



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7397

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

Elevation _____ Formation _____ Eff. Pay _____ Ft.

District Great Bend Date 10-3-80 Customer Order No. _____

COMPANY NAME KPM Petroleum Corp

ADDRESS 817 17th ST Suite 820-DENVER COLO. 80202

LEASE AND WELL NO. BUTTS #1 COUNTY COMANCHE STATE KS Sec. 6 Twp 34S Rge 20W

Mail Invoice To same No. Copies Requested 5

Co. Name same Address _____ No. Copies Requested 5

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. #1 Interval Tested from 4794 ft. to 4901 ft. Total Depth 4901 ft.

Packer Depth 4789 ft. Size 1 3/4 in. Packer Depth 4794 ft. Size 1 3/4 in.

Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4818 ft. Recorder Number 6057 Cap. 4200

Bottom Recorder Depth (Outside) 4821 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor X-PLORER Viscosity 43 Drill Collar Length 483 I. D. 2 1/2 in.

Mud Type Chemical Weight 9.2 Water Loss 30.2 cc. Weight Pipe Length _____ I. D. _____ in.

Chlorides 15,000 P.P.M. Drill Pipe Length 4280 I. D. 2.7 in.

Jars: Make Western Serial Number 408 Test Tool Length 31 ft. Tool Size 4 3/4 in.

Did Well Flow? NO Reversed Out NO Anchor Length 107 ft. Size 5 1/2 with STD drill

Remarks: weak Blow Decreasing TO VERY weak FIRST 10 ft. opening

NO Blow Second opening final flow period

Recovered 30 ft. of MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: INITIAL FLOW showed some PARTIAL PLUGGING - FINAL FLOW

showed very little

Time On Location 6:45 P.M. Time Pick Up Tool 10:00 P.M. Time Off Location 8:30 A.M.

Time Set Packer(s) 1:15 A.M. Time Started Off Bottom 3:38 A.M. Maximum Temperature 120

Initial Hydrostatic Pressure _____ (A) 2442 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 122 P.S.I. to (C) 147 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1629 P.S.I.

Final Flow Period _____ Minutes 15 (E) 122 P.S.I. to (F) 122 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 695 P.S.I.

Final Hydrostatic Pressure _____ (H) 2394 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 Roger Lisenby

FIELD INVOICE

Open Hole Test ✓ \$ 550.00

Misrun \$ _____

Straddle Test \$ _____

Jars ✓ \$ 300.00

Selective Zone \$ _____

Safety Joint ✓ \$ 50.00

Standby \$ _____

Evaluation \$ _____

Extra Packer \$ _____

Circ. Sub. \$ _____

Mileage 80 \$ 60.00

Fluid Sampler \$ _____

Extra Charts 6 50 \$ 30

Insurance \$ _____

TOTAL \$ 940.00

WESTERN TESTING CO., INC.

Pressure Data

Date 10-3-80 Test Ticket No. 7397
 Recorder No. 6077 Capacity 4700 Location 4818 Ft.
 Clock No. _____ Elevation _____ Well Temperature 120 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2486</u>	P.S.I.	<u>1:15</u> AM	
B First Initial Flow Pressure <u>130*</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>143*</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure <u>1656</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure <u>145</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure <u>140</u>	P.S.I.		
G Final Closed-in Pressure <u>703</u>	P.S.I.		
H Final Hydrostatic Mud <u>2409</u>	P.S.I.		

* Pressures questionable due to plugging action.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>10</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 0	<u>130*</u>	0	<u>143*</u>	0	<u>145</u>	0	<u>140</u>
P 2 5	<u>150*</u>	3	<u>188</u>	5	<u>210*</u>	3	<u>148</u>
P 3 10	<u>120*</u>	6	<u>280</u>	10	<u>150*</u>	6	<u>168</u>
P 4 15	<u>178*</u>	9	<u>408</u>	15	<u>140</u>	9	<u>200</u>
P 5 20	<u>143*</u>	12	<u>541</u>	20		12	<u>250</u>
P 6 25	<u>193*</u>	15	<u>672</u>	25		15	<u>313</u>
P 7 30	<u>143*</u>	18	<u>795</u>	30		18	<u>368</u>
P 8 35		21	<u>908</u>	35		21	<u>440</u>
P 9 40		24	<u>1005</u>	40		24	<u>519</u>
P10 45		27	<u>1094</u>	45		27	<u>594</u>
P11 50		30	<u>1176</u>	50		30	<u>703</u>
P12 55		33	<u>1254</u>	55		33	
P13 60		36	<u>1324</u>	60		36	
P14		39	<u>1379</u>	65		39	
P15		42	<u>1442</u>	70		42	
P16		45	<u>1488</u>	75		45	
P17		48	<u>1529</u>	80		48	
P18		51	<u>1567</u>	85		51	
P19		54	<u>1606</u>	90		54	
P20		57	<u>1635</u>			57	
		60	<u>1656</u>			60	

Company K. R. M. Petroleum Corporation Lease & Well No. M. Butts #1

Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 7397

Date 10/3/80 Sec. 6 Twp. 34S Range 20W County Comanche State Kansas

Test Approved by Lou Bird Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 4794 ft. to 4901 ft. Total Depth 4901 ft.

Packer Depth 4789 ft. Size 6 3/4 in. Packer Depth 4794 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4818 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 4821 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor Xplor Drilling Drill Collar Length 483 I. D. 2 1/2 in.

Mud Type chemical Viscosity 43 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 30.2 cc. Drill Pipe Length 4280 I. D. 2.7 in.

Chlorides 15,000 P.P.M. Test Tool Length 31 ft. Tool Size 4 3/4 in.

Jars: Make WTC Serial Number 408 Anchor Length 107 ft. 5 1/2 with Std. Drill Collar

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" FH in.

Blow: Weak blow decreasing to very weak on initial flow period. No blow on final flow period.

Recovered 30 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Initial flow period showed some partial plugging; final flow period showed very little.

Time Set Packer(s) 1:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 3:38 ~~P.M.~~ ^{A.M.} Maximum Temperature 120°

Initial Hydrostatic Pressure 2486 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 130 * P.S.I. to (C) 143 * P.S.I.

Initial Closed In Period 60 Minutes (D) 1656 P.S.I.

Final Flow Period 15 Minutes (E) 145 P.S.I. to (F) 140 P.S.I.

Final Closed In Period 30 Minutes (G) 703 P.S.I.

Final Hydrostatic Pressure 2409 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/3/80 Test Ticket No. 7397
 Recorder No. 6077 Capacity 4700 Location 4818 Ft.
 Clock No. ---- Elevation ----- Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2486	P.S.I.	1:15A	M
B First Initial Flow Pressure	130 *	P.S.I.	30	Mins.
C First Final Flow Pressure	143 *	P.S.I.	60	Mins.
D Initial Closed-in Pressure	1656	P.S.I.	15	Mins.
E Second Initial Flow Pressure	145	P.S.I.	30	Mins.
F Second Final Flow Pressure	140	P.S.I.		
G Final Closed-in Pressure	703	P.S.I.		
H Final Hydrostatic Mud	2409	P.S.I.		

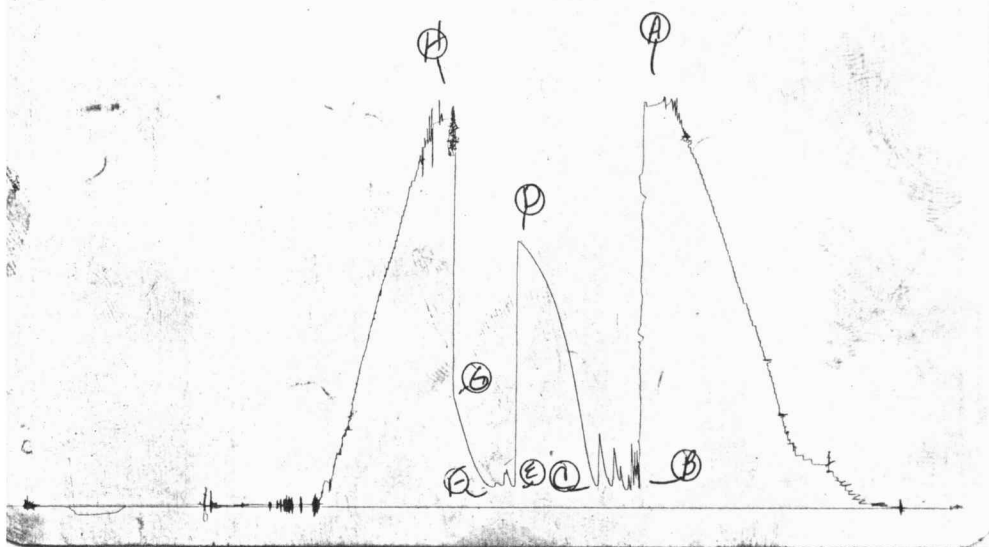
* Pressures questionable due to plugging action.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>10</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>130</u> *	<u>0</u>	<u>143</u> *	<u>0</u>	<u>145</u>	<u>0</u>	<u>140</u>
P 2 <u>5</u>	<u>150</u> *	<u>3</u>	<u>188</u>	<u>5</u>	<u>210</u> *	<u>3</u>	<u>148</u>
P 3 <u>10</u>	<u>120</u> *	<u>6</u>	<u>280</u>	<u>10</u>	<u>150</u> *	<u>6</u>	<u>168</u>
P 4 <u>15</u>	<u>178</u> *	<u>9</u>	<u>408</u>	<u>15</u>	<u>140</u>	<u>9</u>	<u>200</u>
P 5 <u>20</u>	<u>143</u> *	<u>12</u>	<u>541</u>			<u>12</u>	<u>250</u>
P 6 <u>25</u>	<u>193</u> *	<u>15</u>	<u>672</u>			<u>15</u>	<u>313</u>
P 7 <u>30</u>	<u>143</u> *	<u>18</u>	<u>795</u>			<u>18</u>	<u>368</u>
P 8		<u>21</u>	<u>908</u>			<u>21</u>	<u>440</u>
P 9		<u>24</u>	<u>1005</u>			<u>24</u>	<u>519</u>
P10		<u>27</u>	<u>1094</u>			<u>27</u>	<u>594</u>
P11		<u>30</u>	<u>1176</u>			<u>30</u>	<u>703</u>
P12		<u>33</u>	<u>1254</u>				
P13		<u>36</u>	<u>1324</u>				
P14		<u>39</u>	<u>1379</u>				
P15		<u>42</u>	<u>1442</u>				
P16		<u>45</u>	<u>1488</u>				
P17		<u>48</u>	<u>1529</u>				
P18		<u>51</u>	<u>1567</u>				
P19		<u>54</u>	<u>1606</u>				
P20		<u>57</u>	<u>1635</u>				
		<u>60</u>	<u>1656</u>				

JK4 #7397

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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N° 6869

Elevation 1775 RB Formation MARLOW SAND Eff. Pay Ft.

District Pratt Date 10-5-80 Customer Order No.
COMPANY NAME KRM Petroleum Co
ADDRESS 817-12th St
LEASE AND WELL NO. #1M BUTTS COUNTY Comanche STATE Kans Sec. 6 Twp 34S Rge 20W
Mail Invoice To Same No. Copies Requested
Co. Name Address
Mail Charts To Same No. Copies Requested 11
Address

Formation Test No. 2 Interval Tested from 5252 ft. to 5310 ft. Total Depth 5310 ft.
Packer Depth 5247 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 5252 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 5257 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 5260 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor Xplor Drilling Drill Collar Length 583 I. D. 2 1/4 in.
Mud Type Starch Viscosity 4.5 Weight Pipe Length I. D. in.
Weight 9.2 Water Loss 12.4 cc. Drill Pipe Length 4669 I. D. 3.2 in.
Chlorides 24.1 P.P.M. Test Tool Length 28 ft. Tool Size 2 1/2 in.
Jars: Make WTC Serial Number 411 Anchor Length 60 (30+30) ft. Size 30' 6" + 30' 5" 2nd
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 in.

Blow: Strong blow through out test no gas to surface

Recovered 160 ft. of slightly oil out drilling mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks: clock stopped on inside recorder - Reread 4332 check

on 6:15 PM tool up 10:30 PM tool down 8:45 AM off loc AM
Time Set Packer(s) 12:50 AM Time Started Off Bottom 5:20 PM Maximum Temperature 134°F
Initial Hydrostatic Pressure (A) 2657 P.S.I.
Initial Flow Period 30 Minutes (B) 72 P.S.I. to (C) 52 P.S.I.
Initial Closed In Period 60 Minutes (D) 1225 P.S.I.
Final Flow Period 60 Minutes (E) 93 P.S.I. to (F) 93 P.S.I.
Final Closed In Period 120 Minutes (G) 831 P.S.I.
Final Hydrostatic Pressure (H) 2638 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 Jim Bird
Signature of Customer or his authorized representative

Western Representative Red Smith Thank You

FIELD INVOICE

Open Hole Test \$ 650.00
Misrun \$
Straddle Test \$ 300.00
Jars \$
Selective Zone \$ 50.00
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$ 63.75
Mileage 63.75 \$ 63.75
Fluid Sampler \$
Extra Charts 5 \$ 30.00
Oilecopy \$ 35.00
TOTAL \$ 1128.75

OCT 7 - 1980

WESTERN TESTING CO., INC.

Pressure Data

Date 10-5-80 Test Ticket No. 6869
 Recorder No. 4332 Capacity 4200 Location 5260 Ft.
 Clock No. _____ Elevation 1775 KB Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2632</u> P.S.I.	Open Tool	<u>12:50</u> AM	
B First Initial Flow Pressure	<u>89</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>76</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1236</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>113</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>117</u> Mins.
F Second Final Flow Pressure	<u>112</u> P.S.I.			
G Final Closed-in Pressure	<u>1440</u> P.S.I.			
H Final Hydrostatic Mud	<u>2605</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>39</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 0	<u>89</u>	0	<u>76</u>	0	<u>113</u>	0	<u>112</u>
P 2 5	<u>78</u>	3	<u>93</u>	5	<u>108</u>	3	<u>121</u>
P 3 10	<u>76</u>	6	<u>132</u>	10	<u>108</u>	6	<u>145</u>
P 4 15		9	<u>186</u>	15		9	<u>177</u>
P 5 20		12	<u>238</u>	20		12	<u>214</u>
P 6 25		15	<u>292</u>	25	<u>108</u>	15	<u>255</u>
P 7 30	<u>76</u>	18	<u>351</u>	30	<u>106</u>	18	<u>290</u>
P 8 35		21	<u>413</u>	35 35	<u>108</u>	21	<u>333</u>
P 9 40		24	<u>481</u>	40 40	<u>109</u>	24	<u>374</u>
P 10 45		27	<u>543</u>	45 45	<u>110</u>	27	<u>407</u>
P 11 50		30	<u>615</u>	50 50	<u>110</u>	30	<u>448</u>
P 12 55		33	<u>670</u>	55 55	<u>111</u>	33	<u>485</u>
P 13 60		36	<u>740</u>	60 60	<u>112</u>	36	<u>521</u>
P 14		39	<u>800</u>	65		39	<u>557</u>
P 15		42	<u>855</u>	70		42	<u>600</u>
P 16		45	<u>947</u>	75		45	<u>636</u>
P 17		48	<u>1002</u>	80		48	<u>685</u>
P 18		51	<u>1068</u>	85		51	<u>717</u>
P 19		54	<u>1128</u>	90		54	<u>764</u>
P 20		57	<u>1179</u>			57	<u>804</u>
		60	<u>1236</u>			60	<u>845</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 6869

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				63	874
P 2		66				66	921
P 3		69				69	957
P 4		72				72	987
P 5		75				75	1023
P 6		78				78	1060
P 7		81				81	1104
P 8		84				84	1132
P 9		87				87	1170
P10		90				90	1202
P11		93				93	1230
P12		96				96	1264
P13		99				99	1302
P14		102				102	1328
P15		105				105	1353
P16		108				108	1381
P17		111				111	1402
P18		114				114	1423
P19		117				117	1440
P20		120				~~120~~	

Company K. R. M. Petroleum Corporation Lease & Well No. M. Butts #1
Elevation 1775 Kelly Bushing Formation Morrow Sand Effective Pay ---- Ft. Ticket No. 6869
Date 10/5/80 Sec. 5 Twp. 34S Range 20W County Comanche State Kansas
Test Approved by Lou Bird Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 5252 ft. to 5310 ft. Total Depth 5310 ft.

Packer Depth 5247 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4242 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5257 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 5260 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Xplor Drilling Drill Collar Length 583 I. D. 2 1/4 in.

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

Weight 9.2 Water Loss 12.4 cc. Drill Pipe Length 4669 I. D. 3.2 in.

Chlorides 24,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 411 Anchor Length 60' - 30' - 30' Size 30' + 30' 5 1/2 OD in.

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

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

Blow: Strong blow throughout test. No gas to surface

Recovered 160 ft. of slightly oil cut drilling mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: Clock stopped on inside recorder : Reread #4332 chart

Time Set Packer(s) 12:50 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 5:20 ~~P.M.~~ ^{A.M.} Maximum Temperature 134°

Initial Hydrostatic Pressure (A) 2632 P.S.I.

Initial Flow Period Minutes 30 (B) 89 P.S.I. to (C) 76 P.S.I.

Initial Closed In Period Minutes 60 (D) 1236 P.S.I.

Final Flow Period Minutes 60 (E) 113 P.S.I. to (F) 112 P.S.I.

Final Closed In Period Minutes 117 (G) 1440 P.S.I.

Final Hydrostatic Pressure (H) 2605 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10-5-80 Recorder No. 4332 Capacity 4200 Test Ticket No. 6869
 Clock No. - Elevation 1775 Kelly Bushing Location 5260 Ft.
 Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2632</u> P.S.I.	Open Tool	<u>12:50A</u> M	
B First Initial Flow Pressure	<u>89</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>76</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1236</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>113</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>117</u> Mins.
F Second Final Flow Pressure	<u>112</u> P.S.I.			
G Final Closed-in Pressure	<u>1440</u> P.S.I.			
H Final Hydrostatic Mud	<u>2605</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>39</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>89</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>113</u>	<u>0</u>	<u>112</u>
P 2 <u>5</u>	<u>78</u>	<u>3</u>	<u>93</u>	<u>5</u>	<u>108</u>	<u>3</u>	<u>121</u>
P 3 <u>10</u>	<u>76</u>	<u>6</u>	<u>132</u>	<u>10</u>	<u>108</u>	<u>6</u>	<u>145</u>
P 4 <u>15</u>	<u>76</u>	<u>9</u>	<u>186</u>	<u>15</u>	<u>108</u>	<u>9</u>	<u>177</u>
P 5 <u>20</u>	<u>76</u>	<u>12</u>	<u>238</u>	<u>20</u>	<u>108</u>	<u>12</u>	<u>214</u>
P 6 <u>25</u>	<u>76</u>	<u>15</u>	<u>292</u>	<u>25</u>	<u>108</u>	<u>15</u>	<u>255</u>
P 7 <u>30</u>	<u>76</u>	<u>18</u>	<u>351</u>	<u>30</u>	<u>106</u>	<u>18</u>	<u>290</u>
P 8 _____		<u>21</u>	<u>413</u>	<u>35</u>	<u>108</u>	<u>21</u>	<u>333</u>
P 9 _____		<u>24</u>	<u>481</u>	<u>40</u>	<u>109</u>	<u>24</u>	<u>374</u>
P10 _____		<u>27</u>	<u>543</u>	<u>45</u>	<u>110</u>	<u>27</u>	<u>407</u>
P11 _____		<u>30</u>	<u>615</u>	<u>50</u>	<u>110</u>	<u>30</u>	<u>448</u>
P12 _____		<u>33</u>	<u>670</u>	<u>55</u>	<u>111</u>	<u>33</u>	<u>485</u>
P13 _____		<u>36</u>	<u>740</u>	<u>60</u>	<u>112</u>	<u>36</u>	<u>521</u>
P14 _____		<u>39</u>	<u>800</u>			<u>39</u>	<u>557</u>
P15 _____		<u>42</u>	<u>855</u>			<u>42</u>	<u>600</u>
P16 _____		<u>45</u>	<u>947</u>			<u>45</u>	<u>636</u>
P17 _____		<u>48</u>	<u>1002</u>			<u>48</u>	<u>685</u>
P18 _____		<u>51</u>	<u>1068</u>			<u>51</u>	<u>717</u>
P19 _____		<u>54</u>	<u>1128</u>			<u>54</u>	<u>764</u>
P20 _____		<u>57</u>	<u>1179</u>			<u>57</u>	<u>804</u>
		<u>60</u>	<u>1236</u>			<u>60</u>	<u>845</u>

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 Well Temperature 134 °

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2632</u> P.S.I.	Open Tool	<u>12:50A</u> M	
B First Initial Flow Pressure	<u>89</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Min.
C First Final Flow Pressure	<u>76</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Min.
D Initial Closed-in Pressure	<u>1236</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Min.
E Second Initial Flow Pressure	<u>113</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>117</u> Min.
F Second Final Flow Pressure	<u>112</u> P.S.I.			
G Final Closed-in Pressure	<u>1440</u> P.S.I.			
H Final Hydrostatic Mud	<u>2605</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 39 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						63	874
P 2						66	921
P 3						69	957
P 4						72	987
P 5						75	1023
P 6						78	1060
P 7						81	1104
P 8						84	1132
P 9						87	1170
P10						90	1202
P11						93	1230
P12						96	1264
P13						99	1302
P14						102	1328
P15						105	1353
P16						108	1381
P17						111	1402
P18						114	1423
P19						117	1440
P20							

4332 DST#2

SK#6869

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