

Company A. Scott Ritchie Lease & Well No. Moses-Hardman "K" #1  
 Elevation 2373 Kelly Bushing Formation Marmaton Effective Pay --- Ft. Ticket No. 3525  
 Date 2/20/80 Sec. 11 Twp 18S Range 25W County Ness State Kansas  
 Test Approved by Kris D. Kennedy Western Representative Ken Metzler

Formation Test No. 1 Interval Tested from 4064 ft. to 4130 ft. Total Depth 4130 ft.  
 Packer Depth 4059 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4064 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4121 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 4124 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Strata Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type Starch Viscosity 55 Weight Pipe Length 815 I. D. 2.76 in. XH  
 Weight 9.7 Water Loss 10.2 cc. Drill Pipe Length 3339 I. D. 3.8 in. XH  
 Chlorides 42,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 66 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: Weak blow building to fair blow (7") both openings.

Recovered 75 ft. of slightly oil specked mud  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Time Set Packer(s) 8:57 A.M. Time Started Off Bottom 11:30 P.M. Maximum Temperature 117  
 Initial Hydrostatic Pressure (A) 2232 P.S.I.  
 Initial Flow Period Minutes 30 (B) 70 P.S.I. to (C) 63 P.S.I.  
 Initial Closed In Period Minutes 30 (D) 73 P.S.I.  
 Final Flow Period Minutes 45 (E) 68 P.S.I. to (F) 70 P.S.I.  
 Final Closed In Period Minutes 42 (G) 80 P.S.I.  
 Final Hydrostatic Pressure (H) 2213 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 2/20/80

Recorder No. 1564

Capacity 3150

Test Ticket No. 3525

Clock No. ----- Elevation 2373 Kelly Bushing

Location 4121 Ft.

Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2232	P.S.I.	8:57A	M
B First Initial Flow Pressure	70	P.S.I.	30	Mins. 30
C First Final Flow Pressure	63	P.S.I.	30	Mins. 30
D Initial Closed-in Pressure	73	P.S.I.	45	Mins. 45
E Second Initial Flow Pressure	68	P.S.I.	45	Mins. 42
F Second Final Flow Pressure	70	P.S.I.		
G Final Closed-in Pressure	80	P.S.I.		
H Final Hydrostatic Mud	2213	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>9</u> Inc.		Breakdown: <u>14</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	0	63	0	68	0	70
P 2	5	3	64	5	68	3	70
P 3	10	6	64	10	68	6	71
P 4	15	9	65	15	68	9	71
P 5	20	12	66	20	68	12	72
P 6	25	15	67	25	68	15	73
P 7	30	18	68	30	68	18	73
P 8		21	69	35	68	21	74
P 9		24	71	40	69	24	75
P10		27	72	45	70	27	76
P11		30	73			30	76
P12						33	77
P13						36	78
P14						39	79
P15						42	80
P16							
P17							
P18							
P19							
P20							

TK # 3525  
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(A)

(A)

(G)

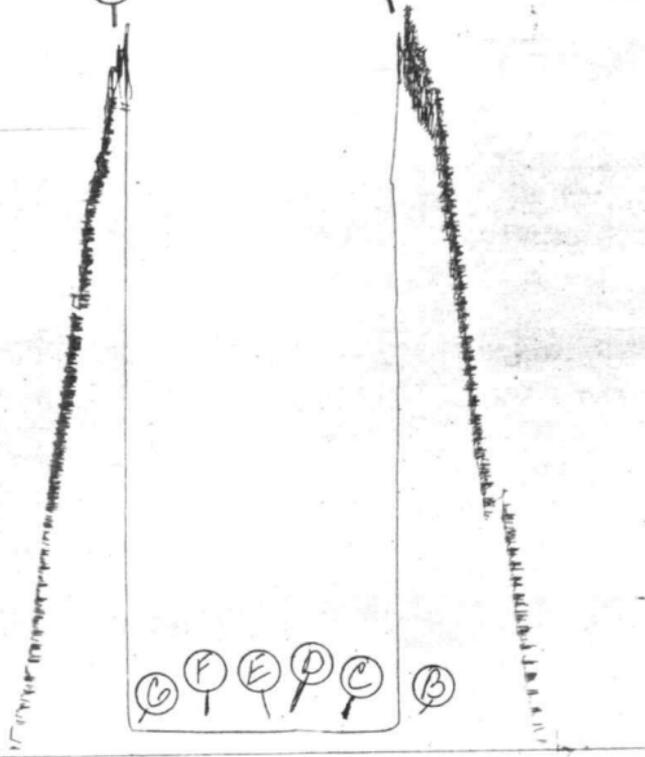
(F)

(E)

(D)

(C)

(B)



Company A. Scott Ritchie Lease & Well No. Mpses-Hardman "K" #1  
 Elevation 2373 Kelly Bushing Mississippi Effective Pay --- Ft. Ticket No. 4626  
 Date 2/21/80 Sec. 11 Twp. 18S Range 25W County Ness State Kansas  
 Test Approved by Kris W. Kennedy Western Representative Ken Metzler

Formation Test No. 2 Interval Tested from 4316 ft. to 4350 ft. Total Depth 4350 ft.  
 Packer Depth 4311 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4316 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4341 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 4344 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Strata Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type starch Viscosity 43 Weight Pipe Length 815 I. D. 2.76 in.  
 Weight 9.8 Water Loss 10.0 cc. Drill Pipe Length - I. D. 3.8 in.  
 Chlorides 40,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make NO Serial Number -- Anchor Length 34 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: Very weak blow; dead on second opening.

Recovered 30 ft. of mud with few specks of oil  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s) 1:27 ~~A.M.~~ P.M. Time Started Off Bottom 3:30 ~~A.M.~~ P.M. Maximum Temperature 118°  
 Initial Hydrostatic Pressure 2424 (A)     P.S.I.  
 Initial Flow Period 30 Minutes (B) 60 P.S.I. to (C) 39 P.S.I.  
 Initial Closed In Period 27 Minutes (D) 62 P.S.I.  
 Final Flow Period 30 Minutes (E) 49 P.S.I. to (F) 46 P.S.I.  
 Final Closed In Period 30 Minutes (G) 52 P.S.I.  
 Final Hydrostatic Pressure 2362 (H)     P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 2/21/80

Recorder No. 1564

Capacity 3150

Test Ticket No. 4626

Clock No. -----

Elevation 2373 Kelly Bushing

Location 4341 Ft.

Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2424	P.S.I.	1:27P	M
B First Initial Flow Pressure	60	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	39	P.S.I.	30	Mins. 27 Mins.
D Initial Closed-in Pressure	62	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	49	P.S.I.	30	Mins. 30 Mins.
F Second Final Flow Pressure	46	P.S.I.	30	Mins. 30 Mins.
G Final Closed-in Pressure	52	P.S.I.		
H Final Hydrostatic Mud	2362	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: 9 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

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

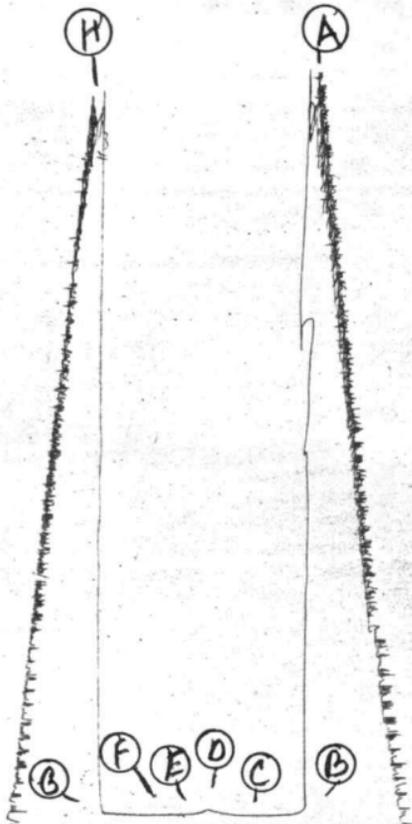
**Final Shut-In**  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>60</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>46</u>
P 2 <u>5</u>	<u>60</u>	<u>3</u>	<u>40</u>	<u>5</u>	<u>49</u>	<u>3</u>	<u>47</u>
P 3 <u>10</u>	<u>42</u>	<u>6</u>	<u>41</u>	<u>10</u>	<u>47</u>	<u>6</u>	<u>47</u>
P 4 <u>15</u>	<u>40</u>	<u>9</u>	<u>42</u>	<u>15</u>	<u>46</u>	<u>9</u>	<u>47</u>
P 5 <u>20</u>	<u>39</u>	<u>12</u>	<u>45</u>	<u>20</u>	<u>46</u>	<u>12</u>	<u>47</u>
P 6 <u>25</u>	<u>39</u>	<u>15</u>	<u>47</u>	<u>25</u>	<u>46</u>	<u>15</u>	<u>49</u>
P 7 <u>30</u>	<u>39</u>	<u>18</u>	<u>50</u>	<u>30</u>	<u>46</u>	<u>18</u>	<u>50</u>
P 8 _____	_____	<u>21</u>	<u>53</u>	_____	_____	<u>21</u>	<u>50</u>
P 9 _____	_____	<u>24</u>	<u>57</u>	_____	_____	<u>24</u>	<u>51</u>
P10 _____	_____	<u>27</u>	<u>62</u>	_____	_____	<u>27</u>	<u>52</u>
P11 _____	_____	_____	_____	_____	_____	<u>30</u>	<u>52</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

1564-

TK# 4626

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Company A. Scott Ritchie Lease & Well No. Moses-Hardman "K" #1  
 Elevation 2373 Kelly Bushing Mississippi Formation Effective Pay -- Ft. Ticket No. 4627  
 Date 2/22/80 Sec. 11 Twp. 18S Range 25W County Ness State Kansas  
 Test Approved by Kris D. Kennedy Western Representative Ken Metzler

Formation Test No. 3 Interval Tested from 4316 ft. to 4355 ft. Total Depth 4355 ft.  
 Packer Depth 4311 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4316 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4346 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 4349 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Strata Drilling Rig #1 Drill Collar Length -- I. D. - in.  
 Mud Type starch Viscosity 43 Weight Pipe Length 815 I. D. 2.76 in.  
 Weight 9.8 Water Loss 10.0 cc. Drill Pipe Length 3557 I. D. 3.8 in.  
 Chlorides 40,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make NO Serial Number - Anchor Length 39 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 - Packer Failure

Recovered 400 ft. of drilling mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of     MISRUN

Remarks:    

Time Set Packer(s) 2:12 A.M. Time Started Off Bottom 2:30 A.M. Maximum Temperature -  
P.M. P.M.  
 Initial Hydrostatic Pressure (A) 2343 P.S.I.  
 Initial Flow Period (B) -- Minutes P.S.I. to (C) -- P.S.I.  
 Initial Closed In Period (D) -- Minutes P.S.I.  
 Final Flow Period (E) -- Minutes P.S.I. to (F) -- P.S.I.  
 Final Closed In Period (G) -- Minutes P.S.I.  
 Final Hydrostatic Pressure (H) 2266 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2-22-80

Test Ticket No. 4627

Recorder No. 1564

Capacity 3150

Location 4346 Ft.

Clock No. \_\_\_\_\_ Elevation 2373 KB

Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2343</u> P.S.I.	Open Tool	<u>2:12</u> A	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	<u>2266</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0		0		0	
P 2	5	3		5		3	
P 3	10	6		10		6	
P 4	15	9		15		9	
P 5	20	12		20		12	
P 6	25	15		25		15	
P 7	30	18		30		18	
P 8	35	21		35		21	
P 9	40	24		40		24	
P10	45	27		45		27	
P11	50	30		50		30	
P12	55	33		55		33	
P13	60	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	



Company A. Scott Ritchie Lease & Well No. Moses-Hardman "K" #1  
 Elevation 2373 Kelly Bushing Formation Mississippi Effective Pay --- Ft. Ticket No. 4628  
 Date 2/22/80 Sec. 11 Twp 18S Range 25W County Ness State Kansas  
 Test Approved by Kris W. Kennedy Western Representative Ken Metzler

Formation Test No. 4 Interval Tested from 4311 ft. to 4355 ft. Total Depth 4355 ft.  
 Packer Depth 4306 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4311 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4346 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 4349 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Strata Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type starch Viscosity 43 Weight Pipe Length 815 I. D. 2.76 in.  
 Weight 9.8 Water Loss 10.0 cc. Drill Pipe Length 3557 I. D. 3.8 in.  
 Chlorides 40,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 44 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: Weak blow building to fair blow (6") first opening; weak blow (1") on second opening.

Recovered 100 ft. of oil specked mud (Top 8% oil; 1% water ; 91% mud)  
 Recovered - ft. of (Bottom: 6% oil; 94% mud)  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 5:27 A.M. Time Started Off Bottom 8:30 P.M. Maximum Temperature 127°  
 Initial Hydrostatic Pressure (A) 2395 P.S.I.  
 Initial Flow Period Minutes 30 (B) 63 P.S.I. to (C) 62 P.S.I.  
 Initial Closed In Period Minutes 30 (D) 861 P.S.I.  
 Final Flow Period Minutes 60 (E) 88 P.S.I. to (F) 85 P.S.I.  
 Final Closed In Period Minutes 60 (G) 959 P.S.I.  
 Final Hydrostatic Pressure (H) 2390 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 2/22/80 Test Ticket No. 4628  
 Recorder No. 1564 Capacity 3150 Location 4346 Ft.  
 Clock No. ----- Elevation 2373 Kelly Bushing Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2395	P.S.I.	5:27A	M
B First Initial Flow Pressure	63	P.S.I.	30	Mins.
C First Final Flow Pressure	62	P.S.I.	30	Mins.
D Initial Closed-in Pressure	861	P.S.I.	60	Mins.
E Second Initial Flow Pressure	88	P.S.I.	60	Mins.
F Second Final Flow Pressure	85	P.S.I.		
G Final Closed-in Pressure	959	P.S.I.		
H Final Hydrostatic Mud	2390	P.S.I.		

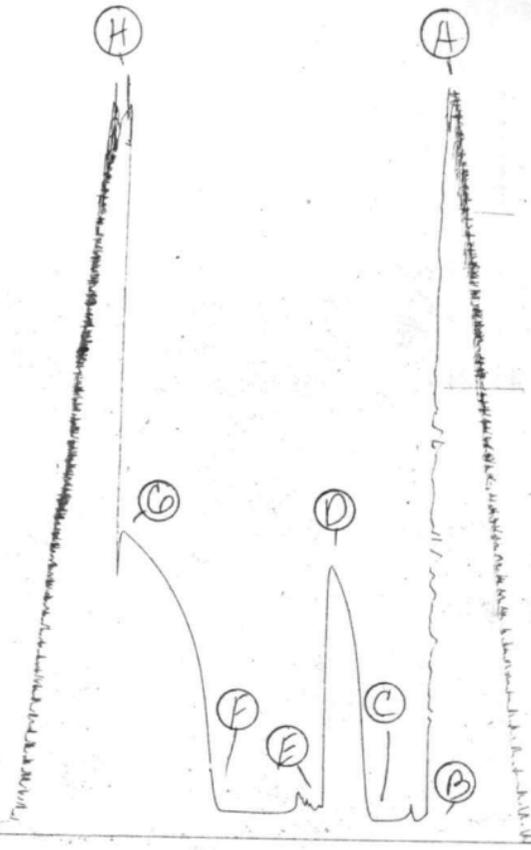
### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
P 1	6	0	10	0	12	0	20	0
P 2	5	63	3	62	5	88	3	85
P 3	10	63	6	76	10	NO PRESSURES AVAILABLE	6	113
P 4	15	87	9	176	15	NO PRESSURES AVAILABLE	9	213
P 5	20	66	12	374	20	85	12	361
P 6	25	62	15	530	25	81	15	469
P 7	30	60	18	639	30	80	18	550
P 8		62	21	712	35	80	21	608
P 9			24	761	40	81	24	656
P 10			27	801	45	82	27	695
P 11			30	839	50	83	30	728
P 12				861	55	84	33	759
P 13					60	85	36	789
P 14							39	811
P 15							42	836
P 16							45	859
P 17							48	879
P 18							51	895
P 19							54	914
P 20							57	928
							60	945
								959

24

1767 ~~1767~~

~~KT# 4623~~  
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Company A. Scott Ritchie Lease & Well No. Moses-Hardman "K" #1  
 Elevation 2373 Kelly Bushing Mississippi Formation Effective Pay --- Ft. Ticket No. 4629  
 Date 2/22/80 Sec. 11 Twp. 18S Range 25W County Ness State Kansas  
 Test Approved by Kris W. Kennedy Western Representative Ken Metzler

Formation Test No. 5 Interval Tested from 4306 ft. to 4360 ft. Total Depth 4360 ft.  
 Packer Depth 4301 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4306 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4351 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 4354 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Strata Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type starch Viscosity 50 Weight Pipe Length 815 I. D. 2.76 in.  
 Weight 9.6 Water Loss 11.8 cc. Drill Pipe Length 3557 I. D. 3.8 in.  
 Chlorides 40,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.  
 Jars: Make NO Serial Number NO Anchor Length 54 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 in.

Blow: Good blow first opening. Fair blow second opening.

Recovered 150 ft. of slightly oil specked mud (Top 5% oil; 1/2% water; 94 1/2% mud)  
 Recovered     ft. of (Bottom 2% oil; 98% mud)  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Remarks: Slid three feet to bottom.

Time Set Packer(s) 5:57 ~~AM~~ P.M. Time Started Off Bottom 8:00 ~~AM~~ P.M. Maximum Temperature 127°  
 Initial Hydrostatic Pressure (A) 2364 P.S.I.  
 Initial Flow Period Minutes 30 (B) 82 P.S.I. to (C) 77 P.S.I.  
 Initial Closed In Period Minutes 30 (D) 650 P.S.I.  
 Final Flow Period Minutes 30 (E) 109 P.S.I. to (F) 102 P.S.I.  
 Final Closed In Period Minutes 30 (G) 582 P.S.I.  
 Final Hydrostatic Pressure (H) 2345 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 2/22/80

Recorder No. 1564

Clock No. -----

Capacity 3150  
Elevation 2373 Kelly Bushing

Test Ticket No. 4629

Location 4351 Ft.

Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2364 P.S.I.	Open Tool	5:51P	M
B First Initial Flow Pressure	82 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	77 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	650 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	109 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	102 P.S.I.			
G Final Closed-in Pressure	582 P.S.I.			
H Final Hydrostatic Mud	2345 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: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

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

**Final Shut-In**  
Breakdown: 10 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>0</u>	<u>82</u>	<u>0</u>	<u>77</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>102</u>
P 2 <u>5</u>	<u>82</u>	<u>3</u>	<u>112</u>	<u>5</u>	<u>109</u>	<u>3</u>	<u>130</u>
P 3 <u>10</u>	<u>78</u>	<u>6</u>	<u>186</u>	<u>10</u>	<u>102</u>	<u>6</u>	<u>205</u>
P 4 <u>15</u>	<u>77</u>	<u>9</u>	<u>272</u>	<u>15</u>	<u>102</u>	<u>9</u>	<u>275</u>
P 5 <u>20</u>	<u>77</u>	<u>12</u>	<u>355</u>	<u>20</u>	<u>102</u>	<u>12</u>	<u>344</u>
P 6 <u>25</u>	<u>77</u>	<u>15</u>	<u>422</u>	<u>25</u>	<u>102</u>	<u>15</u>	<u>391</u>
P 7 <u>30</u>	<u>77</u>	<u>18</u>	<u>481</u>	<u>30</u>	<u>102</u>	<u>18</u>	<u>442</u>
P 8 _____	_____	<u>21</u>	<u>533</u>	_____	_____	<u>21</u>	<u>476</u>
P 9 _____	_____	<u>24</u>	<u>576</u>	_____	_____	<u>24</u>	<u>512</u>
P10 _____	_____	<u>27</u>	<u>612</u>	_____	_____	<u>27</u>	<u>545</u>
P11 _____	_____	<u>30</u>	<u>650</u>	_____	_____	<u>30</u>	<u>582</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

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