



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 7011

Ground Level

KANSAS CITY

P. O. BOX 1599 PHONE (316) 838-0601

Elevation 1809 CL Formation KC Eff. Pay Ft.

WICHITA, KANSAS 67201

District Great Bend Date 8-280 Customer Order No. —

COMPANY NAME PV Properties, Inc.

ADDRESS 360 Sutton Place Wichita, Ks 67202

LEASE AND WELL NO. Tindall #1 COUNTY Barton STATE Ks Sec 9 Twp 18S Rge 13W

Mail Invoice To Same As Above No. Copies Requested 5

Co. Name " " " " Address " " " " No. Copies Requested 5

Mail Charts To " " " " Address " " " " No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3078 ft. to 3115 ft. Total Depth 3115 ft.

Packer Depth 3073 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3078 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3098 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 3101 ft. Recorder Number 10907 Cap. 5400

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

Drilling Contractor Damac Rig 1 Drill Collar Length — I. D. — in.

Mud Type starch Viscosity 39 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 11 cc. Drill Pipe Length 3056 I. D. 3.8 in.

Chlorides 42000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 00 in.

Jars: Make — Serial Number — Anchor Length 37 ft. Size 5 1/2 00 in.

Did Well Flow? — 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 X 4 in.

Blow: No blow, flushed tool, still no blow — thru out test

Recovered 55 ft. of Drilling Mud

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Remarks: difficult to reach bottom - slid 7' on 1st attempt add another joint

Slide 8, tool opened on 2nd slide - no blow ran 12low, 1 shut in

ARR Loc 12:30 Finished test 7:30 Per Geol.

Time Set Packer(s) 4:50 Time Started Off Bottom 5:30 Maximum Temperature 112°

Initial Hydrostatic Pressure (A) 1660/1602 P.S.I.

Initial Flow Period (B) 61 P.S.I. to (C) 61 P.S.I.

Initial Closed In Period (D) 143 P.S.I.

Final Flow Period (E) — P.S.I. to (F) — P.S.I.

Final Closed In Period (G) — P.S.I.

Final Hydrostatic Pressure (H) 1591 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 Larry McLead Signature of Customer or his authorized representative

Western Representative Dore Eberhart

FIELD INVOICE

Open Hole Test \$ 550.00

Misrun \$

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$

Standby \$

Evaluation \$

Extra Packer \$

Chart Sub. \$

Mileage 12 \$ 9.00

Fluid Sampler \$

Extra Charts \$

TOTAL \$ 559.00

RECEIVED
AUG 7 - 1980

WESTERN TESTING CO., INC.

Pressure Data

Date 8-2 Recorder No. 969 Capacity 4200 Test Ticket No. 7011 Location 3098 Ft.
 Clock No. Elevation 1809 2L Well Temperature 112 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1648</u>	P.S.I.	Open Tool	<u>4:50 AM</u>	
B First Initial Flow Pressure	<u>87</u>	P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>71</u>	P.S.I.	Initial Closed-in Pressure	<u>15</u> Mins.	<u>18</u> Mins.
D Initial Closed-in Pressure	<u>149</u>	P.S.I.	Second Flow Pressure		
E Second Initial Flow Pressure		P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure		P.S.I.			
G Final Closed-in Pressure		P.S.I.			
H Final Hydrostatic Mud	<u>1614</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 84 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 6 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

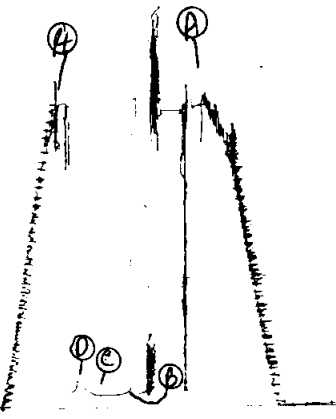
Second Flow Pressure
 Breakdown: Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>87</u>	0	<u>71</u>	0		0	
P 2	<u>77</u>	3	<u>71</u>	5		3	
P 3	<u>74</u>	6	<u>82</u>	10		6	
P 4	<u>71</u>	9	<u>94</u>	15		9	
P 5	<u>71</u>	12	<u>115</u>	20		12	
P 6		15	<u>137</u>	25		15	
P 7		18	<u>149</u>	30		18	
P 8		21		35		21	
P 9		24		40		24	
P10		27		45		27	
P11		30		50		30	
P12		33		55		33	
P13		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

DKA # 7011

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Company P. V. Properties, Inc. Lease & Well No. Tindall #1
 Elevation 1809 Ground Level Formation Kansas City Effective Pay ---- Ft. Ticket No. 7011
 Date 8/2/80 Sec. 9 Twp. 18S Range 13W County Barton State Kansas
 Test Approved by Terry McLeod Western Representative Gene Eberhart

Formation Test No. 1 Interval Tested from 3078 ft. to 3115 ft. Total Depth 3115 ft.
 Packer Depth 3073 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3078 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3098 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3101 ft. Recorder Number 10207 Cap. 5400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DaMac Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 39 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 11 cc. Drill Pipe Length 3056 I. D. 3.8 in.
 Chlorides 42,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 37 ft. Size 5 1/2 OD in.
 Did Well Flow? - 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 XH in.

Blow: No blow; flushed tool, still no blow throughout test.

Recovered 55 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Difficult to reach bottom. Slid seven feet first attempt, added another joint; slid eight feet; tool opened on second slide; no blow, ran one flow, one shut-in.

Time Set Packer(s) 4:50 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 5:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 112°
 Initial Hydrostatic Pressure (A) 1648 P.S.I.
 Initial Flow Period Minutes 20 (B) 87 P.S.I. to (C) 71 P.S.I.
 Initial Closed In Period Minutes 18 (D) 149 P.S.I.
 Final Flow Period Minutes -- (E) -- P.S.I. to (F) -- P.S.I.
 Final Closed In Period Minutes -- (G) -- P.S.I.
 Final Hydrostatic Pressure (H) 1614 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/2/80 Test Ticket No. 7011
 Recorder No. 969 Capacity 4200 Location 3098 Ft.
 Clock No. ---- Elevation 1809 Ground Level Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1648</u>	P.S.I.	<u>4:50A</u>	<u>M</u>
B First Initial Flow Pressure	<u>87</u>	P.S.I.	<u>15</u>	<u>20</u> Mins.
C First Final Flow Pressure	<u>71</u>	P.S.I.	<u>15</u>	<u>18</u> Mins.
D Initial Closed-in Pressure	<u>149</u>	P.S.I.	<u>--</u>	<u>--</u> Mins.
E Second Initial Flow Pressure	<u>--</u>	P.S.I.	<u>--</u>	<u>--</u> Mins.
F Second Final Flow Pressure	<u>--</u>	P.S.I.		
G Final Closed-in Pressure	<u>--</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1614</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>0</u> Inc.		Breakdown: <u>0</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>87</u>	<u>0</u>	<u>71</u>				
P 2 <u>5</u>	<u>77</u>	<u>3</u>	<u>71</u>				
P 3 <u>10</u>	<u>74</u>	<u>6</u>	<u>82</u>				
P 4 <u>15</u>	<u>71</u>	<u>9</u>	<u>94</u>				
P 5 <u>20</u>	<u>71</u>	<u>12</u>	<u>115</u>				
P 6 _____		<u>15</u>	<u>137</u>				
P 7 _____		<u>18</u>	<u>149</u>				
P 8 _____							
P 9 _____							
P10 _____							
P11 _____							
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							



WESTERN TESTING CO., INC.

FORMATION TESTING

GROUND LEVEL

TICKET No 7012

KC KANSAS CITY

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Elevation 1809 GL Formation Eff. Pay Ft.

District GREAT Bend Date 8-3 Customer Order No.

COMPANY NAME P U Properties, Inc

ADDRESS 360 Sutton Place, Wichita, Ks 67202

LEASE AND WELL NO Tindall #1 COUNTY Barton STATE Ks Sec 9 Twp 18 S Rge 13 W

Mail Invoice To Same As Above No. Copies Requested 5

Co. Name Address No. Copies Requested 5

Mail Charts To Address No. Copies Requested 5

Formation Test No 2 Interval Tested from 3166 ft. to 3185 ft. Total Depth 3185 ft.

Packer Depth 3161 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3166 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3174 ft. Recorder Number 969 Cap 4200

Bottom Recorder Depth (Outside) 3177 ft. Recorder Number 10207 Cap 5400

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

Drilling Contractor DAMac Rig 1 Drill Collar Length - I. D. - in.

Mud Type Starc # Viscosity 1.42 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 15.8 cc. Drill Pipe Length - I. D. - in.

Chlorides 39,000 P.P.M. Test Tool Length 22 ft. Tool Size 5/200 in.

Jars: Make - Serial Number - Anchor Length 19 ft. Size 5/200 in.

Did Well Flow? NO Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 3/8 in. Tool Joint Size 4 1/2 x 4 in.

Blow: Fair 3 1/2" - 4" during 1st FP - Fair 3' Blow during Final F.P. - Final Flow

Recovered 151' ft. of WATER -

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Remarks: AM 5:13 - Finished TEST 1 AM -

Time Set Packer(s) 7:40 PM Time Started Off Bottom 10:45 PM Maximum Temperature 113°

Initial Hydrostatic Pressure (A) 1663 P.S.I. to (C) 61 P.S.I.

Initial Flow Period Minutes 45 (B) 51 P.S.I. to (D) 788 P.S.I.

Initial Closed In Period Minutes 45 (E) 81 P.S.I. to (F) 81 P.S.I.

Final Flow Period Minutes 45 (G) 768 P.S.I.

Final Closed In Period Minutes 45 (H) 1623 P.S.I.

Final Hydrostatic Pressure

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.

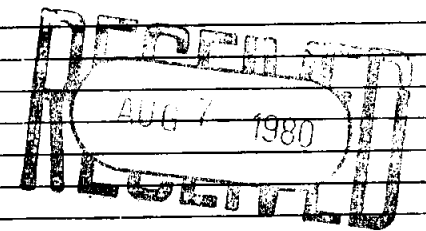
Test Approved By Jerry McLeod Signature of Customer or his authorized representative

Western Representative Gene Eberhart

FIELD INVOICE

- Open Hole Test \$550.00
Miscellaneous \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$

TOTAL \$550.00



WESTERN TESTING CO., INC.

Pressure Data

Date 8-3 Test Ticket No. 7012
 Recorder No. 969 Capacity 4200 Location 3174 Ft.
 Clock No. Elevation 1809 51 Well Temperature 113 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1667</u> P.S.I.		<u>7:40</u> P.M.	
B First Initial Flow Pressure	<u>70</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>50</u> Mins.
C First Final Flow Pressure	<u>63</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>803</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>102</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>51</u> Mins.
F Second Final Flow Pressure	<u>94</u> P.S.I.			
G Final Closed-in Pressure	<u>783</u> P.S.I.			
H Final Hydrostatic Mud	<u>1640</u> P.S.I.			

PRESSURE BREAKDOWN

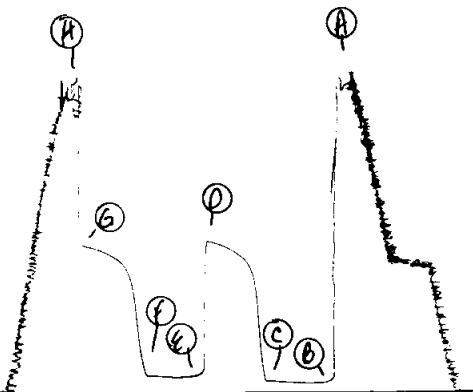
First Flow Pressure Breakdown: <u>10</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>17</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	<u>70</u>	0	<u>63</u>	0	<u>102</u>	0	<u>94</u>
P 2	5	<u>59</u>	3	<u>227</u>	5	<u>94</u>	3	<u>167</u>
P 3	10	<u>54</u>	6	<u>412</u>	10	<u>88</u>	6	<u>301</u>
P 4	15	<u>54</u>	9	<u>570</u>	15	<u>87</u>	9	<u>442</u>
P 5	20	<u>55</u>	12	<u>641</u>	20	<u>86</u>	12	<u>549</u>
P 6	25	<u>55</u>	15	<u>680</u>	25	<u>87</u>	15	<u>618</u>
P 7	30	<u>56</u>	18	<u>708</u>	30	<u>88</u>	18	<u>660</u>
P 8	35	<u>58</u>	21	<u>725</u>	35	<u>91</u>	21	<u>688</u>
P 9	40	<u>61</u>	24	<u>744</u>	40	<u>94</u>	24	<u>707</u>
P10	45	<u>63</u>	27	<u>754</u>	45		27	<u>720</u>
P11	50	<u>63</u>	30	<u>766</u>	50		30	<u>731</u>
P12	55		33	<u>774</u>	55		33	<u>741</u>
P13	60		36	<u>785</u>	60		36	<u>752</u>
P14			39	<u>792</u>	65		39	<u>759</u>
P15			42	<u>797</u>	70		42	<u>766</u>
P16			45	<u>803</u>	75		45	<u>770</u>
P17			48		80		48	<u>777</u>
P18			51		85		51	<u>783</u>
P19			54		90		54	
P20			57				57	
			60				60	

JKT # 7012

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Company P. V. Properties, Inc. Lease & Well No. Tindall #1
 Elevation 1809 Ground Level Formation Kansas City Effective Pay ----- Ft. Ticket No. 7012
 Date 8/3/80 Sec. 9 Twp. 18S Range 13W County Barton State Kansas
 Test Approved by Terry McLeod Western Representative Gene Eberhart

Formation Test No. 2 Interval Tested from 3166 ft. to 3185 ft. Total Depth 3185 ft.
 Packer Depth 3161 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3166 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3174 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3177 ft. Recorder Number 10207 Cap. 5400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DaMac Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 15.8 cc. Drill Pipe Length - I. D. - in.
 Chlorides 39,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 19 ft. Size 5 1/2 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 in.

Blow: Fair 3 1/2" - 4" during initial flow period. Fair three inch blow during final flow.

Recovered 151 ft. of water
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: _____

Time Set Packer(s) 7:40 ^{AM}/_{P.M.} Time Started Off Bottom 10:45 ^{AM}/_{P.M.} Maximum Temperature 113°
 Initial Hydrostatic Pressure (A) 1667 P.S.I.
 Initial Flow Period Minutes 50 (B) 70 P.S.I. to (C) 63 P.S.I.
 Initial Closed In Period Minutes 45 (D) 803 P.S.I.
 Final Flow Period Minutes 40 (E) 102 P.S.I. to (F) 94 P.S.I.
 Final Closed In Period Minutes 51 (G) 783 P.S.I.
 Final Hydrostatic Pressure (H) 1640 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/3/80 Test Ticket No. 7012
 Recorder No. 969 Capacity 4200 Location 3174 Ft.
 Clock No. ---- Elevation 1809 Ground Level Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1667</u> P.S.I.	Open Tool	<u>7:40P</u> M	
B First Initial Flow Pressure	<u>70</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>50</u> Mins.
C First Final Flow Pressure	<u>63</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>803</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>102</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>51</u> Mins.
F Second Final Flow Pressure	<u>94</u> P.S.I.			
G Final Closed-in Pressure	<u>783</u> P.S.I.			
H Final Hydrostatic Mud	<u>1640</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>10</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>17</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> <u>70</u>	<u>0</u> <u>63</u>	<u>0</u> <u>102</u>	<u>0</u> <u>94</u>			
P 2	<u>5</u> <u>59</u>	<u>3</u> <u>227</u>	<u>5</u> <u>94</u>	<u>3</u> <u>167</u>			
P 3	<u>10</u> <u>54</u>	<u>6</u> <u>412</u>	<u>10</u> <u>88</u>	<u>6</u> <u>301</u>			
P 4	<u>15</u> <u>54</u>	<u>9</u> <u>570</u>	<u>15</u> <u>87</u>	<u>9</u> <u>442</u>			
P 5	<u>20</u> <u>55</u>	<u>12</u> <u>641</u>	<u>20</u> <u>86</u>	<u>12</u> <u>549</u>			
P 6	<u>25</u> <u>55</u>	<u>15</u> <u>680</u>	<u>25</u> <u>87</u>	<u>15</u> <u>618</u>			
P 7	<u>30</u> <u>56</u>	<u>18</u> <u>708</u>	<u>30</u> <u>88</u>	<u>18</u> <u>660</u>			
P 8	<u>35</u> <u>58</u>	<u>21</u> <u>725</u>	<u>35</u> <u>91</u>	<u>21</u> <u>688</u>			
P 9	<u>40</u> <u>61</u>	<u>24</u> <u>744</u>	<u>40</u> <u>94</u>	<u>24</u> <u>707</u>			
P10	<u>45</u> <u>63</u>	<u>27</u> <u>754</u>		<u>27</u> <u>720</u>			
P11	<u>50</u> <u>63</u>	<u>30</u> <u>766</u>		<u>30</u> <u>731</u>			
P12		<u>33</u> <u>774</u>		<u>33</u> <u>741</u>			
P13		<u>36</u> <u>785</u>		<u>36</u> <u>752</u>			
P14		<u>39</u> <u>792</u>		<u>39</u> <u>759</u>			
P15		<u>42</u> <u>797</u>		<u>42</u> <u>766</u>			
P16		<u>45</u> <u>803</u>		<u>45</u> <u>770</u>			
P17				<u>48</u> <u>777</u>			
P18				<u>51</u> <u>783</u>			
P19							
P20							



P. O. BOX 1599 WICHITA, KANSAS 67201
 PHONE (316) 838-0601

WESTERN TESTING CO., INC.

FORMATION TESTING

Ground Level

TICKET No 7013

Elevation 1809 GL Formation Arbuckle Eff. Pay Ft.

District GREAT Bend Date 8-4-80

Customer Order No.

COMPANY NAME P.V. Properties Inc

ADDRESS 360 Sutton Place, Wichita Ks 67202

LEASE AND WELL NO. Tindall #1 COUNTY Barton STATE Ks Sec. 9 Twp. 18S Rge. 13W

Mail Invoice To Same As Above No. Copies Requested

Mail Charts To " " " Address No. Copies Requested 5

Formation Test No. 3 Interval Tested from 3320 ft. to 3327 ft. Total Depth 3327 ft.

Packer Depth 3315 ft. Size 6 7/8 in. Packer Depth ft. Size in.

Packer Depth 3320 ft. Size 6 7/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3306 AP ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 3322 ft. Recorder Number 10207 Cap. 5400

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Da Mae Rig 1 Drill Collar Length I. D. in.

Mud Type STARCH Viscosity 42 Weight Pipe Length I. D. in.

Weight 9.6 Water Loss 15 cc. Drill Pipe Length 3294 I. D. 3.8 in.

Chlorides 4,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 00 in.

Jars: Make Serial Number Anchor Length 7 ft. Size 5 1/2 00 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 2 1/2 X H in.

Blow: decreasing 1" blow, died in 40 min of First F.P.

No blow during Final F.P. - Blow Initial Flow

Recovered 15' ft. of MUD

Recovered ft. of Few oil spots in top of tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Recorder #969 was Run Above Packer

9:15 Loc 7:45 Finished Test 3 Am

Time Set Packer(s) 9:55 P.M. Time Started Off Bottom 1:00 A.M. Maximum Temperature 113°

Initial Hydrostatic Pressure (A) 1723 P.S.I.

Initial Flow Period 45 Minutes (B) 40 P.S.I. to (C) 30 P.S.I.

Initial Closed In Period 45 Minutes (D) 1014 P.S.I.

Final Flow Period 45 Minutes (E) 40 P.S.I. to (F) 30 P.S.I.

Final Closed In Period 45 Minutes (G) 922 P.S.I.

Final Hydrostatic Pressure (H) 1696 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 McLeod
 Signature of Customer or his authorized representative

Western Representative Gene Eberhart

FIELD INVOICE

Open Hole Test 550.00
 Misrun \$
 Straddle Test \$
 Jars \$
 Selective Zone \$
 Safety Joint \$
 Standby \$
 Evaluation \$
 Extra Packer \$
 Circ. Sub. \$
 Mileage \$
 Fluid Sampler \$
 Extra Charts \$

TOTAL \$ 550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-4 Test Ticket No. 7012
 Recorder No. 969 Capacity 4200 Location 3306AP Ft.
 Clock No. — Elevation 1809 Well Temperature 113 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1767</u> P.S.I.	<u>9:55 P</u>	
B First Initial Flow Pressure	<u>51</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>35</u> P.S.I.	<u>45</u> Mins.	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>1012</u> P.S.I.	<u>45</u> Mins.	<u>50</u> Mins.
E Second Initial Flow Pressure	<u>61</u> P.S.I.	<u>45</u> Mins.	<u>36</u> Mins.
F Second Final Flow Pressure	<u>37</u> P.S.I.		
G Final Closed-in Pressure	<u>920</u> P.S.I.		
H Final Hydrostatic Mud	<u>1712</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 13 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

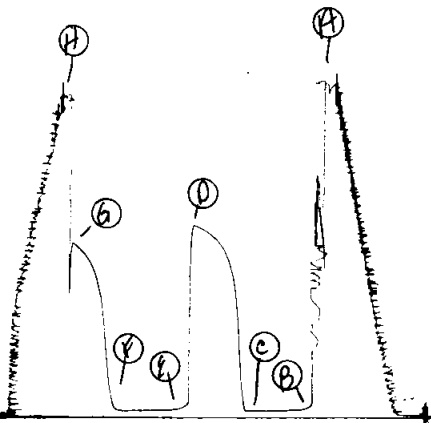
Final Shut-In
 Breakdown: 12 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>51</u>	0	<u>35</u>	0	<u>61</u>	0	<u>37</u>
P 2	<u>43</u>	3	<u>248</u>	3	<u>49</u>	3	<u>57</u>
P 3	<u>39</u>	6	<u>557</u>	6	<u>43</u>	6	<u>160</u>
P 4	<u>39</u>	9	<u>725</u>	9	<u>41</u>	9	<u>363</u>
P 5	<u>38</u>	12	<u>799</u>	12	<u>41</u>	12	<u>549</u>
P 6	<u>38</u>	15	<u>860</u>	15	<u>40</u>	15	<u>682</u>
P 7	<u>37</u>	18	<u>900</u>	18	<u>39</u>	18	<u>758</u>
P 8	<u>37</u>	21	<u>928</u>	21	<u>38</u>	21	<u>809</u>
P 9	<u>36</u>	24	<u>949</u>	24	<u>38</u>	24	<u>840</u>
P 10	<u>35</u>	27	<u>967</u>	27	<u>37</u>	27	<u>867</u>
P 11		30	<u>983</u>	30	<u>37</u>	30	<u>892</u>
P 12		33	<u>995</u>	33		33	<u>912</u>
P 13		36	<u>1004</u>	36		36	<u>920</u>
P 14		39	<u>1012</u>	39		39	
P 15		42		42		42	
P 16		45		45		45	
P 17		48		48		48	
P 18		51		51		51	
P 19		54		54		54	
P 20		57		57		57	
		60		60		60	

JKT# 2013

6/7/6

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Company P. V. Properties, Inc. Lease & Well No. Tindall #1
 Elevation 1809 Ground Level Formation Arbuckle Effective Pay. ---- Ft. Ticket No. 7013
 Date 8/4/80 Sec. 9 Twp. 18S Range 13W County Barton State Kansas
 Test Approved by Terry McLeod Western Representative Gene Eberhart

Formation Test No. 3 Interval Tested from 3320 ft. to 3327 ft. Total Depth 3327 ft.
 Packer Depth 3315 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3320 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3306 AP ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3322 ft. Recorder Number 10207 Cap. 5400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DaMac Drlg. Rig #1 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 15 cc. Drill Pipe Length 3294 I. D. 3.8 in.
 Chlorides 41,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 7 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 XH in.

Blow: Decreasing one inch blow; died in forty minutes of initial flow. No blow during final flow.

Recovered 15 ft. of mud
 Recovered - ft. of Few oil spots in top of tool.
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Remarks: RECORDER #969 WAS RUN ABOVE PACKER

Time Set Packer(s) 9:55 A.M. Time Started Off Bottom 1:00 P.M. Maximum Temperature 113°
 Initial Hydrostatic Pressure (A) 1767 P.S.I.
 Initial Flow Period Minutes 45 (B) 51 P.S.I. to (C) 35 P.S.I.
 Initial Closed In Period Minutes 39 (D) 1012 P.S.I.
 Final Flow Period Minutes 50 (E) 61 P.S.I. to (F) 37 P.S.I.
 Final Closed In Period Minutes 36 (G) 920 P.S.I.
 Final Hydrostatic Pressure (H) 1713 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/4/80 Recorder No. 969 Capacity 4200 Test Ticket No. 7013
 Clock No. - Elevation 1809 Ground Level Location 3306 AP Ft
 Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1767</u>	P.S.I.	<u>9:55P</u>	<u>M</u>
B First Initial Flow Pressure	<u>51</u>	P.S.I.	<u>45</u>	<u>Mins. 45</u>
C First Final Flow Pressure	<u>35</u>	P.S.I.	<u>45</u>	<u>Mins. 39</u>
D Initial Closed-in Pressure	<u>1012</u>	P.S.I.	<u>45</u>	<u>Mins. 50</u>
E Second Initial Flow Pressure	<u>61</u>	P.S.I.	<u>45</u>	<u>Mins. 36</u>
F Second Final Flow Pressure	<u>37</u>	P.S.I.		
G Final Closed-in Pressure	<u>920</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1713</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 <u>0</u>	<u>51</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>37</u>	<u>0</u>
P 2 <u>5</u>	<u>43</u>	<u>3</u>	<u>248</u>	<u>3</u>	<u>49</u>	<u>3</u>	<u>57</u>	<u>3</u>
P 3 <u>10</u>	<u>39</u>	<u>6</u>	<u>557</u>	<u>6</u>	<u>43</u>	<u>6</u>	<u>160</u>	<u>6</u>
P 4 <u>15</u>	<u>39</u>	<u>9</u>	<u>725</u>	<u>9</u>	<u>41</u>	<u>9</u>	<u>363</u>	<u>9</u>
P 5 <u>20</u>	<u>38</u>	<u>12</u>	<u>799</u>	<u>12</u>	<u>41</u>	<u>12</u>	<u>549</u>	<u>12</u>
P 6 <u>25</u>	<u>38</u>	<u>15</u>	<u>860</u>	<u>15</u>	<u>40</u>	<u>15</u>	<u>682</u>	<u>15</u>
P 7 <u>30</u>	<u>37</u>	<u>18</u>	<u>900</u>	<u>18</u>	<u>39</u>	<u>18</u>	<u>758</u>	<u>18</u>
P 8 <u>35</u>	<u>37</u>	<u>21</u>	<u>928</u>	<u>21</u>	<u>38</u>	<u>21</u>	<u>809</u>	<u>21</u>
P 9 <u>40</u>	<u>36</u>	<u>24</u>	<u>949</u>	<u>24</u>	<u>38</u>	<u>24</u>	<u>840</u>	<u>24</u>
P10 <u>45</u>	<u>35</u>	<u>27</u>	<u>967</u>	<u>27</u>	<u>37</u>	<u>27</u>	<u>867</u>	<u>27</u>
P11		<u>30</u>	<u>983</u>	<u>30</u>	<u>37</u>	<u>30</u>	<u>893</u>	<u>30</u>
P12		<u>33</u>	<u>995</u>	<u>33</u>		<u>33</u>	<u>912</u>	<u>33</u>
P13		<u>36</u>	<u>1004</u>	<u>36</u>		<u>36</u>	<u>920</u>	<u>36</u>
P14		<u>39</u>	<u>1012</u>	<u>39</u>				<u>39</u>
P15								
P16								
P17								
P18								
P19								
P20								