

Company **LD Drilling, Inc.**
 Address **7 SW 28th Ave.**
 CSZ **Great Bend, KS 67530**
 Attn. **Kim Shoemaker**

Lease Name **Austen/Bernice**
 Lease # **4-23**
 Legal Desc **E/2-SE-SE-SW** Job Ticket **2139**
 Section **23** Range **12W**
 Township **21S**
 County **Stafford** State **KS**
 Drilling Cont **Petromark Drilling Rig #2**

Comments **Field: Sandra**

GENERAL INFORMATION

Test # 1 Test Date **2/12/2011**
 Tester **Tim Venters**
 Test Type **Conventional Bottom Hole**
Successful Test
 # of Packers **2.0** Packer Size **6 3/4**
 Mud Type **Gel Chem**
 Mud Weight **8.9** Viscosity **51.0**
 Filtrate **10.4** Chlorides **4000**

Chokes **3/4** Hole Size **7 7/8**
 Top Recorder # **W1119**
 Mid Recorder # **W1022**
 Bott Recorder # **13310**
 Mileage **96** Approved By
 Standby Time **0**
 Extra Equipmnt **Safety joint**
 Time on Site **2:55 PM**
 Tool Picked Up **5:25 PM**
 Tool Layed Dwn **12:30 AM**

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

Elevation **1839.00** Kelley Bushings **1844.00**

Formation **Lansing "A-F"**
 Interval Top **3260.0** Bottom **3333.0**
 Anchor Len Below **73.0** Between **0**
 Total Depth **3333.0**

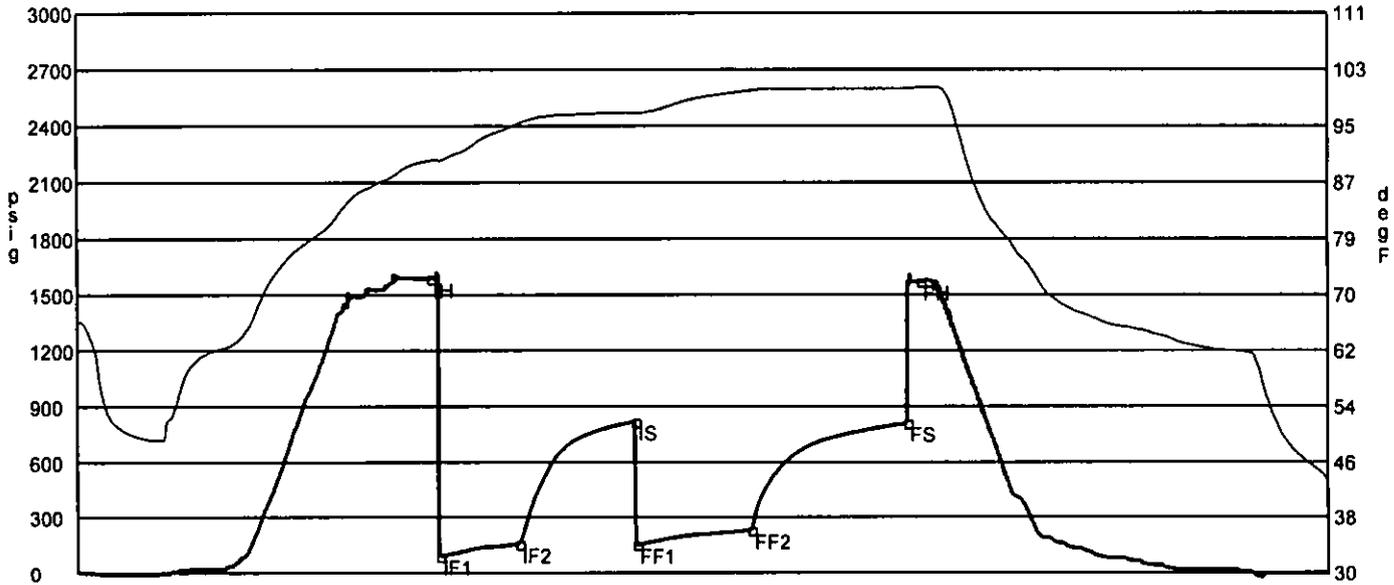
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 End Date/Time **2/12/2011 12:56 AM**

Blow Type **Weak 1/2 inch blow at the start of the initial flow period, building, reaching the bottom of the bucket in 1 1/2 minutes. The blow back during the initial shut-in period built to 1 1/2 inches. Strong blow throughout the final flow period, hitting the bottom of the bucket in 30 seconds. Gas to surface in 35 minutes, but was too weak to measure. Weak surface blow back at the start of the final shut-in period, building, reaching the bottom of the bucket in 16 minutes. Times: 30, 45, 45, 60.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
2810	Gas in Pipe	100% 2810ft	0% 0ft	0% 0ft	0% 0ft
60	Gassy, slight oil cut mud	3% 1.8ft	13% 7.8ft	0% 0ft	84% 50.4ft
65	Gassy slight water, very heavy mud cut oil	3% 2ft	43% 28ft	17% 11ft	37% 24ft
125	Gassy, very heavy water, heavy mud cut oil	3% 3.8ft	39% 48.8ft	31% 38.8ft	27% 33.8ft
120	Very gassy, very slight oil, mud cut water	14% 16.8ft	2% 2.4ft	58% 69.6ft	26% 31.2ft
55	Mud cut water with a very slight trace of oil	0% 0ft	trace	72% 39.6ft	28% 15.4ft
5	Mud	0% 0ft	0% 0ft	0% 0ft	100% 5ft

DST Fluids **92000**



	Date	Time	Pressure	Temp	
IH	2/11/2011 7:09:30 PM	2.258333	1587.945	89.813	Initial Hydro-static
IF1	2/11/2011 7:12:50 PM	2.313889	92.263	89.817	Initial Flow (1)
IF2	2/11/2011 7:43:20 PM	2.822222	158.294	95.117	Initial Flow (2)
IS	2/11/2011 8:28:20 PM	3.572222	819.092	96.708	Initial Shut-In
FF1	2/11/2011 8:28:50 PM	3.580556	153.449	96.623	Final Flow (1)
FF2	2/11/2011 9:13:20 PM	4.322222	229.907	99.877	Final Flow (2)
FS	2/11/2011 10:13:20 PM	5.322222	810.394	100.139	Final Shut-In
FH	2/11/2011 10:18:30 PM	5.408333	1571.5	100.306	Final Hydro-static

GAS FLOWS

<u>Min Into IFP</u>	<u>Min Into FFP</u>	<u>Gas Flows</u>	<u>Pressure</u>	<u>Choke</u>
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CSZ	Great Bend, KS 67530	Legal Desc	E/2-SE-SE-SW
Attn.	Kim Shoemaker	Section	23
		Township	21S
		County	Stafford
		Drilling Cont	Petromark Drilling Rig #2
Job Ticket		Range	12W
State			KS

Comments Field: Sandra

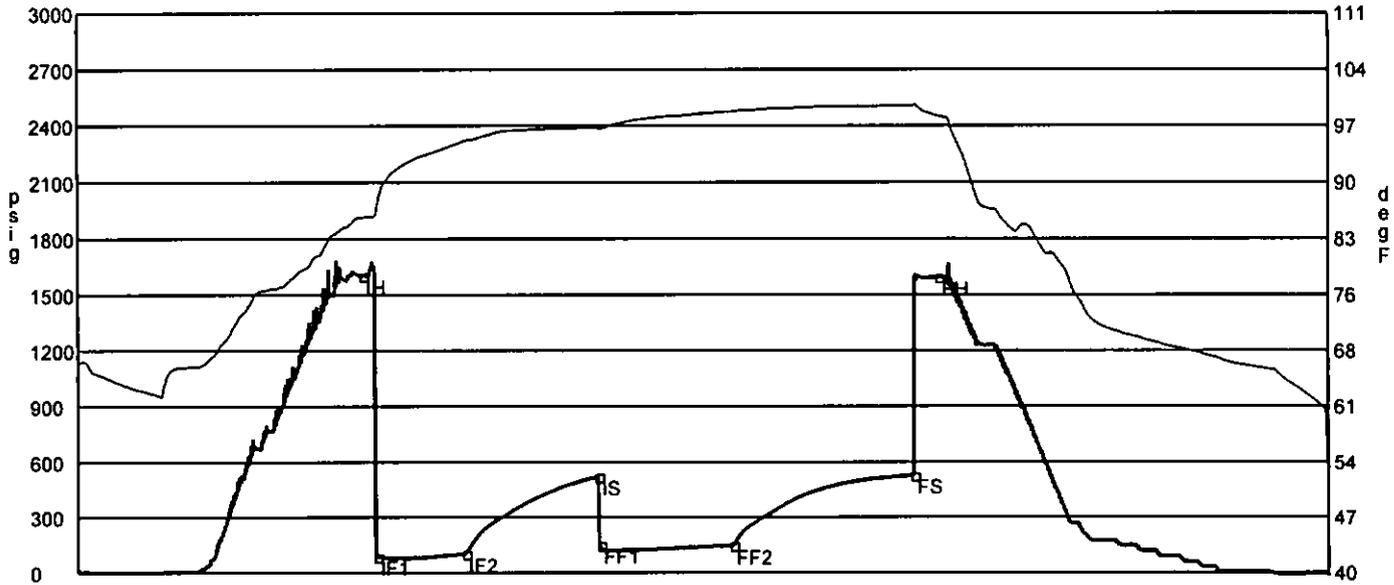
GENERAL INFORMATION

Test # 2	Test Date 2/12/2011	Chokes	3/4	Hole Size	7 7/8
Tester	Tim Venters	Top Recorder #	W1119		
Test Type	Conventional Bottom Hole	Mid Recorder #	W1022		
	Successful Test	Bott Recorder #	13310		
# of Packers	2.0	Packer Size	6 3/4	Mileage	96
				Standby Time	0
Mud Type	Gel Chem	Extra Equipmnt	Safety joint	Approved By	
Mud Weight	9.1	Viscosity	49.0	Time on Site	10:35 AM
Filtrate	11.2	Chlorides	7000	Tool Picked Up	12:20 PM
				Tool Layed Dwn	6:45 PM
Drill Collar Len	120.0	Elevation	1839.00	Kelley Bushings	1844.00
Wght Pipe Len	0				
Formation	Lansing "H,I,J,K"	Start Date/Time	2/12/2011 11:49 AM		
Interval Top	3372.0	Bottom	3452.0	End Date/Time	2/12/2011 6:49 PM
Anchor Len Below	80.0	Between	0		
Total Depth	3452.0				
Blow Type	Fairly strong 2 1/2 inch blow at the start of the intial flow period, building, reaching the bottom of the bucket in 1 minute. Very strong blow throughout the final flow period, hitting the bottom of the bucket instantaneously. Gas to sur face in 4 minutes. Very weak surface blow back at the start of the final shut-in period, building to 3 inches. Times: 30, 45, 45, 60.				

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
2980	Gas in Pipe	100% 2980ft	0% 0ft	0% 0ft	0% 0ft
65	Gassy, very slight oil cut mud	2% 1.3ft	7% 4.6ft	0% 0ft	91% 59.2ft
65	Gassy, very heavy water, very heavy mud cut oil	7% 4.6ft	37% 24ft	23% 15ft	33% 21.4ft
125	Gassy, water and mud cut oil	3% 3.8ft	56% 70ft	22% 27.5ft	19% 23.8ft
60	Gassy, slight water, mud cut oil	2% 1.2ft	57% 34.2ft	11% 6.6ft	30% 18ft
60	Gassy, slight mud, water cut oil	7% 4.2ft	60% 36ft	23% 13.8ft	10% 6ft

DST Fluids 30000



	Date	Time	Pressure	Temp	
IH	2/12/2011 1:23:50 PM	1.580556	1604.042	85.358	Initial Hydro-static
IF1	2/12/2011 1:28:30 PM	1.658333	89.821	86.413	Initial Flow (1)
IF2	2/12/2011 1:58:20 PM	2.155556	104.746	94.962	Initial Flow (2)
IS	2/12/2011 2:43:00 PM	2.9	522.172	96.529	Initial Shut-In
FF1	2/12/2011 2:43:30 PM	2.908333	152.091	96.474	Final Flow (1)
FF2	2/12/2011 3:28:30 PM	3.658333	146.678	98.621	Final Flow (2)
FS	2/12/2011 4:29:10 PM	4.669444	528.768	99.356	Final Shut-In
FH	2/12/2011 4:37:30 PM	4.808333	1594.2	98.068	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
0	10	4.91 mcf	8.50 h2o	0.25 in
0	20	5.19 mcf	9.50 h2o	0.25 in
0	30	5.46 mcf	10.50 h2o	0.25 in
0	40	5.05 mcf	9.00 h2o	0.25 in
0	45	4.91 mcf	8.50 h2o	0.25 in

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 Legal Desc **E/2-SE-SE-SW**
 Section **23**
 Township **21S**
 County **Stafford**
 Drilling Cont **Petromark Drilling Rig #2**

Job Ticket **2139**
 Range **12W**
 State **KS**

Comments **Field: Sandra**

GENERAL INFORMATION

Test # **3** Test Date **2/13/2011**
 Tester **Tim Venters**
 Test Type **Conventional Bottom Hole Successful Test**
 # of Packers **2.0** Packer Size **6 3/4**

Chokes **3/4** Hole Size **7 7/8**
 Top Recorder # **W1119**
 Mid Recorder # **W1022**
 Bott Recorder # **13310**

Mud Type **Gel Chem**
 Mud Weight **9.2** Viscosity **52.0**
 Filtrate **9.2** Chlorides **7000**

Mileage **96** Approved By
 Standby Time **0**
 Extra Equipmnt **Jars & Safety joint**
 Time on Site **4:00 AM**
 Tool Picked Up **6:05 AM**
 Tool Layed Dwn **12:05 PM**

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

Elevation **1839.00** Kelley Bushings **1844.00**

Formation **Cong./Viola**
 Interval Top **3477.0** Bottom **3535.0**
 Anchor Len Below **58.0** Between **0**
 Total Depth **3535.0**

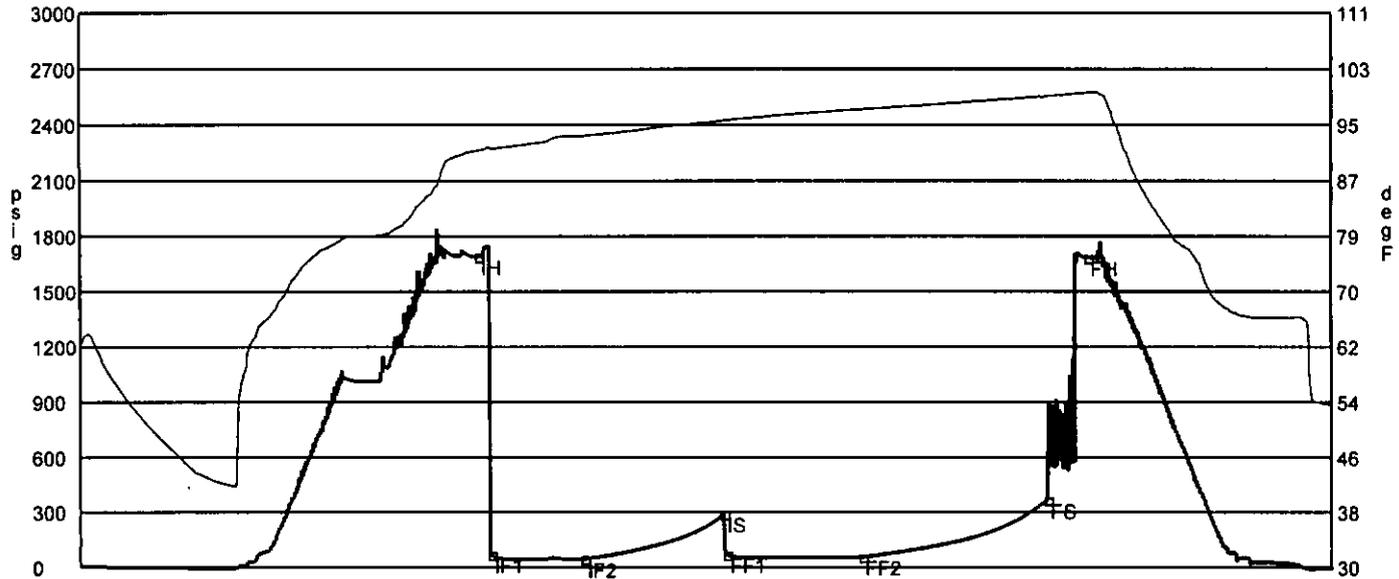
Start Date/Time **2/13/2011 5:23 AM**
 End Date/Time **2/13/2011 12:08 PM**

Blow Type **Weak surface blow at the start of the initial flow period, building to 5 inches. Very weak surface blow back during the initial shut-in period. Fairly strong 2 1/2 inch blow at the start of the final flow period, building, reaching the bottom of the bucket in 35 minutes. Times: 30, 45, 45, 60.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
200	Gas on Pipe	100% 200ft	0% 0ft	0% 0ft	0% 0ft
45	Gassy, slight oil cut mud	13% 5.9ft	15% 6.8ft	0% 0ft	72% 32.4ft

DST Fluids **0**



	Date	Time	Pressure	Temp	
IH	2/13/2011 7:31:20 AM	2.138889	1691.827	91.125	Initial Hydro-static
IF1	2/13/2011 7:35:20 AM	2.205556	71.974	91.435	Initial Flow (1)
IF2	2/13/2011 8:05:40 AM	2.711111	48.201	93.26	Initial Flow (2)
IS	2/13/2011 8:51:00 AM	3.466667	291.98	95.442	Initial Shut-In
FF1	2/13/2011 8:51:50 AM	3.480556	72.592	95.443	Final Flow (1)
FF2	2/13/2011 9:35:50 AM	4.213889	58.631	97.122	Final Flow (2)
FS	2/13/2011 10:36:00 AM	5.216667	367.51	98.953	Final Shut-In
FH	2/13/2011 10:49:00 AM	5.433333	1685.165	99.48	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

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 County **Stafford** State **KS**
 Drilling Cont **Petromark Drilling Rig #2**

Comments **Field: Sandra**

GENERAL INFORMATION

Test # **4** Test Date **2/14/2011**
 Tester **Tim Venters**
 Test Type **Conventional Bottom Hole**

Chokes **3/4** Hole Size **7 7/8**
 Top Recorder # **W1119**
 Mid Recorder # **W1022**
 Bott Recorder # **13310**

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

Mileage **96** Approved By
 Standby Time **0**

Mud Type **Gel Chem**
 Mud Weight **9.2** Viscosity **52.0**
 Filtrate **9.2** Chlorides **7000**

Extra Equipmnt **Jars, Safety joint, Small packer**
 Time on Site **7:45 PM**
 Tool Picked Up **10:55 PM**
 Tool Layed Dwn **2:45 AM**

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

Elevation **1839.00** Kelley Bushings **1844.00**

Formation **Arbuckle**
 Interval Top **3570.0** Bottom **3640.0**
 Anchor Len Below **70.0** Between **0**
 Total Depth **3640.0**

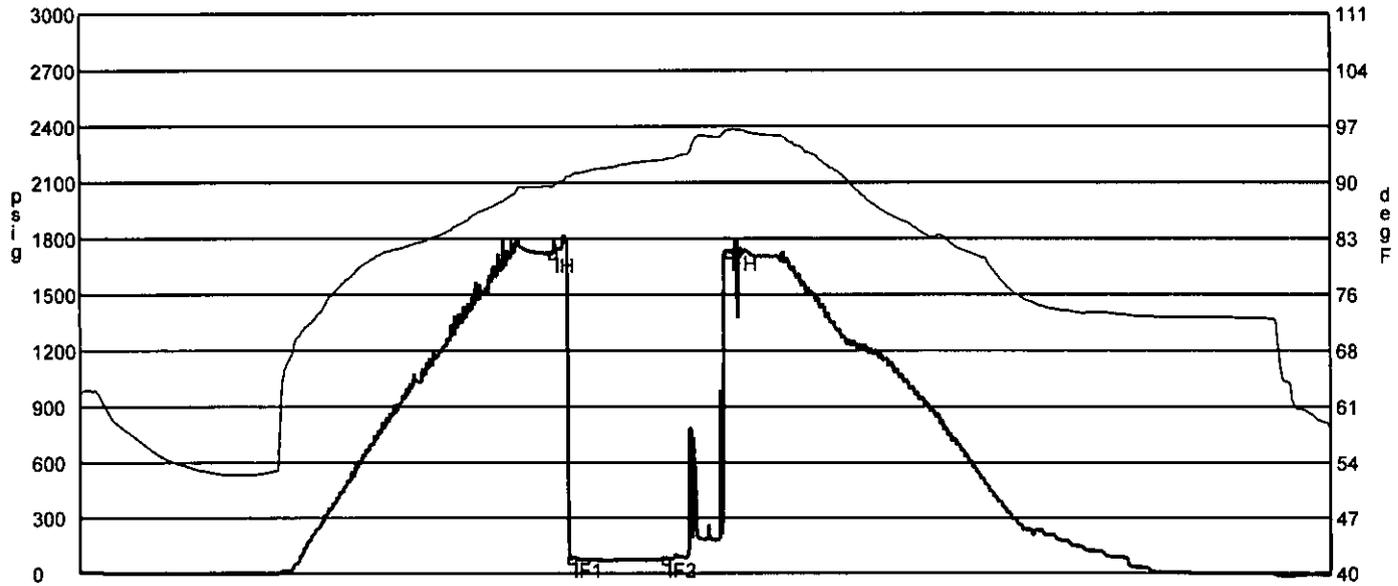
Start Date/Time **2/13/2011 10:24 PM**
 End Date/Time **2/14/2011 2:47 AM**

Blow Type **Weak 1/2 inch blow at the start of the initial flow period, building to 4 inches in 25 minutes. We lost packer seed before we turned the tool. I'm guessing we would have had a 4 to 5 inch blow. Times: 30, 0, 0, 0.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
65	Very slight oil cut mud	0% 0ft	1% 0.6ft	0% 0ft	99% 64.4ft
65	Mud with a very slight trace of oil	0% 0ft	trace	0% 0ft	100% 65ft
245	Gassy mud with a very slight trace of oil	3% 7.4ft	trace	0% 0ft	97% 237.6ft

DST Fluids **0**



	Date	Time	Pressure	Temp	
IH	2/14/2011 12:02:40 AM	1.644444	1721.014	89.279	Initial Hydro-static
IF1	2/14/2011 12:06:40 AM	1.711111	79.998	90.49	Initial Flow (1)
IF2	2/14/2011 12:26:30 AM	2.041667	78.659	92.603	Initial Flow (2)
FH	2/14/2011 12:40:00 AM	2.266667	1729.201	96.346	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

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 Section **23** Range **12W**
 Township **21S**
 County **Stafford** State **KS**
 Drilling Cont **Petromark Drilling Rig #2**

Comments **Field: Sandra**

GENERAL INFORMATION

Test # **5** Test Date **2/14/2011**
 Tester **Tim Venters**
 Test Type **Conventional Bottom Hole**
Successful Test
 # of Packers **2.0** Packer Size **6 3/4**

Mud Type **Gel Chem**
 Mud Weight **9.3** Viscosity **45.0**
 Filtrate **11.2** Chlorides **8600**

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

Formation **Arbuckle**
 Interval Top **3628.0** Bottom **3650.0**
 Anchor Len Below **22.0** Between **0**
 Total Depth **3650.0**
 Blow Type **Weak 1/2 inch blow at the start of the intial flow period, building to 1 1/2 inc**

hes in 10 minutes where it held the rest of the period. Weak surface blow at th
e start of the final flow period, building to 1/4 inch. Weak surface blow back
during the final shut-in period. Times: 30, 30, 30, 30.

Chokes **3/4** Hole Size **7 7/8**
 Top Recorder # **W1119**
 Mid Recorder # **W1022**
 Bott Recorder # **13310**

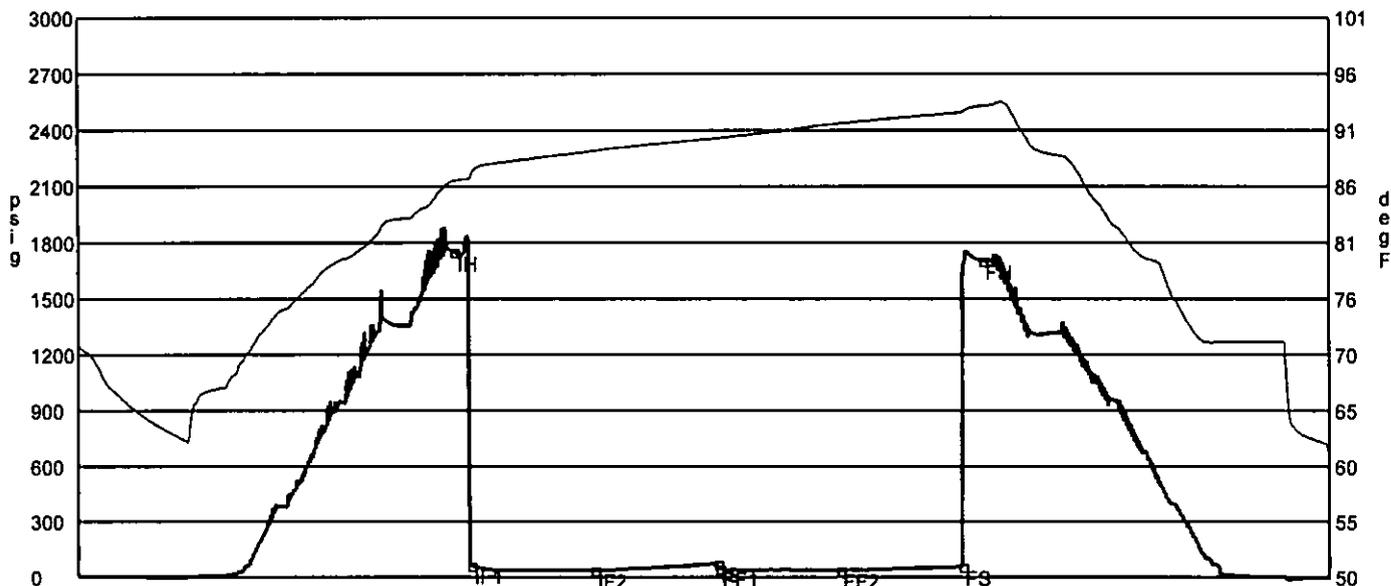
Mileage **0** Approved By
 Standby Time **0**
 Extra Equipmnt **Jars & Safety joint**
 Time on Site **7:45 PM**
 Tool Picked Up **10:20 AM**
 Tool Layed Dwn **2:50 PM**

Elevation **1839.00** Kelley Bushings **1844.00**

Start Date/Time **2/14/2011 9:51 AM**
 End Date/Time **2/14/2011 2:55 PM**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
30	Very slight oil cut mud	0% 0ft	1% 0.3ft	0% 0ft	99% 29.7ft
DST Fluids 0					



	Date	Time	Pressure	Temp	
IH	2/14/2011 11:21:50 AM	1.513889	1751.53	86.222	Initial Hydro-static
IF1	2/14/2011 11:25:50 AM	1.580556	66.091	86.558	Initial Flow (1)
IF2	2/14/2011 11:56:00 AM	2.083333	38.429	88.915	Initial Flow (2)
IS	2/14/2011 12:26:00 PM	2.583333	75.375	90.09	Initial Shut-In
FF1	2/14/2011 12:26:30 PM	2.591667	49.608	90.103	Final Flow (1)
FF2	2/14/2011 12:56:00 PM	3.083333	39.377	91.427	Final Flow (2)
FS	2/14/2011 1:25:50 PM	3.580556	57.774	92.401	Final Shut-In
FH	2/14/2011 1:30:50 PM	3.663889	1703.785	93.007	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke