



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 29, 2011

Leon Rodak
Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-039-21131-00-00
Erma, Inc 1-5
SE/4 Sec.05-02S-29W
Decatur County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Leon Rodak

MDCI Erma, Inc. #1-5 900' FSL 780' FEL Sec. 5-T2S-R29W 2795' KB							MDCI May #1-18 2200 FSL 2100 FWL Sec. 18-T2S-R29W 2795' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2543	+252	+4	2543	+252	+4	2547	+248
B/Anhydrite	2576	+218	+3	2576	+215	+3	2580	+215
Neva	3212	-417	-1	3214	-419	-3	3211	-416
Topeka	3606	-811	-5	3598	-803	+3	3601	-806
Heebner	3758	-963	Flat	3760	-965	-2	3758	-963
Lansing	3800	-1005	+2	3807	-1012	-5	3802	-1007
Lansing D	3827	-1032	+6	3839	-1044	-6	3833	-1038
Lansing G	3880	-1085	+1	3883	-1088	-2	3881	-1086
Lansing H	3918	-1123	-5	3920	-1125	-7	3913	-1118
Stark	3969	-1174	-3	3972	-1177	-6	3966	-1171
BKC	4025	-1230	-5	4024	-1229	-4	4008	-1213
RTD	4084	-1289					4524	
LTD				4079	-1284		4527	



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling
250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

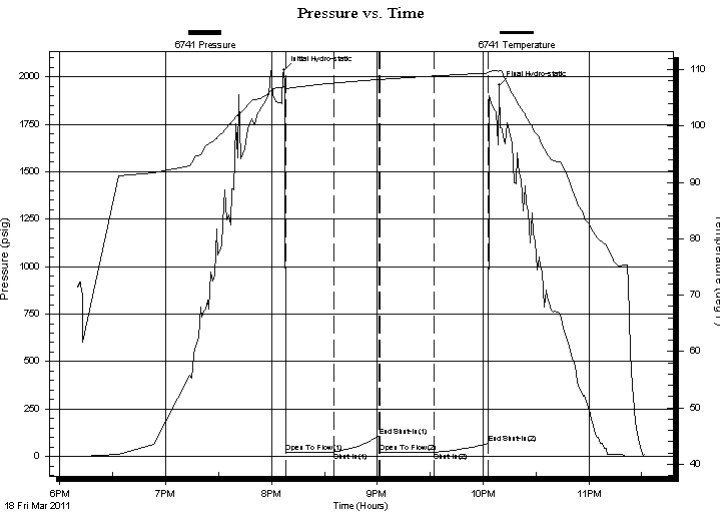
Ema # 1-5
5 2s 29w Decatur Ks.
Job Ticket: 040751 **DST#: 1**
Test Start: 2011.03.18 @ 18:10:00

GENERAL INFORMATION:

Formation: **LKC-A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:08:09
Time Test Ended: 23:31:39
Interval: **3767.00 ft (KB) To 3824.00 ft (KB) (TVD)**
Total Depth: 3824.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Kreuzer Jr.
Unit No: 36
Reference Elevations: 2975.00 ft (KB)
2970.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
Press @ Run Depth: 24.30 psig @ 3768.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.18 End Date: 2011.03.18 Last Calib.: 2011.03.18
Start Time: 18:10:01 End Time: 23:31:39 Time On Btm: 2011.03.18 @ 20:07:09
Time Off Btm: 2011.03.18 @ 22:09:09

TEST COMMENT: IF: Weak surface blow died in 8 mins.
IS: No blow back over 30 mins.
FF: No blow over 30 mins.
FS: No blow back over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2033.37	107.03	Initial Hydro-static
1	20.21	106.46	Open To Flow (1)
28	24.45	107.60	Shut-In(1)
54	107.49	108.23	End Shut-In(1)
55	22.63	108.22	Open To Flow (2)
85	24.30	108.86	Shut-In(2)
116	67.46	109.40	End Shut-In(2)
122	1954.72	109.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w ith oil specs	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling

Ema # 1-5

250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

5 2s 29w Decatur Ks.

Job Ticket: 040751 **DST#: 1**

Test Start: 2011.03.18 @ 18:10:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.49 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

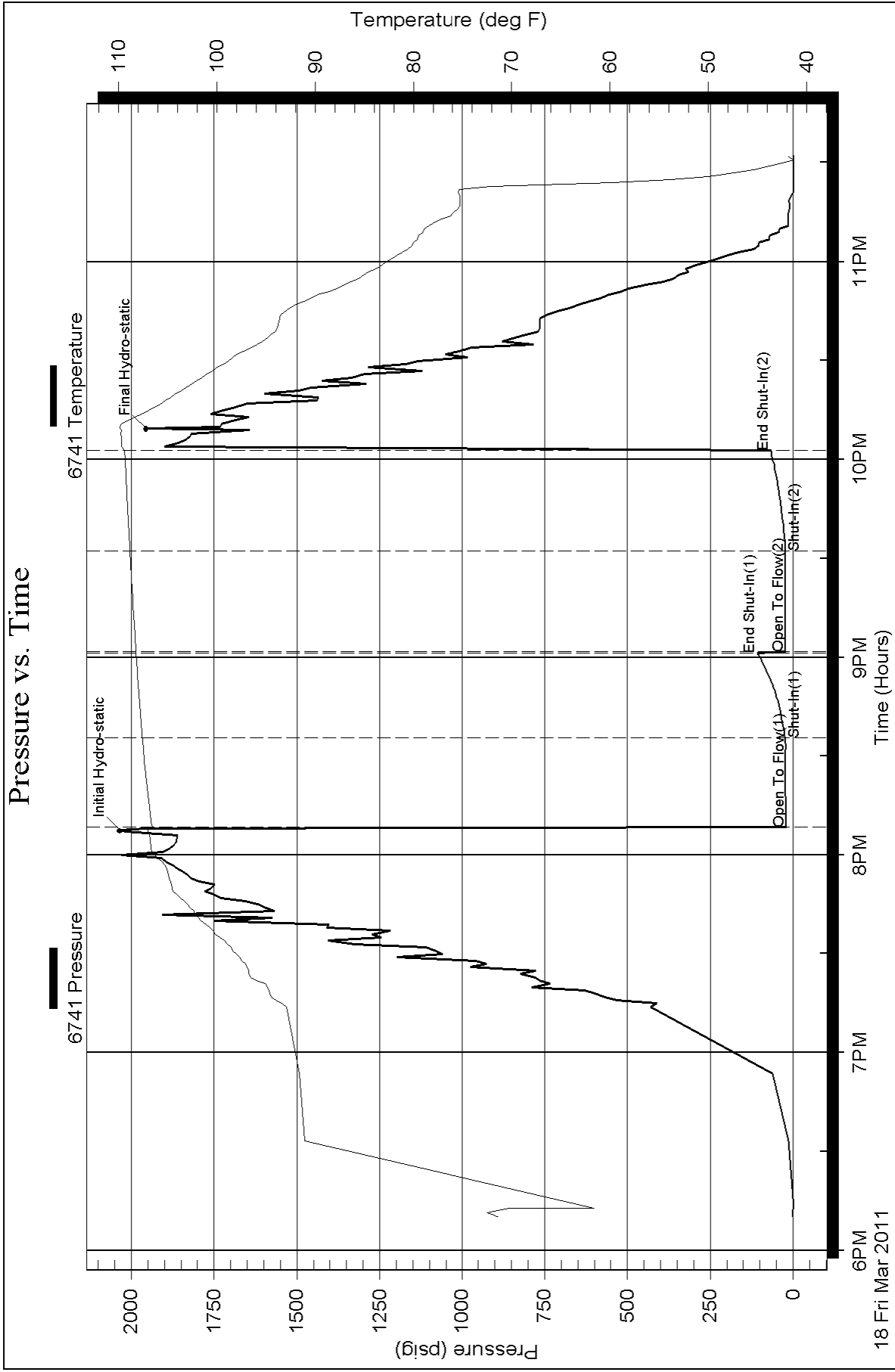
Length ft	Description	Volume bbl
10.00	mud w ith oil specs	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling
 250 N. Water
 Ste. 300 Wichita KS.
 67202
 ATTN:

Ema # 1-5
5 2s 29w Decatur Ks.
 Job Ticket: 040752 **DST#: 2**
 Test Start: 2011.03.19 @ 10:20:00

GENERAL INFORMATION:

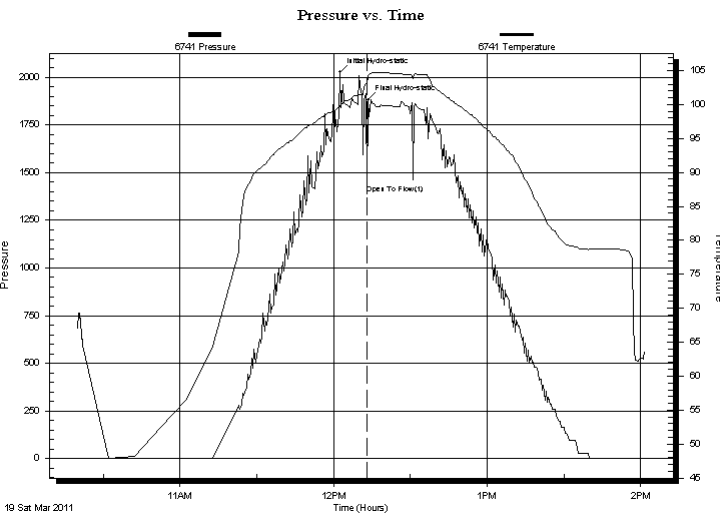
Formation: **LKC-D-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:13:00
 Time Test Ended: 14:01:30
Interval: 3808.00 ft (KB) To 3900.00 ft (KB) (TVD)
 Total Depth: 3900.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Chuck Kreutzer Jr.
 Unit No: 36
 Reference Elevations: 2975.00 ft (KB)
 2970.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6741

Outside

Press @ Run Depth: psig @ 3809.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.19 End Date: 2011.03.19 Last Calib.: 2011.03.19
 Start Time: 10:20:01 End Time: 14:01:30 Time On Btm: 2011.03.19 @ 12:02:30
 Time Off Btm: 2011.03.19 @ 12:13:30

TEST COMMENT: ___ Packers didn't hold ___



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.64	99.68	Initial Hydro-static
11	1388.01	103.08	Open To Flow (1)
11	1883.04	104.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mud	0.89

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling
250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

Ema # 1-5
5 2s 29w Decatur Ks.
Job Ticket: 040752 **DST#: 2**
Test Start: 2011.03.19 @ 10:20:00

Mud and Cushion Information

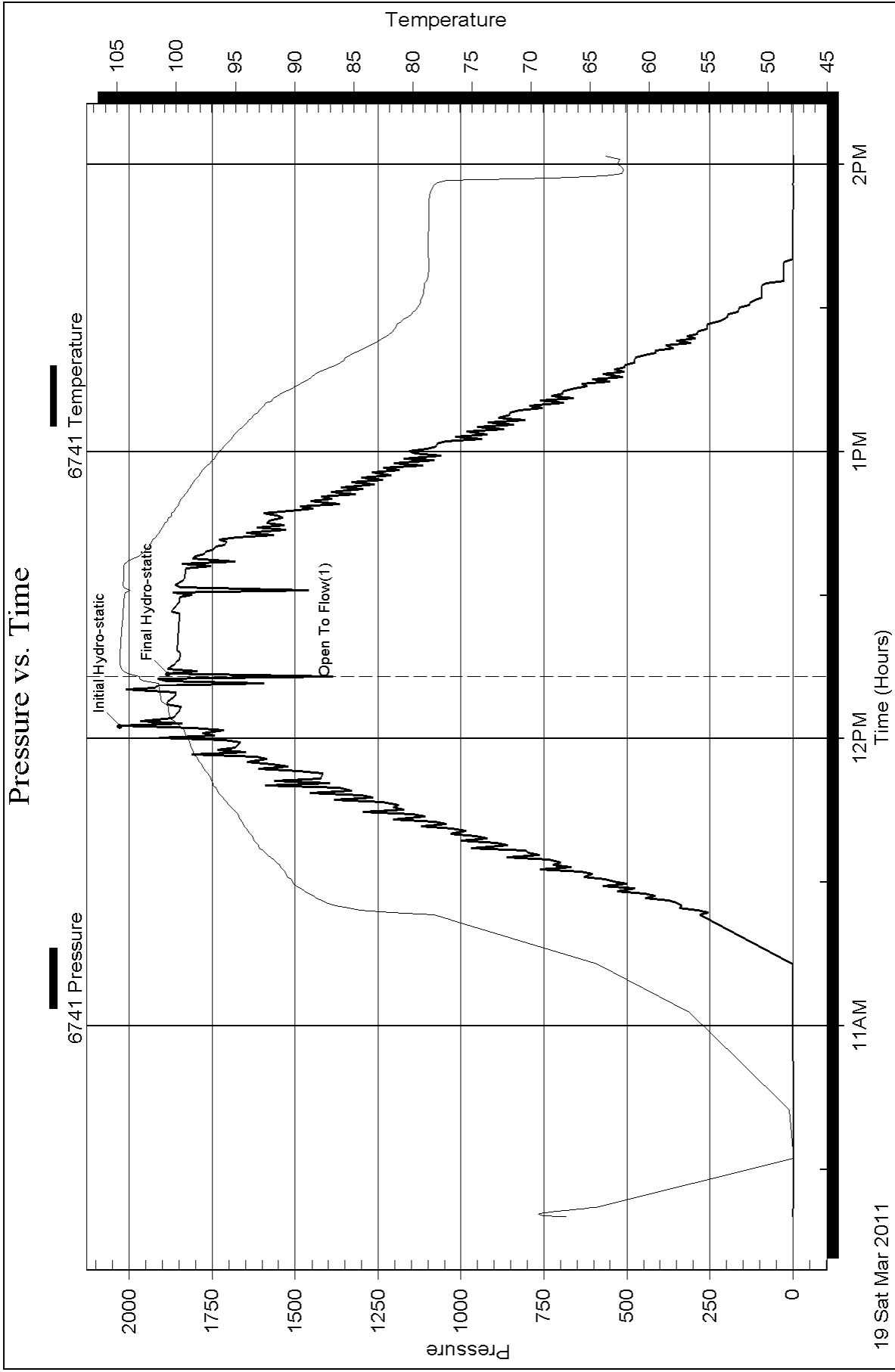
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	mud	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling
 250 N. Water
 Ste. 300 Wichita KS.
 67202
 ATTN:

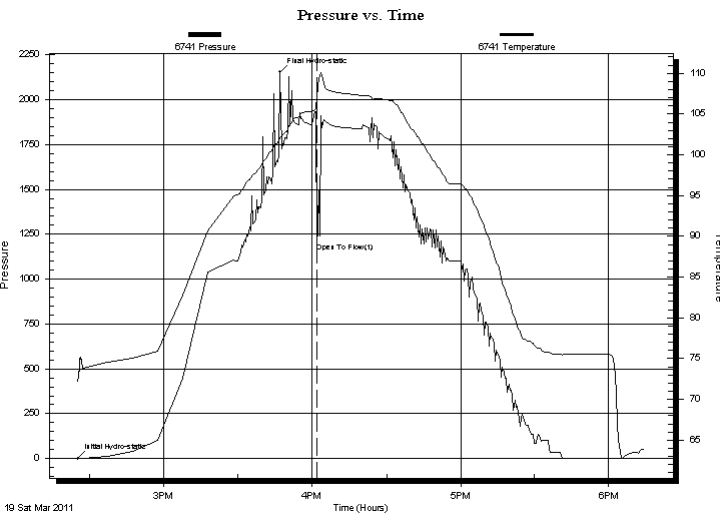
Ema # 1-5
5 2s 29w Decatur Ks.
 Job Ticket: 040753 **DST#: 3**
 Test Start: 2011.03.19 @ 14:25:00

GENERAL INFORMATION:

Formation: **LKC-D-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:02:00
 Time Test Ended: 18:14:30
Interval: 3804.00 ft (KB) To 3900.00 ft (KB) (TVD)
 Total Depth: 3900.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Chuck Kreuzer Jr.
 Unit No: 36
 Reference Elevations: 2975.00 ft (KB)
 2970.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
 Press @ RunDepth: psig @ 3805.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.19 End Date: 2011.03.19 Last Calib.: 2011.03.19
 Start Time: 14:25:01 End Time: 18:14:30 Time On Btm: 2011.03.19 @ 14:25:01
 Time Off Btm: 2011.03.19 @ 15:47:00

TEST COMMENT: ___ Packers Didnt hold ___



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	-1.08	72.24	Initial Hydro-static
82	2152.28	102.14	Final Hydro-static
97	1153.18	107.18	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling

Ema # 1-5

250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

5 2s 29w Decatur Ks.

Job Ticket: 040753 **DST#: 3**
Test Start: 2011.03.19 @ 14:25:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

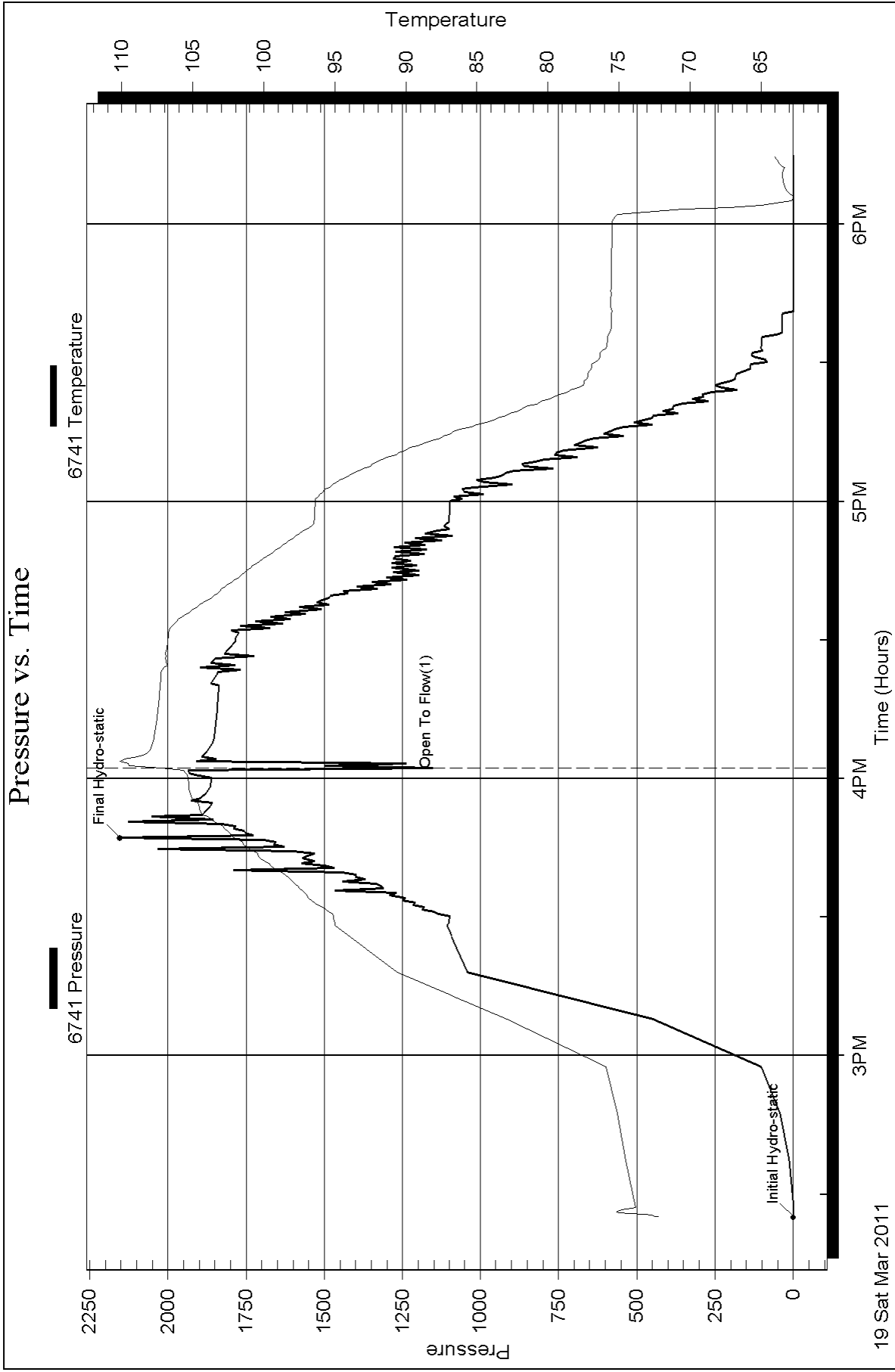
Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling
 250 N. Water
 Ste. 300 Wichita KS.
 67202
 ATTN:

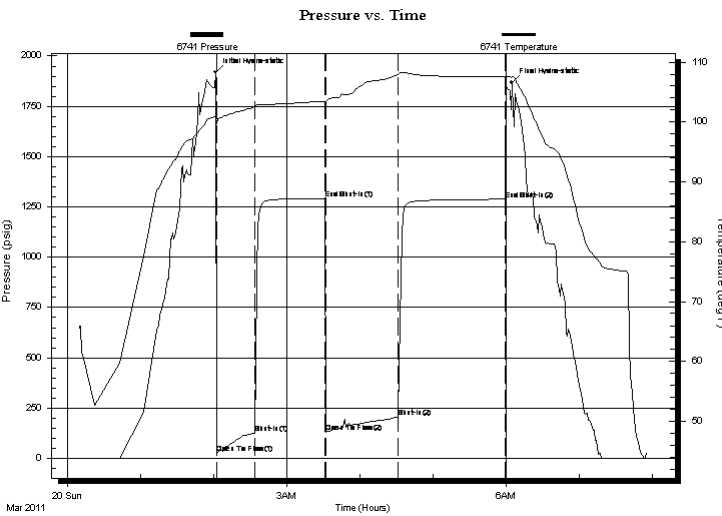
Ema # 1-5
5 2s 29w Decatur Ks.
 Job Ticket: 040754 **DST#: 4**
 Test Start: 2011.03.20 @ 00:10:00

GENERAL INFORMATION:

Formation: **LKC-D-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:02:30
 Time Test Ended: 07:56:00
Interval: 3765.00 ft (KB) To 3900.00 ft (KB) (TVD)
 Total Depth: 3900.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Chuck Kreuzer Jr.
 Unit No: 36
 Reference Elevations: 2975.00 ft (KB)
 2970.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
 Press @ Run Depth: 205.74 psig @ 3766.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.20 End Date: 2011.03.20 Last Calib.: 2011.03.20
 Start Time: 00:10:01 End Time: 07:56:00 Time On Btm: 2011.03.20 @ 02:01:30
 Time Off Btm: 2011.03.20 @ 06:05:00

TEST COMMENT: IF: Weak blow built to 4 in. over 30 mins.
 IS: No blow back over 60 mins.
 FF: Weak blow built to 7 in. over 60 mins.
 FS: No blow back over 90 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1918.69	100.85	Initial Hydro-static
1	27.06	99.80	Open To Flow (1)
32	126.40	102.57	Shut-In(1)
90	1292.23	103.48	End Shut-In(1)
91	132.07	103.40	Open To Flow (2)
150	205.74	107.93	Shut-In(2)
238	1288.10	107.59	End Shut-In(2)
244	1868.31	107.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud w ith oil specs	0.30
300.00	mud	3.12

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling
250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

Ema # 1-5
5 2s 29w Decatur Ks.
Job Ticket: 040754 **DST#: 4**
Test Start: 2011.03.20 @ 00:10:00

Mud and Cushion Information

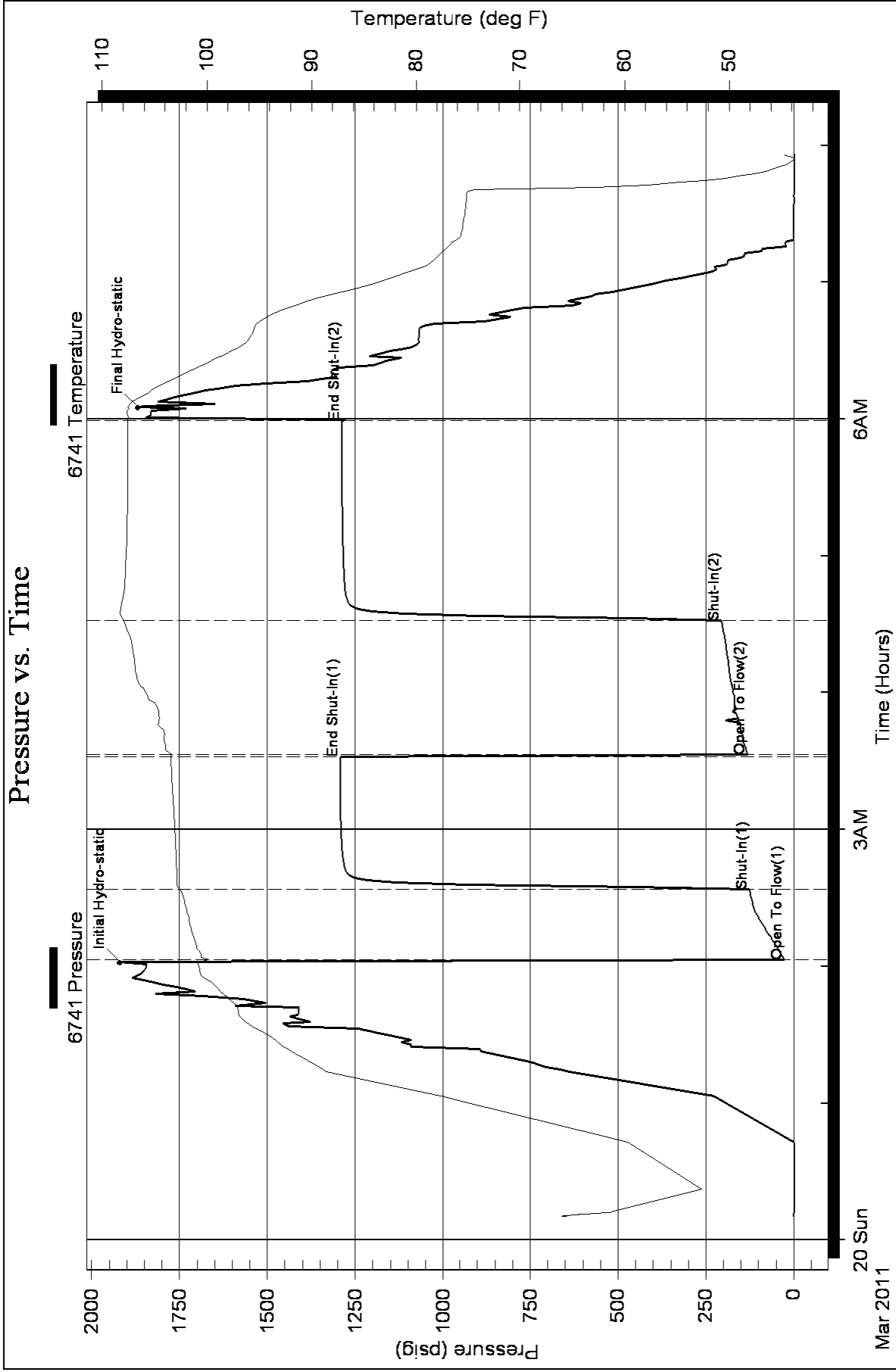
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud w ith oil specs	0.295
300.00	mud	3.115

Total Length: 360.00 ft Total Volume: 3.410 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling
250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

Ema # 1-5
5 2s 29w Decatur Ks.
Job Ticket: 040755 **DST#: 5**
Test Start: 2011.03.20 @ 17:55:00

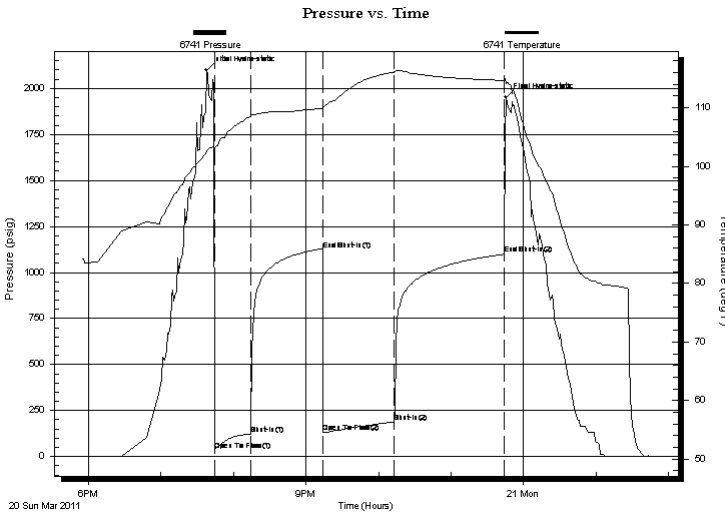
GENERAL INFORMATION:

Formation: **LKC-H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:44:00
Time Test Ended: 01:44:30
Interval: **3898.00 ft (KB) To 3972.00 ft (KB) (TVD)**
Total Depth: 3972.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Chuck Kreuzer Jr.
Unit No: 36
Reference Elevations: 2975.00 ft (KB)
2970.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
Press @ Run Depth: 188.50 psig @ 3899.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.20 End Date: 2011.03.21 Last Calib.: 2011.03.21
Start Time: 17:55:01 End Time: 01:44:30 Time On Btm: 2011.03.20 @ 19:37:30
Time Off Btm: 2011.03.20 @ 23:45:30

TEST COMMENT: IF: Weak blow , Built to 6 in. over 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow after 15 mins. Built to 6 in. over 60 mins.
FSI: No blow back over 90 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.01	102.60	Initial Hydro-static
7	31.16	103.09	Open To Flow (1)
37	121.83	108.57	Shut-In(1)
96	1121.25	109.94	End Shut-In(1)
97	129.76	109.92	Open To Flow (2)
156	188.50	116.13	Shut-In(2)
247	1098.74	114.68	End Shut-In(2)
248	1950.90	114.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcw -30% m 70% w	0.89
62.00	w cm-30% w 70% m	0.87
62.00	mud-100% m	0.87
62.00	mud w ith 2ft. free oil	0.87

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling
250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

Ema # 1-5
5 2s 29w Decatur Ks.
Job Ticket: 040755 **DST#: 5**
Test Start: 2011.03.20 @ 17:55:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	21000 ppm
Viscosity: 72.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: 0.40 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 2.00 inches			

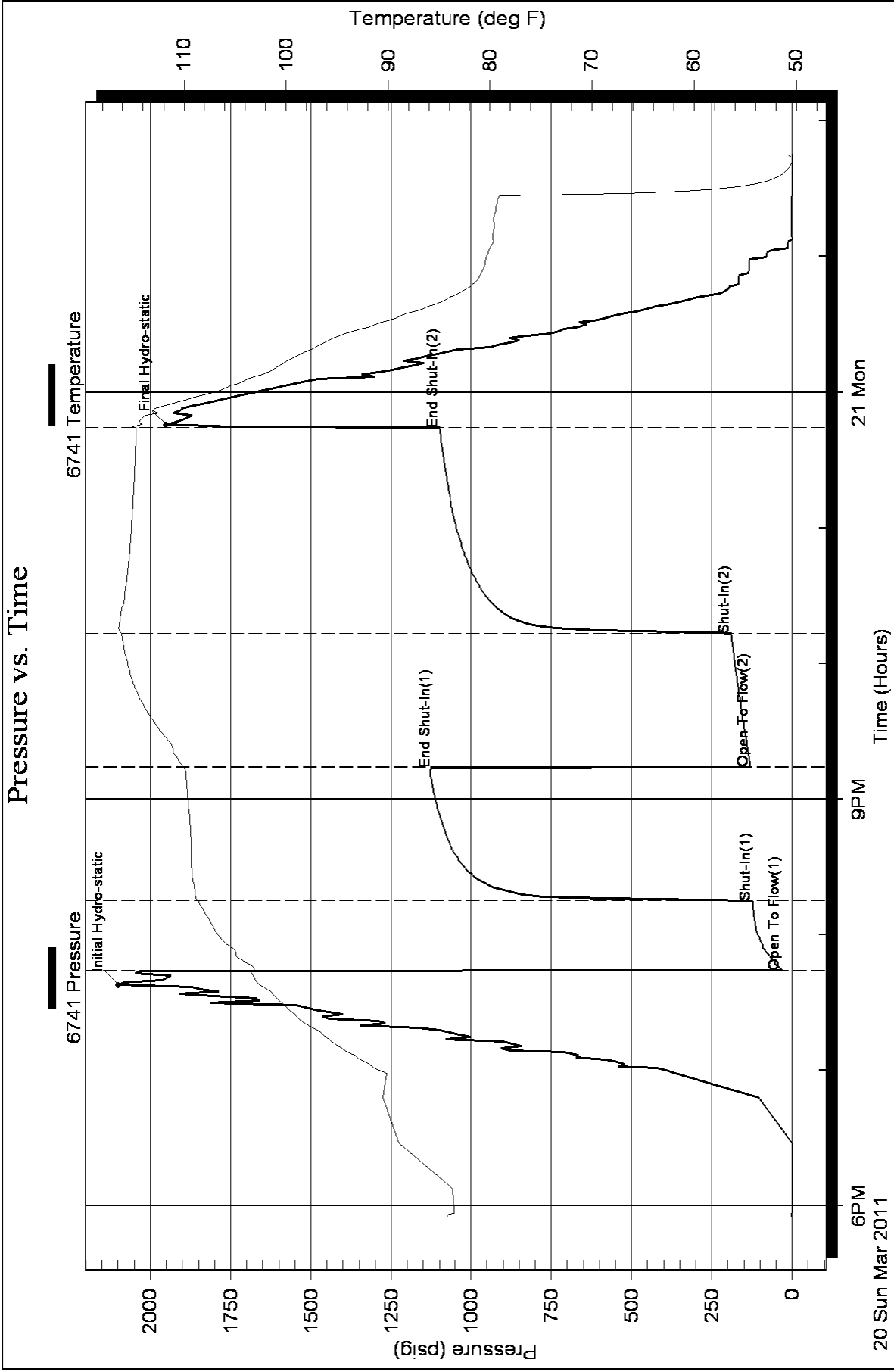
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	mcw -30%m70%w	0.885
62.00	w cm-30%w 70%m	0.870
62.00	mud-100%m	0.870
62.00	mud w ith 2ft. free oil	0.870

Total Length: 366.00 ft Total Volume: 3.495 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling
250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

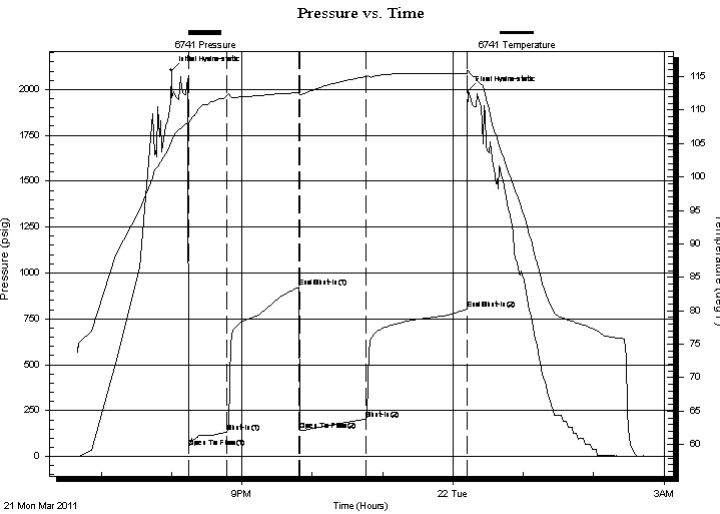
Ema # 1-5
5 2s 29w Decatur Ks.
Job Ticket: 040756 **DST#: 6**
Test Start: 2011.03.21 @ 18:40:00

GENERAL INFORMATION:

Formation: **LKC-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:14:30
Time Test Ended: 02:44:00
Test Type: Conventional Bottom Hole
Tester: Chuck Kreuzer Jr.
Unit No: 36
Interval: **3968.00 ft (KB) To 4080.00 ft (KB) (TVD)**
Reference Elevations: 2975.00 ft (KB)
Total Depth: 4080.00 ft (KB) (TVD) 2970.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 6741 Outside
Press @ Run Depth: 203.06 psig @ 3974.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.21 End Date: 2011.03.22 Last Calib.: 2011.03.22
Start Time: 18:40:01 End Time: 02:44:00 Time On Btm: 2011.03.21 @ 20:00:00
Time Off Btm: 2011.03.22 @ 00:13:00

TEST COMMENT: IF: Fair blow , Built to B.O.B in 19 mins.
IS: Weak blow back after 20 mins. Died after 30 mins.
FF: Fair blow , Built to B.O.B in 22 mins.
FS: Weak blow back after 5 mins. Built to 1/4 in. over 30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.99	105.30	Initial Hydro-static
15	50.25	108.07	Open To Flow (1)
48	134.43	112.20	Shut-In(1)
109	923.35	112.57	End Shut-In(1)
110	144.00	112.22	Open To Flow (2)
166	203.06	114.99	Shut-In(2)
252	802.83	115.46	End Shut-In(2)
253	1991.34	115.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gsocw m-10%g10%o30%w 50%m	0.59
184.00	ghocw m-10%g38%o2%w 50%m	2.03
154.00	go-15%g85%o	2.16
0.00	330-gas in pipe	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling

Ema # 1-5

250 N. Water
Ste. 300 Wichita KS.
67202
ATTN:

5 2s 29w Decatur Ks.

Job Ticket: 040756

DST#: 6

Test Start: 2011.03.21 @ 18:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gsocw m-10%g10%o30%w 50%m	0.590
184.00	ghocw m-10%g38%o2%w 50%m	2.034
154.00	go-15%g85%o	2.160
0.00	330-gas in pipe	0.000

Total Length: 458.00 ft

Total Volume: 4.784 bbl

Num Fluid Samples: 0

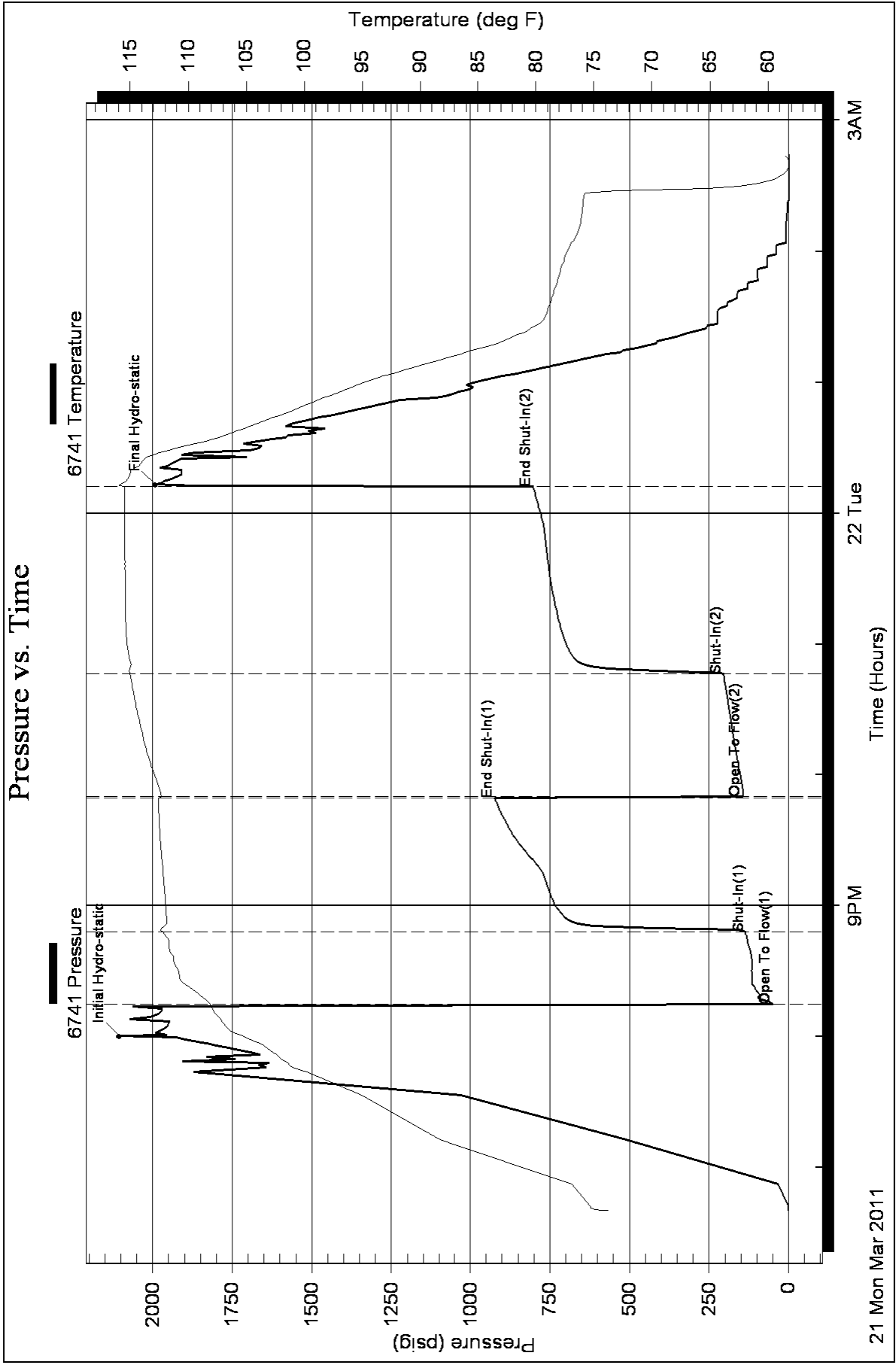
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

Bill To:
Murfin Drlg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

MOE/BR

Federal Tax I.D.#: 20-5975804

creat. Aug.

INVOICE

Invoice Number: 126551
Invoice Date: Mar 14, 2011
Page: 1

Customer ID	Well Name# or Customer P.O.	Payment Terms
Murfin	Erma Inc #1-5	Net 30 Days
Job Location	Camp Location	Service Date
KS1-01	Oakley	Mar 14, 2011
		Due Date
		4/13/11

Quantity	Item	Description	Unit Price	Amount
220.00	MAT	Class A Common	15.45	3,399.00
8.00	MAT	Chloride	58.20	465.60
228.00	SER	Handling	2.40	547.20
55.00	SER	Mileage 228 sx @.10 per sk per mi	22.80	1,254.00
1.00	SER	Surface	1,018.00	1,018.00
55.00	SER	Pump Truck Mileage	7.00	385.00

Subtotal	7,068.80
Sales Tax	282.12
Total Invoice Amount	7,350.92
Payment/Credit Applied	
TOTAL	7,350.92

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2474.08

ONLY IF PAID ON OR BEFORE
Apr 8, 2011

DD

Wm

-2474.08

4876.84

ALLIED CEMENTING CO., LLC. 039887

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Overlook, KS

DATE <u>3/14/11</u>	SEC. <u>5</u>	TWP. <u>2</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START COUNTY <u>Anderson</u>	JOB FINISH STATE <u>KS</u>
LEASE <u>Am & J Well # 1-5</u>	LOCATION <u>Obertlin 5 N 30 W 14 N</u>						
OLD OR NEW <u>NEW</u> (Circle one)	LOCATION <u>into</u>						

CONTRACTOR Martin # 8 OWNER SHANE

TYPE OF JOB Side Face T.D. 305'
HOLE SIZE 12 1/4 DEPTH 305'
CASING SIZE 8 7/8

CEMENT AMOUNT ORDERED 220 SKs Cem 370 cc

TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15</u>	
PERFS.	
DISPLACEMENT <u>18.4) BBL H₂O</u>	

EQUIPMENT

PUMP TRUCK CEMENTER <u>Alan</u>	
# <u>472</u> HELPER <u>Wayne</u>	
BULK TRUCK	
# DRIVER <u>Wil</u>	
BULK TRUCK	
# DRIVER	

COMMON <u>220</u>	@ <u>15</u>	<u>45</u>	<u>3399</u>	<u>00</u>
POZMIX	@			
GEL	@			
CHLORIDE <u>8</u>	@ <u>52.22</u>		<u>465</u>	<u>00</u>
ASC	@			
	@			
	@			
	@			
	@			
	@			
	@			
	@			
	@			
HANDLING <u>228</u>	@ <u>2.40</u>		<u>547</u>	<u>20</u>
MILEAGE <u>124 SK/mile</u>	@		<u>1254</u>	<u>00</u>
TOTAL			<u>5665.80</u>	

REMARKS:

Cost Hole, Run 8 5/8" Casing to May 220 SKs Cem 370 cc. Dipline, Wash out Cellar.

Cement Add Cementable
Thank you
Alan, Wayne, etc.

CHARGE TO: Martin Drilling Co
STREET _____ CITY _____ STATE _____ ZIP _____

DEPTH OF JOB	<u>305'</u>
PUMP TRUCK CHARGE	<u>10.8</u>
EXTRA FOOTAGE	@
MILEAGE <u>55</u>	@ <u>22</u>
MANIFOLD	@
	@
	@
TOTAL	<u>1403</u>

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@
TOTAL	

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney Fair
SIGNATURE Rodney Fair

SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Invoice

DATE	INVOICE #
3/29/2011	19435

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-5	Erma Inc.	Decatur	Company Rig	Oil	Development	Cement Port Collar	Don
PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT			
575D	Mileage - 1 Way	100	Miles	5.00	500.00			
576D-D	Pump Charge - Port Collar - 2550 Feet	1	Job	1,100.00	1,100.00			
290	D-Air	2	Gallon(s)	35.00	70.00T			
330	Swift Multi-Density Standard (MIDCON II)	150	Sacks	15.00	2,250.00T			
276	Flocele	38	Lb(s)	1.50	57.00T			
581D	Service Charge Cement	350	Sacks	1.50	525.00			
583D	Drayage	796.35	Ton Miles	1.00	796.35			
	Subtotal				5,298.35			
	Sales Tax Decatur County			7.30%	173.52			
USED FOR <u>new well</u> APPROVED <u>ST</u>								
Total							\$5,471.87	

We Appreciate Your Business!



CHARGE TO:
 Martin Drq Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET
 19435

PAGE 1 OF 1

1. <i>Hays, Ks</i>	WELL/PROJECT NO. <i>1-5</i>	LEASE <i>Edma, Inc.</i>	COUNTY/PARISH <i>Decatur</i>	STATE <i>Ks</i>	CITY	DATE <i>3-29-11</i>	OWNER
2. <i>Ness City, Ks</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Co-Rsg</i>	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>NW/Oberlin, Ks.</i>	ORDER NO.	
3.	WELL TYPE <i>D.I.</i>	WELL CATEGORY <i>Wildcat</i>	JOB PURPOSE <i>Cement Port Collar</i>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			UM			
575		1			MILEAGE #113	100	Mi		500	50000
576 D		1			Pump Charge - cement Port Collar	100		2550 ft.	1100.00	110000
290		1			D-Air	2	gal		35.00	70.00
330		2			SMD Cement	150	SKS	14889 lbs	1500	225000
276		2			Flocele	38	lbs		1.50	5700
					<i>Gel not used</i>	10	SK	1000 lbs		
581		2			Service Charge cement	350	SKS		1.50	525.00
583		2			Dragege cement & Gel 1000 lb.	796.35	Ton	15927 lbs	100	796.35

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *Burd Adams*
 DATE SIGNED *3-29-11* TIME SIGNED *0900*
 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	5298.35
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Decatur TAX 7.3%	173.52
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	5471.87
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR *Bob Lamm* APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 3-29-11 PAGE NO. 7

CUSTOMER	WELL NO.	LEASE	JOB TYPE	PRESSURE (PSI)		VOLUME (BBL/GAL)	RATE (BPM)	TIME	CHART NO.	DESCRIPTION OF OPERATION AND MATERIALS
				TUBING	CASING					
Martin Day Co.	1-5	Erma, Inc.	Comment Port Collor	2 3/8	5 1/2			0850		On location - Setup FRs P.C. @ 2550'
				C	1000			0900		TST P.C. closed - ok
					500		3			Open P.C. - ini rate
				C						Hook to 7bg
				600			3			Continue Had - Have blow
				600		7	3			Have Returns @ 7881
				600						Start SMD vent @ 11.2 #/gal
				450		7 1/2				cut CIR @ 130 SKS - Tail in @ 12 1/2 #/gal
				400		80				FL 20 SKS @ 12.5 #/gal
				450		8 1/2				Displ 8 1/2 BBL
				C	1000					Close P.C. - TST closed ok
										RS run 5 JTs 7bg
				350		30	3			Roundout - 2 flags clean
										Job complete
										Washup & Rackup
										Finals Above, Along & Lower
								10:30		20 SKS @ 11.2 #/gal to Pit



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Invoice

DATE	INVOICE #
3/22/2011	19579

BILL TO
Murfin Drilling Co Inc
PO Box 661
Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

USED FOR NEW WELLS
APPROVED [Signature]

ERMA INC 1-5

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator				
Net 30	#1-5	*****	Decatur	Company Tools	Oil	Development	LongString	Nick				
PRICE REF.	DESCRIPTION							UM	UNIT PRICE	AMOUNT		
575D		Mileage - 1 Way							100	Miles	5.00	500.00
578D-L		Pump Charge - Long String - 4084 Feet							1	Job	1,400.00	1,400.00
221		Liquid KCL (Clayfix)							4	Gallon(s)	25.00	100.00T
280		Flocheck 21							500	Gallon(s)	2.50	1,250.00T
290		D-Air							2	Gallon(s)	35.00	70.00T
402-5		5 1/2" Centralizer							15	Each	65.00	975.00T
403-5		5 1/2" Cement Basket							2	Each	230.00	460.00T
404-5		5 1/2" Port Collar							1	Each	2,100.00	2,100.00T
406-5		5 1/2" Latch Down Plug & Baffle							1	Each	225.00	225.00T
407-5		5 1/2" Insert Float Shoe With Auto Fill							1	Each	300.00	300.00T
413-5		5 1/2" Roto Wall Scratcher							5	Each	40.00	200.00T
419-5		5 1/2" Rotating Head Rental							1	Each	150.00	150.00T
325		Standard Cement							200	Sacks	12.00	2,400.00T
276		Flocele							50	Lb(s)	1.50	75.00T
283		Salt							1,000	Lb(s)	0.15	150.00T
284		Calseal							9	Sack(s)	30.00	270.00T
285		CFR-1							150	Lb(s)	4.00	600.00T
581D		Service Charge Cement							200	Sacks	1.50	300.00
583D		Drayage							1,045	Ton Miles	1.00	1,045.00
		Subtotal										12,570.00
		Sales Tax Decatur County									7.30%	680.73
We Appreciate Your Business!									Total		\$13,250.73	



CHARGE TO: Martin Drly Co. Inc
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
19579

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hays, Ks
 2. Ness City, Ks
 3.
 4.

WELL/PROJECT NO. #1-5 LEASE Unma COUNTY/PARISH Decatur STATE Ks CITY
 DATE 3-22-11 OWNER Same

TICKET TYPE SERVICE SALES CONTRACTOR Co Tools Rig # RIG NAME/NO. SHIPPED VIA Ch DELIVERED TO Location ORDER NO.

WELL TYPE oil WELL CATEGORY Development JOB PURPOSE Longstring WELL PERMIT NO. WELL LOCATION

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #111	100	mi			5 ⁰⁰	500	00
578		1			Pump Charge (Longstring)	1	ea	4054'		1400 ⁰⁰	1400	00
221		1			KCL	4	gal			25 ⁰⁰	100	00
280		1			Flocheck-21	500	gal			2 ⁵⁰	1250	00
290		1			D-Air	2	gal			35 ⁰⁰	70	00
402		1			Centralizers	15	ea	5 1/2"		65 ⁰⁰	975	00
403		1			Baskets	2	ea			230 ⁰⁰	460	00
404		1			Port Callar	1	ea			2100 ⁰⁰	2100	00
406		1			L.D. Plug + Baffle	1	ea			225 ⁰⁰	225	00
407		1			Insert Float Shoe w/fill	1	ea			300 ⁰⁰	300	00
413		1			Rotowall Scratchers	5	ea			40 ⁰⁰	200	00
419		1			Rotating Head	1	ea			150 ⁰⁰	150	00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X Buck Selas
 DATE SIGNED 3-22-11 TIME SIGNED 1530 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL 1	7730	00
page 2	4840	00
subtotal	12570	00
Decatur TAX 7.3%	680	73
TOTAL	13,250	73

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Nick Forbe APPROVAL

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 19579

CUSTOMER Murfin Dr. Ig. Co. Inc. WELL #1-5 Umma DATE 3-22-11 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			U/M	U/M		
325		2				Standard Cement	200	SKS	12 ⁰⁰	2400 ⁰⁰
276		2				Flocele	50	#	1 ⁵⁰	75 ⁰⁰
283		2				salt	1000	#	15 ⁰⁰	1500 ⁰⁰
284		2				Calscal	9	SKS	30 ⁰⁰	270 ⁰⁰
285		2				CFR-1	150	#	4 ⁰⁰	600 ⁰⁰
581		2				SERVICE CHARGE	200	SKS	1 ⁵⁰	300 ⁰⁰
583		2				MILEAGE CHARGE			1 ⁰⁰	1045 ⁰⁰
						TOTAL WEIGHT	20900			
						LOADED MILES	100			
						TON MILES	1045			

CONTINUATION TOTAL

Sean Deenihan

Petroleum Geologists

15-039-21131

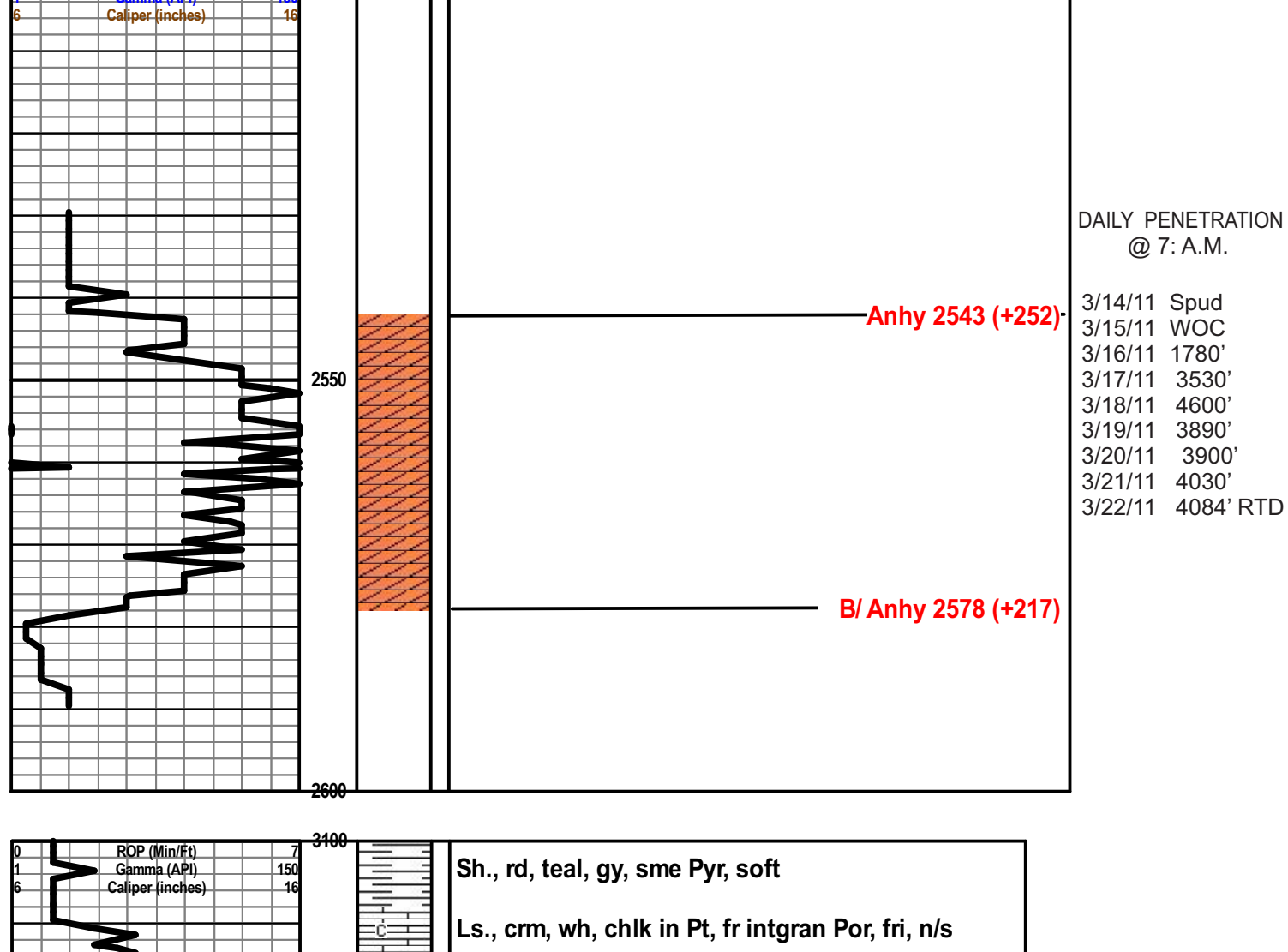
GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	Murfin Drilling Co., Inc.	ELEVATIONS	KB 2795'
LEASE	Erma Inc. #1-5	DF	
FIELD	Wildcat	GL 2790'	
LOCATION	900' FSL & 780' FEL	Measurements Are All From Kelly Bushing	
SEC	5 TWSP 2S RGE 29W	CASINING	
COUNTRY	Decatur STATE Kansas	CONDUCTOR	
CONTRACTOR	Murfin Rig #8	SURFACE	8-5/8" @ 305'
SPUD	3/14/11 COMP 3/22/11	PRODUCTION	5.5" 15.5#
RTD	4084' LTD 4079'	ELECTRICAL SURVEYS	
MUD UP	2800' TYPE MUD Chemical	CND, DIL.	
SAMPLES SAVED FROM	3100' TO RTD	LOG TECH	
DRILLING TIME KEPT FROM	3100' TO RTD		
SAMPLES EXAMINED FROM	3100' TO RTD		
GEOLOGICAL SUPERVISION FROM	2800'		
REFERENCE WELL	Murfin May #1-18		

REMARKS The Erma, Inc. #1-5 was evaluated through sample, DST, and Log analysis. The results indicated commercial quantities of oil in the Lansing K Zone. The decision was made to further evaluate this test through casing.

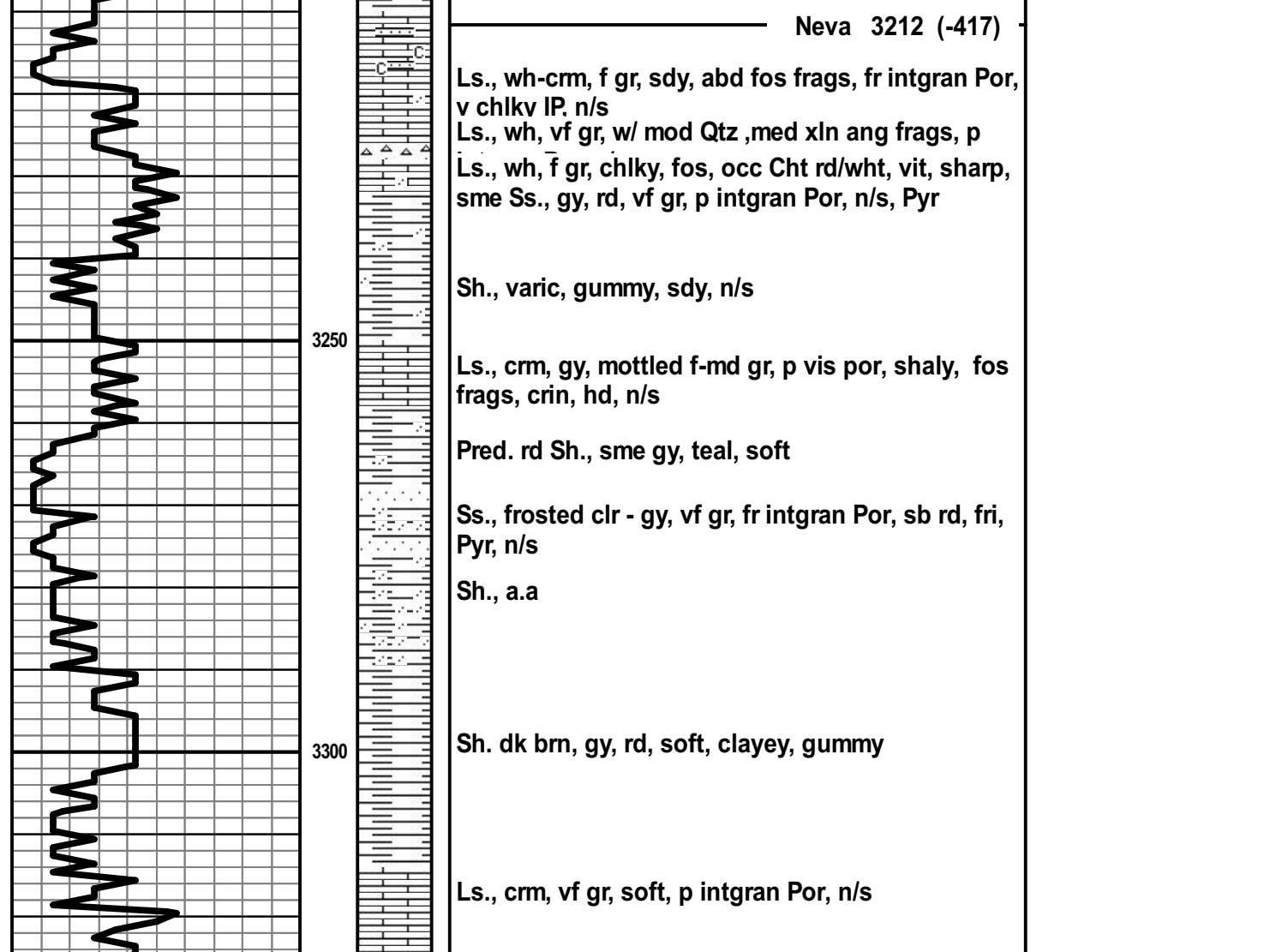
Respectfully Submitted,
Sean Deenihan
15-039-21131



Morgan Mud
Trilobite Testing
Info

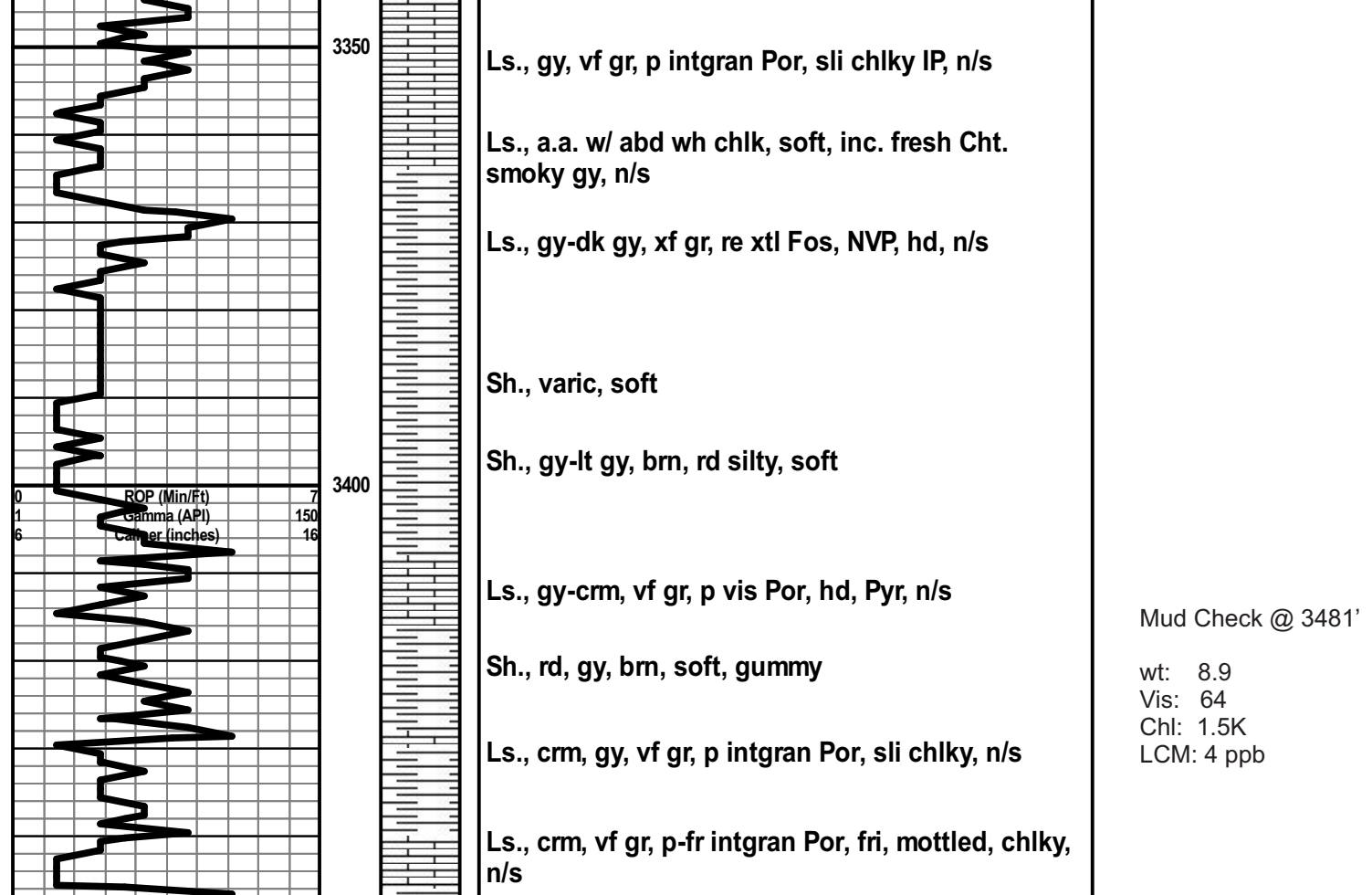
DAILY PENETRATION @ 7: A.M.

3/14/11 Spud
3/15/11 WOC
3/16/11 1780'
3/17/11 3530'
3/18/11 4600'
3/19/11 3890'
3/20/11 3900'
3/21/11 4030'
3/22/11 4084' RTD



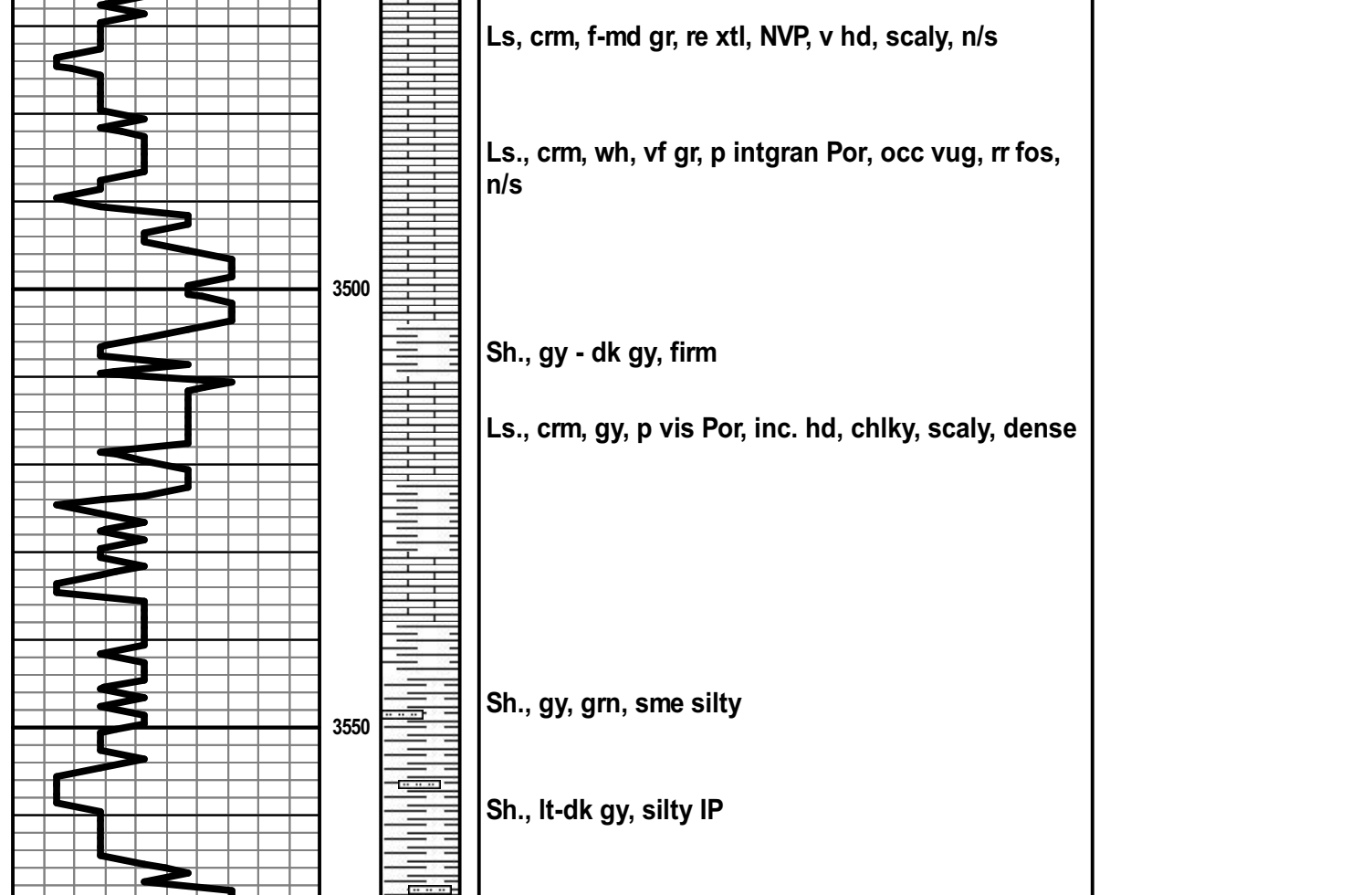
Mud Check @ 3481'

wt: 8.9
Vis: 64
Chl: 1.5K
LCM: 4 ppb

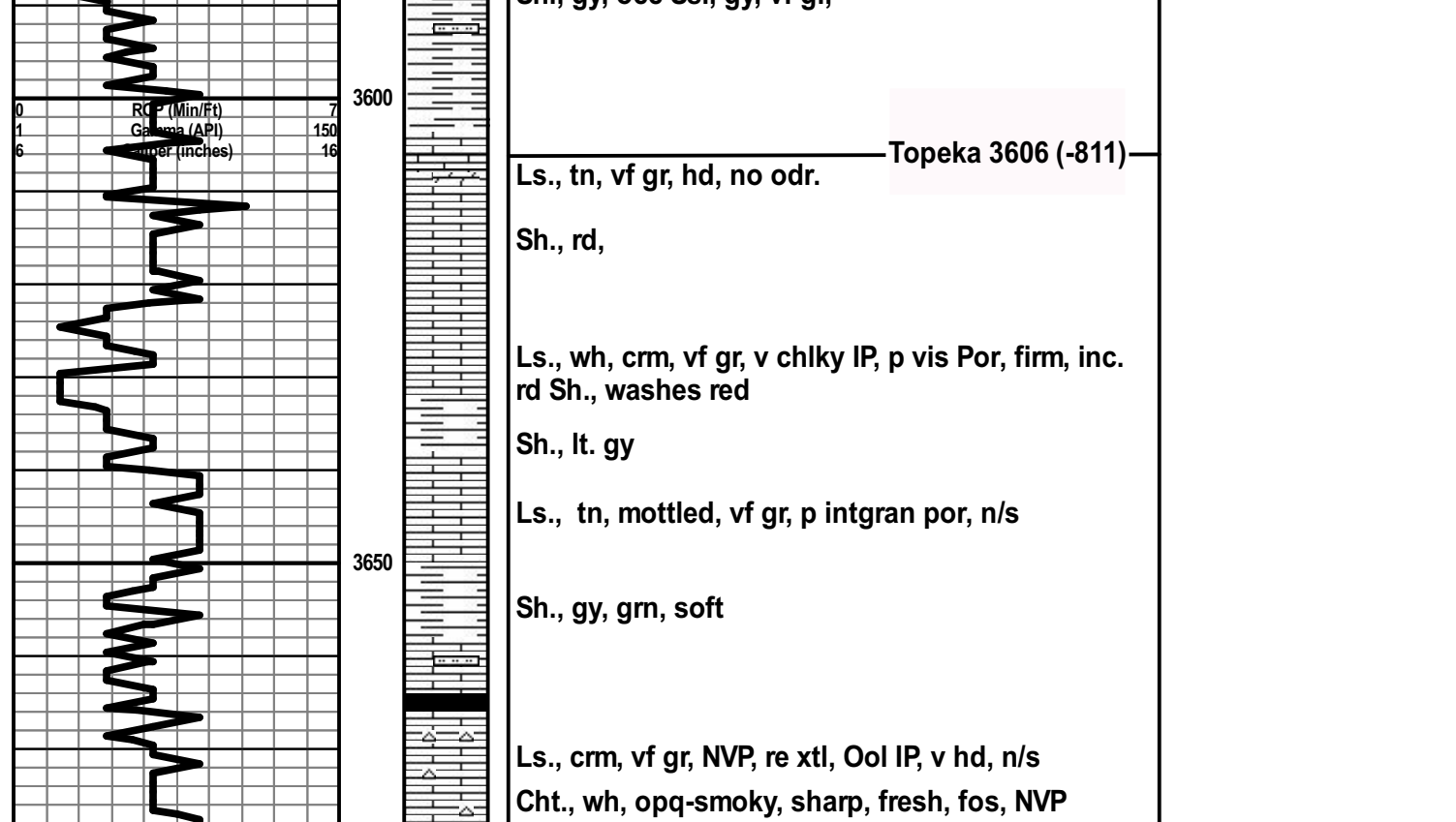


Mud Check @ 3824'

wt: 9.3
Vis: 62
Chl: 1.5K
LCM: 3 ppb



Strap @ 3824' .75' Short to board Dev. Surv 1.75 degrees



DST #1
3767-3824'
30-30-30-30
Rec: 10' OSM
HP: 2033-1955#
FP: 20/24, 23/24
SIP: 107-67

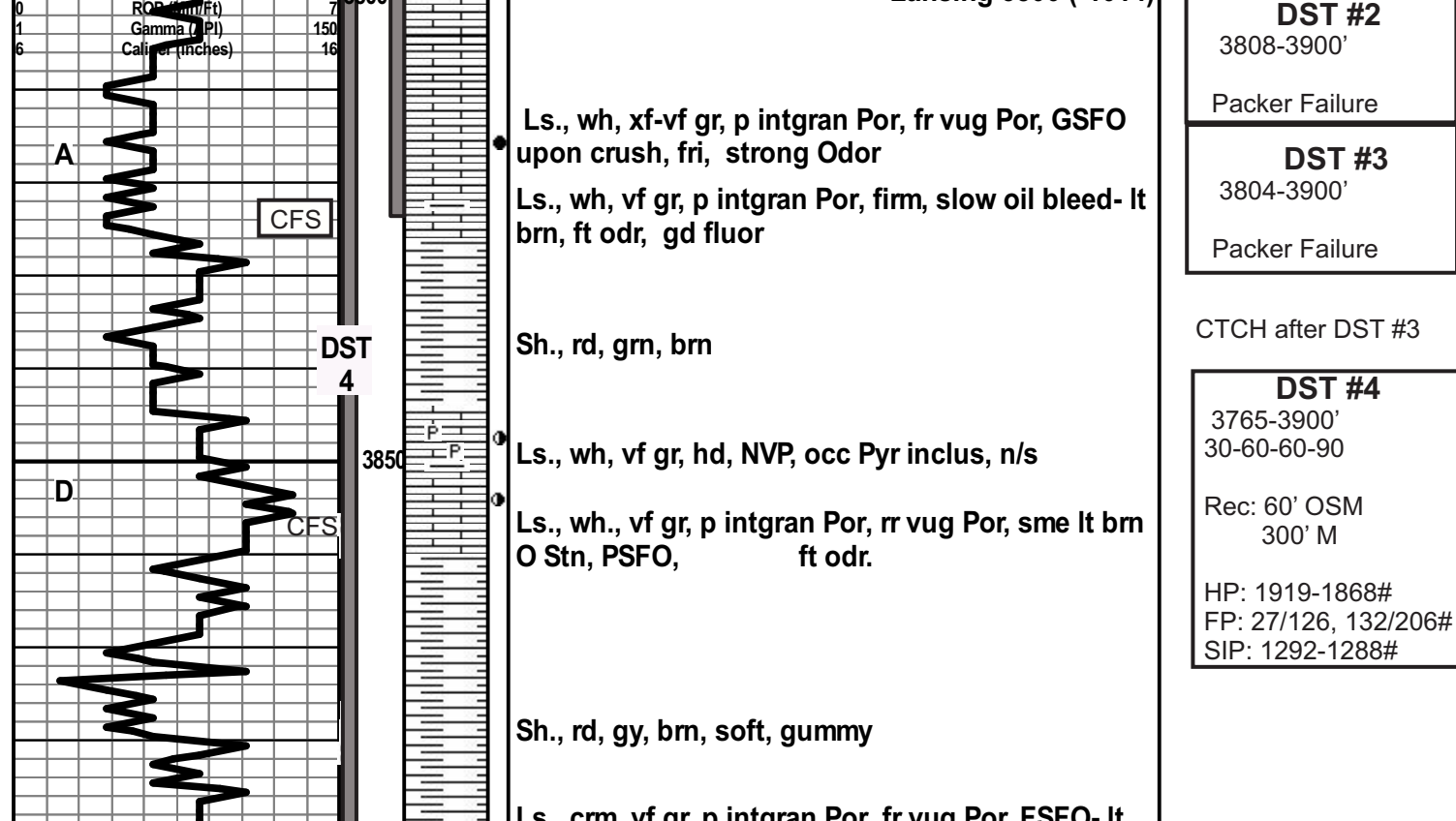
DST #2
3808-3900'
Packer Failure

DST #3
3804-3900'
Packer Failure

CTCH after DST #3

DST #4
3765-3900'
30-60-60-90
Rec: 60' OSM
300' M
HP: 1919-1868#
FP: 27/126, 132/206#
SIP: 1292-1288#

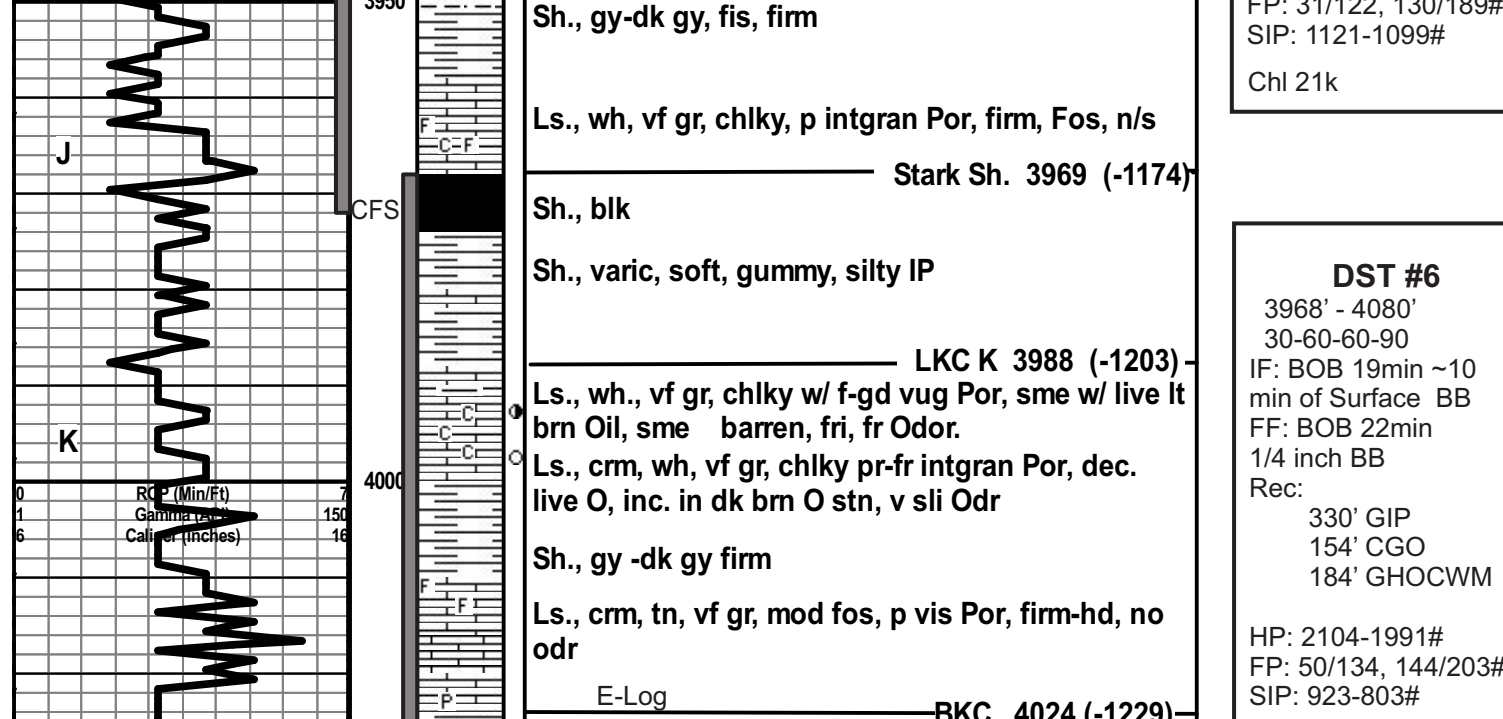
Mud Check @ 3900'



DST #5
3898' - 3972'
30-60-60-90
Rec: 2' CO
60' SOCM
60' WCM
180' MCW
HP: 2098-1951#
FP: 31/122, 130/189#
SIP: 1121-1099#
Chl 21k

DST #6
3968' - 4080'
30-60-60-90
IF: BOB 19min - 10 min of Surface BB
FF: BOB 22min
1/4 inch BB
Rec: 330' GIP
154' CGO
184' GHOCWM
HP: 2104-1991#
FP: 50/134, 144/203#
SIP: 923-803#
BHT 115

Mud Check @ 4084'



Mud Check @ 4084'

wt: 9.4
Vis: 54
Chl: 2.3K
LCM: 3 ppb

Dev. Survey @ TD 1 degree