



Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company J. Mark Richardson Lease & Well No. #1 French

Elevation 2099 Kelly Bush. Formation Ft. Riley Effective Pay - Ft. Ticket No. 22386

Date 11-30-76 Sec. 4 Twp. 27S Range 16W County Kiowa State Kansas

Test Approved by J. Mark Richardson Western Representative Curtis D. Odell

Formation Test No. 1 O.K.  Misrun  Interval Tested From 2438' to 2488' Total Depth 2488'

Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 2433 Ft. Size 6 3/4 Bottom Packer Depth 2438 Ft. Size 6 3/4

Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth  Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 50 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2443 Ft. Clock No. 10168 Depth 2446 Ft. Clock No. 6894

Top Make Kuster Cap. 4200 No. 1051 Inside  Outside  Bottom Make Kuster Cap. 4000 No. 3659 Inside  Outside

Below Straddle: Depth  Ft. Rec. No.  Clock No.  Inside  Outside

Time Set Packer 11:52A. M

Tool Open I.F.P. From 12:00P M. to 12:30P M. - Hr. 30 Min. From (B) 77 P.S.I. To (C) 55 P.S.I.

Tool Closed I.C.I.P. From 12:30P M. to 1:00P M. - Hr. 30 Min (D) 353 P.S.I.

Tool Open F.F.P. From 1:00P M. to 2:00P M. - Hr. 60 Min. From (E) 82 P.S.I. To (F) 72 P.S.I.

Tool Closed F.C.I.P. From 2:00P M. to 2:30P M. - Hr. 30 Min. (G) 286 P.S.I.

Initial Hydrostatic Pressure (A) 1303 P.S.I. Final Hydrostatic Pressure (H) 1271 P.S.I. Maximum Temp. 88

INFORMATION

BLOW Weak blow increasing to a fair blow throughout initial flow period. Fair blow increasing to a good, steady blow throughout final flow period.

Did Well Flow  Yes  No Recovery Total Ft. 70' of mud with some oil specks.

Reversed Out  Yes  No Mud Type Salt Viscosity 44 Weight 9.8 Water Loss 6.6 cc. Chlorides 90,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 In. Make WTC Ser. No. 408

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Gabbert-Jones, Inc. Length Drill Pipe? 2185 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe  Ft. I.D. Weight Pipe  In. Tool Joint Size  In. Length Drill Collars 263 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 Length D.S.T. Tool 78 Ft.

Remarks:

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

Date 11-30-76 Test Ticket No. 22386  
 Recorder No. 1051 Capacity 4200 Location 2443 Ft.  
 Clock No. 10168 Elevation 2099 Kelly Bushing Well Temperature 88 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1303</u> P.S.I.	Open Tool	<u>11:52A.</u> M	
B First Initial Flow Pressure	<u>77</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>55</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>353</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>72</u> P.S.I.			
G Final Closed-in Pressure	<u>286</u> P.S.I.			
H Final Hydrostatic Mud	<u>1271</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 7 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.

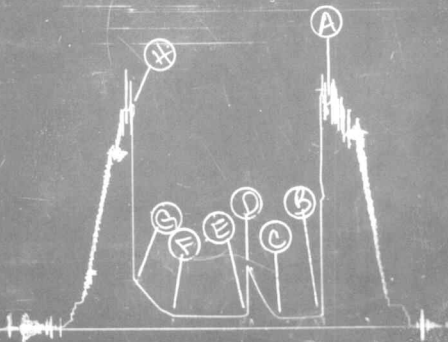
**Second Flow Pressure**  
 Breakdown: 12 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Final Shut-In**  
 Breakdown: 11 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>77</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>72</u>
P 2 <u>5</u>	<u>60</u>	<u>3</u>	<u>62</u>	<u>5</u>	<u>67</u>	<u>3</u>	<u>82</u>
P 3 <u>10</u>	<u>58</u>	<u>6</u>	<u>77</u>	<u>10</u>	<u>67</u>	<u>6</u>	<u>92</u>
P 4 <u>15</u>	<u>55</u>	<u>9</u>	<u>108</u>	<u>15</u>	<u>67</u>	<u>9</u>	<u>101</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>140</u>	<u>20</u>	<u>67</u>	<u>12</u>	<u>116</u>
P 6 <u>25</u>	<u>55</u>	<u>15</u>	<u>183</u>	<u>25</u>	<u>67</u>	<u>15</u>	<u>142</u>
P 7 <u>30</u>	<u>55</u>	<u>18</u>	<u>224</u>	<u>30</u>	<u>68</u>	<u>18</u>	<u>170</u>
P 8 <u>35</u>	<u>55</u>	<u>21</u>	<u>273</u>	<u>35</u>	<u>69</u>	<u>21</u>	<u>196</u>
P 9 _____		<u>24</u>	<u>325</u>	<u>40</u>	<u>71</u>	<u>24</u>	<u>219</u>
P10 _____		<u>27</u>	<u>353</u>	<u>45</u>	<u>72</u>	<u>27</u>	<u>247</u>
P11 _____				<u>50</u>	<u>72</u>	<u>30</u>	<u>275</u>
P12 _____				<u>55</u>	<u>72</u>	<u>33</u>	<u>286</u>
P13 _____				<u>60</u>	<u>72</u>		
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

TKT # 22386

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Company J. Mark Richardson Lease & Well No. French #1  
 Elevation 2099 Kelly Bush Formation - Effective Pay - Ft. Ticket No. #22387  
 Date 12-2-76 Sec. 4 Twp. 27S Range 16W County Kiowa State Kansas  
 Test Approved by J. Mark Richardson Western Representative Curtis Odell  
 Formation Test No. 2 O.K.  Misrun  Interval Tested From 3222' to 3309' Total Depth 3309'  
 Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 3217 Ft. Size 6 3/4 Bottom Packer Depth 3222 Ft. Size 6 3/4  
 Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth - Ft. Size -  
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 87 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
 RECORDERS Depth 3229 Ft. Clock No. 10168 Depth 3232 Ft. Clock No. 6894  
 Top Make Kuster Cap. 4200 No. 1051  Inside  Outside Bottom Make Kuster Cap. 4000 No. 3659  Inside  Outside  
 Below Straddle: Depth - Rec. No. - Clock No. -  Inside  Outside Depth - Ft. Rec. No. - Clock No. -  Inside  Outside  
 Time Set Packer 10:43 P M  
 Tool Open I.F.P. From 10:43 P.M. to 11:15 P.M. - Hr. 30 Min. From (B) 71 P.S.I. To (C) 50 P.S.I.  
 Tool Closed I.C.I.P. From 11:15 P.M. to 11:45 P.M. - Hr. 30 Min (D) 1034 P.S.I.  
 Tool Open F.F.P. From 11:45 P.M. to 12:45 A.M. - Hr. 60 Min. From (E) 88 P.S.I. To (F) 62 P.S.I.  
 Tool Closed F.C.I.P. From 12:45 A.M. to 1:15 A.M. - Hr. 30 Min. (G) 110 P.S.I.  
 Initial Hydrostatic Pressure (A) 1675 P.S.I. Final Hydrostatic Pressure (H) 1630 P.S.I. Maximum Temp. 106

**INFORMATION**

BLOW Fair, steady blow approximately 2" under water.  
 Did Well Flow - Yes  No  Recovery Total Ft. 60' mud.  
 Reversed Out - Yes  No  Mud Type salt Viscosity 41 Weight 9.6 Water Loss 6.6 cc. Chlorides 62,000 P.P.M.  
 EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 4 1/2 In. Make Hyd Ser. No. 408  
 Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -  
 DRILLING CONTRACTOR G & J, Inc. Length Drill Pipe? 2931 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.  
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 263 Ft. I.D. Drill Collars 2 1/4 In.  
 Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 115 Ft.

Remarks:

False Initial Shut-in.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12-2-76

Test Ticket No. #22387

Recorder No. 1051

Capacity 4200

Location 3229 Ft.

Clock No. 10168

Elevation 2099 Kelly Bushing

Well Temperature 106 °F

**Point**

**Pressure**

**Time Given**

**Time Computed**

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1675</u> P.S.I.	Open Tool	<u>10:43</u> P M	
B First Initial Flow Pressure	<u>71</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1034</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>88</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>62</u> P.S.I.			
G Final Closed-in Pressure	<u>110</u> P.S.I.			
H Final Hydrostatic Mud	<u>1630</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: 10 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.

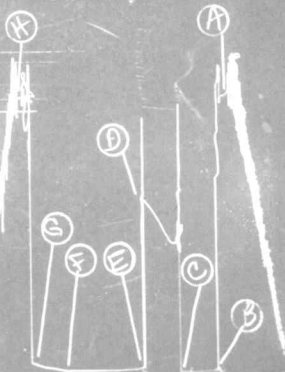
**Final Shut-In**

Breakdown: 9 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>71</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>88</u>	<u>0</u>	<u>62</u>
P 2 <u>5</u>	<u>54</u>	<u>3</u>	<u>804</u>	<u>5</u>	<u>68</u>	<u>3</u>	<u>65</u>
P 3 <u>10</u>	<u>52</u>	<u>6</u>	<u>790</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>70</u>
P 4 <u>15</u>	<u>50</u>	<u>9</u>	<u>804</u>	<u>15</u>	<u>63</u>	<u>9</u>	<u>75</u>
P 5 <u>20</u>	<u>50</u>	<u>12</u>	<u>840</u>	<u>20</u>	<u>62</u>	<u>12</u>	<u>78</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>885</u>	<u>25</u>	<u>62</u>	<u>15</u>	<u>82</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>928</u>	<u>30</u>	<u>62</u>	<u>18</u>	<u>87</u>
P 8 _____	_____	<u>21</u>	<u>966</u>	<u>35</u>	<u>62</u>	<u>21</u>	<u>95</u>
P 9 _____	_____	<u>24</u>	<u>996</u>	<u>40</u>	<u>62</u>	<u>24</u>	<u>103</u>
P10 _____	_____	<u>27</u>	<u>1025</u>	<u>45</u>	<u>62</u>	<u>27</u>	<u>110</u>
P11 _____	_____	<u>30</u>	<u>1034</u>	<u>50</u>	<u>62</u>	_____	_____
P12 _____	_____	_____	_____	<u>55</u>	<u>62</u>	_____	_____
P13 _____	_____	_____	_____	<u>60</u>	<u>62</u>	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

TKT #22387

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Company J. Mark Richardson Lease & Well No. French #1  
 Elevation 2099 Kelly Bushing Formation - Effective Pay - Ft. Ticket No. #25628  
 Date 12-4-76 Sec. 4 Twp. 28S Range 16W County Kiowa State Kansas  
 Test Approved by J. Mark Richardson Western Representative Lonnie Cline  
 Formation Test No. 3 O.K.  Misrun - Interval Tested From 3812' to 3866' Total Depth 3866'  
 Size Main Hole 77/8 Rat Hole - Conv.  B.T. - Damaged - Yes  No Conv.  B.T. - Damaged - Yes  No  
 Top Packer Depth 3807 Ft. Size 6 3/4 Bottom Packer Depth 3812 Ft. Size 6 3/4  
 Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -  
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 28 Ft. Size 4 1/2 H90 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
 RECORDERS Depth 3858 Ft. Clock No. 6799 Depth 3861 Ft. Clock No. 9103  
 Top Make Kuster Cap. 4150 No. 2606 Inside Outside Bottom Make Kuster Cap. 4000 No. 3351 Inside Outside  
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside  
 Time Set Packer 2:27 P M  
 Tool Open I.F.P. From 2:30P M. to 3:00P M. - Hr. 30 Min. From (B) 55 P.S.I. To (C) 182 P.S.I.  
 Tool Closed I.C.I.P. From 3:00P M. to 3:30P M. - Hr. 30 Min (D) 1442 P.S.I.  
 Tool Open F.F.P. From 3:30P M. to 5:00P M. 1 Hr. 30 Min. From (E) 210 P.S.I. To (F) 415 P.S.I.  
 Tool Closed F.C.I.P. From 5:00P M. to 5:30P M. - Hr. 30 Min. (G) 1439 P.S.I.  
 Initial Hydrostatic Pressure (A) 2095 P.S.I. Final Hydrostatic Pressure (H) 2038 P.S.I. Maximum Temp. 114

**INFORMATION**

BLOW Weak blow - built to strong blow throughout test.  
 Did Well Flow - Yes  No Recovery Total Ft. 732' salt water. 62' slight gas-cut watery mud.  
 Reversed Out - Yes  No Mud Type salt Viscosity 35 Weight 9.6 Water Loss - cc. Chlorides 41,000 P.P.M.  
 EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 3 In. Make MTC Ser. No. 402  
 Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -  
 DRILLING CONTRACTOR Gabbert-Jones, Inc. Rig # 9 Length Drill Pipe? 3548 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 FH In.  
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 236 Ft. I.D. Drill Collars 2 1/2 In.  
 Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 82 Ft.

Remarks:

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12-4-76 Test Ticket No. #25628  
 Recorder No. 2606 Capacity 4150 Location 3858 Ft.  
 Clock No. 6799 Elevation 2099 Kelly Bushing Well Temperature 114 °F

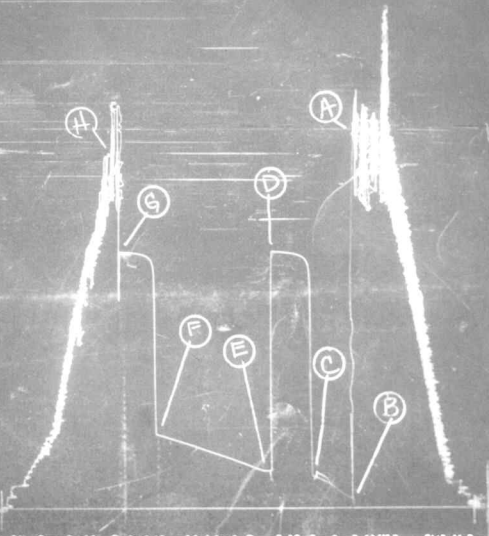
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2095</u> P.S.I.	Open Tool	<u>2:27 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>55</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>182</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1442</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>210</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>415</u> P.S.I.			
G Final Closed-in Pressure	<u>1439</u> P.S.I.			
H Final Hydrostatic Mud	<u>2038</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>10</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>6</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>55</u>	<u>0</u>	<u>182</u>	<u>0</u>	<u>210</u>	<u>0</u>	<u>415</u>
P 2 <u>5</u>	<u>70</u>	<u>3</u>	<u>1347</u>	<u>5</u>	<u>209</u>	<u>3</u>	<u>1316</u>
P 3 <u>10</u>	<u>93</u>	<u>6</u>	<u>1406</u>	<u>10</u>	<u>218</u>	<u>6</u>	<u>1401</u>
P 4 <u>15</u>	<u>125</u>	<u>9</u>	<u>1418</u>	<u>15</u>	<u>233</u>	<u>9</u>	<u>1418</u>
P 5 <u>20</u>	<u>144</u>	<u>12</u>	<u>1424</u>	<u>20</u>	<u>248</u>	<u>12</u>	<u>1424</u>
P 6 <u>25</u>	<u>161</u>	<u>15</u>	<u>1431</u>	<u>25</u>	<u>260</u>	<u>15</u>	<u>1429</u>
P 7 <u>30</u>	<u>182</u>	<u>18</u>	<u>1434</u>	<u>30</u>	<u>273</u>	<u>18</u>	<u>1433</u>
P 8		<u>21</u>	<u>1437</u>	<u>35</u>	<u>286</u>	<u>21</u>	<u>1435</u>
P 9		<u>24</u>	<u>1439</u>	<u>40</u>	<u>300</u>	<u>24</u>	<u>1438</u>
P10		<u>27</u>	<u>1441</u>	<u>45</u>	<u>311</u>	<u>27</u>	<u>1439</u>
P11		<u>30</u>	<u>1442</u>	<u>50</u>	<u>323</u>	<u>30</u>	<u>1439</u>
P12				<u>55</u>	<u>337</u>		
P13				<u>60</u>	<u>347</u>		
P14				<u>65</u>	<u>460</u>		
P15				<u>70</u>	<u>471</u>		
P16				<u>75</u>	<u>382</u>		
P17				<u>80</u>	<u>392</u>		
P18				<u>85</u>	<u>407</u>		
P19				<u>90</u>	<u>415</u>		
P20							

TKT #25628

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Company J. Mark Richardson Lease & Well No. French #1  
 Elevation 2094 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. #25629  
 Date 12-6-76 Sec. 4 Twp. 27S Range 16W County Kiowa State Kansas  
 Test Approved by J. Mark Richardson Western Representative Lonnie Cline  
 Formation Test No. 4 O.K.  Misrun  Interval Tested From 4046' to 4121' Total Depth 4121'  
 Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 4041 Ft. Size 6 3/4 Bottom Packer Depth 4046 Ft. Size 6 3/4  
 Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth  Ft. Size   
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 75 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
 RECORDERS Depth 4113 Ft. Clock No. 6799 Depth 4116 Ft. Clock No. 9103  
 Top Make Kuster Cap. 4150 No. 2606  Inside  Outside Bottom Make Kuster Cap. 4000 No. 3351  Inside  Outside  
 Below Straddle: Depth  Rec. No.  Clock No.   Inside  Outside Depth  Ft. Rec. No.  Clock No.   Inside  Outside  
 Time Set Packer 1:57 A  M  
 Tool Open I.F.P. From 2:00A M. to 2:30A M.  Hr. 30 Min. From (B) 76 P.S.I. To (C) 426 P.S.I.  
 Tool Closed I.C.I.P. From 2:30A M. to 3:00A M.  Hr. 30 Min (D) 1382 P.S.I.  
 Tool Open F.F.P. From 3:00A M. to 4:00A M.  Hr. 60 Min. From (E) 523 P.S.I. To (F) 815 P.S.I.  
 Tool Closed F.C.I.P. From 4:00A M. to 4:30A M.  Hr. 30 Min. (G) 1368 P.S.I.  
 Initial Hydrostatic Pressure (A) 2114 P.S.I. Final Hydrostatic Pressure (H) 2089 P.S.I. Maximum Temp. 132

**INFORMATION**

BLOW Strong blow throughout test.  
 Did Well Flow  Yes  No Recovery Total Ft. 1380' salt water.  
 Reversed Out  Yes  No Mud Type salt Viscosity 36 Weight 95 Water Loss 32 cc cc. Chlorides 34,000 P.P.M.  
 EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 3 In. Make WTC Ser. No. 402  
 Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -  
 DRILLING CONTRACTOR Gabbert & Jones, Inc. Length Drill Pipe? - Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 FH In.  
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 236 Ft. I.D. Drill Collars 2 1/4 In.  
 Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 54 Ft.

Remarks:

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

Date 12-6-76

Test Ticket No. #25629

Recorder No. 2606 Capacity 4150 Location 4113 Ft.

Clock No. 6799 Elevation 2094 Kelly Bushing Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2114</u> P.S.I.	Open Tool	<u>1:57</u> A M	
B First Initial Flow Pressure	<u>76</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>426</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1382</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>523</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>815</u> P.S.I.			
G Final Closed-in Pressure	<u>1368</u> P.S.I.			
H Final Hydrostatic Mud	<u>2089</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: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

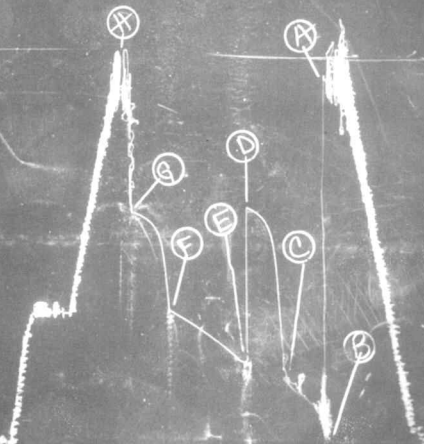
**Second Flow Pressure**  
Breakdown: 12 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 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>76</u>	<u>0</u>	<u>426</u>	<u>0</u>	<u>523</u>	<u>0</u>	<u>815</u>
P 2 <u>5</u>	<u>214</u>	<u>3</u>	<u>606</u>	<u>5</u>	<u>525</u>	<u>3</u>	<u>1029</u>
P 3 <u>10</u>	<u>278</u>	<u>6</u>	<u>898</u>	<u>10</u>	<u>556</u>	<u>6</u>	<u>1186</u>
P 4 <u>15</u>	<u>303</u>	<u>9</u>	<u>1140</u>	<u>15</u>	<u>589</u>	<u>9</u>	<u>1257</u>
P 5 <u>20</u>	<u>330</u>	<u>12</u>	<u>1240</u>	<u>20</u>	<u>619</u>	<u>12</u>	<u>1293</u>
P 6 <u>25</u>	<u>392</u>	<u>15</u>	<u>1297</u>	<u>25</u>	<u>646</u>	<u>15</u>	<u>1314</u>
P 7 <u>30</u>	<u>426</u>	<u>18</u>	<u>1322</u>	<u>30</u>	<u>673</u>	<u>18</u>	<u>1330</u>
P 8		<u>21</u>	<u>1345</u>	<u>35</u>	<u>698</u>	<u>21</u>	<u>1343</u>
P 9		<u>24</u>	<u>1362</u>	<u>40</u>	<u>720</u>	<u>24</u>	<u>1355</u>
P10		<u>27</u>	<u>1374</u>	<u>45</u>	<u>743</u>	<u>27</u>	<u>1364</u>
P11		<u>30</u>	<u>1382</u>	<u>50</u>	<u>768</u>	<u>30</u>	<u>1368</u>
P12				<u>55</u>	<u>789</u>		
P13				<u>60</u>	<u>815</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT #25629

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Home Office: Wichita, Kansas 67201  
 P. O. Box 1599 (316) 838-0601

Company J. Mark Richardson Lease & Well No. French #1  
 Elevation 2094 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. #25630  
 Date 12-8-76 Sec. 4 Twp. 27S Range 16W County Kiowa State Kansas  
 Test Approved by J. Mark Richardson Western Representative Lonnie Cline

Formation Test No. 5 O.K.  Misrun  Interval Tested From 4465' to 4515' Total Depth 4515'  
 Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 4460 Ft. Size 6 3/4 Bottom Packer Depth 4465 Ft. Size 6 3/4  
 Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth  Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 50 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
 RECORDERS Depth 4497 Ft. Clock No. 6799 Depth 4500 Ft. Clock No. 9103  
 Top Make Kuster Cap. 4150 No. 2606 Inside  Outside  Bottom Make Kuster Cap. 4000 No. 3351 Inside  Outside   
 Below Straddle: Depth  Rec. No.  Clock No.  Inside  Outside  Depth  Ft. Rec. No.  Clock No.  Inside  Outside

Time Set Packer 1:30 P M  
 Tool Open I.F.P. From 1:38P M. to 2:03P M. - Hr. 30 Min. From (B) 81 P.S.I. To (C) 67 P.S.I.  
 Tool Closed I.C.I.P. From 2:03P M. to 2:38P M. - Hr. 30 Min (D) 80 P.S.I.  
 Tool Open F.F.P. From 2:38P M. to 3:38P M. - Hr. 60 Min. From (E) 75 P.S.I. To (F) 84 P.S.I.  
 Tool Closed F.C.I.P. From 3:38P M. to 4:03P M. - Hr. 30 Min. (G) 96 P.S.I.  
 Initial Hydrostatic Pressure (A) 2328 P.S.I. Final Hydrostatic Pressure (H) 2328 P.S.I. Maximum Temp. 132

**INFORMATION**

BLOW Weak blow first opening. Weak blow second opening. Died in 15 minutes.  
Flushed tool.

Did Well Flow - Yes  No  Recovery Total Ft. 68' very slight gas-cut mud.

Reversed Out - Yes  No  Mud Type salt Viscosity 48 Weight 9.6 Water Loss 9.8 cc. Chlorides 34,000 P.P.M.  
 EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint yes Jars: Size 3 In. Make WTC Ser. No. 402  
 Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Gabbert & Jones Drlg. Length Drill Pipe? 3801 Ft. I.D. Drill Pipe 3.9 In. Tool Joint Size 4 1/2 FH In.  
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 264 Ft. I.D. Drill Collars 2 1/4 In.  
 Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 78 Ft.

Remarks:  
Flushed Tool.

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

Date 12-8-76 Test Ticket No. #25630  
 Recorder No. 2606 Capacity 4150 Location 4497 Ft.  
 Clock No. 6799 Elevation 2094 Kelly Bushing Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2328</u>	P.S.I.	<u>1:30</u> P M	
B First Initial Flow Pressure	<u>81</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>67</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>80</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>75</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>84</u>	P.S.I.		
G Final Closed-in Pressure	<u>96</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2328</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>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>9</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>0</u>	<u>67</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>84</u>
P 2	<u>5</u>	<u>3</u>	<u>68</u>	<u>5</u>	<u>73</u>	<u>3</u>	<u>84</u>
P 3	<u>10</u>	<u>6</u>	<u>69</u>	<u>10</u>	<u>73</u>	<u>6</u>	<u>85</u>
P 4	<u>15</u>	<u>9</u>	<u>71</u>	<u>15</u>	<u>73</u>	<u>9</u>	<u>86</u>
P 5	<u>20</u>	<u>12</u>	<u>73</u>	<u>20</u>	<u>73</u>	<u>12</u>	<u>87</u>
P 6	<u>25</u>	<u>15</u>	<u>75</u>	<u>25</u>	<u>73</u>	<u>15</u>	<u>89</u>
P 7	<u>30</u>	<u>18</u>	<u>76</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>90</u>
P 8		<u>21</u>	<u>77</u>	<u>35</u>	<u>Flushed Tool</u>	<u>21</u>	<u>92</u>
P 9		<u>24</u>	<u>79</u>	<u>40</u>	<u>85</u>	<u>24</u>	<u>94</u>
P10		<u>27</u>	<u>79</u>	<u>45</u>	<u>84</u>	<u>27</u>	<u>96</u>
P11		<u>30</u>	<u>80</u>	<u>50</u>	<u>84</u>		
P12				<u>55</u>	<u>84</u>		
P13				<u>60</u>	<u>84</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

JKT # 25630

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