



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company A. Scott Ritchie Lease & Well No. Parkhurst #1
Elevation 1849 Kelly Bushing Formation Tarkio Sand Effective Pay - Ft. Ticket No. 15024
Date 10/ 11/81 Sec. 9 Twp. 14S Range 13W County Russell State Kansas
Test Approved by Jeff Christian Western Representative Cliff Scheuerman

Formation Test No. 1 Interval Tested from 2371 ft. to 2445 ft. Total Depth 2445 ft.

Packer Depth - ft. Size - in. Packer Depth 2371 ft. Size 6 5/8 in.

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

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2380 ft. Recorder Number 1563 Cap. 4200

Bottom Recorder Depth (Outside) 2383 ft. Recorder Number 1562 Cap. 3900

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

Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 13.6 cc. Drill Pipe Length 2356 I. D. 3.8 in.

Chlorides 60,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 74 ft. Size 5 1/2 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: MISRUN

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Remarks: HIT BRIDGE TWENTY FIVE FEET OFF BOTTOM . ONE PACKER.

MISRUN * NO PRESSURES AVAILABLE

Time Set Packer(s) - A.M. P.M. Time Started Off Bottom - A.M. P.M. Maximum Temperature -

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

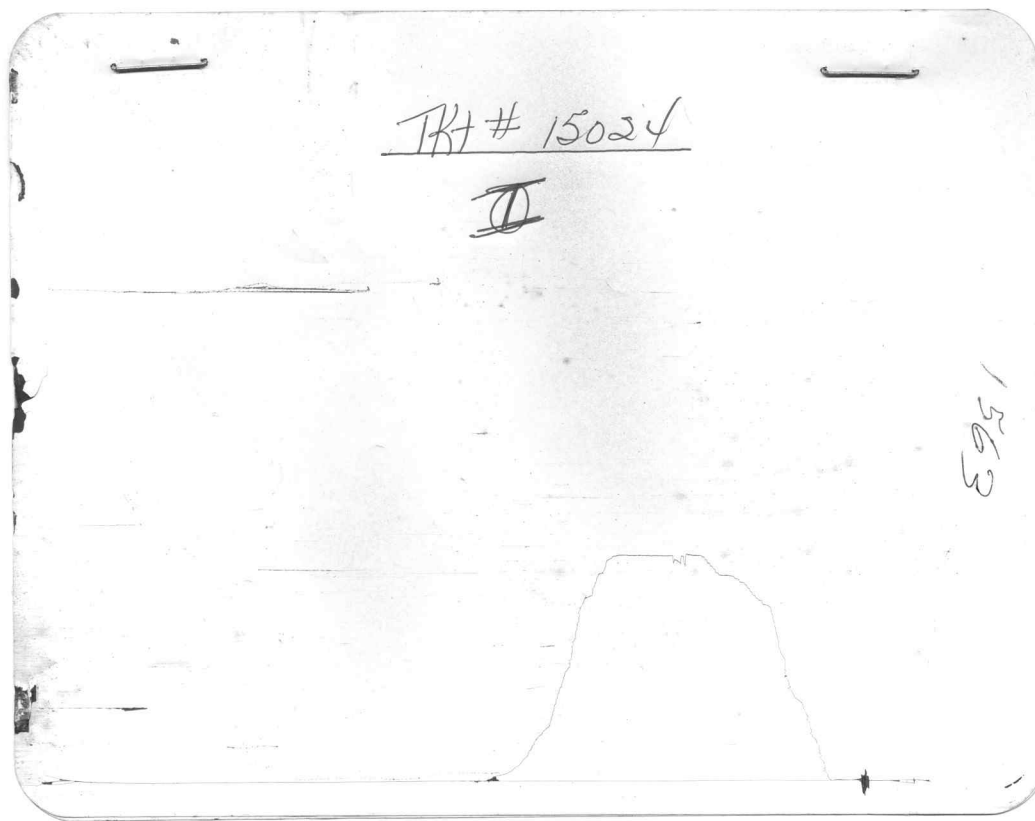
Initial Flow Period - Minutes (B) - P.S.I. to (C) - P.S.I.

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



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	MISRUN * NO PRESSURES AVAILABLE	
(B) First Initial Flow Pressure		PSI
(C) First Final Flow Pressure		PSI
(D) Initial Closed-in Pressure		PSI
(E) Second Initial Flow Pressure		PSI
(F) Second Final Flow Pressure		PSI
(G) Final Closed-in Pressure		PSI
(H) Final Hydrostatic Mud		PSI



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Company A. Scott Ritchie Lease & Well No. Parkhurst #1
Elevation 1849 Kelly Bushing Formation Tarkio Sand Effective Pay - Ft. Ticket No. 15025
Date 10/ 12/81 Sec. 9 Twp. 14S Range 13W County Russell State Kansas
Test Approved by Jeff Christian Western Representative Cliff Scheuerman
Formation Test No. 2 Interval Tested from 2376 ft. to 2445 ft. Total Depth 2445 ft.
Packer Depth 2371 ft. Size 6 5/8 in. Packer Depth 2376 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2381 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 2384 ft. Recorder Number 1562 Cap. 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 13.6 cc. Drill Pipe Length 2356 I. D. 3.8 in.
Chlorides 60,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 69 ft. Size 5 1/2 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: MLSRUN PACKER FAILURE

Recovered ft. of

Recovered ft. of

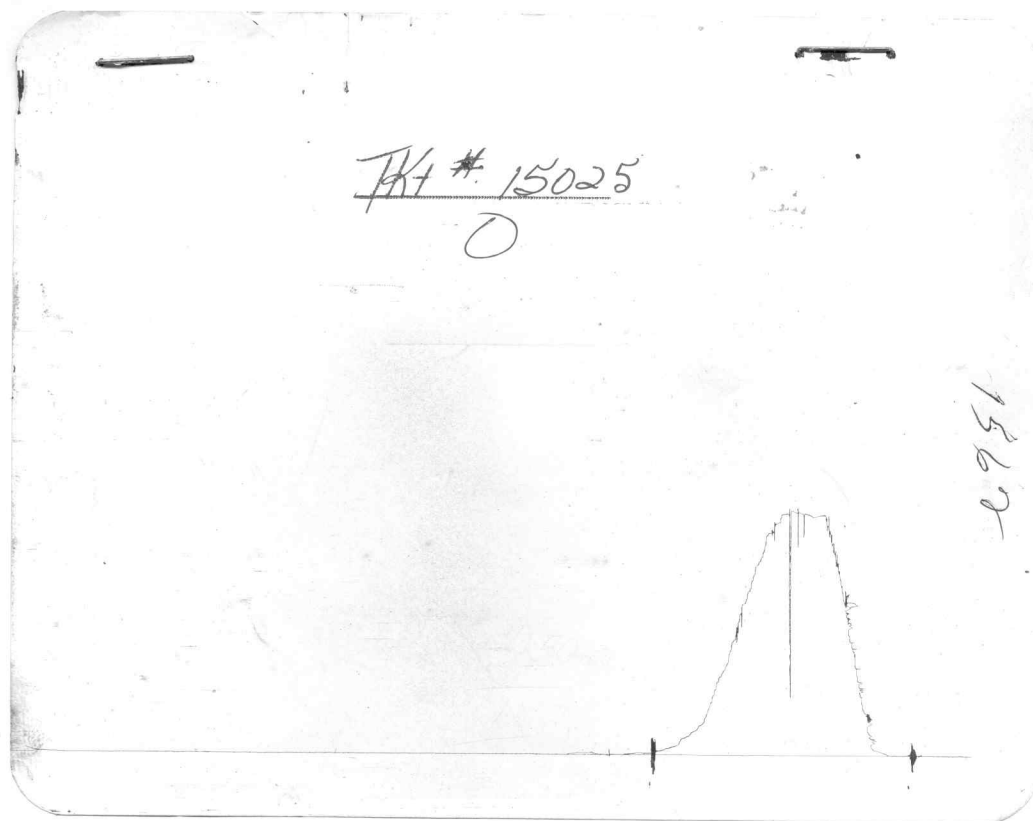
Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) A.M. Time Started Off Bottom A.M. Maximum Temperature -
Initial Hydrostatic Pressure 1281 (A) P.S.I.
Initial Flow Period Minutes (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period Minutes (D) - 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 1275 (H) P.S.I.



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud MISRUN	-	1281
(B) First Initial Flow Pressure	-	-
(C) First Final Flow Pressure	-	-
(D) Initial Closed-in Pressure	-	-
(E) Second Initial Flow Pressure	-	-
(F) Second Final Flow Pressure	-	-
(G) Final Closed-in Pressure	-	-
(H) Final Hydrostatic Mud	-	1275

PSI

PSI

PSI

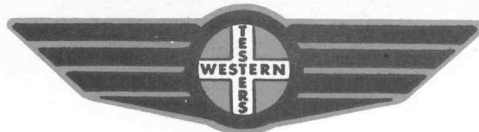
PSI

PSI

PSI

PSI

PSI



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Company A. Scott Ritchie Lease & Well No. Parkhurst #1
Elevation 1849 Kelly Bushing Formation Tarkio Sand Effective Pay - Ft. Ticket No. 15026
Date 10/ 12/81 Sec. 9 Twp. 14S Range 13W County Russell State Kansas
Test Approved by Jeff Christian Western Representative Cliff Scheuerman
Formation Test No. 3 Interval Tested from 2331 ft. to 2445 ft. Total Depth 2445 ft.
Packer Depth 2326 ft. Size 6 5/8 in. Packer Depth 2331 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2335 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 2338 ft. Recorder Number 1562 Cap. 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 41 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 13.6 cc. Drill Pipe Length 2356 I. D. 3.8 in.
Chlorides 60,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 114 ft. Size 5 1/2 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: MISRUN

Recovered ft. of

Recovered ft. of

Recovered ft. of

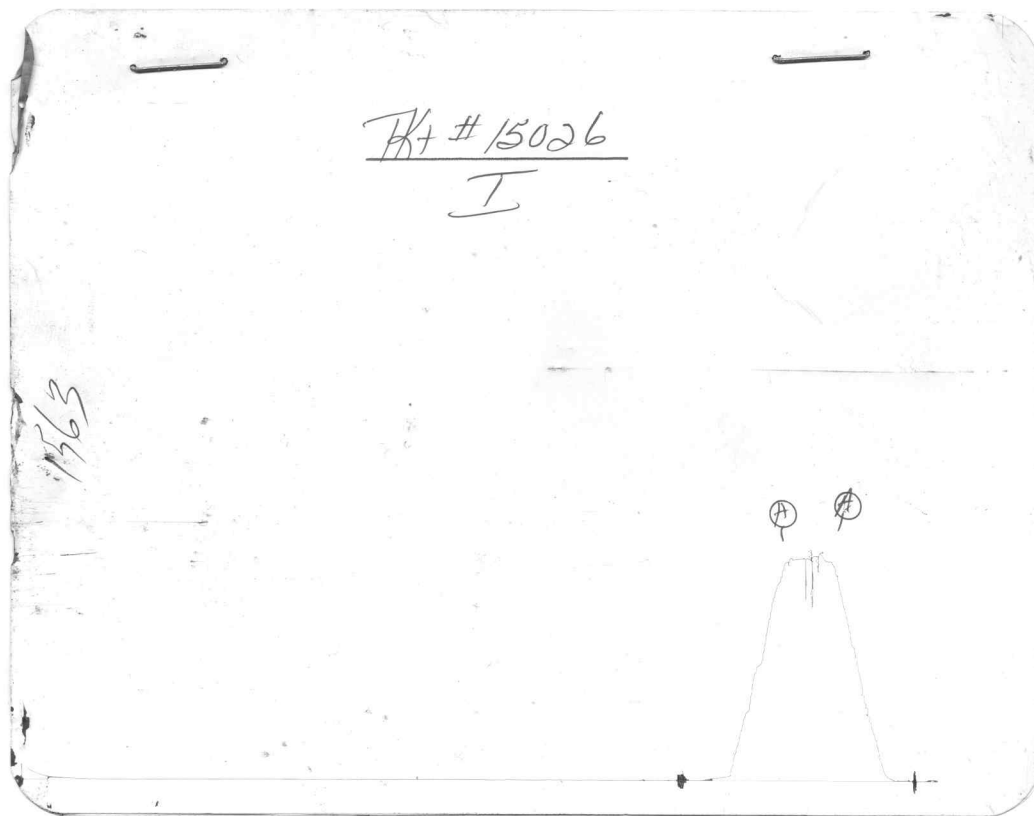
Recovered ft. of

Recovered ft. of

Remarks:

PACKER FAILURE

Time Set Packer(s) A.M. P.M. Time Started Off Bottom A.M. P.M. Maximum Temperature
Initial Hydrostatic Pressure (A) 1262 P.S.I.
Initial Flow Period Minutes (B) P.S.I. to (C) P.S.I.
Initial Closed In Period Minutes (D) 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) 1234 P.S.I.



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	MISRUN	1262	PSI
(B) First Initial Flow Pressure	-	-	PSI
(C) First Final Flow Pressure	-	-	PSI
(D) Initial Closed-in Pressure	-	-	PSI
(E) Second Initial Flow Pressure	-	-	PSI
(F) Second Final Flow Pressure	-	-	PSI
(G) Final Closed-in Pressure	-	-	PSI
(H) Final Hydrostatic Mud	-	1234	PSI



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Company <u>A. Scott Ritchie</u>		Lease & Well No. <u>Parkhurst #1</u>	
Elevation <u>-</u>	Formation <u>Tarkio Sand</u>	Effective Pay <u>-</u>	Ft. Ticket No. <u>12655</u>
Date <u>10/ 13/81</u>	Sec. <u>9</u> Twp. <u>14S</u> Range <u>13W</u>	County <u>Russell</u>	State <u>Kansas</u>
Test Approved by <u>Jeff Christian</u>		Western Representative <u>Ray Schwager-Greg Saffa</u>	
Formation Test No. <u>4</u>	Interval Tested from <u>2379</u> ft. to <u>2525</u> ft.	Total Depth <u>2525</u> ft.	
Packer Depth <u>2374</u> ft.	Size <u>6 5/8</u> in.	Packer Depth <u>-</u> ft.	Size <u>-</u> in.
Packer Depth <u>2379</u> ft.	Size <u>6 5/8</u> in.	Packer Depth <u>-</u> ft.	Size <u>-</u> in.
Depth of Selective Zone Set <u>-</u>			
Top Recorder Depth (Inside) <u>2383</u> ft.	Recorder Number <u>1562</u>	Cap. <u>3900</u>	
Bottom Recorder Depth (Outside) <u>2386</u> ft.	Recorder Number <u>1563</u>	Cap. <u>4200</u>	
Below Straddle Recorder Depth <u>-</u> ft.	Recorder Number <u>-</u>	Cap. <u>-</u>	
Drilling Contractor <u>Murfin Drilling Rig #19</u>	Drill Collar Length <u>120</u>	I. D. <u>2.2</u> in.	
Mud Type <u>premix-myl0</u> Viscosity <u>44</u>	Weight Pipe Length <u>-</u>	I. D. <u>-</u> in.	
Weight <u>9.8</u> Water Loss <u>14.8</u> cc.	Drill Pipe Length <u>2257</u>	I. D. <u>3.8</u> in.	
Chlorides <u>52,000</u> P.P.M.	Test Tool Length <u>22</u> ft.	Tool Size <u>4 1/2</u> in.	
Jars: Make <u>-</u> Serial Number <u>-</u>	Anchor Length <u>146</u> ft.	Size <u>5 1/2</u> in.	
Did Well Flow? <u>No</u> Reversed Out <u>No</u>	Surface Choke Size <u>3/4</u> in.	Bottom Choke Size <u>3/4</u> in.	
	Main Hole Size <u>7 7/8</u> in.	Tool Joint Size <u>4 1/2 FH</u> in.	
Blow: <u>Initial flow period fair building to strong blow. Final flow period strong blow throughout.</u>			
Recovered <u>320</u> ft. of	<u>gas cut muddy water</u> <u>few oil specks</u>		
Recovered <u>-</u> ft. of	<u>last 120' very gassy</u>		
Recovered <u>-</u> ft. of			
Recovered <u>-</u> ft. of			
Recovered <u>-</u> ft. of			
Remarks: <u>-</u>			
Time Set Packer(s) <u>4:45</u> A.M. P.M.	Time Started Off Bottom <u>6:45</u> A.M. P.M.	Maximum Temperature <u>101°</u>	
Initial Hydrostatic Pressure <u>1327</u> P.S.I.	(A)		
Initial Flow Period <u>30</u> Minutes	(B)	<u>156</u> P.S.I. to (C)	<u>151</u> P.S.I.
Initial Closed In Period <u>30</u> Minutes	(D)	<u>594</u> P.S.I.	
Final Flow Period <u>30</u> Minutes	(E)	<u>202</u> P.S.I. to (F)	<u>184</u> P.S.I.
Final Closed In Period <u>30</u> Minutes	(G)	<u>566</u> P.S.I.	
Final Hydrostatic Pressure <u>1302</u> P.S.I.	(H)		

WESTERN TESTING CO., INC.

Pressure Data

10/13/81

Date _____

Test Ticket No. 12655

Recorder No. 1562

Capacity 3900

Location 2383 Ft.

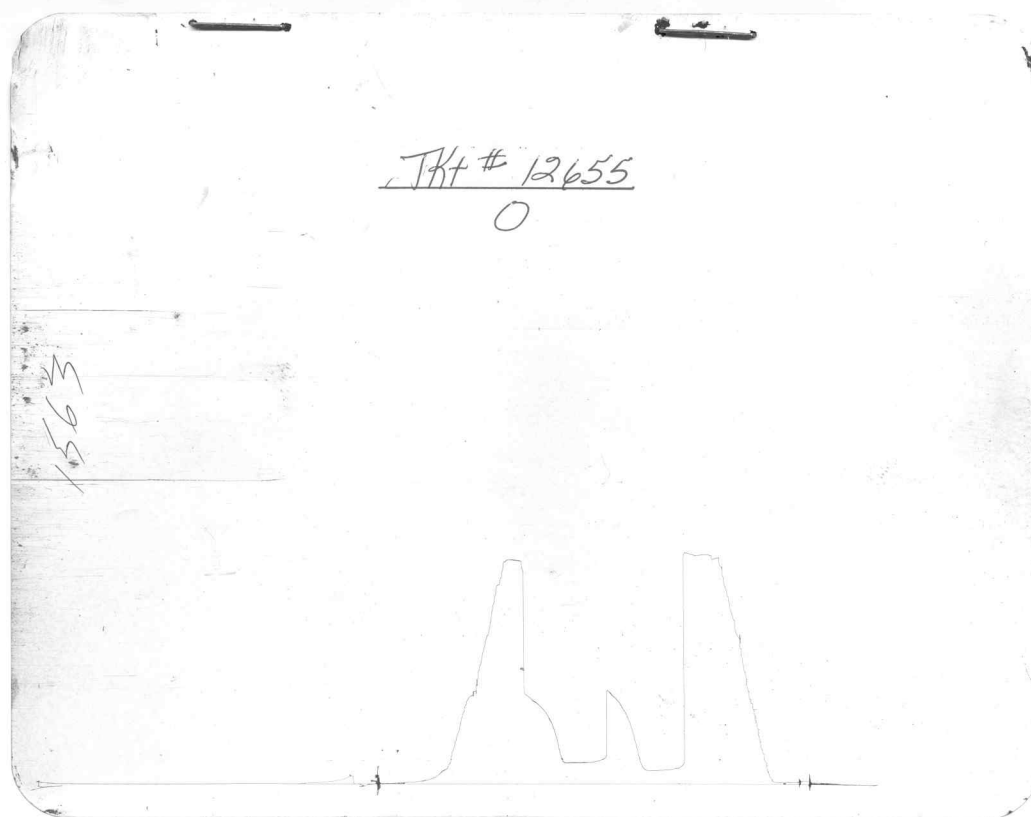
Clock No. - Elevation ---

Well Temperature 101 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1327 P.S.I.	Open Tool	4:45P M	
B First Initial Flow Pressure	156 P.S.I.	First Flow Pressure	30 Mins	30 Mins.
C First Final Flow Pressure	151 P.S.I.	Initial Closed-in Pressure	30 Mins	30 Mins.
D Initial Closed-in Pressure	594 P.S.I.	Second Flow Pressure	30 Mins	30 Mins.
E Second Initial Flow Pressure	202 P.S.I.	Final Closed-in Pressure	30 Mins	30 Mins.
F Second Final Flow Pressure	184 P.S.I.			
G Final Closed-in Pressure	566 P.S.I.			
H Final Hydrostatic Mud	1302 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	156	0	151	0	202	0	184
P 2 5	156	3	179	5	202	3	228
P 3 10	156	6	262	10	192	6	318
P 4 15	156	9	340	15	188	9	386
P 5 20	152	12	402	20	185	12	430
P 6 25	151	15	452	25	184	15	464
P 7 30	151	18	493	30	184	18	494
P 8		21	528			21	520
P 9		24	558			24	542
P10		27	580			27	556
P11		30	594			30	566
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1332	1327	PSI
(B) First Initial Flow Pressure	150	156	PSI
(C) First Final Flow Pressure	150	151	PSI
(D) Initial Closed-in Pressure	579	594	PSI
(E) Second Initial Flow Pressure	180	202	PSI
(F) Second Final Flow Pressure	180	184	PSI
(G) Final Closed-in Pressure	549	566	PSI
(H) Final Hydrostatic Mud	1302	1302	PSI



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Company A. Scott Ritchie Lease & Well No. Parkhurst #1
Elevation - Formation Tarkio Sand Effective Pay - Ft. Ticket No. 12656
Date 10/ 14/81 Sec. 9 Twp. 14S Range 13W County Russell State Kansas
Test Approved by Jeff Christian Western Representative Ray Schwager-Greg Saffa
Formation Test No. 5 Interval Tested from 2379 ft. to 2454 ft. Total Depth 2525 ft.
Packer Depth 2374 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 2379 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2383 ft. Recorder Number 1562 Cap. 3900
Bottom Recorder Depth (Outside) 2386 ft. Recorder Number 1563 Cap. 4200
Below Straddle Recorder Depth 2523 ft. Recorder Number Western Cap. -
Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length 120 I. D. 2.2 in.
Mud Type starch Viscosity 51 Weight Pipe Length - I. D. - in.
Weight 9.9 Water Loss 14. cc. Drill Pipe Length 2237 I. D. 3.8 in.
Chlorides 78,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.
Jars: Make - Serial Number - Anchor Length 75 ft. Size 5 1/2 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: Initial flow period fair blow building to strong blow. Final flow period strong blow throughout period.

Recovered 330 ft. of heavy gas cut watery mud - show of oil
Recovered - ft. of 25% mud; 10% water; 5% oil; 60% gas
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks: -

READ OUTSIDE CHART

Time Set Packer(s)	<u>6:25</u>	<u>A.M.</u>	Time Started Off Bottom	<u>8:25</u>	<u>A.M.</u>	Maximum Temperature	<u>101°</u>
Initial Hydrostatic Pressure			(A)	<u>1259</u>		P.S.I.	
Initial Flow Period			Minutes	<u>30</u>	(B)	<u>130</u>	P.S.I. to (C) <u>108</u> P.S.I.
Initial Closed In Period			Minutes	<u>30</u>	(D)	<u>481</u>	P.S.I.
Final Flow Period			Minutes	<u>30</u>	(E)	<u>144</u>	P.S.I. to (F) <u>134</u> P.S.I.
Final Closed In Period			Minutes	<u>30</u>	(G)	<u>511</u>	P.S.I.
Final Hydrostatic Pressure			(H)	<u>1238</u>		P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 10/14/81 Recorder No. 1563 Capacity 4200 Test Ticket No. 12656 Location 2386 Ft. 101
 Clock No. - Elevation --- Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1259	P.S.I.	6:25A	M
B First Initial Flow Pressure	130	P.S.I.	30	Mins.
C First Final Flow Pressure	108	P.S.I.	30	Mins.
D Initial Closed-in Pressure	481	P.S.I.	30	Mins.
E Second Initial Flow Pressure	144	P.S.I.	30	Mins.
F Second Final Flow Pressure	134	P.S.I.		
G Final Closed-in Pressure	511	P.S.I.		
H Final Hydrostatic Mud	1238	P.S.I.		

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>6</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>108</u>	<u>0</u>	<u>144</u>	<u>0</u>	<u>134</u>
P 2 <u>5</u>	<u>130</u>	<u>3</u>	<u>112</u>	<u>5</u>	<u>144</u>	<u>3</u>	<u>177</u>
P 3 <u>10</u>	<u>116</u>	<u>6</u>	<u>153</u>	<u>10</u>	<u>138</u>	<u>6</u>	<u>272</u>
P 4 <u>15</u>	<u>112</u>	<u>9</u>	<u>239</u>	<u>15</u>	<u>136</u>	<u>9</u>	<u>343</u>
P 5 <u>20</u>	<u>111</u>	<u>12</u>	<u>317</u>	<u>20</u>	<u>135</u>	<u>12</u>	<u>384</u>
P 6 <u>25</u>	<u>110</u>	<u>15</u>	<u>369</u>	<u>25</u>	<u>134</u>	<u>15</u>	<u>416</u>
P 7 <u>30</u>	<u>108</u>	<u>18</u>	<u>404</u>	<u>30</u>	<u>134</u>	<u>18</u>	<u>444</u>
P 8		<u>21</u>	<u>427</u>			<u>21</u>	<u>463</u>
P 9		<u>24</u>	<u>446</u>			<u>24</u>	<u>485</u>
P10		<u>27</u>	<u>463</u>			<u>27</u>	<u>500</u>
P11		<u>30</u>	<u>481</u>			<u>30</u>	<u>511</u>
P12							
P13							
P14							
P15							
P16							
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P19							
P20							

TK # 12656

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