUD.

Total Barrels Fluid = 0.05
Total Fluid Prod Rate = 1.18 BFPD
Indicated Wtr Rate = 1.06 BWPD

REMARK 1 : TIGHT HOLE.
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	10:50 AM	TIME STARTED OFF BOTTOM :	12:50 PM
WELL TEMPERATURE :	118		
INITIAL HYDROSTATIC PRESSURE		(A)	1736
INITIAL FLOW PERIOD MIN:	30	(B)	30 PSI TO (C) : 30
INITIAL CLOSED IN PERIOD MIN:	30	(D)	750
FINAL FLOW PERIOD MIN:	30	(E)	46 PSI TO (F) : 46
FINAL CLOSED IN PERIOD MIN:	30	(G)	527
FINAL HYDROSTATIC PRESSURE		(H)	1712

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KANSAS
FIELD : NATTIER
WELL : #1
DATE : 2-10-87
GAUGE NO : 3086

OPERATIONAL COMMENTS

TIGHT HOLE.

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 3086
DATE : 10/ 2/87

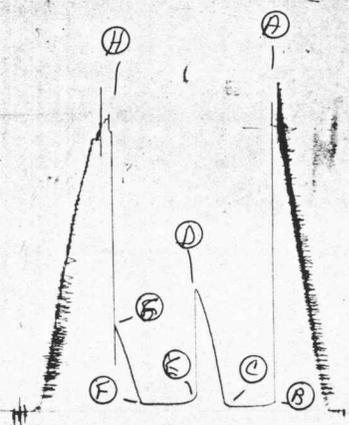
FIELD : NATTIER
JOB # : 11722
DEPTH : 3699.
TEST : TIGHT HOLE.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	10:50: 0	0.000	30.000	118.00	0.000
2	10:54:59	0.083	30.000	118.00	0.000
3	11: 0: 0	0.167	30.000	118.00	0.000
4	11: 5: 0	0.250	30.000	118.00	0.000
5	11: 9:59	0.333	30.000	118.00	0.000
6	11:15: 0	0.417	30.000	118.00	0.000
7	11:20: 0	0.500	30.000	118.00	0.000
8	11:23: 0	0.550	30.000	118.00	0.000
9	11:26: 0	0.600	43.000	118.00	13.000
10	11:29: 0	0.650	132.000	118.00	89.000
11	11:32: 0	0.700	276.000	118.00	144.000
12	11:35: 0	0.750	396.000	118.00	120.000
13	11:38: 0	0.800	509.000	118.00	113.000
14	11:41: 0	0.850	596.000	118.00	87.000
15	11:44: 0	0.900	674.000	118.00	78.000
16	11:47: 0	0.950	727.000	118.00	53.000
17	11:50: 0	1.000	750.000	118.00	23.000
18	11:51: 0	1.017	46.000	118.00	-704.000
19	11:54:59	1.083	46.000	118.00	0.000
20	12: 0: 0	1.167	46.000	118.00	0.000
21	12: 5: 0	1.250	46.000	118.00	0.000
22	12: 9:59	1.333	46.000	118.00	0.000
23	12:15: 0	1.417	46.000	118.00	0.000
24	12:20: 0	1.500	46.000	118.00	0.000
25	12:23: 0	1.550	46.000	118.00	0.000
26	12:26: 0	1.600	46.000	118.00	0.000
27	12:29: 0	1.650	50.000	118.00	4.000
28	12:32: 0	1.700	89.000	118.00	39.000
29	12:35: 0	1.750	162.000	118.00	73.000
30	12:38: 0	1.800	250.000	118.00	88.000
31	12:41: 0	1.850	332.000	118.00	82.000
32	12:44: 0	1.900	405.000	118.00	73.000
33	12:47: 0	1.950	469.000	118.00	64.000
34	12:50: 0	2.000	527.000	118.00	58.000

WESTERN TESTING CO. INC.

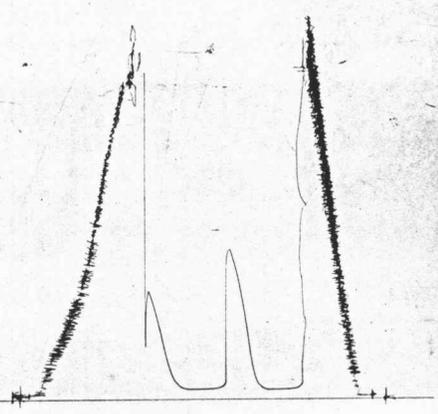
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 11723

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

Elevation 1432 K.B Formation Simpson Eff. Pay Ft.

District Pratt Date 2/12/87 Customer Order No.

COMPANY NAME Jay Boy Oil, Inc. J.B.

ADDRESS 8400 Killarney Wichita

LEASE AND WELL NO. Nattier #1 COUNTY Harvey STATE Ks Sec. 21 Twp. 22 Rge. 3

Mail Invoice To Same #1 Nattier Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 7 Interval Tested From 3680 ft. to 3715 ft. Total Depth 3820 ft.

Packer Depth 3675 ft. Size 6 5/8 in. Packer Depth 3715 ft. Size 6 5/8 in.
Packer Depth 3680 ft. Size 6 5/8 in. Packer Depth 3720 ft. Size 6 5/8 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3706 ft. Recorder Number 3086 Cap. 4500

Bottom Recorder Depth (Outside) 3709 ft. Recorder Number 13552 Cap. 4050

Below Straddle Recorder Depth 3820 ft. Recorder Number Cap.

Drilling Contractor Allen Rig #4 Drill Collar Length 120 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 43 Weight Pipe Length 3544 I. D. 3.8 in.

Weight 9.2 Water Loss 9.4 cc. Drill Pipe Length 21 ft. Tool Size 5 1/2 in.

Chlorides 1050 P.P.M. Test Tool Length 35 (100 TIP) ft. Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 3 1/4 in. Bottom Choke Size 3/4 in.

Did Well Flow? No Reversed Out No Surface Choke Size 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak increased to strong blow on first & second flow periods

Recovered 130 ft. of Hvy Oil Cut Watery Mud (35% oil) (10% wtr)

Recovered 130 ft. of Muddy Water (Scum of oil)

Recovered 240 ft. of Salt Water

Recovered ft. of Chlorides 17,000 P.P.M. Sample Jars used Remarks:

Time On Location 9:30 A.M. P.M. Time Pick Up Tool 10:30 A.M. P.M. Time Off Location 6:00 A.M. P.M.

Time Set Packer(s) 11:45 A.M. P.M. Time Started Off Bottom 2:45 A.M. P.M. Maximum Temperature 118°

Initial Hydrostatic Pressure (A) 1785 P.S.I.

Initial Flow Period Minutes 30 (B) 59 P.S.I. to (C) 82 P.S.I.

Initial Closed In Period Minutes 60 (D) 96.2 P.S.I.

Final Flow Period Minutes 30 (E) 201 P.S.I. to (F) 236 P.S.I.

Final Closed In Period Minutes 60 (G) 96.2 P.S.I.

Final Hydrostatic Pressure (H) 1762 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 Jerry Honas Signature of Customer or his authorized representative
Western Representative Jim Woods Thank You

FIELD INVOICE

Open Hole Test \$ 450
Misrun \$
Straddle Test \$ 150
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packers \$ 45.50
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$ 20
Insurance \$
Telecopier \$
TOTAL \$

2376

WESTERN TESTING CO., INC.

Pressure Data

Date 2-12-87 Recorder No. 2086 Capacity 4500 Location _____ Ft. _____
 Test Ticket No. 11723
 Clock No. _____ Elevation _____ Well Temperature 118 °F

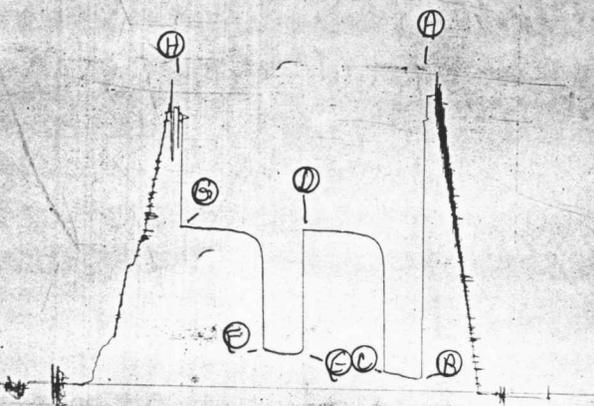
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1808</u> P.S.I.	<u>11:45</u> M	
B First Initial Flow Pressure	<u>83</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>128</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>980</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>220</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>250</u> P.S.I.		
G Final Closed-in Pressure	<u>986</u> P.S.I.		
H Final Hydrostatic Mud	<u>1729</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
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 0	<u>83</u>	0	<u>128</u>	0	<u>220</u>	0	<u>230</u>
P 2 5	<u>85</u>	3	<u>538</u>	5	<u>1</u>	3	<u>736</u>
P 3 10	<u>92</u>	6	<u>835</u>	10	<u>220</u>	6	<u>883</u>
P 4 15	<u>104</u>	9	<u>904</u>	15	<u>222</u>	9	<u>918</u>
P 5 20	<u>113</u>	12	<u>929</u>	20	<u>229</u>	12	<u>935</u>
P 6 25	<u>120</u>	15	<u>942</u>	25	<u>239</u>	15	<u>945</u>
P 7 30	<u>128</u>	18	<u>951</u>	30	<u>250</u>	18	<u>955</u>
P 8 35		21	<u>957</u>	35		21	<u>959</u>
P 9 40		24	<u>962</u>	40		24	<u>963</u>
P10 45		27	<u>966</u>	45		27	<u>967</u>
P11 50		30	<u>971</u>	50		30	<u>971</u>
P12 55		33	<u>974</u>	55		33	<u>974</u>
P13 60		36	<u>976</u>	60		36	<u>976</u>
P14 65		39	<u>977</u>	65		39	<u>978</u>
P15 70		42	<u>978</u>	70		42	<u>979</u>
P16 75		45	<u>979</u>	75		45	<u>980</u>
P17 80		48		80		48	<u>981</u>
P18 85		51		85		51	<u>982</u>
P19 90		54		90		54	<u>983</u>
P20 95		57		95		57	<u>984</u>
100		60	<u>979</u>	100		60	<u>985</u>
		<u>63</u>	<u>980</u>			<u>63</u>	<u>986</u>

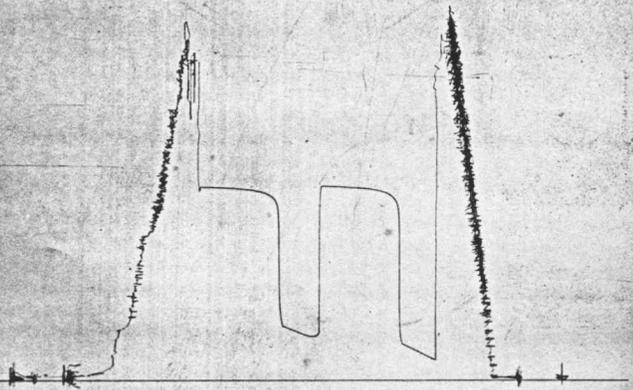
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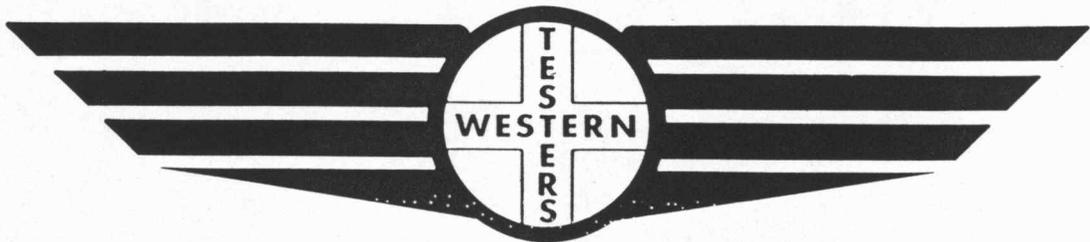


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JAY BOY OIL COMPANY, INC.

LEASE & WELL NO.

#1 NATTIER

SEC. 21 TWP. 22S RGE. 3W

TEST NO. 7

DATE 2/12/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2-12-87
CUSTOMER : JAY BOY OIL CO. INC.
WELL : #1 TEST: 7
ELEVATION : 1432 KB
SECTION : 21
RANGE : 3W COUNTY : HARVEY
GAUGE SN# : 3086 RANGE : 4500
TICKET : 11723
LEASE : NATTIER
GEOLOGIST : J. HONAS
FORMATION : SIMPSON
TOWNSHIP : 22S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3680 TO : 3715 TOTAL DEPTH : 3820
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3675 SIZE : 6.63
PACKER DEPTH : 3680 SIZE : 6.63
PACKER DEPTH : 3715 SIZE : 6.63
PACKER DEPTH : 3720 SIZE : 6.63

DRILLING CON. : ALLEN DRILLING RIG #4
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.2 WATER LOSS (CC) : 9.4
CHLORIDES (PPM) : 1050
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3544 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 135 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : WEAK BLOW INCREASED TO A STRONG BLOW.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 130 FT OF: HEAVY OIL CUT WATERY MUD
35% OIL-10% WTR
RECOVERED : 120 FT OF: MUDDY WATER (SCUM OF OIL)
RECOVERED : 240 FT OF: SALT WATER

Total Barrels Fluid = 5.78
Total Fluid Prod Rate = 138.72 BFPD
Indicated Oil Rate = 13.31 BOPD
Indicated Wtr Rate = 122.30 BWPD

REMARK 1 : TIGHT HOLE.
REMARK 2 : ANCHOR INCLUDES 100 FEET OF TAIL PIPE.
REMARK 3 : CHLORIDES: 17000 PPM
REMARK 4 :

SET PACKER(S) : 11:45 PM TIME STARTED OFF BOTTOM : 2:45 AM
WELL TEMPERATURE : 118
INITIAL HYDROSTATIC PRESSURE (A) 1808
INITIAL FLOW PERIOD MIN: 30 (B) 83 PSI TO (C) : 128
INITIAL CLOSED IN PERIOD MIN: 66 (D) 980
FINAL FLOW PERIOD MIN: 30 (E) 220 PSI TO (F) : 250
FINAL CLOSED IN PERIOD MIN: 63 (G) 986
FINAL HYDROSTATIC PRESSURE (H) 1729

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KANSAS
FIELD : NATTIER
WELL : #1
DATE : 2-12-87
GAUGE NO : 3086

OPERATIONAL COMMENTS

TIGHT HOLE.
ANCHOR INCLUDES 100 FEET OF TAIL PIPE.
CHLORIDES: 17000 PPM

COMPANY : JAY BOY OIL CO. INC.
 WELL : #1
 GAUGE # : 3086
 DATE : 12/ 2/87

FIELD : NATTIER
 JOB # : 11723
 DEPTH : 3820
 TEST : TIGHT HOLE.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	11:45: 0	0.000	83.000	118.00	0.000
2	11:49:59	0.083	85.000	118.00	2.000
3	11:55: 0	0.167	92.000	118.00	7.000
4	12: 0: 0	0.250	104.000	118.00	12.000
5	12: 4:59	0.333	113.000	118.00	9.000
6	12:10: 0	0.417	120.000	118.00	7.000
7	12:15: 0	0.500	128.000	118.00	8.000
8	12:18: 0	0.550	538.000	118.00	410.000
9	12:21: 0	0.600	835.000	118.00	297.000
10	12:24: 0	0.650	904.000	118.00	69.000
11	12:27: 0	0.700	929.000	118.00	25.000
12	12:30: 0	0.750	942.000	118.00	13.000
13	12:33: 0	0.800	951.000	118.00	9.000
14	12:36: 0	0.850	957.000	118.00	6.000
15	12:39: 0	0.900	962.000	118.00	5.000
16	12:42: 0	0.950	966.000	118.00	4.000
17	12:45: 0	1.000	971.000	118.00	5.000
18	12:48: 0	1.050	974.000	118.00	3.000
19	12:51: 0	1.100	976.000	118.00	2.000
20	12:54: 0	1.150	977.000	118.00	1.000
21	12:57: 0	1.200	978.000	118.00	1.000
22	13: 0: 0	1.250	979.000	118.00	1.000
23	13: 3: 0	1.300	979.000	118.00	0.000
24	13: 6: 0	1.350	979.000	118.00	0.000
25	13: 9: 0	1.400	979.000	118.00	0.000
26	13:12: 0	1.450	979.000	118.00	0.000
27	13:15: 0	1.500	979.000	118.00	0.000
28	13:18: 0	1.550	980.000	118.00	1.000
29	13:21: 0	1.600	980.000	118.00	0.000
30	13:22: 0	1.617	220.000	118.00	-760.000
31	13:25:59	1.683	220.000	118.00	0.000
32	13:31: 0	1.767	220.000	118.00	0.000
33	13:36: 0	1.850	222.000	118.00	2.000
34	13:40:59	1.933	229.000	118.00	7.000
35	13:46: 0	2.017	239.000	118.00	10.000
36	13:51: 0	2.100	250.000	118.00	11.000
37	13:53:59	2.150	736.000	118.00	486.000
38	13:56:59	2.200	883.000	118.00	147.000
39	14: 0: 0	2.250	918.000	118.00	35.000
40	14: 3: 0	2.300	935.000	118.00	17.000
41	14: 6: 0	2.350	945.000	118.00	10.000
42	14: 8:59	2.400	955.000	118.00	10.000
43	14:11:59	2.450	959.000	118.00	4.000
44	14:15: 0	2.500	963.000	118.00	4.000
45	14:18: 0	2.550	967.000	118.00	4.000
46	14:21: 0	2.600	971.000	118.00	4.000
47	14:23:59	2.650	974.000	118.00	3.000
48	14:26:59	2.700	876.000	118.00	-98.000
49	14:30: 0	2.750	978.000	118.00	102.000
50	14:33: 0	2.800	979.000	118.00	1.000
51	14:36: 0	2.850	980.000	118.00	1.000
52	14:38:59	2.900	981.000	118.00	1.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 3086
DATE : 12/ 2/87

FIELD : NATTIER
JOB # : 11723
DEPTH : 3820
TEST : TIGHT HOLE.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	14:41:59	2.950	982.000	118.00	1.000
54	14:45: 0	3.000	983.000	118.00	1.000
55	14:48: 0	3.050	984.000	118.00	1.000
56	14:51: 0	3.100	985.000	118.00	1.000
57	14:53:59	3.150	986.000	118.00	1.000

WESTERN TESTING CO. INC.