



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 9080

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

Elevation 1414 Formation Cherokee Snd. Eff. Pay Ft.

District Pratt Date 12-30-80 Customer Order No.

COMPANY NAME Ram. Pet. Corp.

ADDRESS 800 K. S. B + T Bld Wichita KS 8 35 12W

LEASE AND WELL NO. Olson #4 COUNTY Barber STATE KS Sec. 8 Twp. 35S Rge. 12W

Mail Invoice To Same Co. Name Address No. Copies Requested 355 Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested from 4745 ft. to 4765 ft. Total Depth 4765 ft.

Packer Depth 4740 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4745 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4748 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4762 ft. Recorder Number 1565 Cap. 4900

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Freeman #1 Drill Collar Length I. D. in.

Mud Type Drispec Viscosity 85 Weight Pipe Length I. D. in.

Weight 8.9 Water Loss 6.2 cc. Drill Pipe Length 4725 I. D. 3.8 in.

Chlorides 11,500 P.P.M. Test Tool Length 20 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Fair thru IF - Fair Bulding to Strong - FF

Recovered 150 ft. of Gas Cut Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 5' to Bottom

Time On Location 7:00 A.M. Time Pick Up Tool 10:00 A.M. Time Off Location 10:00 A.M.

Time Set Packer(s) 1:43 A.M. Time Started Off Bottom 6:13 A.M. Maximum Temperature 128

Initial Hydrostatic Pressure (A) 2122 P.S.I.

Initial Flow Period Minutes 30 (B) 68 P.S.I. to (C) 68 P.S.I.

Initial Closed In Period Minutes 30 (D) 491 P.S.I.

Final Flow Period Minutes 120 (E) 68 P.S.I. to (F) 81 P.S.I.

Final Closed In Period Minutes 90 (G) 286 P.S.I.

Final Hydrostatic Pressure (H) 2122 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 Doug M. S. Signature of Customer or his authorized representative

Western Representative Jeff Piotrowski

Thank you

FIELD INVOICE

Open Hole Test \$ 4600.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 55 \$ 41.25
Fluid Sampler \$
Extra Charts \$
Insurance \$
TOTAL \$ 641.25

WESTERN TESTING CO., INC.

Pressure Data

Date 12-30 Recorder No. 5673 Capacity 5400 Test Ticket No. 9080
 Clock No. Elevation 1414 Location 4748 Ft.
 Well Temperature 128 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2254</u> P.S.I.		<u>1:43</u> A	
B First Initial Flow Pressure	<u>85</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>68</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>514</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>115</u> Mins.
E Second Initial Flow Pressure	<u>93</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>98</u> P.S.I.			
G Final Closed-in Pressure	<u>303</u> P.S.I.			
H Final Hydrostatic Mud	<u>2254</u> P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 23 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	85	0	68	0	93	0	98
P 2 5	68	3	194	5	79	3	205
P 3 10	68	6	240	10	77	6	243
P 4 15	(	9	284	15	87	9	265
P 5 20	)	12	361	20	86	12	279
P 6 25	68	15	421	25	86	15	287
P 7 30		18	462	30	86	18	289
P 8 35		21	486	35	89	21	291
P 9 40		24	497	40	89	24	293
P10 45		27	508	45	90	27	294
P11 50		30	511	50	92	30	295
P12 55		33	514	55	94	33	295
P13 60		36		60	96	36	296
P14		39		65	97	39	296
P15		42		70	97	42	297
P16		45		75	98	45	298
P17		48		80	(	48	299
P18		51		85	)	51	300
P19		54		90	98	54	301
P20		57		95	98	57	302
		60		100	98	60	303

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 9080

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

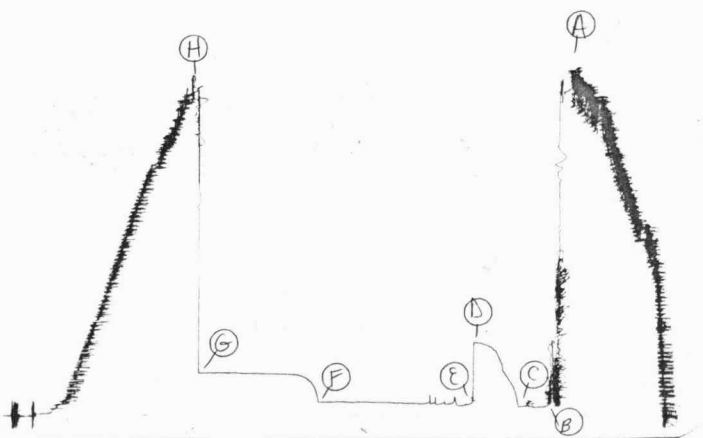
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final 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		63		<u>105</u>	<u>98</u>	63	<u>303</u>
P 2		66		<u>110</u>	<u>98</u>	66	
P 3		69		<u>115</u>	<u>98</u>	69	
P 4		72		<u>120</u>		72	
P 5		75				75	
P 6		78				78	
P 7		81				81	
P 8		84				84	
P 9		87				87	<u>303</u>
P10		90				90	
P11		93				93	
P12		96				96	
P13		99				99	
P14		102				102	
P15		105				105	
P16		108				108	
P17		111				111	
P18		114				114	
P19		117				117	
P20		120				120	

9673

TKT # 9080

I

D51 #1



Company Ram Petroleum Corporation Lease & Well No. Olson #4
 Elevation 1414 Formation Cherokee Sand Effective Pay - Ft. Ticket No. 9080
 Date 12-30-80 Sec. 8 Twp. 35S Range 12W County Barber State Kansas
 Test Approved by Doug McGinness Western Representative Jeff Piotrowski
 Formation Test No. 1 Interval Tested from 4745 ft. to 4765 ft. Total Depth 4765 ft.
 Packer Depth 4740 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4745 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4748 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 4762 ft. Recorder Number 1565 Cap. 4900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Freeman Rig #1 Drill Collar Length - I. D. - in.
 Mud Type Drispac Viscosity 85 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 6.2 cc. Drill Pipe Length 4725 I. D. 3.8 in.
 Chlorides 11,500 P.P.M. Test Tool Length 20 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Fair throughout initial flow period. Fair building to strong final flow period.

Recovered 150 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 5' to bottom

Time Set Packer(s) 1:43 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:13 ~~P.M.~~ ^{A.M.} Maximum Temperature 128
 Initial Hydrostatic Pressure (A) 2254 P.S.I.
 Initial Flow Period Minutes 25 (B) 85 P.S.I. to (C) 68 P.S.I.
 Initial Closed In Period Minutes 33 (D) 514 P.S.I.
 Final Flow Period Minutes 115 (E) 93 P.S.I. to (F) 98 P.S.I.
 Final Closed In Period Minutes 87 (G) 303 P.S.I.
 Final Hydrostatic Pressure (H) 2254 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12-30-80 Test Ticket No. 9080
 Recorder No. 5673 Capacity 5400 Location 4748 Ft.
 Clock No. ----- Elevation 1414 Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2254</u> P.S.I.	Open Tool	<u>1:43 A M</u>	
B First Initial Flow Pressure	<u>85</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>68</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>514</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>115</u> Mins.
E Second Initial Flow Pressure	<u>93</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>98</u> P.S.I.			
G Final Closed-in Pressure	<u>303</u> P.S.I.			
H Final Hydrostatic Mud	<u>2254</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>23</u> Inc.		Breakdown: <u>29</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>85</u>	<u>0</u>	<u>68</u>	<u>0</u>	<u>93</u>	<u>0</u>	<u>98</u>
P 2 <u>5</u>	<u>68</u>	<u>3</u>	<u>194</u>	<u>5</u>	<u>79</u>	<u>3</u>	<u>205</u>
P 3 <u>10</u>	<u>68</u>	<u>6</u>	<u>240</u>	<u>10</u>	<u>77</u>	<u>6</u>	<u>243</u>
P 4 <u>15</u>	<u>68</u>	<u>9</u>	<u>284</u>	<u>15</u>	<u>87</u>	<u>9</u>	<u>265</u>
P 5 <u>20</u>	<u>68</u>	<u>12</u>	<u>361</u>	<u>20</u>	<u>86</u>	<u>12</u>	<u>279</u>
P 6 <u>25</u>	<u>68</u>	<u>15</u>	<u>421</u>	<u>25</u>	<u>86</u>	<u>15</u>	<u>287</u>
P 7 <u> </u>	<u> </u>	<u>18</u>	<u>462</u>	<u>30</u>	<u>86</u>	<u>18</u>	<u>289</u>
P 8 <u> </u>	<u> </u>	<u>21</u>	<u>486</u>	<u>35</u>	<u>89</u>	<u>21</u>	<u>291</u>
P 9 <u> </u>	<u> </u>	<u>24</u>	<u>497</u>	<u>40</u>	<u>89</u>	<u>24</u>	<u>293</u>
P10 <u> </u>	<u> </u>	<u>27</u>	<u>508</u>	<u>45</u>	<u>90</u>	<u>27</u>	<u>294</u>
P11 <u> </u>	<u> </u>	<u>30</u>	<u>511</u>	<u>50</u>	<u>92</u>	<u>30</u>	<u>295</u>
P12 <u> </u>	<u> </u>	<u>33</u>	<u>514</u>	<u>55</u>	<u>94</u>	<u>33</u>	<u>295</u>
P13 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>60</u>	<u>96</u>	<u>36</u>	<u>296</u>
P14 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>65</u>	<u>97</u>	<u>39</u>	<u>296</u>
P15 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>70</u>	<u>97</u>	<u>42</u>	<u>297</u>
P16 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>75</u>	<u>98</u>	<u>45</u>	<u>298</u>
P17 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>80</u>	<u>98</u>	<u>48</u>	<u>299</u>
P18 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>85</u>	<u>98</u>	<u>51</u>	<u>300</u>
P19 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>90</u>	<u>98</u>	<u>54</u>	<u>301</u>
P20 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>95</u>	<u>98</u>	<u>57</u>	<u>302</u>
				<u>100</u>	<u>98</u>	<u>60</u>	<u>303</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 12-30-80 Test Ticket No. 9080
 Recorder No. 5673 Capacity 5400 Location 4748 Ft.
 Clock No. ----- Elevation 1414 Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2254</u>	P.S.I.	<u>1:43 A M</u>	
B First Initial Flow Pressure	<u>85</u>	P.S.I.	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>68</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>514</u>	P.S.I.	<u>120</u> Mins.	<u>115</u> Mins.
E Second Initial Flow Pressure	<u>93</u>	P.S.I.	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>98</u>	P.S.I.		
G Final Closed-in Pressure	<u>303</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2254</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>23</u> Inc.		Breakdown: <u>29</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				<u>105</u>	<u>98</u>	<u>63</u>	<u>303</u>
P 2				<u>110</u>	<u>98</u>	<u>66</u>	<u>303</u>
P 3				<u>115</u>	<u>98</u>	<u>69</u>	<u>303</u>
P 4						<u>72</u>	<u>303</u>
P 5						<u>75</u>	<u>303</u>
P 6						<u>78</u>	<u>303</u>
P 7						<u>81</u>	<u>303</u>
P 8						<u>84</u>	<u>303</u>
P 9						<u>87</u>	<u>303</u>
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No.

9081

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation

1414

Formation

Miss

Eff. Pay

Ft.

COMPANY NAME

RAM. Pet. Corp.

ADDRESS

800 K.S.B. & T Bld Wichita KS

LEASE AND WELL NO.

Olson #4

COUNTY

Barber

STATE

KS

Sec.

8

Twp

35

Rge

12

Mail Invoice To

Same

No. Copies Requested

Reg

Mail Charts To

Same

No. Copies Requested

Reg

Formation Test No.

2

Interval Tested from

4761

ft. to

4830

ft.

Total Depth

4830

ft.

Packer Depth

4756

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Packer Depth

4761

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

4764

ft.

Recorder Number

5673

Cap.

5400

Bottom Recorder Depth (Outside)

4827

ft.

Recorder Number

1565

Cap.

4900

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Freeman #1

Drill Collar Length

I. D.

in.

Mud Type

Dispac

Viscosity

85

Weight Pipe Length

I. D.

in.

Weight

8.9

Water Loss

6.2

cc.

Drill Pipe Length

4772

I. D.

3.8

in.

Chlorides

11,500

P.P.M.

Test Tool Length

20

ft.

Tool Size

5 1/2 OD

in.

Jars: Make

Serial Number

Anchor Length

27.31 - 38

ft.

Size

5 1/2 OD in.

Did Well Flow?

NO

Reversed Out

Surface Choke Size

3/4

in.

Bottom Choke Size

3/4

in.

Main Hole Size

7 7/8

in.

Tool Joint Size

4 1/2 FH in.

Blow: Strong thru Both flow periods.

Recovered

280

ft. of

Oil Spected Mud

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Remarks:

Time On Location

6:30

A.M.

Time Pick Up Tool

7:30

A.M.

Time Off Location

6:30

A.M.

Time Set Packer(s)

10:15

A.M.

Time Started Off Bottom

2:45

A.M.

Maximum Temperature

130

Initial Hydrostatic Pressure

(A)

2258

P.S.I.

Initial Flow Period

Minutes

30

(B)

40

P.S.I. to (C)

68

P.S.I.

Initial Closed In Period

Minutes

30

(D)

1891

P.S.I.

Final Flow Period

Minutes

120

(E)

81

P.S.I. to (F)

150

P.S.I.

Final Closed In Period

Minutes

90

(G)

1891

P.S.I.

Final Hydrostatic Pressure

(H)

2258

P.S.I.

COMPANY TERMS

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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

\$

1600.00

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

55

\$

Fluid Sampler

\$

Extra Charts

\$

Insurance

\$

TOTAL

\$

691.25

WESTERN TESTING CO., INC.

Pressure Data

Date 12-30 Recorder No. 5673 Capacity 5400 Test Ticket No. 9081 Location 4764 Ft.
Clock No. _____ Elevation 1414 Well Temperature 130 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2259</u> P.S.I.	<u>10:15</u> P	<u>M</u>
B First Initial Flow Pressure	<u>49</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>66</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1897</u> P.S.I.	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>96</u> P.S.I.	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>161</u> P.S.I.		
G Final Closed-in Pressure	<u>1852</u> * P.S.I.		
H Final Hydrostatic Mud	<u>2251</u> P.S.I.		

* Pressures questionable due to shut-in tool leak

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>24</u> Inc.		Breakdown: <u>29</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> <u>49</u>	<u>0</u> <u>66</u>	<u>0</u> <u>96</u>	<u>0</u> <u>161</u>			
P 2	<u>5</u> <u>44</u>	<u>3</u> <u>765</u>	<u>5</u> <u>87</u>	<u>3</u> <u>333</u>			
P 3	<u>10</u> <u>44</u>	<u>6</u> <u>1554</u>	<u>10</u> <u>87</u>	<u>6</u> <u>1268</u>			
P 4	<u>15</u> <u>48</u>	<u>9</u> <u>1800</u>	<u>15</u> <u>87</u>	<u>9</u> <u>1565</u>			
P 5	<u>20</u> <u>57</u>	<u>12</u> <u>1859</u>	<u>20</u> <u>93</u>	<u>12</u> <u>1616</u> *			
P 6	<u>25</u> <u>63</u>	<u>15</u> <u>1886</u> *	<u>25</u> <u>96</u>	<u>15</u> <u>1508</u> *			
P 7	<u>30</u> <u>66</u>	<u>18</u> <u>1903</u> *	<u>30</u> <u>98</u>	<u>18</u> <u>1692</u> *			
P 8	<u>35</u>	<u>21</u> <u>1897</u> *	<u>35</u> <u>101</u>	<u>21</u> <u>1681</u> *			
P 9	<u>40</u>	<u>24</u> <u>1889</u> *	<u>40</u> <u>104</u>	<u>24</u> <u>1627</u> *			
P10	<u>45</u>	<u>27</u> <u>1889</u> *	<u>45</u> <u>112</u>	<u>27</u> <u>1627</u> *			
P11	<u>50</u>	<u>30</u> <u>1897</u> *	<u>50</u> <u>114</u>	<u>30</u> <u>1614</u> *			
P12	<u>55</u>	<u>33</u>	<u>55</u> <u>119</u>	<u>33</u> <u>1603</u> *			
P13	<u>60</u>	<u>36</u>	<u>60</u> <u>120</u>	<u>36</u> <u>1589</u> *			
P14		<u>39</u>	<u>65</u> <u>125</u>	<u>39</u> <u>1714</u> *			
P15		<u>42</u>	<u>70</u> <u>127</u>	<u>42</u> <u>1724</u> *			
P16		<u>45</u>	<u>75</u> <u>131</u>	<u>45</u> <u>1705</u> *			
P17		<u>48</u>	<u>80</u> <u>137</u>	<u>48</u> <u>1676</u> *			
P18		<u>51</u>	<u>85</u> <u>142</u>	<u>51</u> <u>1673</u> *			
P19		<u>54</u>	<u>90</u> <u>147</u>	<u>54</u> <u>1622</u> *			
P20		<u>57</u>	<u>95</u> <u>150</u>	<u>57</u> <u>1559</u> *			
		<u>60</u>	<u>100</u> <u>153</u>	<u>60</u> <u>1519</u> *			

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 9081

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

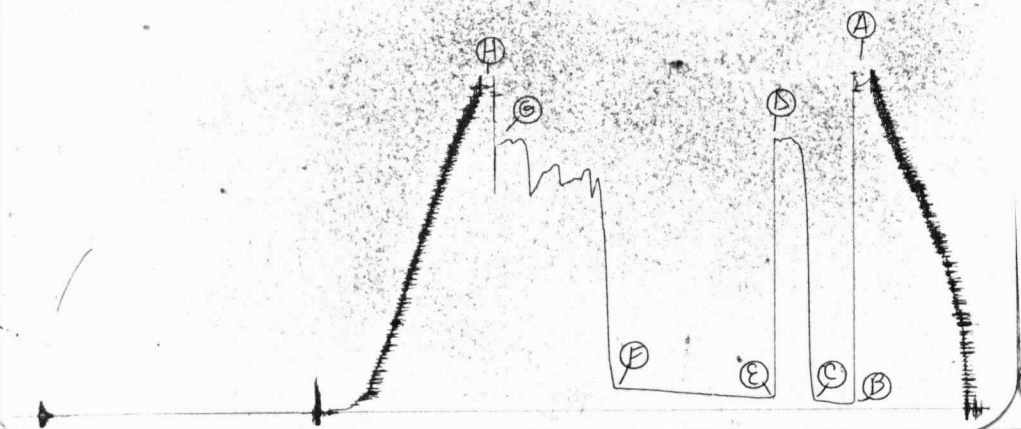
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____	
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins. _____	Mins. _____
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____	Mins. _____
D Initial 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.		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 _____	_____	63 _____	_____	<u>105</u> _____	<u>155</u> _____	63 _____	<u>1854</u> *
P 2 _____	_____	66 _____	_____	<u>110</u> _____	<u>157</u> _____	66 _____	<u>1903</u> *
P 3 _____	_____	69 _____	_____	<u>115</u> _____	<u>160</u> _____	69 _____	<u>1903</u> *
P 4 _____	_____	72 _____	_____	<u>120</u> _____	<u>161</u> _____	72 _____	<u>1884</u> *
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	<u>1903</u> *
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	<u>1900</u> *
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	<u>1878</u> *
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	<u>1862</u> *
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	<u>1852</u> *
P10 _____	_____	90 _____	_____	_____	_____	90 _____	_____
P11 _____	_____	93 _____	_____	_____	_____	93 _____	_____
P12 _____	_____	96 _____	_____	_____	_____	96 _____	_____
P13 _____	_____	99 _____	_____	_____	_____	99 _____	_____
P14 _____	_____	102 _____	_____	_____	_____	102 _____	_____
P15 _____	_____	105 _____	_____	_____	_____	105 _____	_____
P16 _____	_____	108 _____	_____	_____	_____	108 _____	_____
P17 _____	_____	111 _____	_____	_____	_____	111 _____	_____
P18 _____	_____	114 _____	_____	_____	_____	114 _____	_____
P19 _____	_____	<u>117</u> _____	_____	_____	_____	<u>117</u> _____	_____
P20 _____	_____	120 _____	_____	_____	_____	120 _____	_____

5673
DST 42

TKT #9081
I



Company Ram Petroleum Corporation Lease & Well No. Olson #4
 Elevation 1414 Formation Mississippi Effective Pay - Ft. Ticket No. 9081
 Date 12-30-80 Sec. 8 Twp. 35S Range 12W County Barber State Kansas
 Test Approved by Doug McGinness Western Representative Jeff Piotrowski
 Formation Test No. 2 Interval Tested from 4761 ft. to 4830 ft. Total Depth 4830 ft.
 Packer Depth 4756 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4761 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4764 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 4827 ft. Recorder Number 1565 Cap. 4900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Freeman Rig #1 Drill Collar Length - I. D. - in.
 Mud Type Drispac Viscosity 85 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 6.2 cc. Drill Pipe Length 4772 I. D. 3.8 in.
 Chlorides 11,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length DP31-38 ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong throughout test.

Recovered 280 ft. of oil specked mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:15 ~~A.M.~~ P.M. Time Started Off Bottom 2:45 ~~A.M.~~ P.M. Maximum Temperature 130
 Initial Hydrostatic Pressure (A) 2259 P.S.I.
 Initial Flow Period Minutes 30 (B) 49 P.S.I. to (C) 66 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1897 P.S.I.
 Final Flow Period Minutes 120 (E) 96 P.S.I. to (F) 161 P.S.I.
 Final Closed In Period Minutes 87 (G) 1852 * P.S.I.
 Final Hydrostatic Pressure (H) 2251 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12-30-80

Test Ticket No. 9081

Recorder No. 5673 Capacity 5400 Location 4764 Ft.

Clock No. ----- Elevation 1414 Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2259</u> P.S.I.	Open Tool	<u>10:15</u> <u>RM</u>	
B First Initial Flow Pressure	<u>49</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>66</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1897</u> P.S.I.	Second Flow Pressure	<u>120</u> Mins.	<u>120</u> Mins.
E Second Initial Flow Pressure	<u>96</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>87</u> Mins.
F Second Final Flow Pressure	<u>161</u> P.S.I.			
G Final Closed-in Pressure	<u>1852 *</u> P.S.I.			
H Final Hydrostatic Mud	<u>2251</u> P.S.I.			

* Pressures questionable due to shut-in tool leak.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>24</u> Inc.		Breakdown: <u>29</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>49</u>	<u>0</u>	<u>66</u>	<u>0</u>	<u>96</u>	<u>0</u>	<u>161</u>
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>765</u>	<u>5</u>	<u>87</u>	<u>3</u>	<u>333</u>
P 3 <u>10</u>	<u>44</u>	<u>6</u>	<u>1554</u>	<u>10</u>	<u>87</u>	<u>6</u>	<u>1268</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>1800</u>	<u>15</u>	<u>87</u>	<u>9</u>	<u>1565</u>
P 5 <u>20</u>	<u>57</u>	<u>12</u>	<u>1859</u>	<u>20</u>	<u>93</u>	<u>12</u>	<u>1616 *</u>
P 6 <u>25</u>	<u>63</u>	<u>15</u>	<u>1886 *</u>	<u>25</u>	<u>96</u>	<u>15</u>	<u>1508 *</u>
P 7 <u>30</u>	<u>66</u>	<u>18</u>	<u>1903 *</u>	<u>30</u>	<u>98</u>	<u>18</u>	<u>1692 *</u>
P 8		<u>21</u>	<u>1897 *</u>	<u>35</u>	<u>101</u>	<u>21</u>	<u>1681 *</u>
P 9		<u>24</u>	<u>1889 *</u>	<u>40</u>	<u>104</u>	<u>24</u>	<u>1627 *</u>
P10		<u>27</u>	<u>1889 *</u>	<u>45</u>	<u>112</u>	<u>27</u>	<u>1627 *</u>
P11		<u>30</u>	<u>1897 *</u>	<u>50</u>	<u>114</u>	<u>30</u>	<u>1614 *</u>
P12				<u>55</u>	<u>119</u>	<u>33</u>	<u>1603 *</u>
P13				<u>60</u>	<u>120</u>	<u>36</u>	<u>1589 *</u>
P14				<u>65</u>	<u>125</u>	<u>39</u>	<u>1714 *</u>
P15				<u>70</u>	<u>127</u>	<u>42</u>	<u>1724 *</u>
P16				<u>75</u>	<u>131</u>	<u>45</u>	<u>1705 *</u>
P17				<u>80</u>	<u>137</u>	<u>48</u>	<u>1676 *</u>
P18				<u>86</u>	<u>142</u>	<u>51</u>	<u>1673 *</u>
P19				<u>90</u>	<u>147</u>	<u>54</u>	<u>1622 *</u>
P20				<u>95</u>	<u>150</u>	<u>57</u>	<u>1559 *</u>
				<u>100</u>	<u>153</u>	<u>60</u>	<u>1519 *</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 12-30-80 Test Ticket No. 9081
 Recorder No. 5673 Capacity 5400 Location 4764 Ft.
 Clock No. ----- Elevation 1414 Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2259	P.S.I.	10:15 R _M	
B First Initial Flow Pressure	49	P.S.I.	30 Mins	30 Mins.
C First Final Flow Pressure	66	P.S.I.	30 Mins	30 Mins.
D Initial Closed-in Pressure	1897	P.S.I.	120 Mins	120 Mins.
E Second Initial Flow Pressure	96	P.S.I.	90 Mins	87 Mins.
F Second Final Flow Pressure	161	P.S.I.		
G Final Closed-in Pressure	1852 *	P.S.I.		
H Final Hydrostatic Mud	2251	P.S.I.		

* Pressures questionable due to shut-in tool leak.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>24</u> Inc.		Breakdown: <u>29</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				105	155	63	1854 *
P 2				110	157	66	1903 *
P 3				115	160	69	1903 *
P 4				120	161	72	1884 *
P 5						75	1903 *
P 6						78	1900 *
P 7						81	1878 *
P 8						84	1862 *
P 9						87	1852 *
P10							*
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							