

Company **Grand Mesa Operating Company**
 Address **1700 N. Waterfront Pkwy Bldg 6**
 CSZ **Wichita, KS 67206**
 Attn. **Ronald N. Sinclair**

Lease Name **Humphrey**
 Lease # **4-18**
 Legal Desc **C NW NW SE**
 Section **18**
 Township **17S**
 County **Ness**
 Drilling Cont **W-W Drilling Rig #2**

Job Ticket **4088**
 Range **24W**
 State **KS**

Comments **Times: 30 - 30 - 60 - 90**

15-135-24762

18-17s-24w

GENERAL INFORMATION

Test # 1
 Tester **Richard Holtz**
 Test Type **Conventional Bottom Hole Successful Test**
 Test Date **3/29/2008**

of Packers **2.0** Packer Size **6 3/4**

Mud Type **Gel Chem**
 Mud Weight **9.2** Viscosity **54.0**
 Filtrate **7.6** Chlorides **4400**

Drill Collar Len **120.0**
 Wght Pipe Len **0**

Formation **Fort Scott**
 Interval Top **4248.0** Bottom **4312.0**
 Anchor Len Below **64.0** Between **0**

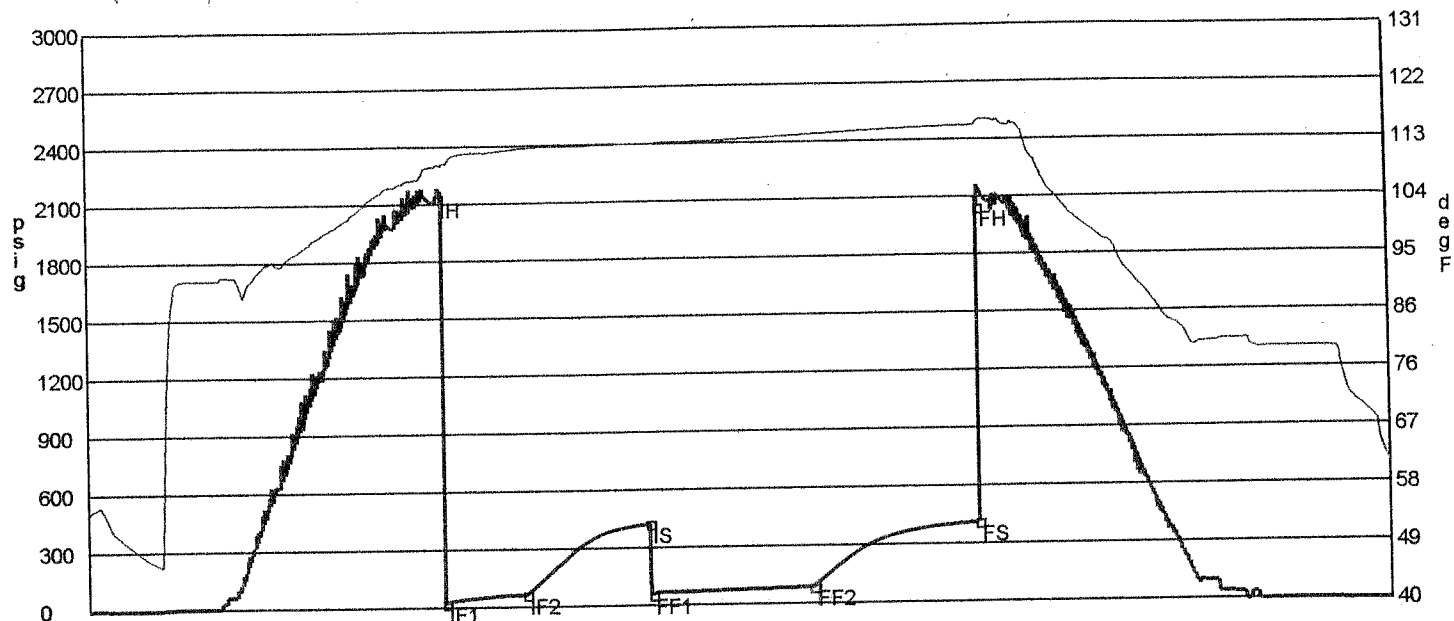
Total Depth **4312.0**
 Blow Type **Initial Flow, weak blow building to strong, BOB in 25 minutes. No blow back on shut in. Final Flow, weak blow building to strong, BOB in 10 minutes. No blow back on shut in.**

Chokes **3/4** Hole Size **7 7/8**
 Top Recorder # **W1023**
 Mid Recorder #
 Bott Recorder # **13564**
 Mileage **148** Approved By
 Standby Time **0**
 Extra Equipmnt
 Time on Site **1:45 AM**
 Tool Picked Up **3:45 AM**
 Tool Layed Dwn **11:00 AM**
 Elevation **2432.00** Kelley Bushings **2437.00**
 Start Date/Time **3/29/2008 3:01 AM**
 End Date/Time **3/29/2008 11:02 AM**

18-17-24w

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
180	gassy oil cut mud	30% 54ft	27% 48.6ft	0% 0ft	43% 77.4ft
DST Fluids	0				



	Date	Time	Pressure	Temp	
IH	3/29/2008 5:10:15 AM	2.154167	2130.394	109.889	Initial Hydro-static
IF1	3/29/2008 5:11:45 AM	2.179167	22.491	109.704	Initial Flow (1)
IF2	3/29/2008 5:41:45 AM	2.679167	63.468	112.415	Initial Flow (2)
IS	3/29/2008 6:27:00 AM	3.433333	424.64	112.893	Initial Shut-In
FF1	3/29/2008 6:27:45 AM	3.445833	53.554	112.816	Final Flow (1)
FF2	3/29/2008 7:27:30 AM	4.441667	86.279	113.952	Final Flow (2)
FS	3/29/2008 8:28:45 AM	5.4625	410.65	115.039	Final Shut-In
FH	3/29/2008 8:29:15 AM	5.470833	2043.666	115.377	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

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 Section **18**
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 County **Ness**
 Drilling Cont **W-W Drilling Rig #2**
 Job Ticket **4088**
 Range **24W**
 State **KS**

Comments **Times: 30 - 30 - 60 - 90**

GENERAL INFORMATION

Test # **2** Test Date **3/30/2008**
 Tester **Richard Holtz**
 Test Type **Conventional Bottom Hole Successful Test**

of Packers **2.0** Packer Size **6 3/4**

Mud Type **Gel Chem**
 Mud Weight **9.2** Viscosity **54.0**
 Filtrate **7.6** Chlorides **4400**

Drill Collar Len **120.0**
 Wght Pipe Len **0**

Formation **Mississippi**
 Interval Top **4335.0** Bottom **4390.0**
 Anchor Len Below **55.0** Between **0**
 Total Depth **4390.0**

Blow Type **Initial Flow, weak blow building to 8 inches. No blow back on shut in. Final Flow, weak blow building to strong, BOB in 45 minutes. No blow back on shut in**

Chokes **3/4** Hole Size **7 7/8**
 Top Recorder # **W1023**
 Mid Recorder #
 Bott Recorder # **13564**

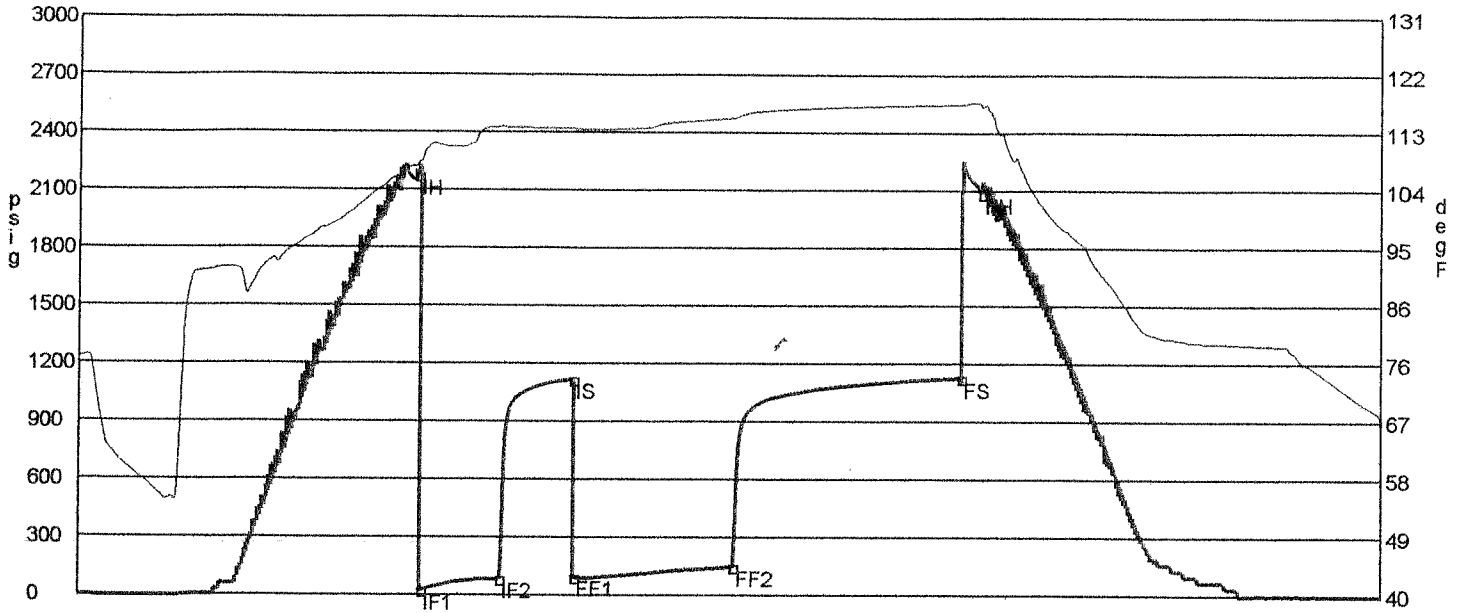
Mileage **40** Approved By
 Standby Time **0**
 Extra Equipmnt
 Time on Site **8:30 PM**
 Tool Picked Up **10:30 PM**
 Tool Layed Dwn **6:00 AM**

Elevation **2432.00** Kelley Bushings **2437.00**

Start Date/Time **3/29/2008 9:56 PM**
 End Date/Time **3/30/2008 6:23 AM**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
210	clean oil (gravity 36)	0% 0ft	100% 210ft	0% 0ft	0% 0ft
180	gassy oil cut mud	20% 36ft	13% 23.4ft	0% 0ft	67% 120.6ft
DST Fluids		0			



	Date	Time	Pressure	Temp	
IH	3/30/2008 12:06:15 AM	2.170833	2171.152	107.868	Initial Hydro-static
IF1	3/30/2008 12:07:45 AM	2.195833	21.242	108.403	Initial Flow (1)
IF2	3/30/2008 12:38:30 AM	2.708333	83.18	113.701	Initial Flow (2)
IS	3/30/2008 1:07:30 AM	3.191667	1115.797	113.412	Initial Shut-In
FF1	3/30/2008 1:08:00 AM	3.2	92.486	113.329	Final Flow (1)
FF2	3/30/2008 2:09:45 AM	4.229167	145.784	115.064	Final Flow (2)
FS	3/30/2008 3:37:45 AM	5.695833	1124.239	117.294	Final Shut-In
FH	3/30/2008 3:45:45 AM	5.829167	2083.839	117.141	Final Hydro-static

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 Section **18** Range **24W**
 Township **17S**
 County **Ness** State **KS**
 Drilling Cont **W-W Drilling Rig #2**

Comments **Times: 30 - 45 - 60 - 90**

GENERAL INFORMATION

Test # **3** Test Date **3/31/2008**
 Tester **Richard Holtz**
 Test Type **Straddle**
Successful Test
 # of Packers **3.0** Packer Size **6 3/4**

Chokes **3/4** Hole Size **7 7/8**
 Top Recorder # **W1023**
 Mid Recorder #
 Bott Recorder # **13564**

Mud Type **Gel Chem**
 Mud Weight **9.2** Viscosity **54.0**
 Filtrate **7.6** Chlorides **4300**

Mileage **160** Approved By
 Standby Time **0**
 Extra Equipmnt **packer Jars & safety joint**
 Time on Site **1:00 AM**
 Tool Picked Up **2:45 AM**
 Tool Layed Dwn **11:00 AM**

Drill Collar Len **120.0**
 Wght Pipe Len **0**

Elevation **2432.00** Kelley Bushings **2437.00**

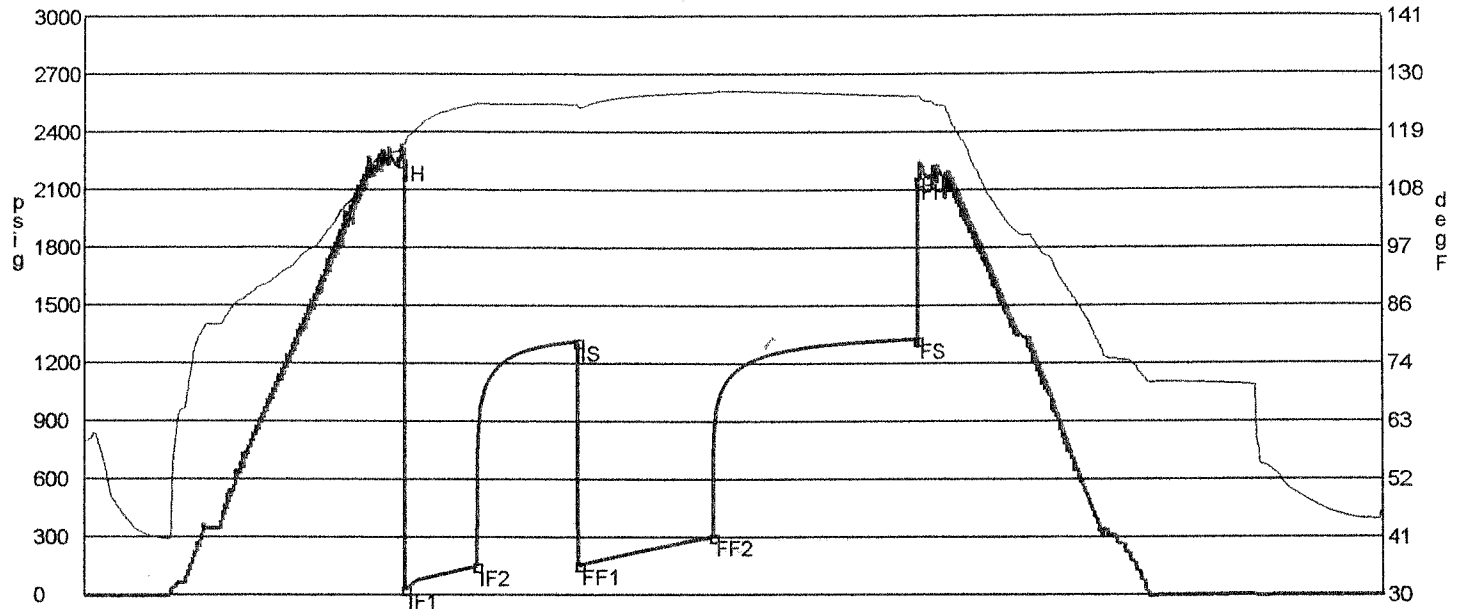
Formation **Mississippi**
 Interval Top **4506.0** Bottom **4525.0**
 Anchor Len Below **0** Between **19.0**
 Total Depth **4600.0**

Start Date/Time **3/31/2008 2:17 AM**
 End Date/Time **3/31/2008 11:54 AM**

Blow Type **Initial Flow, weak blow building to strong, BOB in 18 minutes, No blow back on shut in. Final Flow, weak blow building to strong, BOB in 23 minutes, No b low back on shut in.**

RECOVERY

Feet	Description	Gas		Oil		Water		Mud	
300	water cut mud	0%	0ft	0%	0ft	40%	120ft	60%	180ft
350	muddy water	0%	0ft	0%	0ft	97%	339.5ft	3%	10.5ft
DST Fluids 14000									



	Date	Time	Pressure	Temp	
IH	3/31/2008 4:36:15 AM	2.320833	2244.227	115.459	Initial Hydro-static
IF1	3/31/2008 4:38:00 AM	2.35	26.797	116.314	Initial Flow (1)
IF2	3/31/2008 5:09:45 AM	2.879167	147.104	124.186	Initial Flow (2)
IS	3/31/2008 5:54:30 AM	3.625	1312.557	124.06	Initial Shut-In
FF1	3/31/2008 5:55:00 AM	3.633333	154.606	123.831	Final Flow (1)
FF2	3/31/2008 6:54:15 AM	4.620833	302.485	126.407	Final Flow (2)
FS	3/31/2008 8:24:30 AM	6.125	1323.16	125.605	Final Shut-In
FH	3/31/2008 8:25:00 AM	6.133333	2149.244	125.698	Final Hydro-static

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