

Company Pickrell Drilling Company Lease & Well No. Koehn 'H' #1
Elevation 2309 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 14753
Date 4/ 15/82 Sec. 33 Twp. 29S Range 19W County Kiowa State Kansas
Test Approved by Bill Klaver Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 5013 ft. to 5070 ft. Total Depth 5070 ft.

Packer Depth 5008 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 5013 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 5027 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 5030 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Pickrell Drilling Rig #1 Drill Collar Length 155 I. D. 2 1/4 in.

Mud Type - Viscosity 50 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 16.4 cc. Drill Pipe Length 4829 I. D. 3.8 in.

Chlorides 21,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WIC Serial Number 410 Anchor Length 57 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: Weak blow throughout initial flow period. No blow on first half on final flow period.
Flushed tool. Weak blow on second half of period.

Recovered 130 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:20 ~~A.M.~~ P.M. Time Started Off Bottom 3:50 ~~A.M.~~ P.M. Maximum Temperature 130°

Initial Hydrostatic Pressure 2594 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 83 P.S.I. to (C) 83 P.S.I.

Initial Closed In Period 60 Minutes (D) 194 P.S.I.

Final Flow Period 60 Minutes (E) 97 P.S.I. to (F) 125 P.S.I.

Final Closed In Period 60 Minutes (G) 182 P.S.I.

Final Hydrostatic Pressure 2510 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

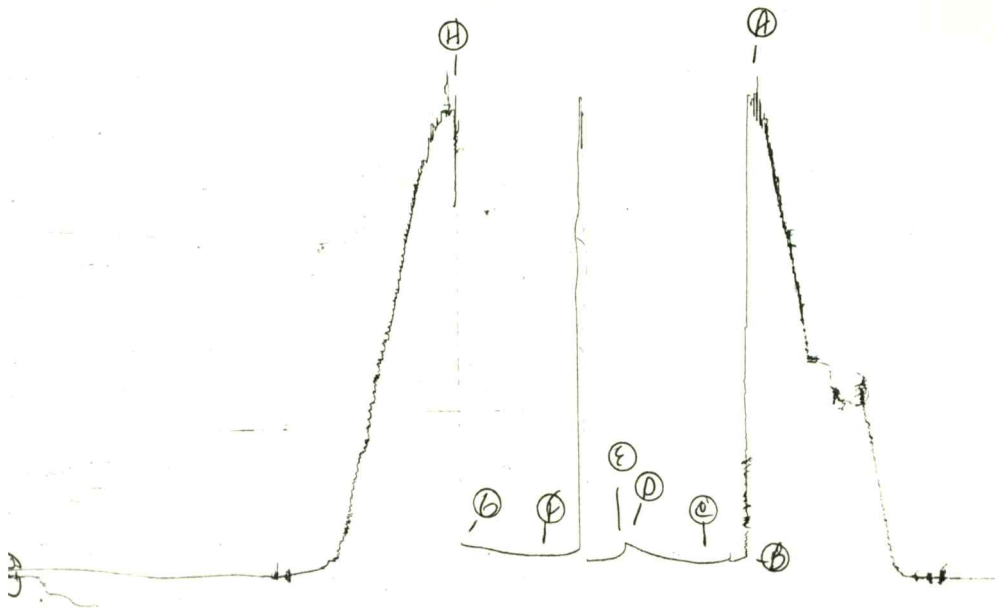
Date 4/1/582 Recorder No. 2607 Capacity 4150 Test Ticket No. 14753
 Clock No. --- Elevation 2309 Kelly Bushing Location 5027 Ft. 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2594	P.S.I.	12:20P	M
B First Initial Flow Pressure	83	P.S.I.	30	Mins. 30
C First Final Flow Pressure	83	P.S.I.	60	Mins. 60
D Initial Closed-in Pressure	194	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	97	P.S.I.	60	Mins. 60
F Second Final Flow Pressure	125	P.S.I.		
G Final Closed-in Pressure	182	P.S.I.		
H Final Hydrostatic Mud	2510	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>20</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>	83	<u>0</u>	83	<u>0</u>	97	<u>0</u>	125
P 2 <u>5</u>	83	<u>3</u>	84	<u>5</u>	97	<u>3</u>	126
P 3 <u>10</u>	83	<u>6</u>	86	<u>10</u>	97	<u>6</u>	126
P 4 <u>15</u>	83	<u>9</u>	88	<u>15</u>	97	<u>9</u>	125
P 5 <u>20</u>	83	<u>12</u>	93	<u>20</u>	97	<u>12</u>	127
P 6 <u>25</u>	83	<u>15</u>	95	<u>25</u>	97	<u>15</u>	130
P 7 <u>30</u>	83	<u>18</u>	98	<u>30</u>	FLUSHED TOOL	<u>18</u>	131
P 8		<u>21</u>	101	<u>35</u>	154	<u>21</u>	134
P 9		<u>24</u>	105	<u>40</u>	137	<u>24</u>	136
P10		<u>27</u>	109	<u>45</u>	129	<u>27</u>	141
P11		<u>30</u>	114	<u>50</u>	127	<u>30</u>	143
P12		<u>33</u>	122	<u>55</u>	126	<u>33</u>	149
P13		<u>36</u>	126	<u>60</u>	125	<u>36</u>	154
P14		<u>39</u>	133			<u>39</u>	159
P15		<u>42</u>	143			<u>42</u>	164
P16		<u>45</u>	148			<u>45</u>	167
P17		<u>48</u>	159			<u>48</u>	168
P18		<u>51</u>	171			<u>51</u>	173
P19		<u>54</u>	182			<u>54</u>	174
P20		<u>57</u>	192			<u>57</u>	178
		<u>60</u>	194			<u>60</u>	182

W # 14753
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Company Pickrell Drilling Company Lease & Well No. Koehn 'H' #1
 Elevation 2309 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 14754
 Date 4/16/82 Sec. 33 Twp. 29S Range 19W County Kiowa State Kansas
 Test Approved by Bill Klaver Western Representative Jim Wondra
 Formation Test No. 2 Interval Tested from 5054 ft. to 5112 ft. Total Depth 5112 ft.
 Packer Depth 5049 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5054 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 5069 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 5072 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Pickrell Drilling Rig #1 Drill Collar Length 155 I. D. 2 1/4 in.
 Mud Type - Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 16.4 cc. Drill Pipe Length 4870 I. D. 3.8 in.
 Chlorides 21,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 58 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: Weak blow throughout initial flow period. No blow on final flow period.

Recovered 70 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:40 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:25 ~~P.M.~~ ^{A.M.} Maximum Temperature 130°
 Initial Hydrostatic Pressure 2640 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 75 P.S.I. to (C) 83 P.S.I.
 Initial Closed In Period 60 Minutes (D) 301 P.S.I.
 Final Flow Period 15 Minutes (E) 108 P.S.I. to (F) 131 P.S.I.
 Final Closed In Period -- Minutes (G) -- P.S.I.
 Final Hydrostatic Pressure 2586 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 4/16/82 Test Ticket No. 14754

Recorder No. 2607 Capacity 4150 Location 5069 Ft.

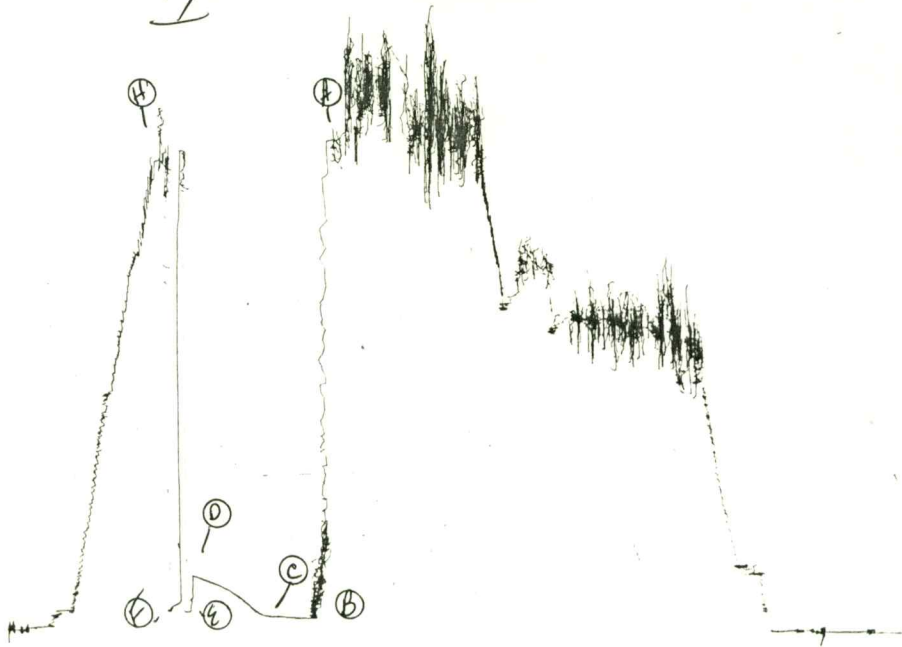
Clock No. -- Elevation 2309 Kelly Bushing Well Temperature 130 °F

Point	Pressure		Time Given 9:40A	Time Computed
A Initial Hydrostatic Mud	2640	P.S.I.		
B First Initial Flow Pressure	75	P.S.I.	30	30
C First Final Flow Pressure	83	P.S.I.	60	60
D Initial Closed-in Pressure	301	P.S.I.	15	15
E Second Initial Flow Pressure	108	P.S.I.	--	--
F Second Final Flow Pressure	131	P.S.I.		
G Final Closed-in Pressure	--	P.S.I.		
H Final Hydrostatic Mud	2586	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>0</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>75</u>	<u>0</u>	<u>83</u>	<u>0</u>	<u>108</u>		
P 2 <u>5</u>	<u>75</u>	<u>3</u>	<u>84</u>	<u>5</u>	<u>108</u>		
P 3 <u>10</u>	<u>76</u>	<u>6</u>	<u>87</u>	<u>10</u>	<u>154</u>		
P 4 <u>15</u>	<u>77</u>	<u>9</u>	<u>92</u>	<u>15</u>	<u>131</u>		
P 5 <u>20</u>	<u>79</u>	<u>12</u>	<u>103</u>				
P 6 <u>25</u>	<u>82</u>	<u>15</u>	<u>118</u>				
P 7 <u>30</u>	<u>83</u>	<u>18</u>	<u>137</u>				
P 8		<u>21</u>	<u>156</u>				
P 9		<u>24</u>	<u>177</u>				
P10		<u>27</u>	<u>193</u>				
P11		<u>30</u>	<u>205</u>				
P12		<u>33</u>	<u>222</u>				
P13		<u>36</u>	<u>233</u>				
P14		<u>39</u>	<u>246</u>				
P15		<u>42</u>	<u>255</u>				
P16		<u>45</u>	<u>265</u>				
P17		<u>48</u>	<u>271</u>				
P18		<u>51</u>	<u>279</u>				
P19		<u>54</u>	<u>287</u>				
P20		<u>57</u>	<u>295</u>				
		<u>60</u>	<u>301</u>				

Sta # 14754
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Company Pickrell Drilling Company Lease & Well No. Koehn "H" #1
 Elevation 2309 Kelly Bushing Mississippi Effective Pay - Ft. Ticket No. 14755
 Date 4/17/82 Sec. 33 Twp. 29S Range 15W County Kiowa State Kansas
 Test Approved by Bill Klaver Western Representative Jim Wondra
 Formation Test No. 3 Interval Tested from 5112 ft. to 5132 ft. Total Depth 5132 ft.
 Packer Depth 5107 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5112 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5122 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 5125 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Pickrell Rig #1 Drill Collar Length 155 I. D. 2 1/4 in.
 Mud Type - Viscosity 56 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 15.2 cc. Drill Pipe Length 4928 I. D. 3.8 in.
 Chlorides 21,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 20 ft. Size 5 1/2 OD in.
 Did Well Flow? Yes 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. Gas to surface in 7 minutes on preflow. See attached sheet for gas measurements.

Recovered 60 ft. of gas cut mud - few specks of oil

Recovered 180 ft. of gas cut mud - slightly oil cut

Recovered 120 ft. of gas & oil cut mud - 25% oil

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:40 A.M. P.M. Time Started Off Bottom 5:10 A.M. P.M. Maximum Temperature 131
 Initial Hydrostatic Pressure 2616 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 190 P.S.I. to (C) 195 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1505 P.S.I.
 Final Flow Period 90 Minutes (E) 237 P.S.I. to (F) 243 P.S.I.
 Final Closed In Period 93 Minutes (G) 1434 P.S.I.
 Final Hydrostatic Pressure 2605 P.S.I. (H)

GAS FLOW REPORT

Date 4/17/82 Ticket 14755 Company Pickrell Drilling Company
 Well Name and No. Koehn 'H' #1 Dst No. 3 Interval Tested 5112-5132
 County Kiowa State Kansas Sec. 33 Twp. 29S Rg. 15W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
Gas to surface in 7 minutes						
	10 Min	50" water	1½" Orifice			493,000 C.F.P.D.
	20 Min	3 PSIG	1½" Orifice			654,000 C.F.P.D.
	30 Min	4 PSIG	1½" Orifice			764,000 C.F.P.D.

SECOND FLOW						
	5 Min	3 PSIG	1½" Orifice			654,000 C.F.P.D.
	10 Min	4 PSIG	1½" Orifice			764,000 C.F.P.D.
	20 Min	5 PSIG	1½" Orifice			863,000 C.F.P.D.
	30 MIN	6 PSIG	1½" Orifice			953,000 C.F.P.D.
	40 Min	6 PSIG	1½" Orifice			953,000 C.F.P.D.
	50 Min	6 PSIG	1½" Orifice			953,000 C.F.P.D.
	60 Min	7 PSIG	1½" Orifice			1,036,000 C.F.P.D.
	70 Min	7 PSIG	1½" Orifice			1,036,000 C.F.P.D.
	80 Min	7 PSIG	1½" Orifice			1,036,000 C.F.P.D.
	90 Min	7 PSIG	1½" Orifice			1,036,000 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 4/17/82

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Pickrell Drilling Company

Authorized by Bill Klaver

WESTERN TESTING CO., INC.

Pressure Data

Date 4/17/82 Recorder No. 2607 Capacity 4150 Test Ticket No. 14755
 Location 5122 Ft.
 Clock No. - Elevation 2309 Kelly Bushing Well Temperature 131 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2616 P.S.I.	12:40A	M
B First Initial Flow Pressure	190 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	195 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1505 P.S.I.	90 Mins.	90 Mins.
E Second Initial Flow Pressure	237 P.S.I.	90 Mins.	93 Mins.
F Second Final Flow Pressure	243 P.S.I.		
G Final Closed-in Pressure	1434 P.S.I.		
H Final Hydrostatic Mud	2605 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>18</u> Inc.		Breakdown: <u>31</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>190</u>	<u>0</u>	<u>195</u>	<u>0</u>	<u>237</u>	<u>0</u>	<u>243</u>
P 2 <u>5</u>	<u>190</u>	<u>3</u>	<u>1376</u>	<u>5</u>	<u>237</u>	<u>3</u>	<u>1245</u>
P 3 <u>10</u>	<u>190</u>	<u>6</u>	<u>1424</u>	<u>10</u>	<u>237</u>	<u>6</u>	<u>1309</u>
P 4 <u>15</u>	<u>190</u>	<u>9</u>	<u>1442</u>	<u>15</u>	<u>237</u>	<u>9</u>	<u>1338</u>
P 5 <u>20</u>	<u>190</u>	<u>12</u>	<u>1455</u>	<u>20</u>	<u>237</u>	<u>12</u>	<u>1353</u>
P 6 <u>25</u>	<u>194</u>	<u>15</u>	<u>1466</u>	<u>25</u>	<u>238</u>	<u>15</u>	<u>1369</u>
P 7 <u>30</u>	<u>195</u>	<u>18</u>	<u>1473</u>	<u>30</u>	<u>239</u>	<u>18</u>	<u>1380</u>
P 8		<u>21</u>	<u>1483</u>	<u>35</u>	<u>239</u>	<u>21</u>	<u>1391</u>
P 9		<u>24</u>	<u>1488</u>	<u>40</u>	<u>240</u>	<u>24</u>	<u>1396</u>
P10		<u>27</u>	<u>1494</u>	<u>45</u>	<u>240</u>	<u>27</u>	<u>1401</u>
P11		<u>1 30 2</u>	<u>1496</u>	<u>50</u>	<u>239</u>	<u>30</u>	<u>1406</u>
P12		<u>33</u>	<u>1498</u>	<u>55</u>	<u>238</u>	<u>33</u>	<u>1408</u>
P13		<u>2 36 1.83</u>	<u>1499</u>	<u>60</u>	<u>238</u>	<u>36</u>	<u>1410</u>
P14		<u>39</u>	<u>1500</u>	<u>65</u>	<u>240</u>	<u>39</u>	<u>1412</u>
P15		<u>3 42 1.71</u>	<u>1501</u>	<u>70</u>	<u>241</u>	<u>42</u>	<u>1414</u>
P16		<u>45</u>	<u>1502</u>	<u>75</u>	<u>242</u>	<u>45</u>	<u>1416</u>
P17		<u>4 48 1.63</u>	<u>1503</u>	<u>80</u>	<u>242</u>	<u>48</u>	<u>1418</u>
P18		<u>51</u>	<u>1504</u>	<u>85</u>	<u>243</u>	<u>51</u>	<u>1420</u>
P19		<u>5 54 1.55</u>	<u>1504</u>	<u>90</u>	<u>243</u>	<u>54</u>	<u>1422</u>
P20		<u>57</u>	<u>1505</u>			<u>57</u>	<u>1424</u>
		<u>6 60 1.5</u>	<u>1505</u>			<u>60 2.5</u>	<u>1426</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 4/17/82 Test Ticket No. 14755
 Recorder No. 2607 Capacity 4150 Location 5122 Ft.
 Clock No. - Elevation 2309 Kelly Bushing Well Temperature 131 °F

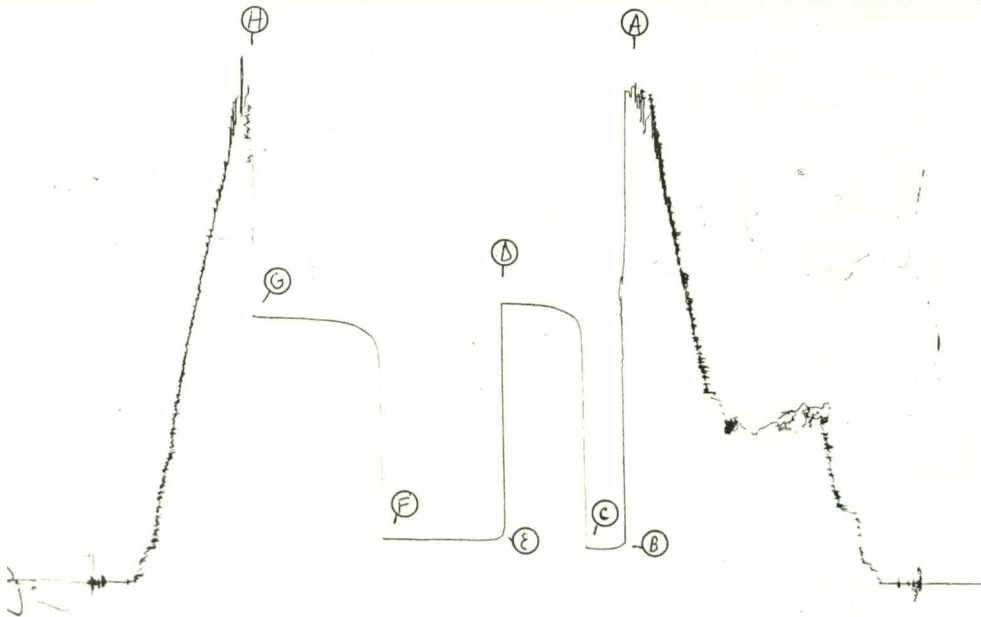
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2616	P.S.I.	12:40A	M
B First Initial Flow Pressure	190	P.S.I.	30	Mins. 30
C First Final Flow Pressure	195	P.S.I.	60	Mins. 60
D Initial Closed-in Pressure	1505	P.S.I.	90	Mins. 90
E Second Initial Flow Pressure	237	P.S.I.	90	Mins. 93
F Second Final Flow Pressure	243	P.S.I.		
G Final Closed-in Pressure	1434	P.S.I.		
H Final Hydrostatic Mud	2605	P.S.I.		
Open Tool				
First Flow Pressure				
Initial Closed-in Pressure				
Second Flow Pressure				
Final Closed-in Pressure				

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>18</u> Inc.		Breakdown: <u>31</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						63	1426
P 2						1 66 <u>2.36</u>	1427
P 3						69	1428
P 4						2 72 <u>2.25</u>	1428
P 5						75	1429
P 6						3 78 <u>2.15</u>	1429
P 7						81	1430
P 8						84	1431
P 9						4 87 <u>2.03</u>	1431
P10						5 90 <u>2</u>	1432
P11						6 93 <u>1.96</u>	1434
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT #. 14755

I



Company Pickrell Drilling Company Lease & Well No. Koehn "H" #1
Elevation 2309 Kelly Bushing Mississippi Effective Pay - Ft. Ticket No. 14756
Date 4/17/82 Sec. 33 Twp. 29S Range 15W County Kiowa State Kansas
Test Approved by Bill Klaver Western Representative Jim Wondra

Formation Test No. 4 Interval Tested from 5129 ft. to 5152 ft. Total Depth 5152 ft.

Packer Depth 5124 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 5129 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5142 ft. Recorder Number 2607 Cap 4150

Bottom Recorder Depth (Outside) 5145 ft. Recorder Number 3351 Cap 4000

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

Drilling Contractor Pickrell Rig #1 Drill Collar Length 155 I. D. 2 1/2 in.

Mud Type - Viscosity 52 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 22.0 cc. Drill Pipe Length 4945 I. D. 3.8 in.

Chlorides 25,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WIC Serial Number 410 Anchor Length 23 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: Weak increased to strong blow on initial flow period. Strong blow throughout final flow period.

Recovered 255 ft. of oil cut mud - 25% oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:20 ~~A.M.~~ P.M. Time Started Off Bottom 12:20 ~~A.M.~~ P.M. Maximum Temperature 131

Initial Hydrostatic Pressure (A) 2630 P.S.I.

Initial Flow Period Minutes 60 (B) 105 P.S.I. to (C) 105 P.S.I.

Initial Closed In Period Minutes 90 (D) 1436 P.S.I.

Final Flow Period Minutes 60 (E) 129 P.S.I. to (F) 129 P.S.I.

Final Closed In Period Minutes 93 (G) 1437 P.S.I.

Final Hydrostatic Pressure (H) 2590 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/17/82 Recorder No. 2607 Capacity 4150 Location 5142 Ft.
 Clock No. - Elevation 2309 Kelly Bushing Well Temperature 131 °F
 Test Ticket No. 14756

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2630	P.S.I.	7:20P	M
B First Initial Flow Pressure	105	P.S.I.	60	Mins.
C First Final Flow Pressure	105	P.S.I.	90	Mins.
D Initial Closed-in Pressure	1436	P.S.I.	60	Mins.
E Second Initial Flow Pressure	129	P.S.I.	90	Mins.
F Second Final Flow Pressure	129	P.S.I.		
G Final Closed-in Pressure	1437	P.S.I.		
H Final Hydrostatic Mud	2590	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>30</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>31</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	105	0	105	0	129	0	129
P 2 5	105	3	138	5	129	3	286
P 3 10	105	6	228	10	129	6	440
P 4 15	105	9	345	15	129	9	606
P 5 20	105	12	474	20	129	12	762
P 6 25	105	15	618	25	129	15	892
P 7 30	105	18	754	30	129	18	1005
P 8 35	105	21	864	35	129	21	1092
P 9 40	105	24	960	40	129	24	1159
P10 45	105	27	1040	45	129	27	1209
P11 50	105	30	1112	50	129	30	1249
P12 55	105	33	1167	55	129	33	1280
P13 60	105	36	1209	60	129	36	1305
P14		39	1245			39	1324
P15		42	1275			42	1346
P16		45	1302			45	1359
P17		48	1321			48	1374
P18		51	1336			51	1382
P19		54	1355			54	1390
P20		57	1371			57	1397
WTC - 4		60	1380			60	1402

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WESTERN TESTING CO., INC.

Pressure Data

Date 4/17/82 Test Ticket No. 14756
 Recorder No. 2607 Capacity 4150 Location 5142 Ft.
 Clock No. - Elevation 2309 Kelly Bushing Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2630</u>	P.S.I.	<u>7:20P</u>	<u>M</u>
B First Initial Flow Pressure	<u>105</u>	P.S.I.	<u>60</u>	<u>60</u>
C First Final Flow Pressure	<u>105</u>	P.S.I.	<u>90</u>	<u>90</u>
D Initial Closed-in Pressure	<u>1436</u>	P.S.I.	<u>60</u>	<u>60</u>
E Second Initial Flow Pressure	<u>129</u>	P.S.I.	<u>90</u>	<u>93</u>
F Second Final Flow Pressure	<u>129</u>	P.S.I.		
G Final Closed-in Pressure	<u>1437</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2590</u>	P.S.I.		
Open Tool				
First Flow Pressure				
Initial Closed-in Pressure				
Second Flow Pressure				
Final Closed-in Pressure				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>30</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>31</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		63	1388			63	1410
P 2		66	1399			66	1414
P 3		69	1406			69	1418
P 4		72	1411			72	1421
P 5		75	1416			75	1423
P 6		78	1419			78	1426
P 7		81	1424			81	1429
P 8		84	1429			84	1431
P 9		87	1435			87	1433
P10		90	1436			90	1436
P11						93	1437
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 14756

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