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Ricketts Testing, Inc.

18-20-22W
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Company MULL DRILLING COMPANY, INC. Lease & Well No. GROSS-WHITLEY #1

Elevation 2232 K.B. Formation MISSISSIPPI Effective Pay ____ ft. Ticket No. 1733

Date 12-3-93 Sec. 18 Twp. 20 Range 22W County NESS State KANSAS

Test Approved by ROGER MARTIN Ricketts Representative JIM RICKETTS

Formation Test No. 1 Interval Tested from 4263 ft. to 4335 ft. Total Depth 4335 ft.

Packer Depth 4263 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Packer Depth 4260 ft. Size 6 3/4 in. Packer Depth ____ ft. Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4268 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 4332 ft. Recorder Number 13306 Cap. 4625

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

Drilling Contractor Duke Drilling Rig #4 Drill Collar Length ____ I.D. ____ in.

Mud Type Chemical Viscosity 66 Weight Pipe Length ____ I.D. ____ in.

Weight 9.2 Water Loss 8.8 cc. Drill Pipe Length 4243 I.D. 3.25 in.

Chlorides 6,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make ____ Serial Number ____ Anchor Length 72 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Gravity Oil 36 Main Hole Size 7 7/8 in. Tool Joint Size 4½xh in.

Blow: Strong blow in 3 minutes Initial Flow Period.
Strong blow in 3 minutes Final Flow Period.

Recovered 124 ft. of Clean gassy oil

Recovered 186 ft. of Gassy oil cut mud. 22% Gas 33% Oil 50% Mud

Recovered 1147 ft. of Clean gassy oil.

Recovered 403 ft. of Frothy gassy oil cut mud. 22% Gas 33% Oil 50% Mud

Recovered 310 ft. of Gassy oil cut, slightly watery mud. 25% Gas 20% Oil 5 % Water 50% Mud

Recovered 122 ft. of Water

Recovered 2 ft. of Heavy mud.

Remarks: DST Fluid Chlorides 32,000 PPM

Time Set Packer (s) 5:30 A M. Time Started Off Bottom 8:45 A M. Maximum Temperature 120

Initial Hydrostatic Pressure ..... (A) 2192 P.S.I.

Initial Flow Period ..... Minutes 35 (B) 185 P.S.I. to (C) 496 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1325 P.S.I.

Final Flow Period ..... Minutes 70 (E) 522 P.S.I. to (F) 916 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1325 P.S.I.

Final Hydrostatic Pressure ..... (H) 2184 P.S.I.

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W66-05-81

RICKETTS TESTING, INC.

Pressure Data

te 12-3-93 Test Ticket No. 1733

corder No. 13307 Capacity 4650 Location 4268 Ft.

ck No. Elevation 2232 K.B. Well Temperature 120 °F

int	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	2192 P.S.I.	Open Tool	5:30 A M	
First Initial Flow Pressure	185 P.S.I.	First Flow Pressure	30 Mins.	35 Mins.
First Final Flow Pressure	496 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
Initial Closed-in Pressure	1325 P.S.I.	Second Flow Pressure	60 Mins.	70 Mins.
Second Initial Flow Pressure	522 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
Second Final Flow Pressure	916 P.S.I.			
Final Closed-in Pressure	1325 P.S.I.			
Final Hydrostatic Mud	2184 P.S.I.			

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PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 7 Inc.		Breakdown: 15 Inc.		Breakdown: 14 Inc.		Breakdown: 20 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of Min.		final inc. of Min.		final inc. of Min.		final inc. of Min.	
oint Ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	185	0	496	0	522	0	916
2 5	257	3	1194	5	531	3	1267
3 10	306	6	1263	10	556	6	1288
4 15	336	9	1288	15	591	9	1297
5 20	371	12	1297	20	633	12	1305
6 25	419	15	1308	25	668	15	1310
7 30	468	18	1314	30	700	18	1313
8 35	496	21	1321	35	733	21	1316
9 40		24	1325	40	763	24	1319
10 45		27	1325	45	793	27	1322
11 50		30	1325	50	817	30	1323
12 55		33	1325	55	847	33	1324
13 60		36	1325	60	874	36	1325
14 65		39	1325	65	893	39	1325
15 70		42	1325	70	916	42	1325
16 75		45	1325	75		45	1325
17 80		48		80		48	1325
18 85		51		85		51	1325
19 90		54		90		54	1325
20 95		57				57	1325
		60				60	1325

DST #1 TK# 1733

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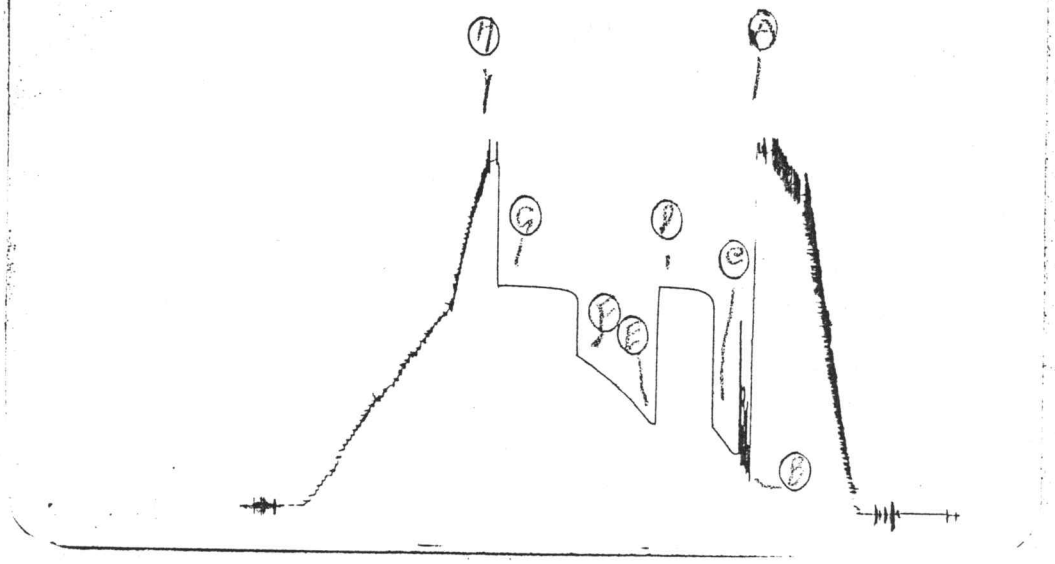

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2181	2192	PSI
(B)	First Initial Flow Pressure	220	185	PSI
(C)	First Final Flow Pressure	498	496	PSI
(D)	Initial Closed-in Pressure	1320	1325	PSI
(E)	Second Initial Flow Pressure	522	522	PSI
(F)	Second Final Flow Pressure	905	916	PSI
(G)	Final Closed-in Pressure	1309	1325	PSI
(H)	Final Hydrostatic Mud	2158	2184	PSI