

Company Mull Drilling Company Lease & Well No. Debes "B" #1
 Elevation ----- Formation Conglomerate Effective Pay --- Ft. Ticket No. 5286
 Date 1/13/80 Sec. 22 Twp. 18S Range 24W County Ness State Kansas
 Test Approved by Roger L. Martin Western Representative Darrell Claplan
Don Delaney

Formation Test No. 1 Interval Tested from 3977 ft. to 4032 ft. Total Depth 4032 ft.
 Packer Depth 3972 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3977 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4028 ft. Recorder Number 10265 Cap. 4650
 Bottom Recorder Depth (Outside) 4032 ft. Recorder Number 6077 Cap. 4700
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Blue Goose Drilling Rig #2 Drill Collar Length 188 I. D. 2.2 in.
 Mud Type -- Viscosity 42 Weight Pipe Length -- I. D. -- in.
 Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 3768 I. D. 3.8 in.
 Chlorides -- P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 55 ft. Size 5 1/2 in.
 Did Well Flow? NO Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: First flow, weak blow throughout test. (2")
Second flow, weak blow, died in forty-five minutes.

Recovered 10 ft. of slightly oil specked drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:10 ~~P.M.~~ A.M. Time Started Off Bottom 9:25 ~~P.M.~~ A.M. Maximum Temperature 110°
 Initial Hydrostatic Pressure (A) 1935 P.S.I.
 Initial Flow Period Minutes 30 (B) 76 P.S.I. to (C) 76 P.S.I.
 Initial Closed In Period Minutes 45 (D) 136 P.S.I.
 Final Flow Period Minutes 60 (E) 76 P.S.I. to (F) 76 P.S.I.
 Final Closed In Period Minutes 66 (G) 94 P.S.I.
 Final Hydrostatic Pressure (H) 1914 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/13/80 Test Ticket No. 5286
 Recorder No. 10265 Capacity 4650 Location 4028 Ft.
 Clock No. ----- Elevation ----- Well Temperature 110 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	1935	P.S.I.	Open Tool	6:10A	M
B First Initial Flow Pressure	76	P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	76	P.S.I.	Initial Closed-in Pressure	45	Mins. 45 Mins.
D Initial Closed-in Pressure	136	P.S.I.	Second Flow Pressure	60	Mins. 60 Mins.
E Second Initial Flow Pressure	76	P.S.I.	Final Closed-in Pressure	60	Mins. 66 Mins.
F Second Final Flow Pressure	76	P.S.I.			
G Final Closed-in Pressure	94	P.S.I.			
H Final Hydrostatic Mud	1914	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: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

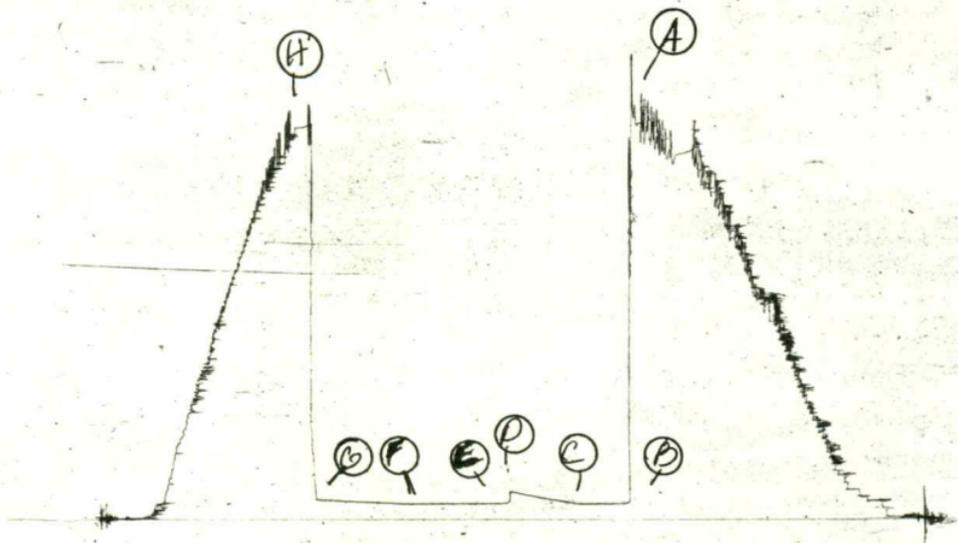
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 18 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 0	76	0	76	0	76	0	76
P 2 5	76	3	78	5	76	3	77
P 3 10	76	6	82	10	76	6	78
P 4 15	76	9	85	15	76	9	79
P 5 20	76	12	89	20	76	12	80
P 6 25	76	15	93	25	76	15	81
P 7 30	76	18	97	30	76	18	82
P 8		21	102	35	76	21	83
P 9		24	106	40	76	24	84
P10		27	111	45	76	27	85
P11		30	115	50	76	30	85
P12		33	121	55	76	33	87
P13		36	124	60	76	36	88
P14		39	131			39	89
P15		42	134			42	90
P16		45	136			45	91
P17						48	92
P18						51	93
P19						54	94
P20							

TKT # 5286
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10265
5286



Company Mull Drilling Company Lease & Well No. Debes "B"#1
 Elevation 2279 Kelly Bushing Mississippi Formation Mississippi Effective Pay -- Ft. Ticket No. 4982
 Date 1/14/80 Sec. 22 Twp. 18S Range 24W County Ness State Kansas
 Test Approved by Roger L. Martin Western Representative John Critser

Formation Test No. 2 Interval Tested from 4247 ft. to 4277 ft. Total Depth 4277 ft.
 Packer Depth 4242 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4247 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 4274 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 4277 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor Blue Goose Drilling, Inc. Drill Collar Length 561 I. D. 2.25 in.
 Mud Type drispac Viscosity 48 Weight Pipe Length -- I. D. -- in.
 Weight 9.3 Water Loss 11.8 cc. Drill Pipe Length 3729 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 FH in.
 Jars: Make -- Serial Number -- Anchor Length 30 ft. Size 4 1/2 FH in.
 Did Well Flow? -- Reversed Out -- Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: First flow period very weak blow for five minutes then died. Second flow period no blow, flushed tool, good surge, no blow.

Recovered 3 ft. of mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 11:55 A.M. Time Started Off Bottom 1:55 A.M. Maximum Temperature 113°
 Initial Hydrostatic Pressure (A) 2109 P.S.I.
 Initial Flow Period Minutes 30 (B) 33 P.S.I. to (C) 33 P.S.I.
 Initial Closed In Period Minutes 30 (D) 33 P.S.I.
 Final Flow Period Minutes 30 (E) 33 P.S.I. to (F) 33 P.S.I.
 Final Closed In Period Minutes 30 (G) 33 P.S.I.
 Final Hydrostatic Pressure (H) 2107 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/14/80 Test Ticket No. 4982
 Recorder No. 4331 Capacity 4150 Location 4274 Ft.
 Clock No. ----- Elevation 2279 Kelly Bushing Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2109</u> P.S.I.	Open Tool	<u>11:55</u> M	
B. First Initial Flow Pressure	<u>33</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>33</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>33</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>33</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>33</u> P.S.I.			
G. Final Closed-in Pressure	<u>33</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2107</u> 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.
	of <u>6</u> mins. and a final inc. of <u>0</u> Min.		of <u>10</u> mins. and a final inc. of <u>0</u> Min.		of <u>6</u> mins. and a final inc. of <u>0</u> Min.		of <u>10</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>33</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>33</u>	
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>33</u>	<u>5</u>	<u>33</u>	<u>3</u>	<u>33</u>	
P 3 <u>10</u>	<u>33</u>	<u>6</u>	<u>33</u>	<u>10</u>	<u>33</u>	<u>6</u>	<u>33</u>	
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>33</u>	<u>15</u>	<u>33</u>	<u>9</u>	<u>33</u>	
P 5 <u>20</u>	<u>33</u>	<u>12</u>	<u>33</u>	<u>20</u>	<u>33</u>	<u>12</u>	<u>33</u>	
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>33</u>	<u>25</u>	<u>33</u>	<u>15</u>	<u>33</u>	
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>33</u>	<u>30</u>	<u>33</u>	<u>18</u>	<u>33</u>	
P 8 _____		<u>21</u>	<u>33</u>			<u>21</u>	<u>33</u>	
P 9 _____		<u>24</u>	<u>33</u>			<u>24</u>	<u>33</u>	
P10 _____		<u>27</u>	<u>33</u>			<u>27</u>	<u>33</u>	
P11 _____		<u>30</u>	<u>33</u>			<u>30</u>	<u>33</u>	
P12 _____								
P13 _____								
P14 _____								
P15 _____								
P16 _____								
P17 _____								
P18 _____								
P19 _____								
P20 _____								

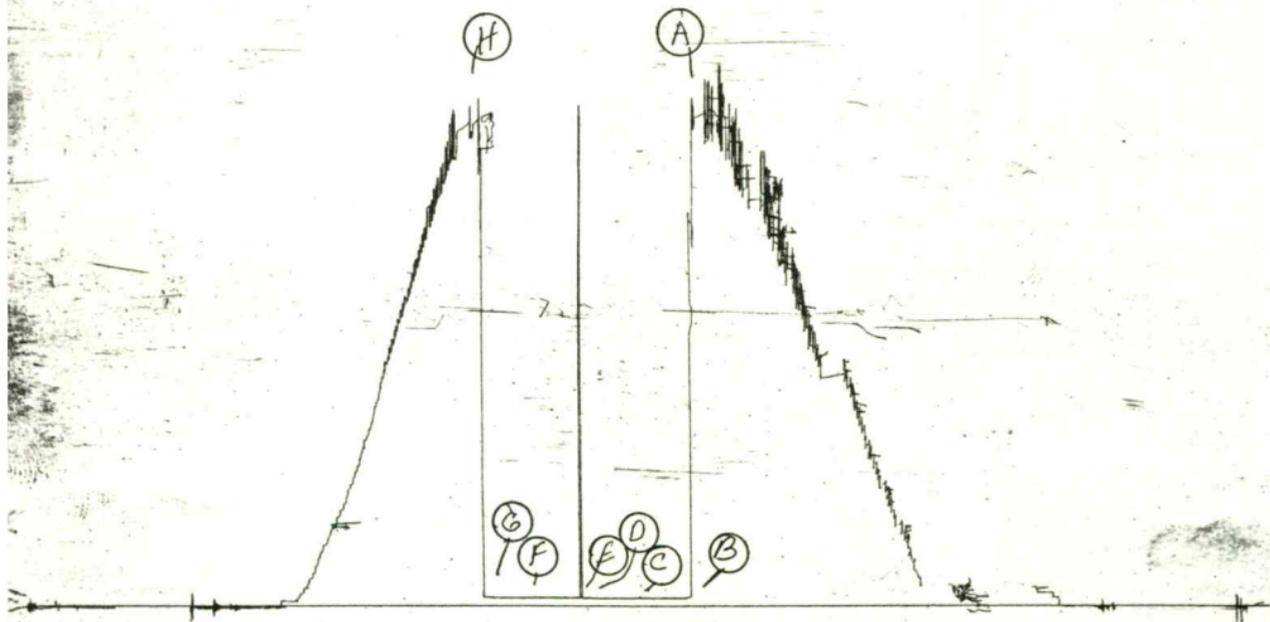
Flushed tool

File

4331

DKt# 4982

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Company Mull Drilling Company Lease & Well No. Debes "B" #1
 Elevation 2279 Kelly Bushing Mississippi Formation Effective Pay -- Ft. Ticket No. 4983
 Date 1/16/80 Sec. 22 Twp. 18S Range 24W County Ness State Kansas
 Test Approved by Roger L. Martin Western Representative John Critser

Formation Test No. 3 Interval Tested from 4246 ft. to 4298 ft. Total Depth 4298 ft.
 Packer Depth 4241 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Packer Depth 4246 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 4295 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 4299 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Blue Goose Drilling, Inc. Drill Collar Length 561 I. D. 2.25 in.
 Mud Type drispac Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 13.8 cc. Drill Pipe Length 3761 I. D. 3.8 in.
 Chlorides 18,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 FH in.
 Jars: Make -- Serial Number -- Anchor Length 52 ft. Size 4 1/2 FH in.
 Did Well Flow? -- Reversed Out -- Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: First flow period weak blow for sixteen minutes then died. Second flow period no blow, flushed tool, good surge, very weak blow five minutes.

Recovered 60 ft. of mud
 Recovered 60 ft. of oil spotted drilling mud (good odor and well spotted)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 1:20 A.M. P.M. Time Started Off Bottom 3:20 A.M. P.M. Maximum Temperature 113°
 Initial Hydrostatic Pressure (A) 2132 P.S.I.
 Initial Flow Period Minutes 30 (B) 83 P.S.I. to (C) 83 P.S.I.
 Initial Closed In Period Minutes 30 (D) 367 P.S.I.
 Final Flow Period Minutes 30 (E) 98 P.S.I. to (F) 107 P.S.I.
 Final Closed In Period Minutes 30 (G) 251 P.S.I.
 Final Hydrostatic Pressure (H) 2126 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 1/16/80 Test Ticket No. 4983
 Recorder No. 4331 Capacity 4150 Location 4295 Ft.
 Clock No. ----- Elevation 2279 Kelly Bushing Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2132</u> P.S.I.	Open Tool	<u>1:20</u> M	
B. First Initial Flow Pressure	<u>83</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>83</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>367</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>107</u> P.S.I.			
G. Final Closed-in Pressure	<u>251</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2126</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: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

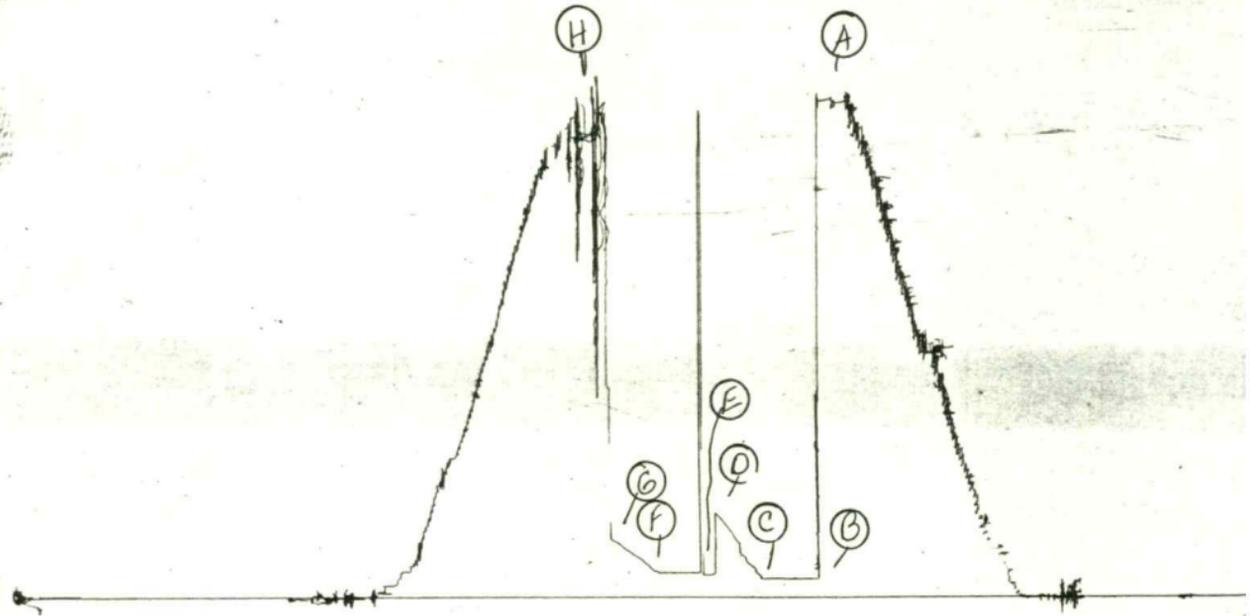
Final Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>83</u>	<u>0</u>	<u>83</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>107</u>
P 2 <u>5</u>	<u>83</u>	<u>3</u>	<u>111</u>	<u>5</u>	<u>98</u>	<u>3</u>	<u>111</u>
P 3 <u>10</u>	<u>83</u>	<u>6</u>	<u>140</u>	<u>10</u>	<u>107</u>	<u>6</u>	<u>124</u>
P 4 <u>15</u>	<u>83</u>	<u>9</u>	<u>175</u>	<u>15</u>	<u>107</u>	<u>9</u>	<u>144</u>
P 5 <u>20</u>	<u>83</u>	<u>12</u>	<u>192</u>	<u>20</u>	<u>107</u>	<u>12</u>	<u>168</u>
P 6 <u>25</u>	<u>83</u>	<u>15</u>	<u>255</u>	<u>25</u>	<u>107</u>	<u>15</u>	<u>179</u>
P 7 <u>30</u>	<u>83</u>	<u>18</u>	<u>290</u>	<u>30</u>	<u>107</u>	<u>18</u>	<u>195</u>
P 8		<u>21</u>	<u>325</u>			<u>21</u>	<u>212</u>
P 9		<u>24</u>	<u>339</u>			<u>24</u>	<u>225</u>
P10		<u>27</u>	<u>352</u>			<u>27</u>	<u>238</u>
P11		<u>30</u>	<u>367</u>			<u>30</u>	<u>251</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

flushed tool

4531

TKL # 4983
I



Company Mull Drilling Company, Inc. Lease & Well No. Debes "B" #1
 Elevation 2279 Kelly Bushing Mississippi Formation Effective Pay -- Ft. Ticket No. 4984
 Date 1/17/80 Sec. 22 Twp. 18S Range 24W County Ness State Kansas
 Test Approved by Roger L. Martin Western Representative John Critser

Formation Test No. 4 Interval Tested from 4247 ft. to 4308 ft. Total Depth 4308 ft.
 Packer Depth 4242 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Packer Depth 4247 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4305 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 4308 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Blue Goose Drilling, Inc. Drill Collar Length 561 I. D. 2.25 in.
 Mud Type drispac Viscosity 48 Weight Pipe Length -- I. D. -- in.
 Weight 9.3 Water Loss 13.4 cc. Drill Pipe Length 3719 I. D. 3.8 in.
 Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 61 ft. Size 4 1/2 in.
 Did Well Flow? -- Reversed Out -- Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow for fifteen minutes; flushed tool, good surge; weak blow with plugging action for eleven more minutes. Second flow very weak blow for nine minutes then

Recovered 538 ft. of mud died.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid 65 feet to bottom.

Time Set Packer(s) 4:50 A.M. Time Started Off Bottom 6:50 P.M. Maximum Temperature 112°
 Initial Hydrostatic Pressure 2179 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 356 P.S.I. to (C) 470 P.S.I.
 Initial Closed In Period 30 Minutes (D) 791 P.S.I.
 Final Flow Period 30 Minutes (E) 371 P.S.I. to (F) 426 P.S.I.
 Final Closed In Period 30 Minutes (G) 666 P.S.I.
 Final Hydrostatic Pressure 2120 (H) P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

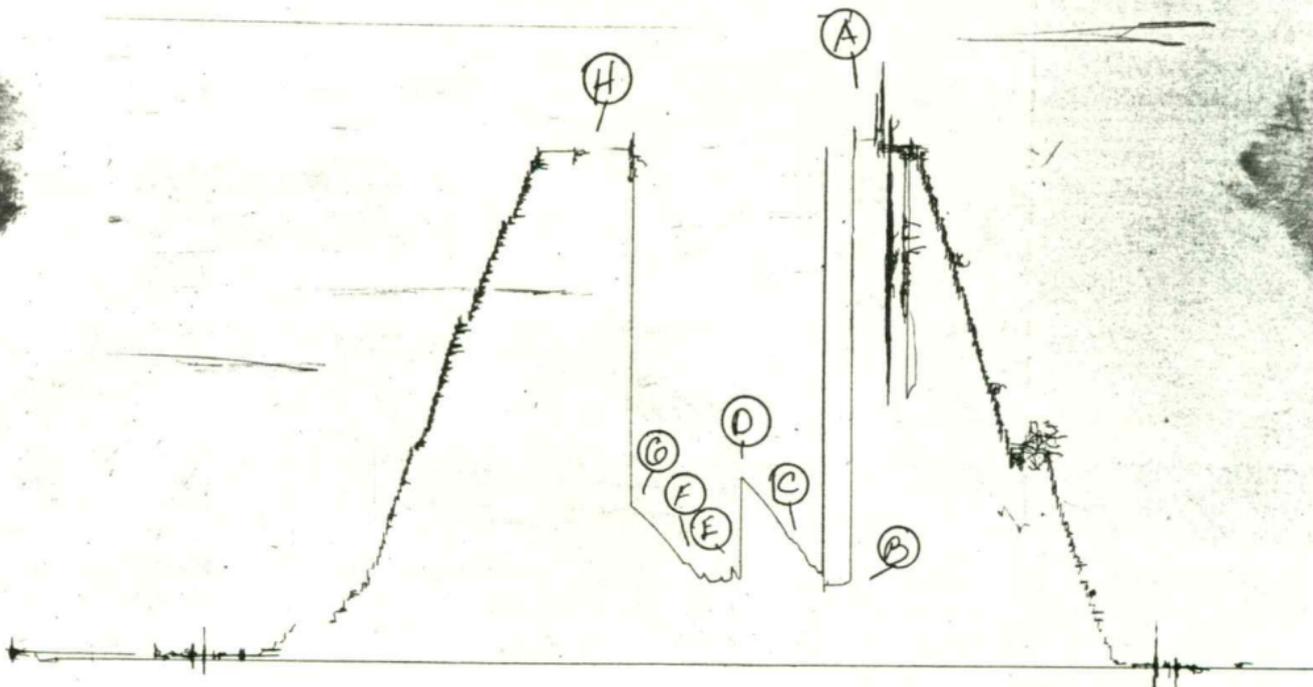
Date 1/17/80 Test Ticket No. 4984
 Recorder No. 4331 Capacity 4150 Location 4305 Ft.
 Clock No. -- Elevation 2279 Kelly Bushing Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2179</u> P.S.I.	Open Tool	<u>4:50</u> M	
B First Initial Flow Pressure	<u>356</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>470</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>791</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>371</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>426</u> P.S.I.			
G Final Closed-in Pressure	<u>666</u> P.S.I.			
H Final Hydrostatic Mud	<u>2120</u> 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.
	of <u>6</u> mins. and a		of <u>10</u> mins. and a		of <u>6</u> mins. and a		of <u>10</u> mins. and a	
	final inc. of <u>5</u> Min.		final inc. of <u>3</u> Min.		final inc. of <u>5</u> Min.		final inc. of <u>3</u> Min.	
P 1	<u>0</u>	<u>356</u>	<u>0</u>	<u>470</u>	<u>0</u>	<u>371</u>	<u>0</u>	<u>426</u>
P 2	<u>5</u>	<u>343</u>	<u>3</u>	<u>532</u>	<u>5</u>	Plugging action	<u>3</u>	<u>435</u>
P 3	<u>10</u>	<u>343</u>	<u>6</u>	<u>556</u>	<u>10</u>	Plugging action	<u>6</u>	<u>467</u>
P 4	<u>15</u>	<u>389</u>	<u>9</u>	<u>595</u>	<u>15</u>	Plugging action	<u>9</u>	<u>491</u>
P 5	<u>20</u>	Plugging action	<u>12</u>	<u>625</u>	<u>20</u>	Plugging action	<u>12</u>	<u>521</u>
P 6	<u>25</u>	Plugging action	<u>15</u>	<u>655</u>	<u>25</u>	Plugging action	<u>15</u>	<u>543</u>
P 7	<u>30</u>	<u>470</u>	<u>18</u>	<u>685</u>	<u>30</u>	<u>426</u>	<u>18</u>	<u>571</u>
P 8			<u>21</u>	<u>711</u>			<u>21</u>	<u>595</u>
P 9			<u>24</u>	<u>739</u>			<u>24</u>	<u>614</u>
P10			<u>27</u>	<u>761</u>			<u>27</u>	<u>641</u>
P11			<u>30</u>	<u>791</u>			<u>30</u>	<u>666</u>
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TRK # 4984
I



Company Mull Drilling Company, Inc. Lease & Well No. Debes "B" #1
 Elevation 2279 Kelly Bushing Mississippi Formation Effective Pay -- Ft. Ticket No. 4985
 Date 1/18/80 Sec. 22 Twp. 18S Range 24W County Ness State Kansas
 Test Approved by Roger L. Martin Western Representative John Critser

Formation Test No. 5 Interval Tested from 4246 ft. to 4317 ft. Total Depth 4317 ft.
 Packer Depth 4241 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4246 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4314 ft. Recorder Number 4331 Cap. 4150
 Bottom Recorder Depth (Outside) 4317 ft. Recorder Number 12340 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Blue Goose Drilling, Inc. Drill Collar Length 561 I. D. 2.25 in.
 Mud Type drispac Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 13.4 cc. Drill Pipe Length 3719 I. D. 3.8 in.
 Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 71 ft. Size 4 1/2 in.
 Did Well Flow? -- Reversed Out -- Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: First flow weak blow throughout opening. Second flow weak blow throughout period.

Recovered 211 ft. of mud
 Recovered 122 ft. of slightly oil spotted mud
 Recovered 122 ft. of oil spotted gassy mud
 Recovered 61 ft. of watery gassy oil spotted mud (30% water)
 Recovered 516 ft. of Total fluid.
 Remarks: Slid tool sixty-five feet to bottom.

Time Set Packer(s) 3:20 A.M. P.M. Time Started Off Bottom 7:05 A.M. P.M. Maximum Temperature 113°
 Initial Hydrostatic Pressure (A) 2129 P.S.I.
 Initial Flow Period Minutes 30 (B) 276 P.S.I. to (C) 263 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1203 P.S.I.
 Final Flow Period Minutes 90 (E) 274 P.S.I. to (F) 274 P.S.I.
 Final Closed In Period Minutes 60 (G) 1215 P.S.I.
 Final Hydrostatic Pressure (H) 2089 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/18/80 Test Ticket No. 4985
 Recorder No. 4331 Capacity 4150 Location 4314 Ft.
 Clock No. ----- Elevation 2279 Kelly Bushing Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2129 P.S.I.	Open Tool	3:20 M	
B First Initial Flow Pressure	276 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	263 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1203 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	274 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	274 P.S.I.			
G Final Closed-in Pressure	1215 P.S.I.			
H Final Hydrostatic Mud	2089 P.S.I.			

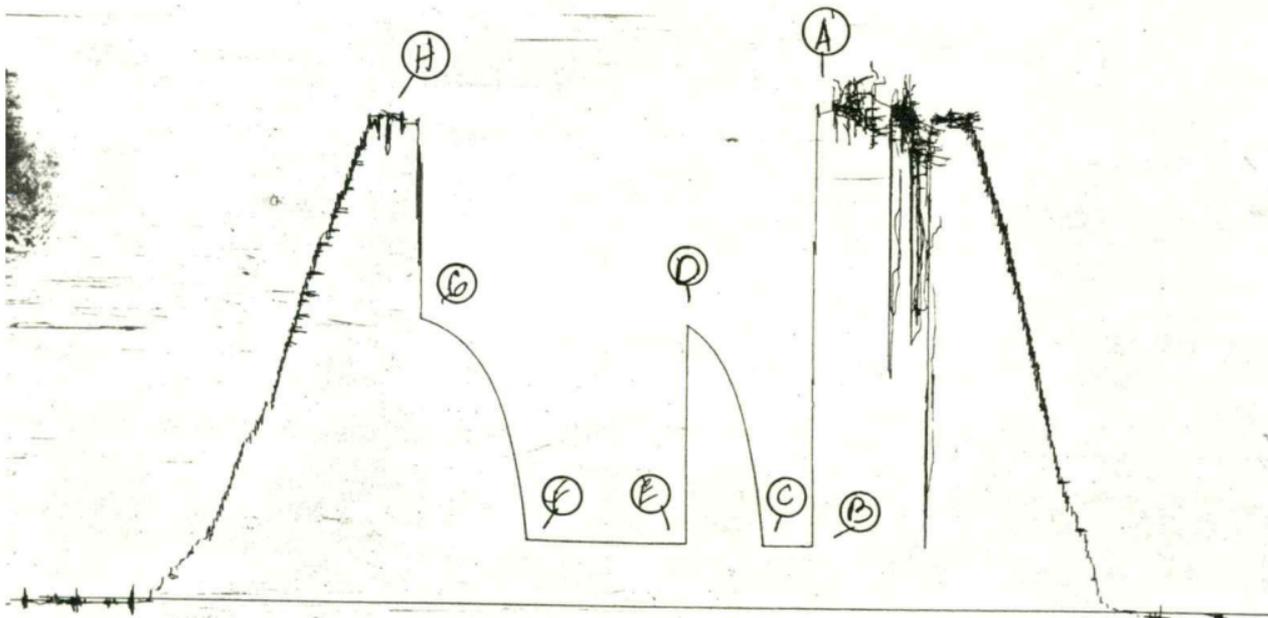
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	6		15		18		20	
	of 5 mins.		of 3 mins.		of 5 mins.		of 3 mins.	
	and a final inc. of 0 Min.		and a final inc. of 0 Min.		and a final inc. of 0 Min.		and a final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0 276	0 263	0 274	0 274	0 274	0 274	0 274	
P 2	5 263	3 477	3 274	5 274	3 450	3 450	3 450	
P 3	10 263	6 593	6 274	10 274	6 577	6 577	6 577	
P 4	15 263	9 706	9 274	15 274	9 666	9 666	9 666	
P 5	20 263	12 789	12 274	20 274	12 754	12 754	12 754	
P 6	25 263	15 862	15 274	25 274	15 924	15 924	15 924	
P 7	30 263	18 918	18 274	30 274	18 983	18 983	18 983	
P 8		21 975	21 274	35 274	21 999	21 999	21 999	
P 9		24 1023	24 274	40 274	24 1013	24 1013	24 1013	
P10		27 1056	27 274	45 274	27 1026	27 1026	27 1026	
P11		30 1090	30 274	50 274	30 1040	30 1040	30 1040	
P12		33 1117	33 274	55 274	33 1062	33 1062	33 1062	
P13		36 1142	36 274	60 274	36 1085	36 1085	36 1085	
P14		39 1163	39 274	65 274	39 1106	39 1106	39 1106	
P15		42 1182	42 274	70 274	42 1130	42 1130	42 1130	
P16		45 1203	45 274	75 274	45 1150	45 1150	45 1150	
P17			80 274	80 274	48 1163	48 1163	48 1163	
P18			85 274	85 274	51 1177	51 1177	51 1177	
P19			90 274	90 274	54 1190	54 1190	54 1190	
P20					57 1203	57 1203	57 1203	
					60 1215	60 1215	60 1215	

0.575

4331

TRC # 4985
I



Company Mull Drilling Company, Inc. Lease & Well No. Debes "B" #1
 Elevation 2279 Kelly Bushing Marmaton Formation Effective Pay -- Ft. Ticket No. 3125
 Date 1/19/80 Sec. 22 Twp. 18S Range 24W County Ness State Kansas
 Test Approved by Roger L. Martin Western Representative J. R. Vincent

Formation Test No. 6 Interval Tested from 4032 ft. to 4068 ft. Total Depth 4317 ft.
 Packer Depth 4033 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4069 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4060 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4063 ft. Recorder Number 3080 Cap. 4500
 Below Straddle Recorder Depth 4317 ft. Recorder Number 21 Cap. _____
 Drilling Contractor Blue Goose Drilling Drill Collar Length 124 I. D. 2.25 in.
 Mud Type drispac Viscosity 48 Weight Pipe Length -- I. D. - in.
 Weight 9.5 Water Loss 13.2 cc. Drill Pipe Length 4136 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 36 ft. Size 5 1/2 in.
 Did Well Flow? NO Reversed Out - 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: _____

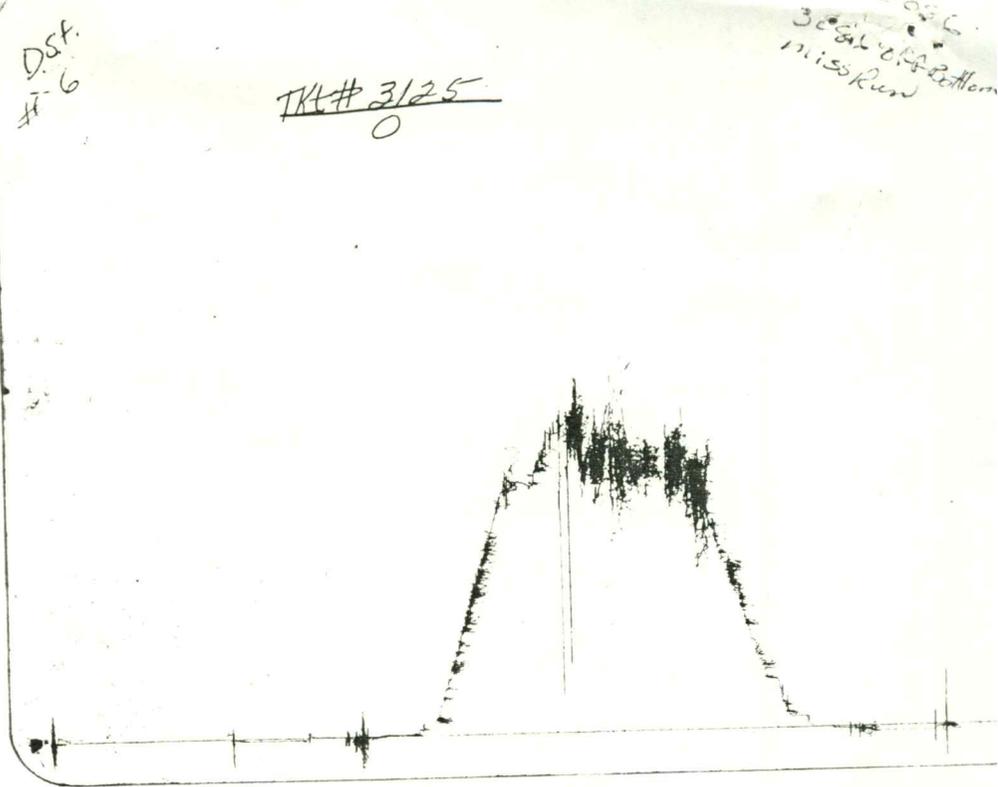
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____ MISRUN
 Recovered _____ ft. of 378 feet off bottom
 Recovered _____ ft. of _____
 Remarks: _____

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.	

D.S.F.
6

TKT# 3125
0

086
308' off Bottom
miss Run

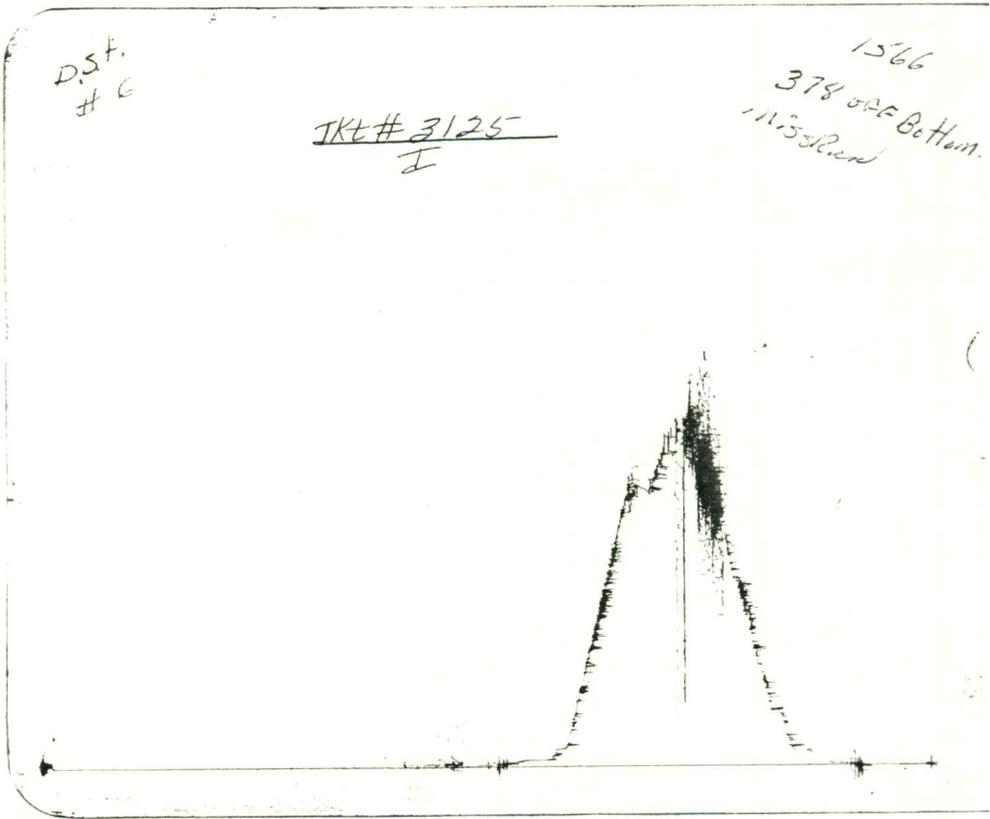


*Pit not recored
w/ Shadde Int*

D.S.F.
6

TKT# 3125
I

1566
378' off Bottom
miss Run



MURK
DST #6
MISRUN

TKT # 3125
Below Strodle

Company Mull Drilling Company, Inc. Lease & Well No. Debes "B"#1
 Elevation 2279 Kelly Bushing Marmaton Formation Marmaton Effective Pay -- Ft. Ticket No. 5026
 Date 1/20/80 Sec. 22 Twp. 18S Range 24W County Ness State Kansas
 Test Approved by Roger L. Martin Western Representative J. R. Vincent

Formation Test No. 7 Interval Tested from 4032 ft. to 4076 ft. Total Depth 4317 ft.
 Packer Depth 4032 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4076 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4066 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4069 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth 4317 ft. Recorder Number 1049 Cap. 3500

Drilling Contractor Blue Goose Drilling Drill Collar Length 124 I. D. 2.25 in.
 Mud Type drispac Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 12.4 cc. Drill Pipe Length 4128 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 44 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out - 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 good; decreasing to fair blow first opening. Fair blow thro ghout second opening.

Recovered 30 ft. of mud
 Recovered 61 ft. of slightly watery mud
 Recovered 244 ft. of watery mud
 Recovered 31 ft. of muddy water (a few spots of oil in top of tool)
 Recovered 366 ft. of total fluid

Remarks: _____

Time Set Packer(s) 6:15 ~~PM~~ ^{AM} Time Started Off Bottom 9:30 ~~PM~~ ^{AM} Maximum Temperature -
 Initial Hydrostatic Pressure (A) 1986 P.S.I.
 Initial Flow Period Minutes 30 (B) 73 P.S.I. to (C) 109 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1852 P.S.I.
 Final Flow Period Minutes 30 (E) 163 P.S.I. to (F) 161 P.S.I.
 Final Closed In Period Minutes 60 (G) 1873 P.S.I.
 Final Hydrostatic Pressure (H) 1965 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/20/80 Test Ticket No. 5026
 Recorder No. 3086 Capacity 4500 Location 4069 Ft.
 Clock No. -- Elevation 2279 Kelly Bushing Well Temperature -- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1986	P.S.I.	6:15A	M
B First Initial Flow Pressure	73	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	109	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1852	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	163	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	161	P.S.I.		
G Final Closed-in Pressure	1873	P.S.I.		
H Final Hydrostatic Mud	1965	P.S.I.		

PRESSURE BREAKDOWN

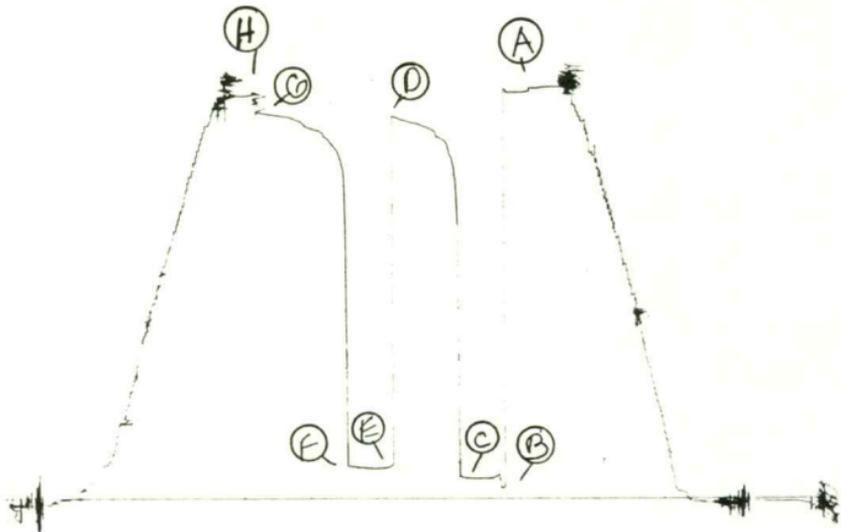
Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In					
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.				
	of	5	mins. and a	final inc. of	0	Min.	of	3	mins. and a	final inc. of	0	Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.			
P 1	0	73	0	109	0	163	0	161				
P 2	5	108	3	1230	5	151	3	1111				
P 3	10	99	6	1613	10	147	6	1638				
P 4	15	98	9	1696	15	151	9	1698				
P 5	20	99	12	1744	20	154	12	1728				
P 6	25	104	15	1755	25	158	15	1755				
P 7	30	109	18	1788	30	161	18	1783				
P 8			21	1803			21	1793				
P 9			24	1811			24	1799				
P10			27	1820			27	1813				
P11			30	1824			30	1831				
P12			33	1830			33	1843				
P13			36	1836			36	1852				
P14			39	1841			39	1856				
P15			42	1847			42	1857				
P16			45	1852			45	1860				
P17							48	1863				
P18							51	1865				
P19							54	1868				
P20							57	1871				
							60	1873				

D.S. # 7

3086

TKT # 5026

○



TKT # 5026
Below Saddle

