

Company Mull Drilling Company, Inc. Lease & Well No. Fanning #1
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 12072
 Date 8/25/81 Sec. 11 Twp. 34S Range 9W County Harper State Kansas
 Test Approved by Vernon C. Schrag Western Representative Jim Wondra
 Formation Test No. 1 Interval Tested from 4553 ft. to 4582 ft. Total Depth 4582 ft.
 Packer Depth 4548 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4553 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4572 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4575 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Trans-Pac Drilling Rig #1 Drill Collar Length 467 I. D. 2 1/4 in.
 Mud Type Premix-Monpac Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 12.0 cc. Drill Pipe Length - I. D. 3.8 in.
 Chlorides 12,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 29 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.

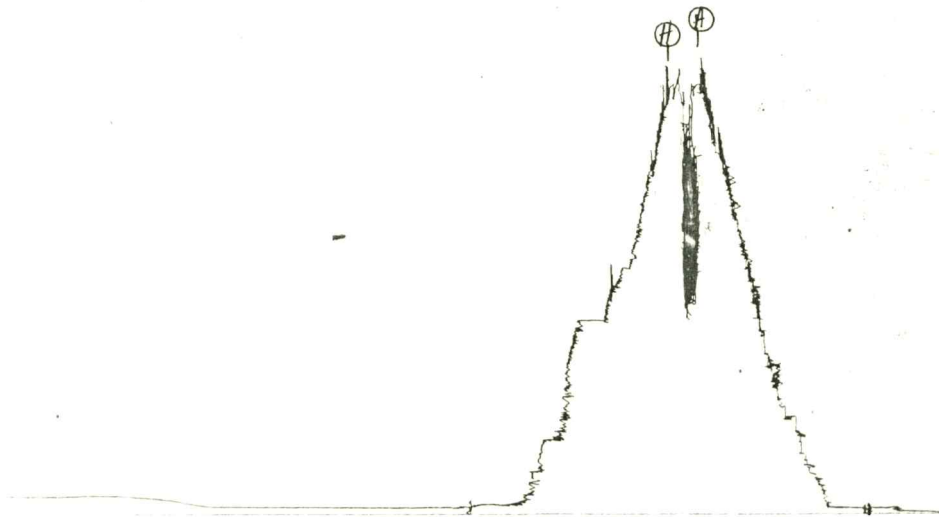
Blow: _____

 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: Packer Failure MISRUN

Time Set Packer(s) 12:45 A.M. Time Started Off Bottom - P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure _____ (A) 2293 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) 2283 P.S.I.

PKT # 13072

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Company Mull Drilling Company, Inc. Lease & Well No. Fanning #1
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 12073
 Date 8/26/81 Sec. 11 Twp. 34S Range 9W County Harper State Kansas
 Test Approved by Vernon C. Schrag Western Representative Jim Wondra
 Formation Test No. 2 Interval Tested from 4519 ft. to 4582 ft. Total Depth 4582 ft.
 Packer Depth 4514 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4519 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4540 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4543 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Trans-Pac Drilling Rig #1 Drill Collar Length 436 I. D. 2 1/4 in.
 Mud Type Premix-Monpac Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 12.0 cc. Drill Pipe Length 4062 I. D. 3.8 in.
 Chlorides 12,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 63 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 flow periods. Gas to surface in 25 minutes on initial flow period
see attached sheet for gas measurements.

Recovered 240 ft. of gas cut mud
 Recovered 310 ft. of gas cut mud (slightly oil cut)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 3:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 123
 Initial Hydrostatic Pressure (A) 2257 P.S.I.
 Initial Flow Period Minutes 30 (B) 264 P.S.I. to (C) 241 P.S.I.
 Initial Closed In Period Minutes 48 (D) 1668 P.S.I.
 Final Flow Period Minutes 60 (E) 228 P.S.I. to (F) 233 P.S.I.
 Final Closed In Period Minutes 69 (G) 1731 P.S.I.
 Final Hydrostatic Pressure (H) 2215 P.S.I.

GAS FLOW REPORT

Date 8/26/81 Ticket 12073 Company Mull Drilling Company, Inc.
 Well Name and No. Farming #1 Dst No. 2 Interval Tested 4519-4582
 County Harper State Kansas Sec. 11 Twp. 34S Rg. 9W

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
Gas to surface in 25 minutes PRE FLOW						
	30 Min	7" water	3/4" Orifice			37,400 C.F.P.D.

SECOND FLOW						
	10 Min	11" water	1" Orifice			85,900 C.F.P.D.
	20 Min	9" water	1" Orifice			77,500 C.F.P.D.
	30 Min	9" water	1" Orifice			77,500 C.F.P.D.
	40 Min	10" water	1" Orifice			81,600 C.F.P.D.
	50 Min	10" water	1" Orifice			81,600 C.F.P.D.
	60 Min	10" water	1" Orifice			81,600 C.F.P.D.

GAS BOTTLE

Serial No. Date Bottle Filled Date to be Invoiced 8/26/81

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 Mull Drilling Company, Inc.
 Authorized by Vernon C. Schrag

WESTERN TESTING CO., INC.

Pressure Data

Date 8/26/81 Recorder No. 2607 Capacity 4150 Test Ticket No. 12073
 Location 4540 Ft. Elevation - Well Temperature 123 °F

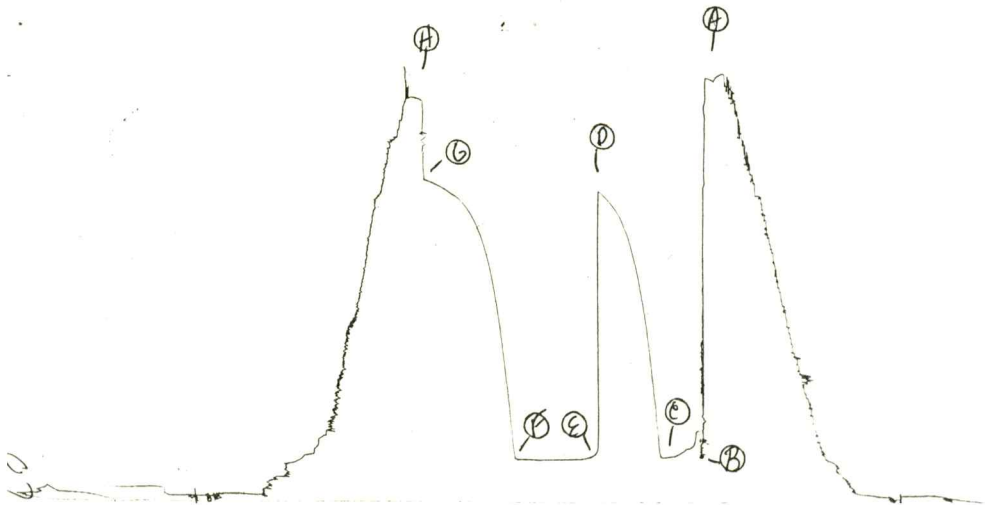
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2257</u>	P.S.I.	<u>3:30A</u>	<u>M</u>
B First Initial Flow Pressure	<u>264</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u>
C First Final Flow Pressure	<u>241</u>	P.S.I.	<u>45</u>	<u>Mins. 48</u>
D Initial Closed-in Pressure	<u>1668</u>	P.S.I.	<u>60</u>	<u>Mins. 60</u>
E Second Initial Flow Pressure	<u>228</u>	P.S.I.	<u>60</u>	<u>Mins. 69</u>
F Second Final Flow Pressure	<u>233</u>	P.S.I.		
G Final Closed-in Pressure	<u>1731</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2215</u>	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>16</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>23</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>264</u>	<u>0</u>	<u>241</u>	<u>0</u>	<u>228</u>	<u>0</u>	<u>233</u>
P 2 <u>5</u>	<u>383</u>	<u>3</u>	<u>434</u>	<u>5</u>	<u>228</u>	<u>3</u>	<u>398</u>
P 3 <u>10</u>	<u>292</u>	<u>6</u>	<u>633</u>	<u>10</u>	<u>228</u>	<u>6</u>	<u>575</u>
P 4 <u>15</u>	<u>275</u>	<u>9</u>	<u>829</u>	<u>15</u>	<u>228</u>	<u>9</u>	<u>745</u>
P 5 <u>20</u>	<u>252</u>	<u>12</u>	<u>983</u>	<u>20</u>	<u>228</u>	<u>12</u>	<u>910</u>
P 6 <u>25</u>	<u>246</u>	<u>15</u>	<u>1102</u>	<u>25</u>	<u>228</u>	<u>15</u>	<u>1055</u>
P 7 <u>30</u>	<u>241</u>	<u>18</u>	<u>1211</u>	<u>30</u>	<u>228</u>	<u>18</u>	<u>1171</u>
P 8		<u>21</u>	<u>1299</u>	<u>35</u>	<u>228</u>	<u>21</u>	<u>1272</u>
P 9		<u>24</u>	<u>1382</u>	<u>40</u>	<u>228</u>	<u>24</u>	<u>1351</u>
P10		<u>27</u>	<u>1445</u>	<u>45</u>	<u>229</u>	<u>27</u>	<u>1416</u>
P11		<u>30</u>	<u>1500</u>	<u>50</u>	<u>231</u>	<u>30</u>	<u>1471</u>
P12		<u>33</u>	<u>1542</u>	<u>55</u>	<u>232</u>	<u>33</u>	<u>1519</u>
P13		<u>36</u>	<u>1578</u>	<u>60</u>	<u>233</u>	<u>36</u>	<u>1557</u>
P14		<u>39</u>	<u>1605</u>			<u>39</u>	<u>1590</u>
P15		<u>42</u>	<u>1630</u>			<u>42</u>	<u>1616</u>
P16		<u>45</u>	<u>1653</u>			<u>45</u>	<u>1637</u>
P17		<u>48</u>	<u>1668</u>			<u>48</u>	<u>1651</u>
P18						<u>51</u>	<u>1666</u>
P19						<u>54</u>	<u>1681</u>
P20						<u>57</u>	<u>1693</u>
						<u>60</u>	<u>1702</u>
						<u>63</u>	<u>1714</u>
						<u>66</u>	<u>1723</u>

TKT # 12073
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Company Mull Drilling Company, Inc. Lease & Well No. Fanning #1
 Elevation -- Formation Mississippi Effective Pay - Ft. Ticket No. 12074
 Date 8/ 27/81 Sec. 11 Twp. 34S Range 9W County Harper State Kansas
 Test Approved by Vernon C. Schrag Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 4582 ft. to 4592 ft. Total Depth 4592 ft.
 Packer Depth 4577 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4582 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4584 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4587 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Trans-Pac Drlg. Rig #1 Drill Collar Length 467 I. D. 2 1/4 in.
 Mud Type premix-monpac Viscosity 45 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 16.0 cc. Drill Pipe Length 4094 I. D. 3.8 in.
 Chlorides 20,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 10 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 first flow period. Weak blow; died in seventy minutes on final flow period.

Recovered 110 ft. of thick drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid tool thirteen feet to bottom.

READ OUTSIDE RECORDER

Time Set Packer(s) 5:40 A.M. Time Started Off Bottom 9:10 P.M. Maximum Temperature -
 Initial Hydrostatic Pressure 2181 P.S.I. (A)
 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 2151 P.S.I. (H)

TK# 12074

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Company Mull Drilling Company, Inc. Lease & Well No. Fanning #1
 Elevation -- Formation Mississippi Effective Pay - Ft. Ticket No. 12075
 Date 8/ 28/81 Sec. 11 Twp. 34S Range 9W County Harper State Kansas
 Test Approved by Vernon C. Schrag Western Representative Jim Wondra

Formation Test No. 4 Interval Tested from 4582 ft. to 4592 ft. Total Depth 4592 ft.
 Packer Depth 4577 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4582 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4584 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4587 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Trans-Pac Drlg. Rig #1 Drill Collar Length 467 I. D. 2 1/4 in.
 Mud Type premix-monpac Viscosity 54 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 4094 I. D. 3.8 in.
 Chlorides 23,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 10 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 flow periods.

Recovered 35 ft. of drilling mud (few specks of oil)
 Recovered 90 ft. of water (Chlorides 33,000 ppm)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid tool five feet to bottom.

Time Set Packer(s) 4:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 7:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 123°
 Initial Hydrostatic Pressure (A) 2373 P.S.I.
 Initial Flow Period Minutes 30 (B) 116 P.S.I. to (C) 116 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1521 P.S.I.
 Final Flow Period Minutes 60 (E) 144 P.S.I. to (F) 144 P.S.I.
 Final Closed In Period Minutes 72 (G) 1515 P.S.I.
 Final Hydrostatic Pressure (H) 2342 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/28/81 Recorder No. 2607 Capacity 4150 Test Ticket No. 12075
 Location 4584 Fr. 123 °F
 Clock No. - Elevation - Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2373	P.S.I.	4:30A	M
B First Initial Flow Pressure	116	P.S.I.	30	30 Mins.
C First Final Flow Pressure	116	P.S.I.	45	45 Mins.
D Initial Closed-in Pressure	1521	P.S.I.	60	60 Mins.
E Second Initial Flow Pressure	144	P.S.I.	60	72 Mins.
F Second Final Flow Pressure	144	P.S.I.		
G Final Closed-in Pressure	1515	P.S.I.		
H Final Hydrostatic Mud	2342	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>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>24</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	116	0	116	0	144	0	144
P 2 5	116	3	123	5	144	3	148
P 3 10	116	6	362	10	144	6	182
P 4 15	116	9	716	15	144	9	349
P 5 20	116	12	896	20	144	12	569
P 6 25	116	15	1025	25	144	15	760
P 7 30	116	18	1123	30	144	18	885
P 8		21	1201	35	144	21	977
P 9		24	1265	40	144	24	1046
P10		27	1316	45	144	27	1109
P11		30	1359	50	144	30	1161
P12		33	1399	55	144	33	1207
P13		36	1437	60	144	36	1247
P14		39	1469			39	1280
P15		42	1496			42	1311
P16		45	1521			45	1343
P17						48	1366
P18						51	1387
P19						54	1408
P20						57	1427
						60	1445

WESTERN TESTING CO., INC.

Pressure Data

Date 8/28/81 Recorder No. 2607 Capacity 4150 Test Ticket No. 12075
 Location 4584 Ft. Elevation - Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	2373	P.S.I.	4:30A	
B. First Initial Flow Pressure	116	P.S.I.	30	30
C. First Final Flow Pressure	116	P.S.I.	45	45
D. Initial Closed-in Pressure	1521	P.S.I.	60	60
E. Second Initial Flow Pressure	144	P.S.I.	60	72
F. Second Final Flow Pressure	144	P.S.I.		
G. Final Closed-in Pressure	1515	P.S.I.		
H. Final Hydrostatic Mud	2342	P.S.I.		

Open Tool
 First Flow Pressure
 Initial Closed-in Pressure
 Second Flow Pressure
 Final Closed-in Pressure

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 15 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: 24 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	1464		
P 2				66	1483		
P 3				69	1500		
P 4				72	1515		
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 12075
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