



**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
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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: \_\_\_\_\_



1072082

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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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	Phillips-Denny 1-4
Doc ID	1072082

All Electric Logs Run

CNL/CDL
DIL
Micro
Sonic

# M. Bradford Rine

## Consulting Geologist, Licensed and Certified

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: PHILLIPS-DENNY #1-4  
Location: SE - NW - NE, Section 04 - T22S - R23W  
License Number: API: 15-083-21722-00-00  
Spud Date: August 19, 2011  
Surface Coordinates: 1046' FNL & 1777' FEL  
Region: Hodgeman Co, Kansas  
Drilling Completed: August 30, 2011

Bottom Hole Vertical Well 4-1/2" Casing Set  
Coordinates: "Fossil Ridge" Field  
Ground Elevation (ft): 2302 K.B. Elevation (ft): 2307  
Logged Interval (ft): 3800 To: 4700 Total Depth (ft): RTD 4700, LTD 4701  
Formation: Pennsylvanian (Topeka) to Mississippian (Meramecian?)  
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### Operator

Company: NORSTAR PETROLEUM, INC.  
Address: 88 Inverness Circle, Unit F104  
Englewood, Colorado 80112

### Geologist

Name: M. Bradford Rine  
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647  
Address: 100 South Main, Suite #415  
Wichita, Kansas 67202

### Remarks

Based on sample observations, preliminary core review, drill stem test results, and electric log evaluation, it was the decision of the Operator to, set production casing for further testing on the, "Phillips-Denny #1-4", on August 30, 2011.

Respectfully submitted,  
M. Bradford Rine, Ks Lic.#204  
Geologist and Petroleum Consultant

## Drilling Information

Rig: Mallard JV, Inc. #2  
Pump: Emsco D-375, 6 x 14  
Drawworks: Emsco BDW  
Collars: 486' 2-1/4" x 6-1/4"  
Drillpipe: 4-1/2" XH  
Toolpusher: Lavon Urban

Mud: Mudco (Justin Whiting)  
Gas Detector: None  
Drill Stem Tests: Trilibite (Will MacLean)  
Coring: Devilbiss (Jerry Stapleton)  
Core Retrieval: Weatherford  
Logs: Log-Tech (K.Bange)  
Water: Area farm pond

Company Representatives:  
Office: Clark Parrott  
Field: Dave Pauly

## Daily Drilling Status

Date:	Operations/Depth/Comments:
08-19-11	MIRT, RU, Spud. Set Surface casing.
08-20-11	Drilling plug and 30' cement
08-21-11	Drlg @ 1802'
08-22-11	Drlg @ 2700'
08-23-11	Drlg @ 3261', Displaced and Mud up @ 3591'.
08-24-11	Drlg @ 3877'
08-25-11	Stuck in hole at 4187' while making conn. at 4229'
08-26-11	Prepare to TBIH on wiper trip at 4481 ft.
08-27-11	TOOH with Core Tools @ 4554'
08-28-11	Drlg @ 4676' RTD 4700 at 7:00 AM
08-29-11	Prepare to TBIH for DST #2
08-30-11	On Bank with DST #3 @ 4700 at 7:00 AM,Run production casing late, plug down @ 10:15 PM

### Casing Record, Bit Record, Deviation Surveys

**CASING:****Conductor:** None**Surface:**

6 joints, 8-5/8"-23#, set @ 257 ft. Cement with 150 sx Class A Cement, 2% gel, 3% CaCl. Cement did circulate.

**Production:**

Ran 113 jts, 4-1/2" - 10-1/2# used csg, set @ 4699 ft. (Swift) Cement with 100 sx EA-2. Plug down @ 10:15 PM, 08-30-2011

**BITS:**

No.	Size	Make	Model	Depth In	Depth Out	Feet	Hours
1	12-1/4"	Rr	RT	0	257	257	4
2	7-7/8"	Smith	F27	257	4700	4443	116

**DEVIATION SURVEYS:**

Deviation:	Depth:	Deviation:	Depth:
1/4*	257'		
1/4*	4525'		
1/2*	4700'		

Norstar Petroleum, Inc. ' KB 2307 Ft. Section 04 - T22S - R23W					Nortstar "Bamberger-Phillips 1-4" Section 04 - T22S - R23W
Formation:	Sample Top:	Datum:	Log Top:	Datum:	Comparison:
Anhydrite	1551	756	1554	752	Flat
B/Anyhydrite	1581	726	1580	727	(-5)
Heebner	3863	(-1556)	3866	(-1559)	(+ 3)
Toronto	3883	(-1576)	3886	(-1579)	(+ 1)
Lansing	3920	(-1613)	3921	(-1614)	(+ 2)
Stark Sh	4186	(-1879)	4185	(-1878)	(+ 2)
B/Kansas City	4293	(-1986)	4295	(-1988)	(- 1)
Pawnee	4392	(-2085)	4392	(-2085)	(+ 1)
Fort Scott	4456	(-2149)	4456	(-2149)	(+ 1)
Cherokee Sh	4481	(-2174)	4482	(-2175)	(- 1)
Basal Penn Lime	4525	(-2218)	4529	(-2222)	(- 4)
Cherokee Sd	4560	(-2253)	4561	(-2253)	(-18)
Mississippi	4606	(-2299)	4606	(-2299)	(- 33)
Total Depth	4700	(-2393)	4701	(-2394)	N/A

**Core(s)**

**Contractor:** Devilbiss Coring Service (Operator-Jerry Stapleton)  
**Core #:** 1 & 2  
**Formation:** Cherokee-Mississippian Unconformity Incisement  
**Core Interval:** From: 4525 To: 4569.5 Cut: 34.5' Recovered: 34' +/-  
**Bit type:** PDC  
**Size:** 7-27/32  
**Coring Time:** 15.5 hrs





# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Norstar Petroleum Inc  
 88 -Inverness Cir E. Unit F104  
 Englewood CO 80112  
 ATTN: Brad Fine

**Phillips-Denny #1-4**  
**04-22-23 Hodgeman Co**  
 Job Ticket: 43670      **DST#: 1**  
 Test Start: 2011.08.28 @ 19:46:00

### GENERAL INFORMATION:

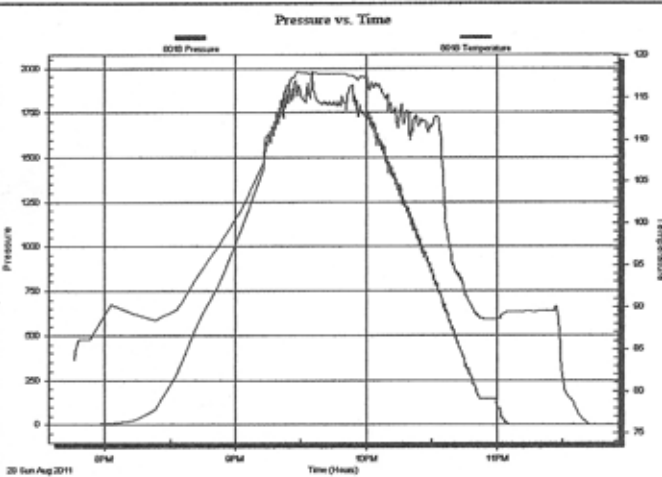
<b>Formation:</b> Cherokee		<b>Test Type:</b> Conventional Straddle
<b>Deviated:</b> No Whipstock	ft (KB)	<b>Tester:</b> Will MacLean
<b>Time Tool Opened:</b>		<b>Unit No:</b> 37
<b>Time Test Ended:</b> 23:44:00		<b>Reference Elevations:</b> 2307.00 ft (KB)
<b>Interval:</b> 4503.00 ft (KB) To 4573.00 ft (KB) (TVD)		2302.00 ft (CF)
<b>Total Depth:</b> 4700.00 ft (KB) (TVD)		<b>KB to GR/CF:</b> 5.00 ft
<b>Hole Diameter:</b> 7.88 inches	<b>Hole Condition:</b>	

### Serial #: 8018

Inside

<b>Press@RunDepth:</b> psig @ 4513.00 ft (KB)	<b>Capacity:</b> 8000.00 psig
<b>Start Date:</b> 2011.08.28	<b>End Date:</b> 2011.08.28
<b>Start Time:</b> 19:46:02	<b>End Time:</b> 23:44:00
	<b>Last Calib.:</b> 2011.08.29
	<b>Time On Btm:</b>
	<b>Time Off Btm:</b>

**TEST COMMENT:** Mis-run -- Hit Bridge 8 Stands From Bottom Couldn't Get Through It



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)

### Gas Rates

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





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Norstar Petroleum Inc  
 88 - Inverness Cir E. Unit F104  
 Englewood CO 80112  
 ATTN: Brad Rine

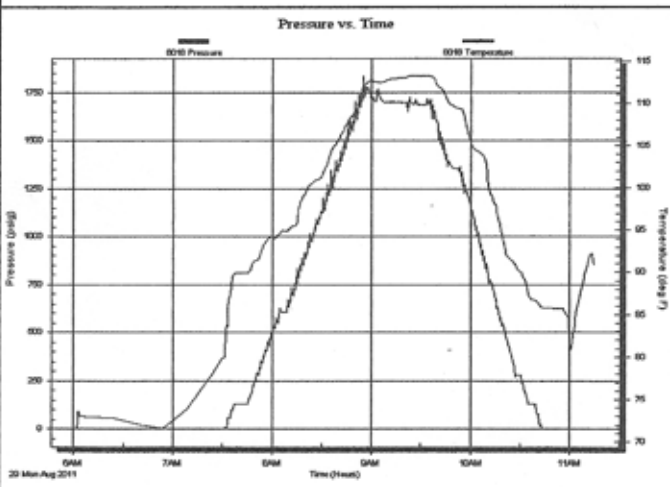
**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
 Job Ticket: 43671     DST#: 2  
 Test Start: 2011.08.29 @ 06:02:02

**GENERAL INFORMATION:**

Formation: **Cherokee**  
 Deviated: No Whipstock:                     ft (KB)  
 Test Type: Conventional Straddle  
 Time Tool Opened:                             Tester: Will MacLean  
 Time Test Ended: 11:14:50                     Unit No: 37  
 Interval: **4503.00 ft (KB) To 4573.00 ft (KB) (TVD)**                     Reference Elevations: 2307.00 ft (KB)  
 Total Depth: **4700.00 ft (KB) (TVD)**   2302.00 ft (CF)  
 Hole Diameter: 7.88 inches     Hole Condition: Good                     KB to GR/CF: 5.00 ft

**Serial #: 8018**     **Inside**  
 Press@RunDepth:                     psig @ 4513.00 ft (KB)                     Capacity: 8000.00 psig  
 Start Date: 2011.08.29     End Date: 2011.08.29                     Last Calib.: 2011.08.29  
 Start Time: 06:02:02     End Time: 11:14:50                     Time On Btrr:  
 Time Off Btrr:

TEST COMMENT: Mis-run Couldn't Get to Bottom



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Norstar Petroleum Inc

88 -Inverness Cir E Unit F104  
Englewood CO 80112

ATTN: Brad Rine

**Phillips- Denny #1-4**

**04-22-23 Hodgeman Co**

Job Ticket: 43672

**DST#: 3**

Test Start: 2011.08.29 @ 19:50:02

### GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:43:40

Time Test Ended: 08:13:30

Test Type: Conventional Straddle

Tester: Will MacLean

Unit No: 37

Interval: **4503.00 ft (KB) To 4573.00 ft (KB) (TVD)**

Total Depth: 4700.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2307.00 ft (KB)

2302.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 1368.09 psig @ 4513.00 ft (KB)

Start Date: 2011.08.29

End Date:

2011.08.30

Capacity: 8000.00 psig

Last Calib.: 2011.08.30

Start Time: 19:50:02

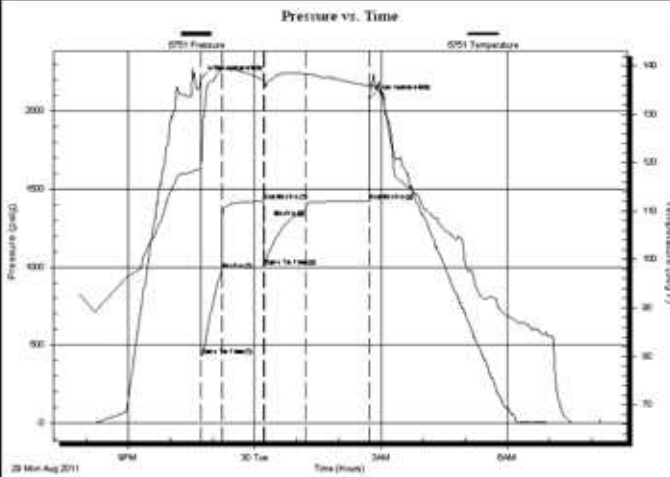
End Time:

08:13:30

Time On Btm: 2011.08.29 @ 22:43:19

Time Off Btm: 2011.08.30 @ 02:44:00

**TEST COMMENT:** IF- Bottom of Bucket in 1min  
IS- Surface Blow Built to 2 1/4" Died Back to 1"  
FF- Bottom of Bucket in 1min 15sec Died Back to 9"  
FSI- Weak Surface Blow Died in 8 min



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.50	118.75	Initial Hydro-static
1	432.14	118.25	Open To Flow (1)
30	978.06	139.18	Shut-In(1)
90	1420.25	137.07	End Shut-In(1)
90	1005.50	136.83	Open To Flow (2)
151	1368.09	138.28	Shut-In(2)
241	1421.23	135.87	End Shut-In(2)
241	2081.88	136.22	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
310.00	5%w 20%g 25%m 50%oil	2.14
558.00	10%g 20%oil 30%w 40%m	7.83
1178.00	10%m 15%g 70%oil	16.52
1504.00	10%g 20%m 70%oil	21.10

### Gas Rates

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

### Rock Types

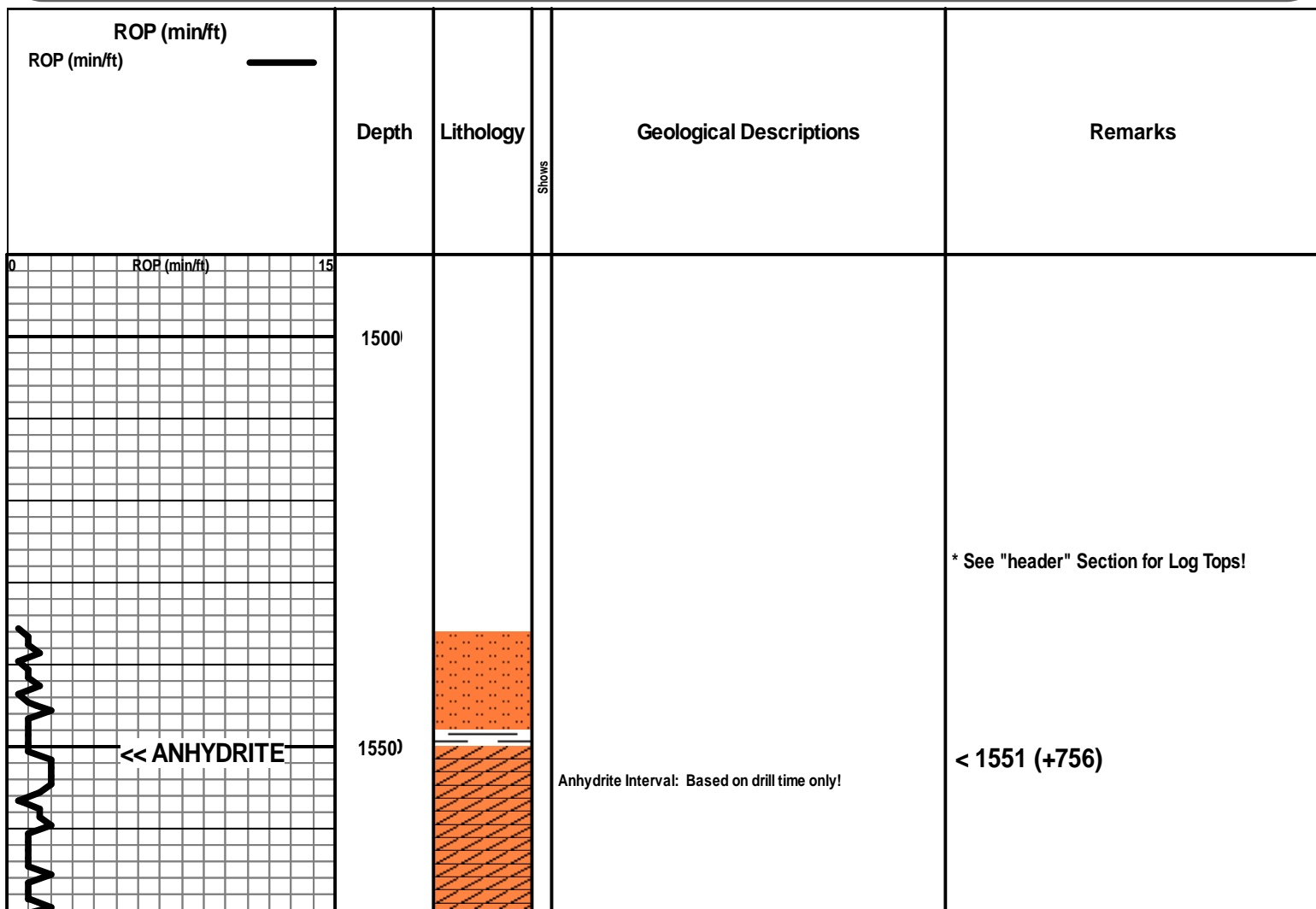
Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Coal	Igne	Salt	Sltst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

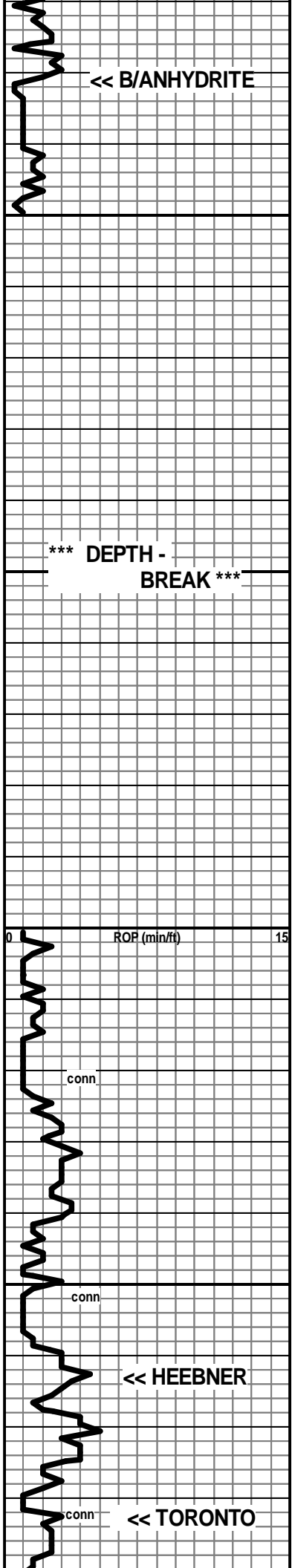
### Accessories

<b>MINERAL</b>	Gyp	<b>FOSSIL</b>	Ostra	Sltstrg
Anhy	Hvymin	Algae	Pelec	Ssstrg
Arggrn	Kaol	Amph	Pellet	<b>TEXTURE</b>
Arg	Marl	Belm	Pisolite	Boundst
Bent	Minxl	Bioclst	Plant	Chalky
Bit	Nodule	Brach	Strom	Cryxln
Brecfrag	Phos	Bryozoa	<b>STRINGER</b>	Earthy
Calc	Pyr	Cephal	Anhy	Finexln
Carb	Salt	Coral	Arg	Grainst
Chtdk	Sandy	Crin	Bent	Lithogr
Chtlt	Silt	Echin	Coal	Microxln
Dol	Sil	Fish	Dol	Mudst
Feldspar	Sulphur	Foram	Gyp	Packst
Ferrpel	Tuff	Fossil	Ls	Wackest
Ferr		Gastro	Mrst	
Glau		Oolite		

### Other Symbols

<b>OIL SHOW</b>	Spotted	Dead	<b>INTERVAL</b>	Dst
Even	Ques		Core	





<< B/ANHYDRITE

< 1581 (+726)

\*\*\* DEPTH -  
BREAK \*\*\*

3750

Above: Displace and Mud up @ 3591 ft.

3800

LS cr, packed ool in dns & firm cem to chalky and soft  
cem, foss in pt

conn

LS cr-tan, fn xln, dns, foss

3850

LS wh-cr, fn xln, chalky in pt, pr vis xln por in pt, scatt  
vugs, foss

conn

<< HEEBNER

< 3863 (1556)

SH black, carb

LS cr, fn xln, dns

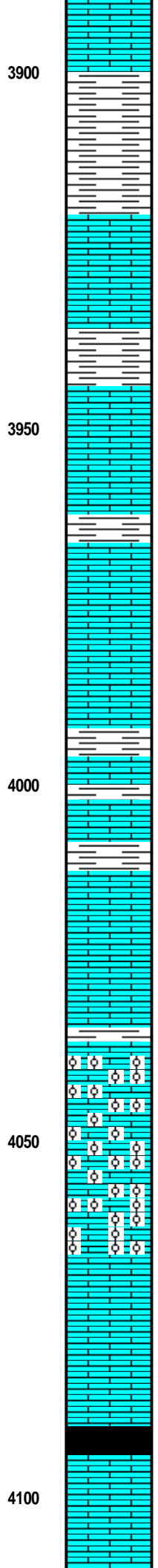
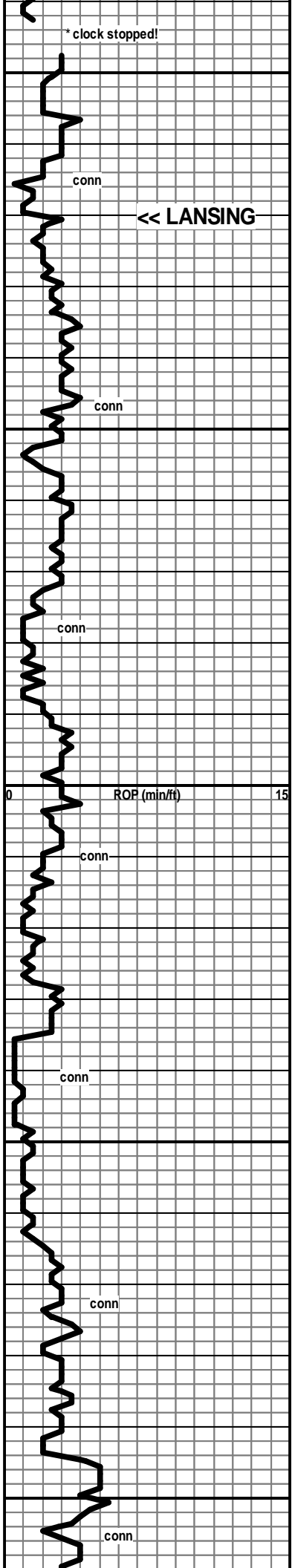
SH gy-grn-blk

7:00 AM, August 24, 2011. Drlg @ 3877 ft.

<< TORONTO

< 3883 (-1576)

LS cr-tan, fn xln, mostly dns, foss



SH gy-grnish-maroon, subsilty-calc text in pt

LS wh-cr-tan, fn xln, pr xln por in pt, dns in pt, foss

SH gy-grnish-grn, silty text in pt

LS wh-cr-tan, fn xln, pr xln por to dns, foss

SH gy-grnish

LS wh-cr, fn xln, pr-fr xln por, foss

SH gy-blk

LS wh-cr-tan, fn xln, subchalky in pt, foss

SH gy-grn, susilty text in pt

LS wh-cr, fn xln, pr vis xln por, scatt pp por, foss

SH gy-grn

LS cr-tan, packed ool in pt, oom in pt, pr-gd oom por, scatt pr-fr inter-ool xln por

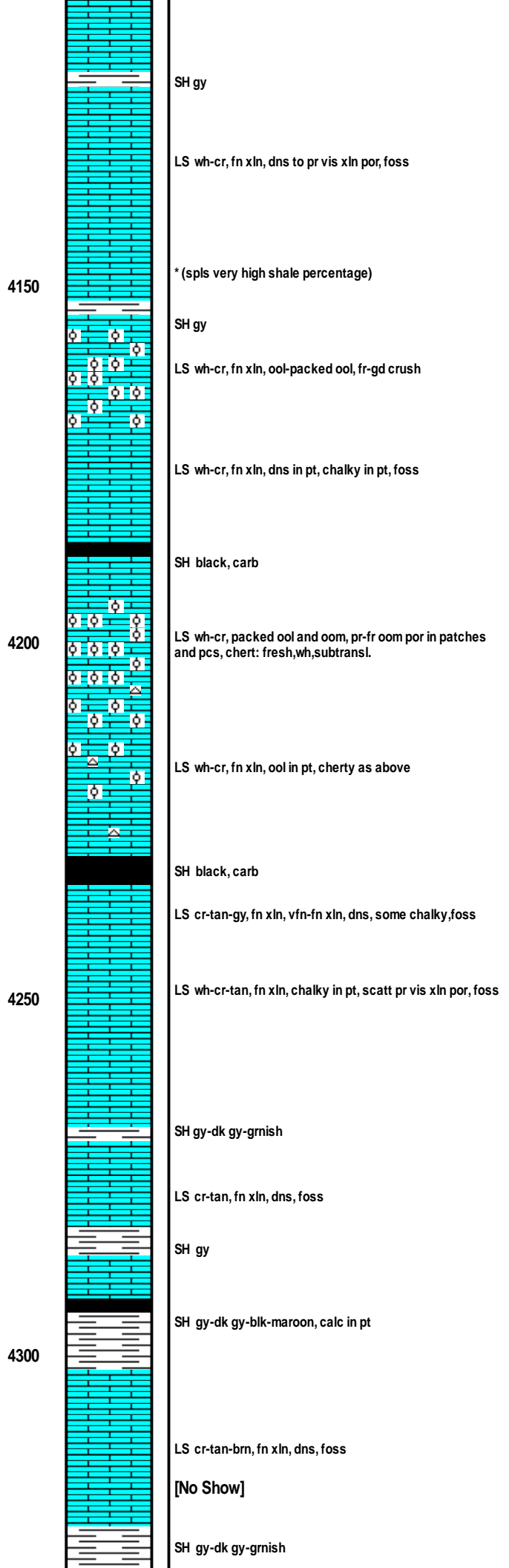
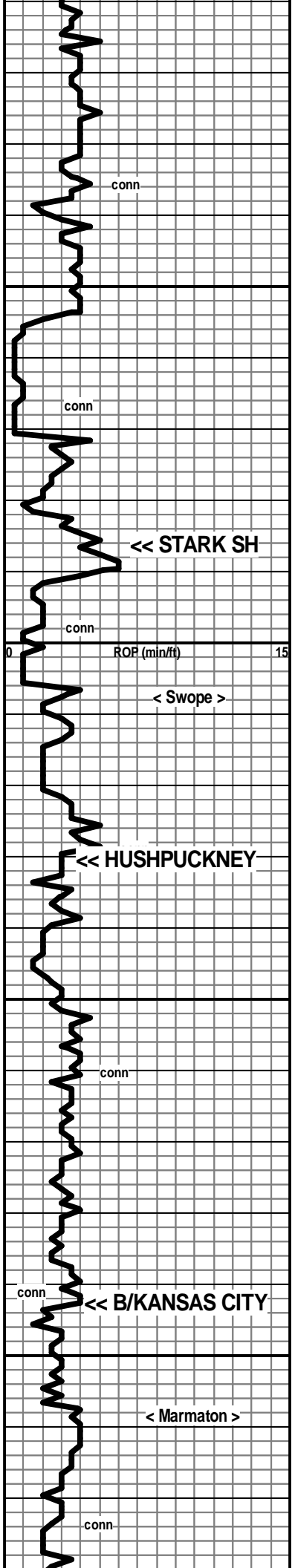
LS cr-tan, vfn-fn xln, dns, sli foss in pt

SH gy-black, carb in pt

LS cr-tan, fn xln, dns, foss in pt

< 3920 (-1613)

Mud Check @ 4097 ft, Drlg.:  
 Vis Wt WL LCM PV YP  
 47 9.1 10.4 0 13 12  
 Chl Hd pH  
 5400 20 9.0



< 4186 (-1879)

\* STUCK at approx 4187' (11:20 pm 08-24) while pulled up 42' on connection & rig check at 4229'. Have circulation. Spot 60 bbls lease crude at 2:00 am, 08-25-11. Attempt to free: 3:05 am, 4:05 am, 5:05 am, 6:00 am, 7:00 am, 8:00 am, 11:00 am. At 12:45 pm attempt to free successful-drill string freed! Down 13.5 hours with stuck pipe. Back to drilling at 1:00 pm

Mud Check @ 4241', Drlg:

Vis	Wt	WL	LCM	PV	YP
52	9.4	11.2	Tr	11	13
Chl	Hd	pH			
5800	100	7.5			

< 4293 (-1986)

SH gy

LS wh-cr, fn xln, dns to pr vis xln por, foss

4150

\*(spls very high shale percentage)

SH gy

LS wh-cr, fn xln, ool-packed ool, fr-gd crush

LS wh-cr, fn xln, dns in pt, chalky in pt, foss

<< STARK SH

SH black, carb

< 4186 (-1879)

4200

LS wh-cr, packed ool and oom, pr-fr oom por in patches and pcs, chert: fresh,wh,subtransl.

< Swope >

LS wh-cr, fn xln, ool in pt, cherty as above

<< HUSHPUCKNEY

SH black, carb

LS cr-tan-gy, fn xln, vfn-fn xln, dns, some chalky, foss

4250

LS wh-cr-tan, fn xln, chalky in pt, scatt pr vis xln por, foss

Mud Check @ 4241', Drlg:

Vis	Wt	WL	LCM	PV	YP
52	9.4	11.2	Tr	11	13
Chl	Hd	pH			
5800	100	7.5			

SH gy-dk gy-grnish

LS cr-tan, fn xln, dns, foss

SH gy

<< B/KANSAS CITY

SH gy-dk gy-blk-maroon, calc in pt

< 4293 (-1986)

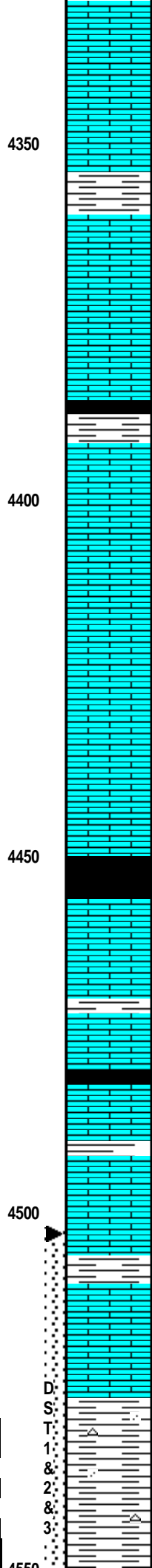
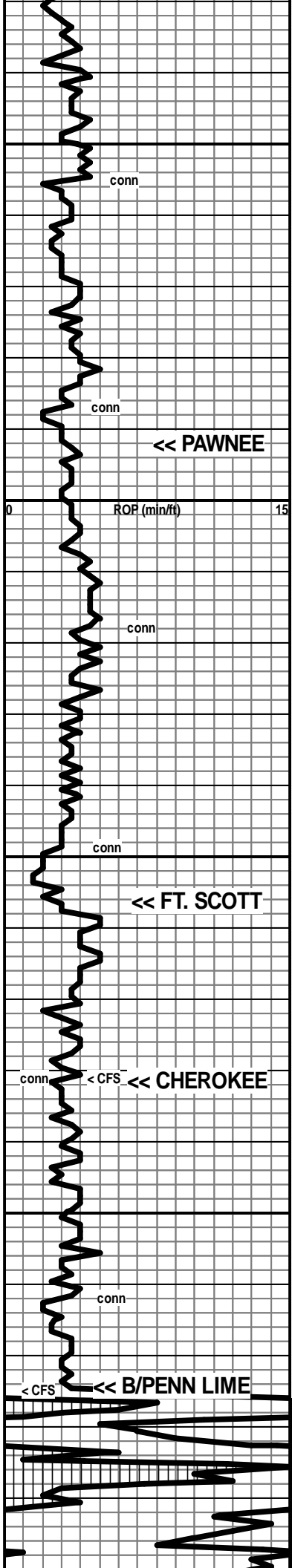
4300

LS cr-tan-brn, fn xln, dns, foss

< Marmaton >

[No Show]

SH gy-dk gy-grnish



LS wh-cr-tan-brn, vfn-fn xln, dns, chalky in pt, foss

[No Show]

SH pl gy-gy-grnsh

LS wh-cr-tan, vfn-fn xln, dns, sli foss in pt

[No Show]

SH black-gy-dk gy, carb in pt

LS wh-cr, vfn-fn xln, dns

[No Show]

LS wh-cr-tan, vfn-fn xln, dns, Rr Scatt calcite patches

LS wh-cr-tan, vfn-fn xln, dns

SH black, carb

LS cr-tan-pl gy, vfn-fn xln, dns, foss in pt

[No Show]

SH black, carb

LS wh-cr-tan, fn xln, dns, some subchalky pcs, foss

SH gy, calc in pt

LS cr-tan, vfn-fn xln, dns, sli foss in pt

Catching spls every 30-min:

SH gy-grn-red-maroon, subsilty text in pt, Rr scatt fn xln pyrite patches

(limestone and shales, varies from pred. ls to pred. shales, Rr sdy Shale, Rr cherty, found a cluster of dns sd early in coring interval)

Shales: gy-red-grn-yellow-lavender, subwaxy

LS wh-cr-tan, vfn-fn xln, dns, Rr pcs fresh transl tan chert

(same as above down to 4553' spl)

\* See core piece description below on next track

< 4392 (-2085)

< 4456 (-2149)

Pipe Strap @ 4481': .25 ft long.

< 4481 (-2174)

At 4481 ft. ran wiper run up to collars to condition hole for coring and testing.  
7:00 AM, August 26, 2011, 4481 ft prepare to go back to bottom after wiper run.

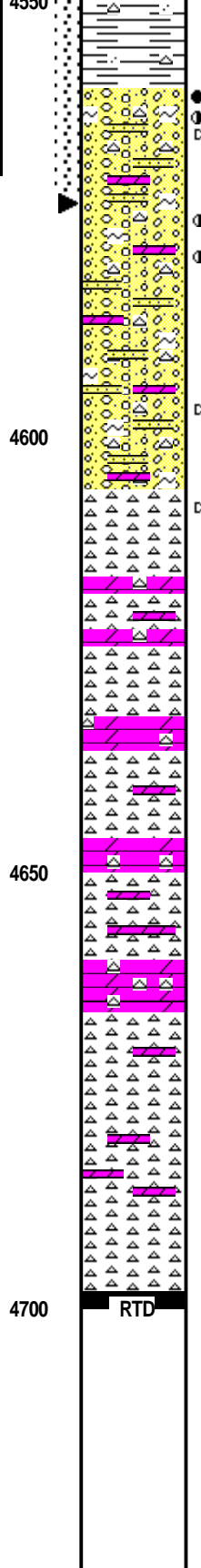
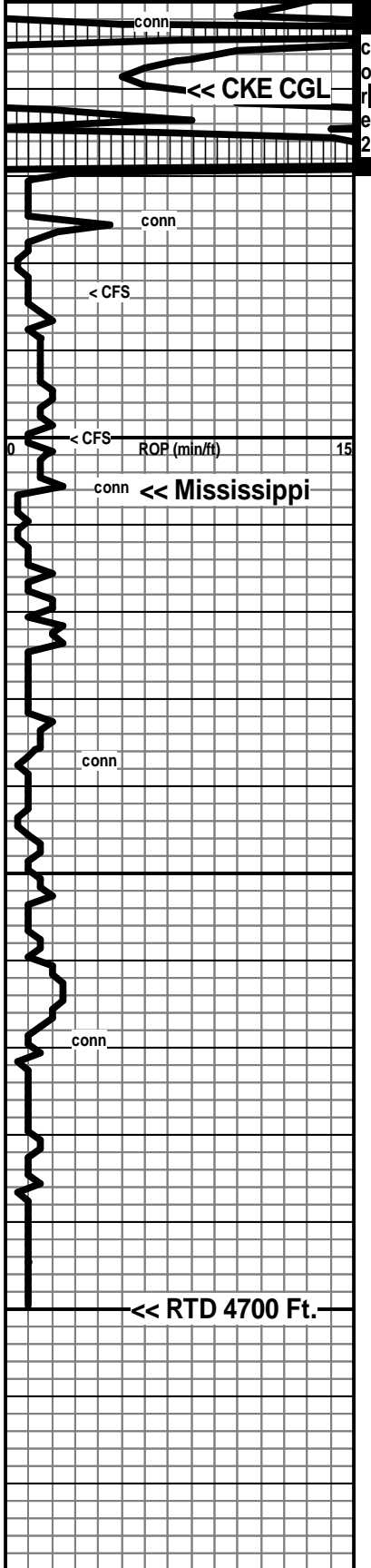
Coring with PDC Style Bit, 4525'-4569':  
WOB 8000  
RPM 45  
PP 800  
SPM 50

< 4525 (-2218)

DST#1: 4503-4573 Cherokee (Straddle)  
Misrun: could not get to bottom!

DST#2: 4503-4573 Cherokee (Straddle)  
Misrun: could not get tool to bottom!

Coring 1



See core-pieces description, below on next track.

Spls mostly various colored shales: red-gy-pl grn-grn-yellow, rarely sli sdy shale, Rr pyritic, Rr foss. Rr Trace of sand clsters: fn-crs gm, mostly poorly sorted. Few pcs are half sd and half chert bound together. Abund glauc in Sd clusters. Noticeable amt of chert: fresh, wh-cr, trans to substr, spiculitic in pt

[Few sand clusters had trace show of It FO, few clusters had trace show of DO, few clusters barren]

Cgl in pt/Mix of abund chert: wh-cr, transl-opaq, fresh-weath'd, & Sd: cr-yell, md-crs gm, subanglr, pr-gd intergrnlr por, pr-fr sort, fr-gd fri, glauc (spls 60% shales as above)

[Fnt Odor, Abund brt speck'd flour, sli-fr show tan-brn FO in Sd, Brn Stn-lt stn, some clusters barren]

70% Shale red-gy-grn-yell, 25% Chert, fresh to subvitreous, wh-cr, transl-opaq, foss-ool-spic, 05% Sd, mostly crs loose grns, subrd-subang

[Some blk resid stn on loose sd grns]

4620' spl: 60% various pale colored shales, 30% chert: fresh-subvitreous, opa-q-transl, some md gm loose sd grns and clusters, subrd, gd fri, glauc

[scatt blk flakey resid stn in sd, some barren]

4640' spl: 40% VC shales, 50% chert: fresh-subvitr, transl-opaq, foss in pt, Trace of Sd as above, Trace of Dol: cr, fn xln, sucrosic, gd crush

[No Show in Dol.]

4660' spl: 40% Shales as above, 30% Chert: fr-subvitr, wh-cr-tan, transl-opaq, 30% Dol, wh-cr, fn xln, sucrosic, fr xln por, fr-gd crush

[No Show]

4660' spl: 30% shales of various pale colors, 30% chert, fr-sli subvitr, transl-opaq, 30% + Dol, wh-cr-tan, fn xln, sucrosic text, fr-gd xln por, scatt vugs, 10% ls&sd

[No Show]

4700' spl: 10% shales, 45% chert, wh-cr, transl-opaq, fresh-subvitreous, 45% Dol, wh-cr, fn xln, dns, fr-gd xln por, scatt vugs, gd crush

[No Show]

RTD

Core barrel jammed and quit drilling at 4554 ft!  
7:00 AM, August 27, 2011, Trip Out with core tools.

**< 4560 (-2253)**  
\* Measurement/TD discrepancy at end of Core #1. Drilled 31' fo kelly. Therefore, TD should be 4556'. Geograph indicates drilled 29'. Therefore, TD should be 4554'. Core barrel measurement indicates we cored 22' which would indicate a TD of 4547'.

Core #2 jammed at 4569.5

Mud Check @ 4557', Coring:  
Vis Wt WL LCM PV YP  
44 8.5 18.4 0 10 12  
Chl Hd pH  
8400 160 8.5

**< 4606 (-2299)**  
DST#3: 4503-4573 Cherokee (Straddle)  
Times: 30-60-60-90  
Initial Blow: Stg, b.o.b. 1 min, 2-1/4" bb  
Final Blow: Stg, b.o.b. 1-1/4 min, wk surf  
bb-died in 18 min  
Rec: 3550 Ft Total Fluid  
1504' gmco (10%g-70%o-20%w)  
1178' smgco (15%g-70%o-10%w)  
558' wogcm (10%g-20%o-30%w-40%w)  
310' mgwco (20%g-50%o-05%w-25%w)  
IHP 2207 FHP 2081  
IFP 432-978 FFP 1005-1368  
ISIP 1420 FSIP 1421  
BHT 135 \* Oil Grav 31 \* API  
Chl/Wtr 34,000 ppm

Core #1, 4525-4554, Description:  
4528': Shale pl gy, sli sandy thruout, fn gm.  
4531': Shale gy, Sli Foss-some pyritized foss.  
4534': Shale varigated red&gy with wh silty partings.  
4537': Shale gmish gy with reddish mineral patches.  
4540': Shale blueish gy, subwaxy text.  
4543': Shale blueish gy with Rr scatt pyrite specks, subwaxy text.  
4547': Shale blueish gy-dk gy, subwaxy text.

Core #2, 4554-4569.5, Description:  
4551': Ls nodule (dolom?) wh, vfn xln, dns, reacts mildly to mild HCL  
4554': Shale gy, smooth  
4557': Shale gy-blueish gy, smooth  
4560': Shale gmish gy-blueish gy  
4565': Chert nodule, foss, spiculitic  
4569 +/-: Cgl 1/4"-3" cobbles cem with sand: fn-crs gm, subangular, pr-gd inter-grnlr por, sli odor, sli stning in pt with sli show of oil, Some of sandy cem reacts mildly to HCL. Some apparent Dol in sdy matrix.

\* See image of core at 4569' in header section!

7:00 AM, August 28, 2011, RTD 4700 at 7:00 am  
7:00 AM, August 29, 2011, TBIH for DST 2

Mud Check @ 4700, TOOH at RTD:  
Vis Wt WL LCM PV YP  
56 9.1 16 0 12 16  
Chl Hd pH  
7400 100 9.0  
\* Pipe Strap @ 4700 ft. .23' long.





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Norstar Petroleum Inc  
 88 -Inverness Cir E. Unit F104  
 Englewood CO 80112  
 ATTN: Brad Rine

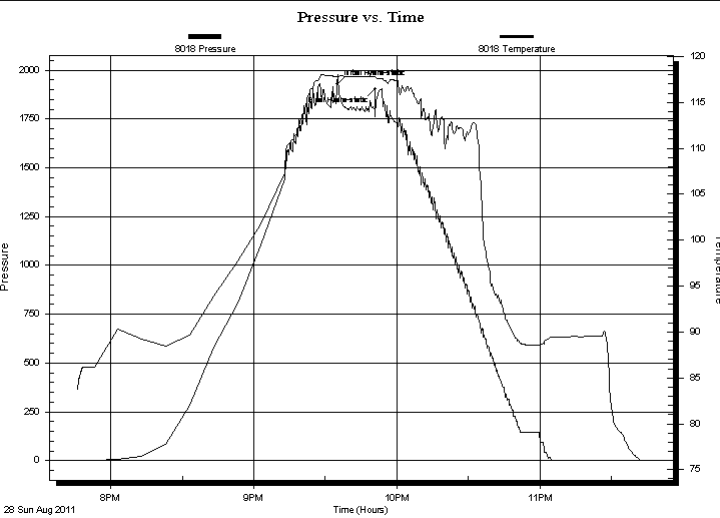
**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
 Job Ticket: 43670      **DST#: 1**  
 Test Start: 2011.08.28 @ 19:46:00

## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened:  
 Time Test Ended: 23:44:00  
 Interval: **4503.00 ft (KB) To 4573.00 ft (KB) (TVD)**  
 Total Depth: 4700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition:  
 Test Type: Conventional Straddle  
 Tester: Will MacLean  
 Unit No: 37  
 Reference Elevations: 2307.00 ft (KB)  
 2302.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8018      Inside**  
 Press @ Run Depth:      psig @ 4513.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.08.28      End Date: 2011.08.28      Last Calib.: 2011.08.29  
 Start Time: 19:46:02      End Time: 23:44:00      Time On Btm: 2011.08.28 @ 21:35:00  
 Time Off Btm: 2011.08.28 @ 21:50:50

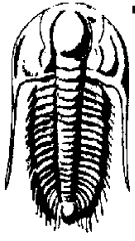
**TEST COMMENT:** Mis-run -- Hlt Bridge 8 Stands From Bottom Couldn't Get Through It



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.86	117.86	Initial Hydro-static
16	1903.97	117.84	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)

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



**TRILOBITE TESTING, INC.**

### DRILL STEM TEST REPORT

Norstar Petroleum Inc  
88 -Inverness Cir E. Unit F104  
Englewood CO 80112  
ATTN: Brad Rine

**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
Job Ticket: 43670 **DST#: 1**  
Test Start: 2011.08.28 @ 19:46:00

#### GENERAL INFORMATION:

Formation: **Cherokee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened:  
Time Test Ended: 23:44:00

Test Type: Conventional Straddle  
Tester: Will MacLean  
Unit No: 37

**Interval: 4503.00 ft (KB) To 4573.00 ft (KB) (TVD)**  
Total Depth: 4700.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2307.00 ft (KB)  
2302.00 ft (CF)  
KB to GR/CF: 5.00 ft

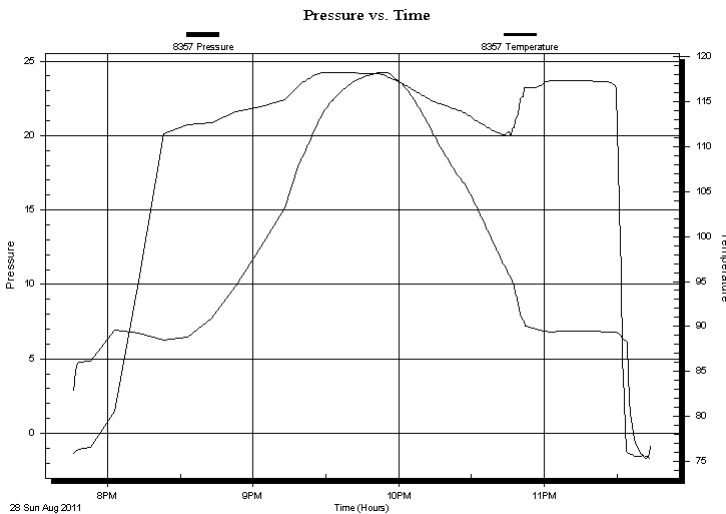
**Serial #: 8357**

**Below (Straddle)**

Press @RunDepth: psig @ 4576.00 ft (KB)  
Start Date: 2011.08.28 End Date: 2011.08.28  
Start Time: 19:46:05 End Time: 23:43:45

Capacity: 8000.00 psig  
Last Calib.: 2011.08.29  
Time On Btm:  
Time Off Btm:

TEST COMMENT: Mis-run -- Hlt Bridge 8 Stands From Bottom Couldn't Get Through It



#### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

#### 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**

Norstar Petroleum Inc  
88 -Inverness Cir E. Unit F104  
Englewood CO 80112  
ATTN: Brad Rine

**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
Job Ticket: 43670      **DST#: 1**  
Test Start: 2011.08.28 @ 19:46:00

**Mud and Cushion Information**

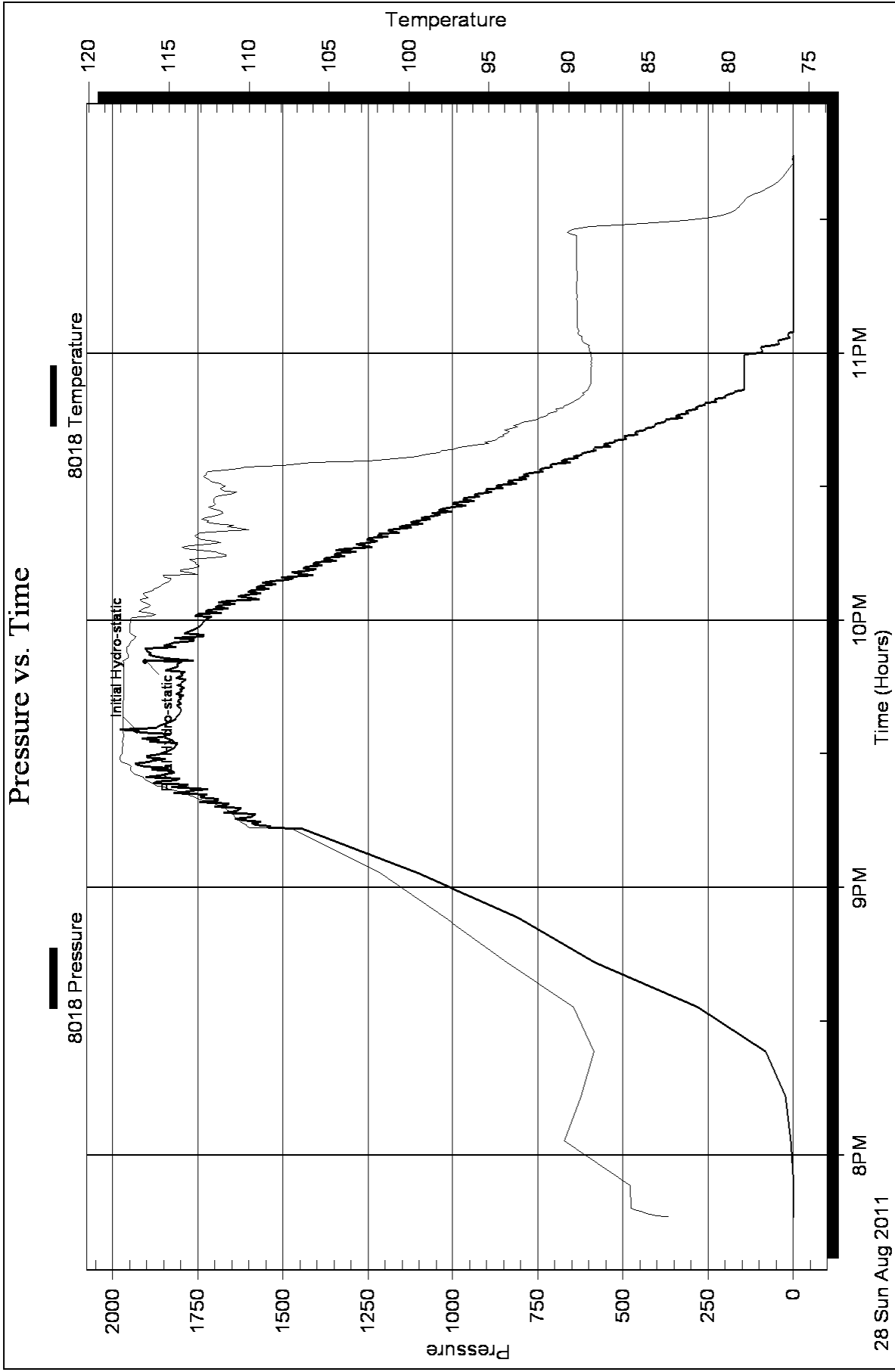
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 15.93 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7400.00 ppm			
Filter Cake: 2.00 inches			

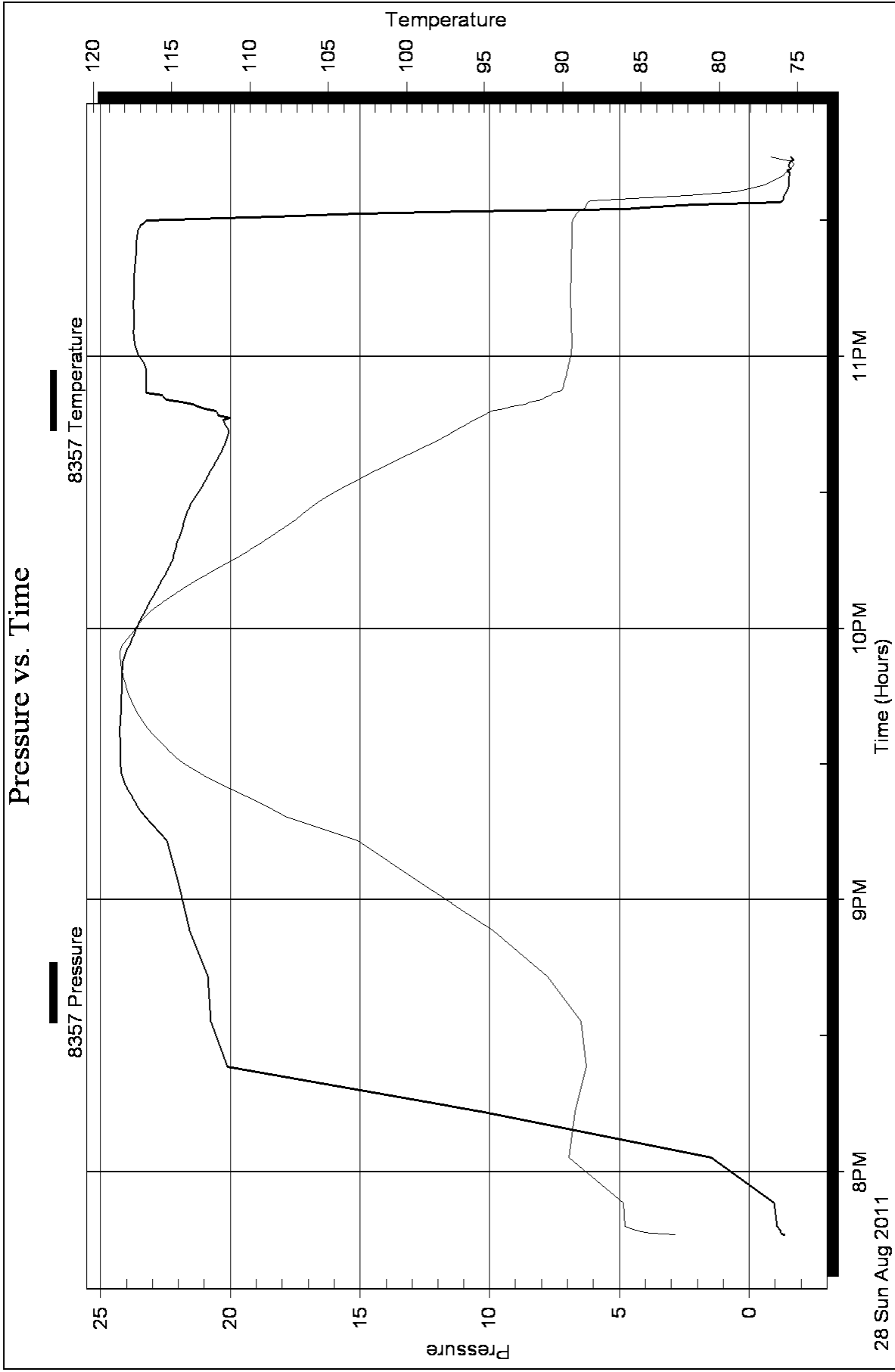
**Recovery Information**

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

Norstar Petroleum Inc  
 88 -Inverness Cir E. Unit F104  
 Englewood CO 80112  
 ATTN: Brad Rine

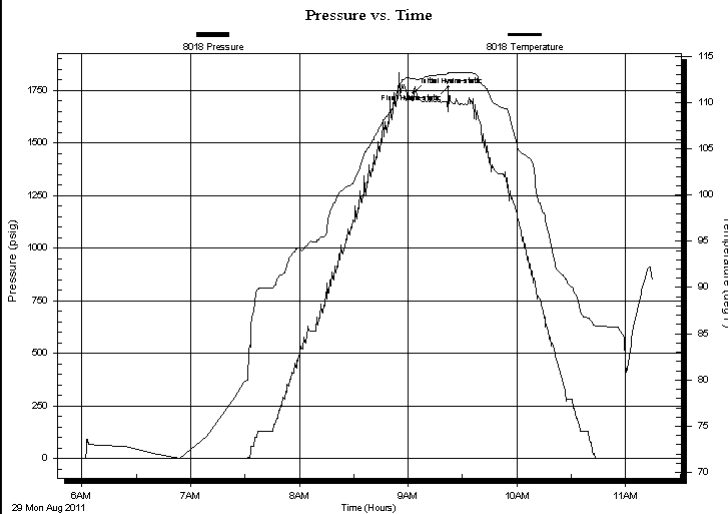
**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
 Job Ticket: 43671 **DST#: 2**  
 Test Start: 2011.08.29 @ 06:02:02

## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended: 11:14:50  
 Interval: **4503.00 ft (KB) To 4573.00 ft (KB) (TVD)**  
 Total Depth: 4700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle  
 Tester: Will MacLean  
 Unit No: 37  
 Reference Elevations: 2307.00 ft (KB)  
 2302.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8018 Inside**  
 Press @ Run Depth: psig @ 4513.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.08.29 End Date: 2011.08.29 Last Calib.: 2011.08.29  
 Start Time: 06:02:02 End Time: 11:14:49 Time On Btm: 2011.08.29 @ 09:03:10  
 Time Off Btm: 2011.08.29 @ 09:22:00

TEST COMMENT: Mis-run Couldn't Get to Bottom



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.23	112.54	Initial Hydro-static
19	1766.09	113.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Norstar Petroleum Inc  
 88 -Inverness Cir E. Unit F104  
 Englewood CO 80112  
 ATTN: Brad Rine

**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
 Job Ticket: 43671 **DST#: 2**  
 Test Start: 2011.08.29 @ 06:02:02

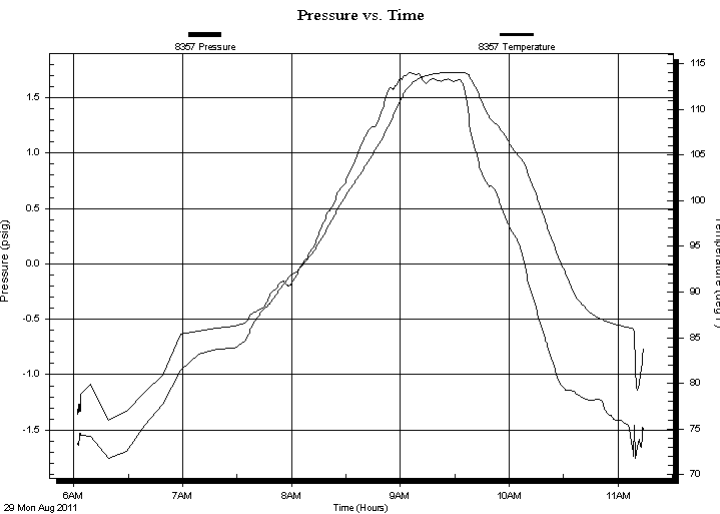
## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Straddle  
 Time Tool Opened: Tester: Will MacLean  
 Time Test Ended: 11:14:50 Unit No: 37  
 Interval: **4503.00 ft (KB) To 4573.00 ft (KB) (TVD)** Reference Elevations: 2307.00 ft (KB)  
 Total Depth: 4700.00 ft (KB) (TVD) 2302.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

## Serial #: 8357 Below (Straddle)

Press @ Run Depth: psig @ 4576.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.08.29 End Date: 2011.08.29 Last Calib.: 2011.08.29  
 Start Time: 06:02:05 End Time: 11:14:59 Time On Btm:  
 Time Off Btm:

TEST COMMENT: Mis-run Couldn't Get to Bottom



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## 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**

Norstar Petroleum Inc  
88 -Inverness Cir E. Unit F104  
Englewood CO 80112  
ATTN: Brad Rine

**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
Job Ticket: 43671      **DST#: 2**  
Test Start: 2011.08.29 @ 06:02:02

## 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 15.91 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7400.00 ppm			
Filter Cake: 2.00 inches			

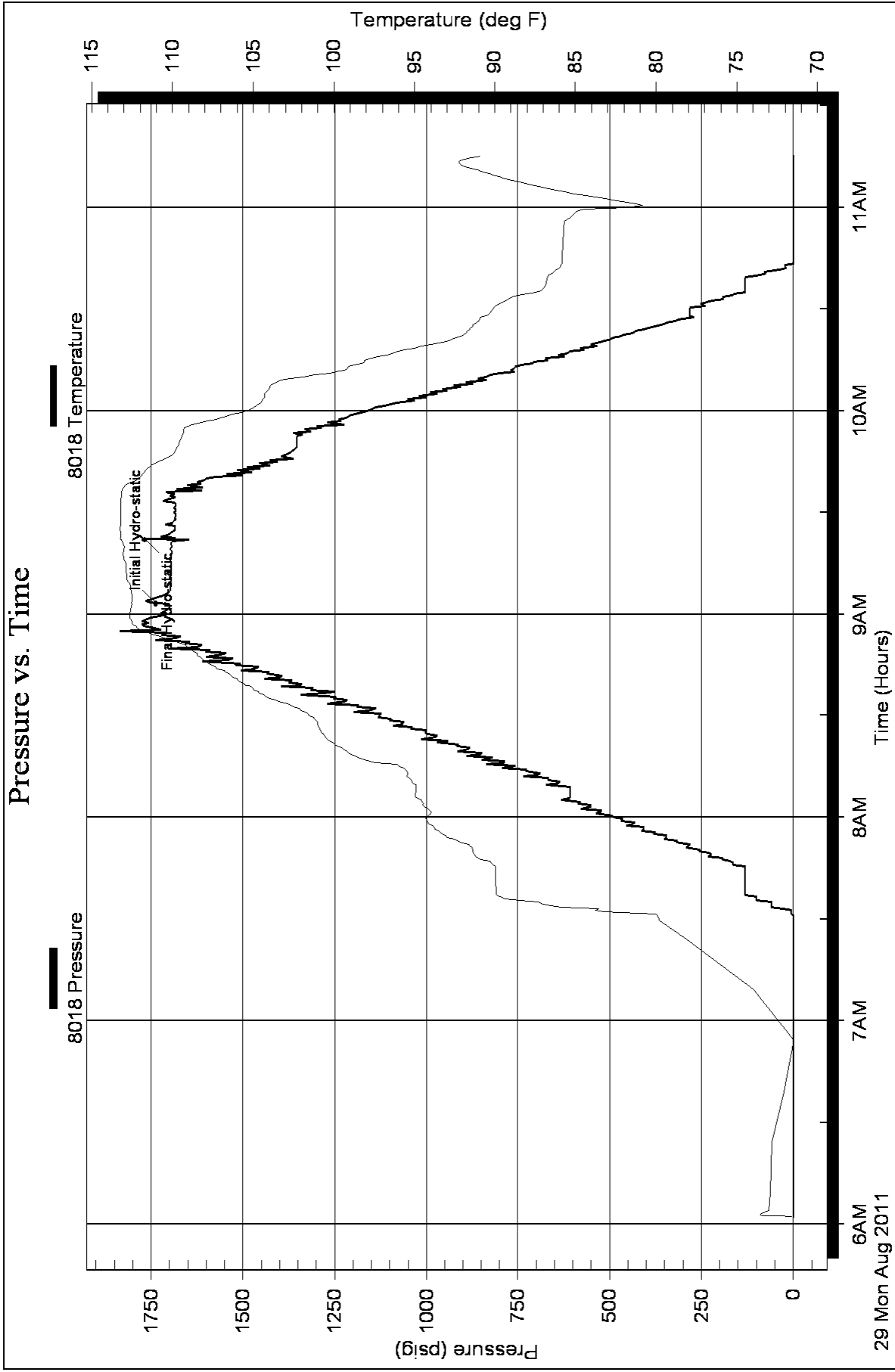
## Recovery Information

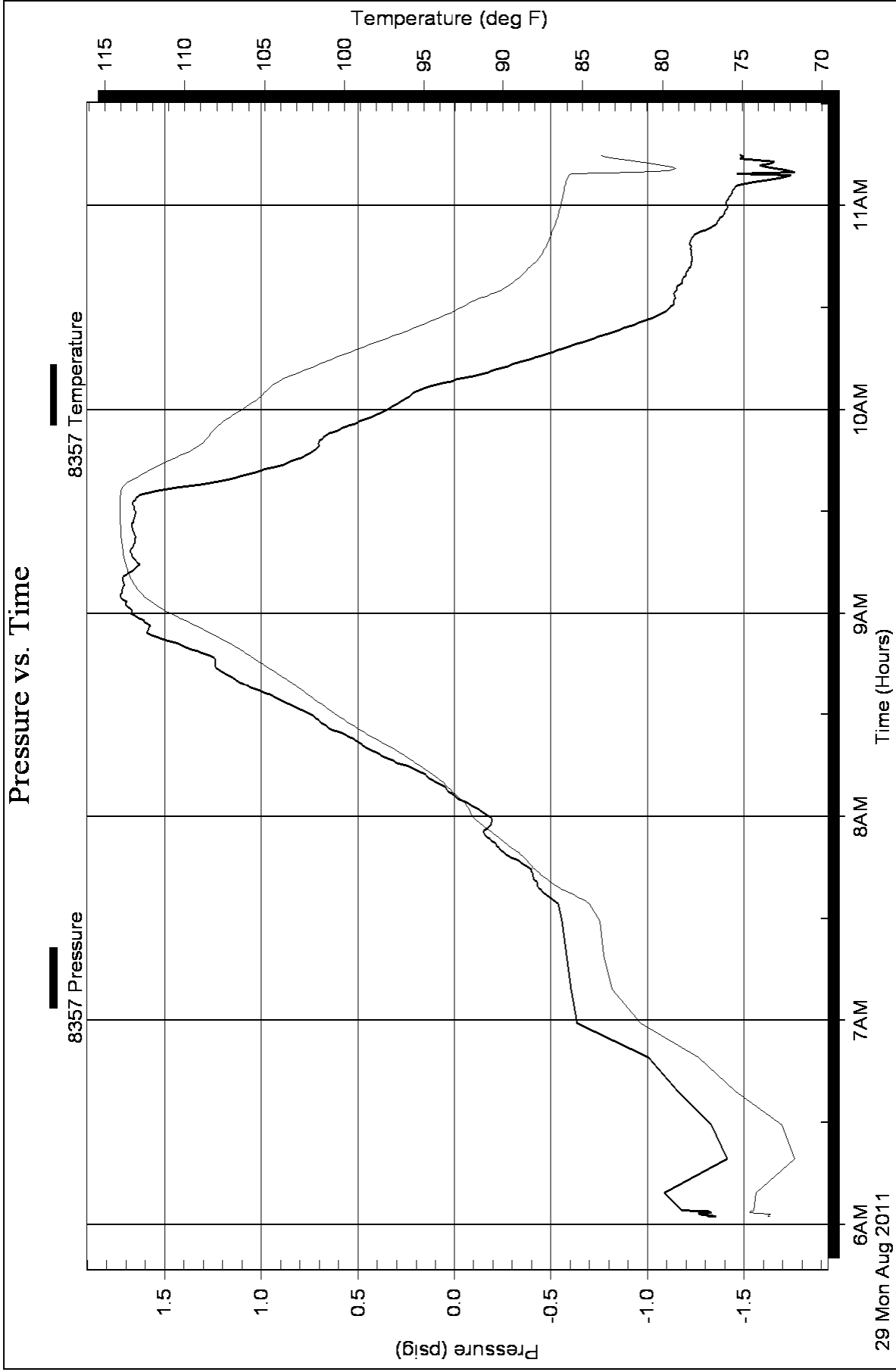
Recovery Table

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

Norstar Petroleum Inc  
 88 -Inverness Cir E. Unit F104  
 Englewood CO 80112  
 ATTN: Brad Rine

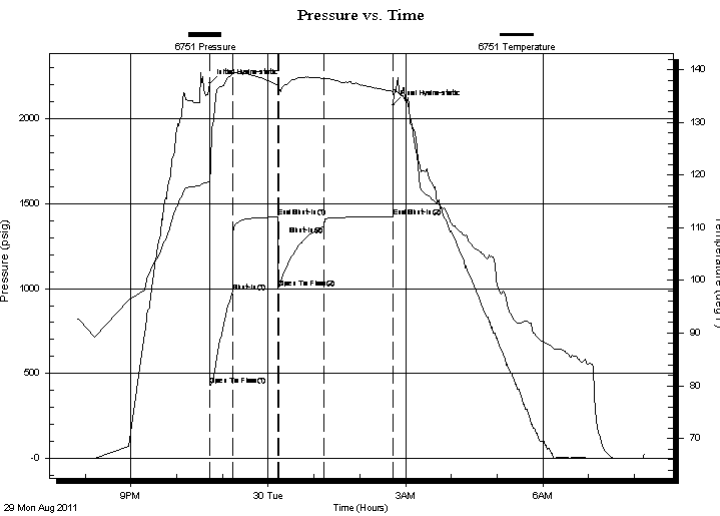
**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
 Job Ticket: 43672 **DST#: 3**  
 Test Start: 2011.08.29 @ 19:50:02

## GENERAL INFORMATION:

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:43:40  
 Time Test Ended: 08:13:30  
 Interval: **4503.00 ft (KB) To 4573.00 ft (KB) (TVD)**  
 Total Depth: 4700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle  
 Tester: Will MacLean  
 Unit No: 37  
 Reference Elevations: 2307.00 ft (KB)  
 2302.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6751 Outside**  
 Press @ Run Depth: 1368.09 psig @ 4513.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.08.29 End Date: 2011.08.30 Last Calib.: 2011.08.30  
 Start Time: 19:50:02 End Time: 08:13:30 Time On Btm: 2011.08.29 @ 22:43:19  
 Time Off Btm: 2011.08.30 @ 02:44:00

**TEST COMMENT:** IF- Bottom of Bucket in 1min  
 IS- Surface Blow Built to 2 1/4" Died Back to 1"  
 FF- Bottom of Bucket in 1min 15sec Died Back to 9"  
 FS- Weak Surface Blow Died in 8 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.50	118.75	Initial Hydro-static
1	432.14	118.25	Open To Flow (1)
30	978.06	139.18	Shut-In(1)
90	1420.25	137.07	End Shut-In(1)
90	1005.50	136.83	Open To Flow (2)
151	1368.09	138.28	Shut-In(2)
241	1421.23	135.87	End Shut-In(2)
241	2081.88	136.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
310.00	5%w 20%g 25%m 50%oil	2.14
558.00	10%g 20%oil 30%w 40%m	7.83
1178.00	10%m 15%g 70%oil	16.52
1504.00	10%g 20%m 70%oil	21.10

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Norstar Petroleum Inc  
 88 -Inverness Cir E. Unit F104  
 Englewood CO 80112  
 ATTN: Brad Rine

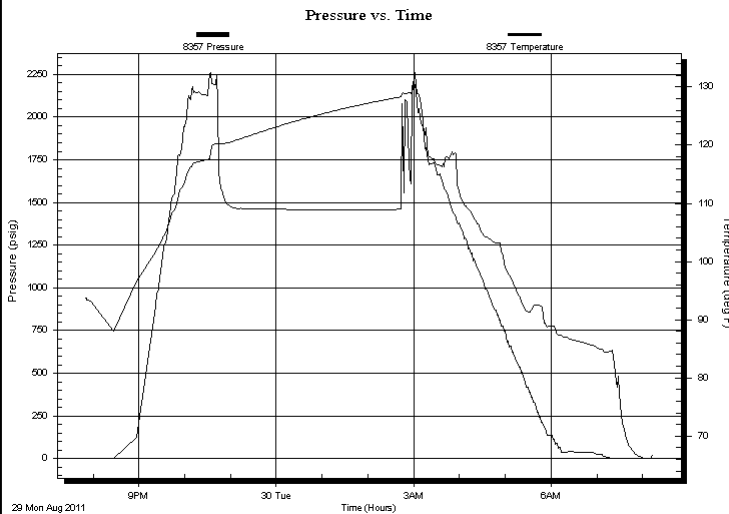
**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
 Job Ticket: 43672      **DST#: 3**  
 Test Start: 2011.08.29 @ 19:50:02

**GENERAL INFORMATION:**

Formation: **Cherokee**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Straddle  
 Time Tool Opened: 22:43:40 Tester: Will MacLean  
 Time Test Ended: 08:13:30 Unit No: 37  
 Interval: **4503.00 ft (KB) To 4573.00 ft (KB) (TVD)** Reference Elevations: 2307.00 ft (KB)  
 Total Depth: 4700.00 ft (KB) (TVD) 2302.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8357 Below (Straddle)**  
 Press @ Run Depth: psig @ 4598.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.08.29 End Date: 2011.08.30 Last Calib.: 2011.08.30  
 Start Time: 19:50:05 End Time: 08:13:15 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF- Bottom of Bucket in 1min  
 IS- Surface Blow Built to 2 1/4" Died Back to 1"  
 FF- Bottom of Bucket in 1min 15sec Died Back to 9"  
 FS- Weak Surface Blow Died in 8 min



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
310.00	5%w 20%g 25%m 50%oil	2.14
558.00	10%g 20%oil 30%w 40%m	7.83
1178.00	10%m 15%g 70%oil	16.52
1504.00	10%g 20%m 70%oil	21.10

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar Petroleum Inc  
88 -Inverness Cir E. Unit F104  
Englewood CO 80112  
ATTN: Brad Rine

**Phillips- Denny #1-4**  
**04-22-23 Hodgeman Co**  
Job Ticket: 43672      **DST#: 3**  
Test Start: 2011.08.29 @ 19:50:02

## Mud and Cushion Information

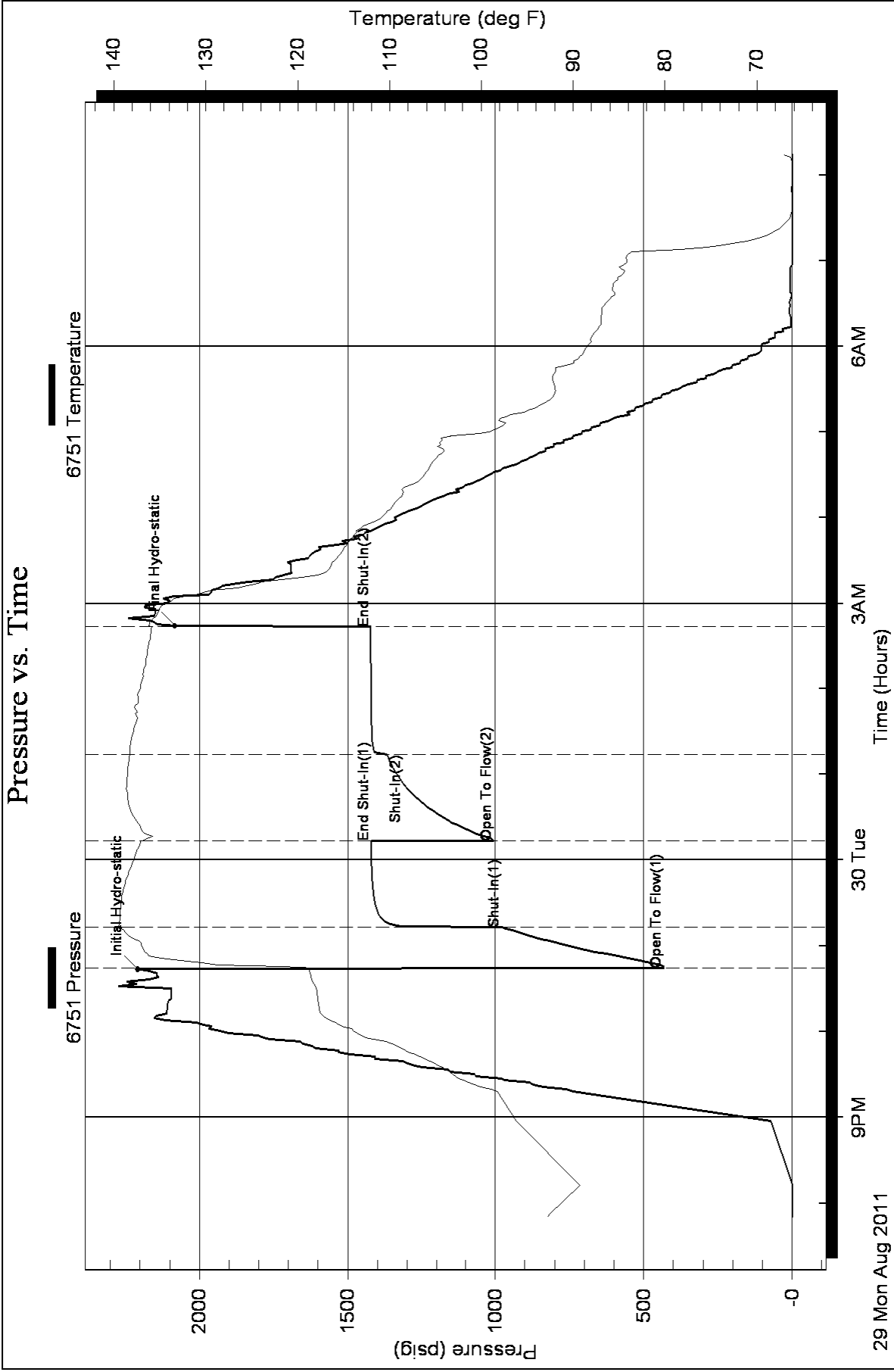
Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 34000 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl	
Water Loss: 16.37 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8300.00 ppm		
Filter Cake: 1.00 inches		

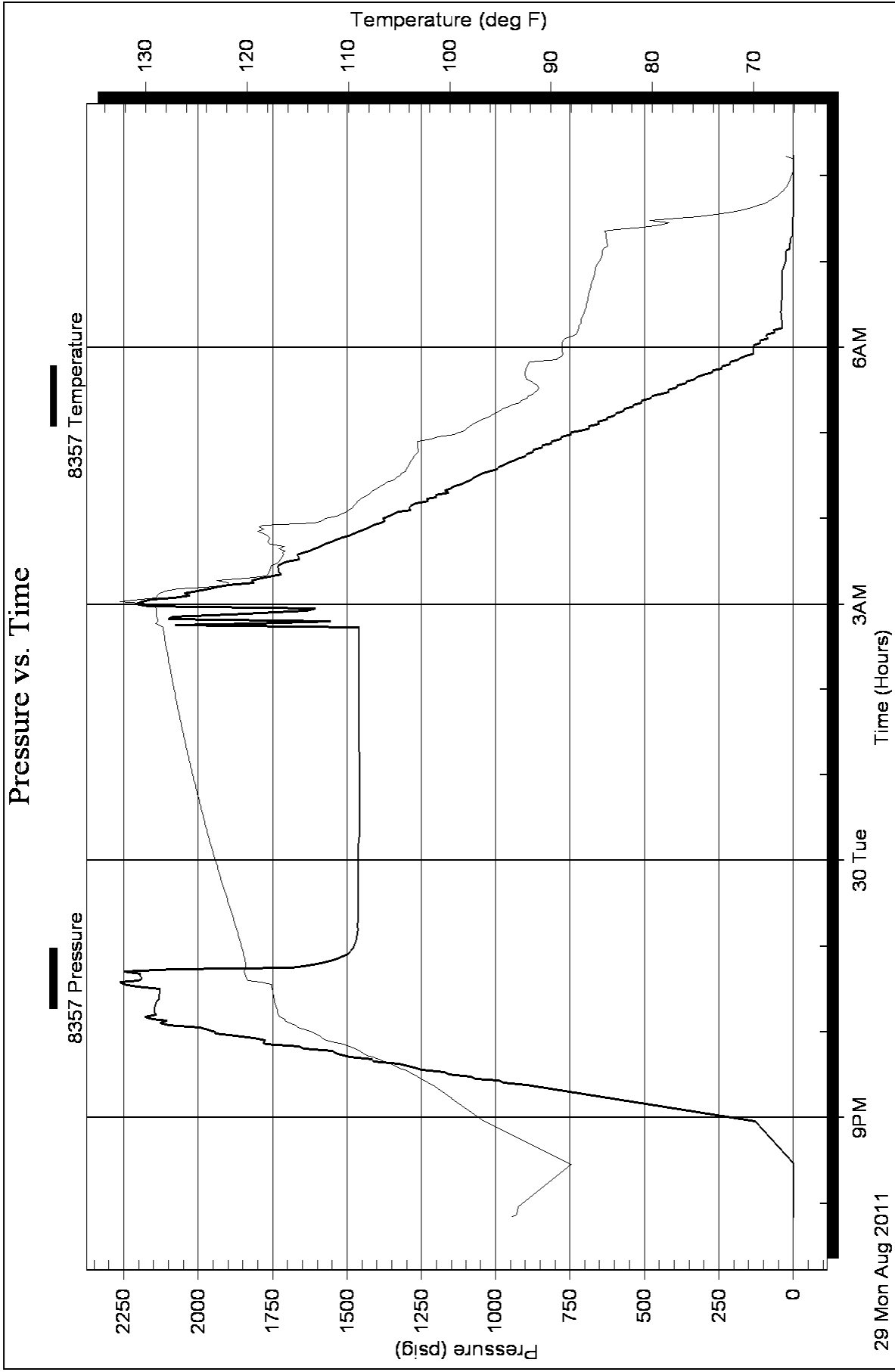
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	5%w 20%g 25%m 50%oil	2.144
558.00	10%g 20%oil 30%w 40%m	7.827
1178.00	10%m 15%g 70%oil	16.524
1504.00	10%g 20%m 70%oil	21.097

Total Length: 3550.00 ft      Total Volume: 47.592 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW is .261 @ 69f =34000  
 API 31 @ 60f =31





# ALLIED CEMENTING CO., LLC. 037383

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
*Great Bend, KS*

DATE <i>8-19-11</i>	SEC. <i>4</i>	TWP. <i>22S</i>	RANGE <i>23W</i>	CALLED OUT	ON LOCATION	JOB START <i>10:00 AM</i>	JOB FINISH <i>10:50 PM</i>
LEASE <i>Phillips - Deany</i>	WELL# <i>1-4</i>	LOCATION <i>Tetlow to North to Road S Hodgson</i>		COUNTY	STATE <i>KS</i>		
OLD OR NEW (Circle one)		<i>d/2 EAST South into</i>					

CONTRACTOR *Hallgren #1* OWNER *Norgstar Petroleum, Inc*

TYPE OF JOB *Surface*

HOLE SIZE *13 1/4* I.D.

CASING SIZE *8 5/8 23* DEPTH *257*

TUBING SIZE DEPTH

DRILL PIPE *4 1/2* DEPTH *727*

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *12 ft*

PERFS.

DISPLACEMENT

CEMENT AMOUNT ORDERED *150 sks Class A*

*3% CC 2% gel*

COMMON	<i>150</i>	@ <i>16.25</i>	<i>2,437.50</i>
POZMIX		@	
GEL	<i>3</i>	@ <i>21.25</i>	<i>63.75</i>
CHLORIDE	<i>5</i>	@ <i>58.20</i>	<i>291.00</i>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>158</i>	@ <i>2.25</i>	<i>355.50</i>
MILEAGE	<i>158 x 20 x .11</i>		<i>347.00</i>
TOTAL			<i>3,495.00</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Greg R*

# *266* HELPER *Deany*

BULK TRUCK DRIVER *Jacob*

# *341*

BULK TRUCK DRIVER

#

REMARKS:

*Dip on bottom - Break circulation with Sig mud mix, 150 sks Class A 3% cc 2% gel. Shut down release plug and displace with 15 1/2 bbls. Dephwater - Shut in. Cement did circulate*

SERVICE

DEPTH OF JOB	<i>257</i>		
PUMP TRUCK CHARGE			<i>1125.00</i>
EXTRA FOOTAGE		@	
MILEAGE Hum	<i>40</i>	@ <i>7.00</i>	<i>280.00</i>
MANIFOLD		@	
<i>Hum</i>	<i>40</i>	@ <i>4.00</i>	<i>160.00</i>
TOTAL			<i>1565.00</i>

CHARGE TO: *Norgstar Petroleum, Inc*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<i>Wooden Plug</i>	@	<i>94.00</i>	<i>94.00</i>
	@		
	@		
	@		
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 *Kyle Juergensen*

SIGNATURE *Kyle Juergensen*

*Thank You!*

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES *5,154.35*

DISCOUNT *2%* *1424.67*

*3729.68* IF PAID IN 30 DAYS



# SWIFT Services, Inc.

DATE 8-30-11 PAGE NO. 1

WELL NO. 1-4 LEASE PHILIPS - DRAWING JOB TYPE 4 1/2" LONGSTRAW TICKET NO. 21023

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1600							ON LOCATION
	1815							START 4 1/2" CASING IN WELL
								TD- 4700' SET = 4699
								TP- 4703' 4 1/2" * 10 1/2
								ST- 41'
								CONTAINERS - 1, 3, 5, 7, 74, 76
								CMT BSKTS - 6, 75
								PORT COUPLER 1580' TORST # 75
	2055							DROP BALL - CIRCULATE ROTATE
	2135	6	12		✓		400	PUMP 500 GAL MUD FLUSH "
	2137	6	20		✓		400	PUMP 20 BBLs KCL-FLUSH "
	2142		7-5					PLUG RH - MH (30SKS - 20SKS)
	2152	4	24		✓		200	MIX CEMENT - 100 SKS EA-2 @ 15.4 PPG "
	2200							WASH OUT PUMP - LINES
	2200							RELEASE LATCH DOWN PLUG
	2205	8	0		✓			DISPLACE PLUG "
		8	64				650	SHOT OFF ROTATING
	2215	6	74.1				1500	PLUG DOWN - PSE UP LATCHED PLUG
	2218						OK	RELEASE PSE - HELD
								WASH TRUCK
	2300							JOB COMPLETE

THANK YOU  
WAYNE, DON L., ROB

JOB LOG

SWIFT Services, Inc.

DATE 13 Jan 12 PAGE NO. 1

CUSTOMER NORSTAR WELL NO. 1-4 LEASE Ph. 11 ips - Denny JOB TYPE cement port collar TICKET NO. 22617

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								235 SMD 1/4" floccle 2 3/8" x 1/2" plug 4000' port collar 1582'
	0930							on loc TEK 114
	1015		24					circulate oil from hole 24 bbl - flood to surface
		4	68			400		
	1035					1250	1250	test plug 1250 psi - hold
	1040		8					spot 1 ok sand pull up to port collar
	1235					1000	1000	Retest - hold
	1240					400		open port collar
		3 #				300		start pumping drilling mud flood to surface
	1805	3	75			400		75 bbl mud pumped
	1310							mix SMD w/ 1/4" floccle @ 11.2 ppg immediate circulation
		3				600		connect to surface 165' <del>the</del> mix ed joints to pit
								close port collar
	1335					1000	1000	test to 1000 - hold
	1350							Run 5 joints
	1355		15					Reverse hole clean 2 cement plugs Run joints to the plug Wash up truck
	1450		105					Wash sand from plug Rig up to start
	1540							Rack up job complete Thanks Blaine, Wayne, Dave's Joe

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

December 14, 2011

Norstar Petroleum, Inc.  
88 Inverness Circle E, Unit F104  
Englewood, Colorado 80112  
Attn: Clark D. Parrott

RE: **Alternate II Extension**  
**Phillips-Denny # 1-4**  
**SEWNNE sec 4-22-23W**  
**Hodgeman County, Kansas**  
**API # 15-083-21722-00-00**

Dear Mr. Parrot,

This letter is to inform you that based on your written request dated December 8, 2011, and the recommendation of the KCC District 1 (Dodge City) office, you have been granted an additional thirty (30) day extension of time to complete Alternate II cementing requirement on captioned well.

According to KCC records, your original 120 days for completion will expire on December 17, 2011. Based on the extension request to evaluate subject well for commercial potential, this extension is granted until **January 17, 2012**. I urge you to make every effort to complete the cementing within this time frame. Extension of this time frame, pursuant to K.A.R. 82-3-106, automatically extends the period for filing the ACO-1, pursuant to K.A.R. 82-3-130. Before completing the cementing of subject well, please contact the Dodge City District office at 620-225-8888.

If you have any questions in this regard, please do not hesitate to contact me.

Sincerely,

Doug Louis

Director, Conservation Division

cc: Steve Durrant – District 1

Steve Bond - Production Supervisor

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

Sam Brownback, Governor

January 19, 2012

Clark D. Parrott  
Norstar Petroleum, Inc.  
88 INVERNESS CIR E. Unit F104  
ENGLEWOOD, CO 80112

Re: ACO1  
API 15-083-21722-00-00  
Phillips-Denny 1-4  
NE/4 Sec.04-22S-23W  
Hodgeman 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.

Extension beyond 120 day was granted. Work was completed within the extension period.

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

Respectfully,  
Clark D. Parrott

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

January 20, 2012

Clark D. Parrott  
Norstar Petroleum, Inc.  
88 INVERNESS CIR E. Unit F104  
ENGLEWOOD, CO 80112

Re: ACO-1  
API 15-083-21722-00-00  
Phillips-Denny 1-4  
NE/4 Sec.04-22S-23W  
Hodgeman County, Kansas

Dear Clark D. Parrott:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 8/19/2011 and the ACO-1 was received on January 19, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department