



KANSAS CORPORATION COMMISSION 1104339
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33629
Name: Great Plains Energy, Inc.
Address 1: 6121 S 58th ST, STE B
Address 2:
City: Lincoln State: NE Zip: 68516 +
Contact Person: Dan Blankenau
Phone: (402) 443-6125
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Richard Bell
Purchaser: Dry Hole

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 #:

11/06/2011	11/15/2011	11/16/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-193-20826-00-00

Spot Description:
NW SE NE SE Sec. 16 Twp. 6 S. R. 36 East West
1700 Feet from North / South Line of Section
450 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Thomas

Lease Name: James Well #: 1-16

Field Name:

Producing Formation: Dry Hole

Elevation: Ground: 3376 Kelly Bushing: 3379

Total Depth: 4880 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 370 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 cmf.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 5200 ppm Fluid volume: 80 bbls

Dewatering method used: Evaporated

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: Deanna Garrison Date: 01/14/2013



1104339

Operator Name: Great Plains Energy, Inc. Lease Name: James Well #: 1-16
 Sec. 16 Twp. 6 S. R. 36 East West County: Thomas

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: CD/NL, DIL, Micro, Sonic	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface	12.25	5.5	23	370	Common	300	3%cc

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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

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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Form	ACO1 - Well Completion
Operator	Great Plains Energy, Inc.
Well Name	James 1-16
Doc ID	1104339

Tops

Anhydrite	3006	+373
Base	3042	+337
Topeka	4050	-671
Heebner	4190	-811
Lansing	4240	-861
BKC	4492	-1113
Pawnee	4605	-1226
Cherokee	4698	-1319
Mississippian	4856	-1477

ALLIED CEMENTING CO., LLC. 036103

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Earlby, KS

DATE <u>11-6-11</u>	SEC. <u>16</u>	TWP. <u>6</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>7:00pm</u>	JOB START <u>10:30pm</u>	JOB FINISH <u>11:30pm</u>
LEASE <u>James</u>	WELL # <u>1-16</u>	LOCATION <u>Brewster 12 1/2 N 2 E</u>			COUNTY <u>Thomas</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>345 into</u>			

CONTRACTOR Merfue #3
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4" T.D. 371'
 CASING SIZE 8 7/8 DEPTH 370'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15 ft
 PERFS.
 DISPLACEMENT 22.72

OWNER same
 CEMENT AMOUNT ORDERED 300 sks approx 370.00

EQUIPMENT
 PUMP TRUCK CEMENTER Lakens
 # 431 HELPER Darren
 BULK TRUCK
 # 396/32 DRIVER Chris
 BULK TRUCK
 # DRIVER

COMMON 300 sks @ 16.254875.00
 POZMIX @
 GEL @
 CHLORIDE 115 sks @ 58.26 640.20
 ASC @
 HANDLING 311 sks @ 2.25 699.75
 MILEAGE 114 sk/mile 1881.55
 TOTAL 2696.50

REMARKS:
Mix 300 sks down casing
Displace with water
Cement did circulate

Thank you

CHARGE TO: Great Plains
 STREET
 CITY STATE ZIP

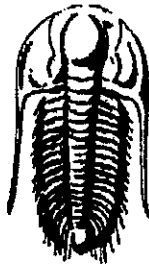
SERVICE
 DEPTH OF JOB 370'
 PUMP TRUCK CHARGE 1125.00
 EXTRA FOOTAGE 93 @ 70 66.50
 MILEAGE 55 X 2 @ 7.00 77.00
 MANIFOLD head @ 200.00
light cable @ 4.00 440.00
 TOTAL 2661.50

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.

PLUG & FLOAT EQUIPMENT
Wooden Plug @ 92.00
 TOTAL 92.00

PRINTED NAME
 SIGNATURE Keith Van Doren

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 South 58th St. Ste-B
Lincoln, NE 68516

ATTN: Rich Bell

16-6s-36w Thomas,KS

James #1-16

Start Date: 2011.11.10 @ 15:28:00

End Date: 2011.11.10 @ 22:15:15

Job Ticket #: 43734 DST #: 1

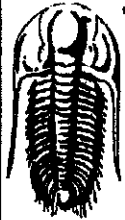
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.18 @ 10:33:19

Great Plains Energy, Inc. James #1-16 16-6s-36w Thomas,KS DST # 1 Wabunsee 2011.11.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

James #1-16

6121 South 58th St. Ste-B
Lincoln, NE 68516

16-6s-36w Thomas,KS

Job Ticket: 43734

DST#: 1

ATTN: Rich Bell

Test Start: 2011.11.10 @ 15:28:00

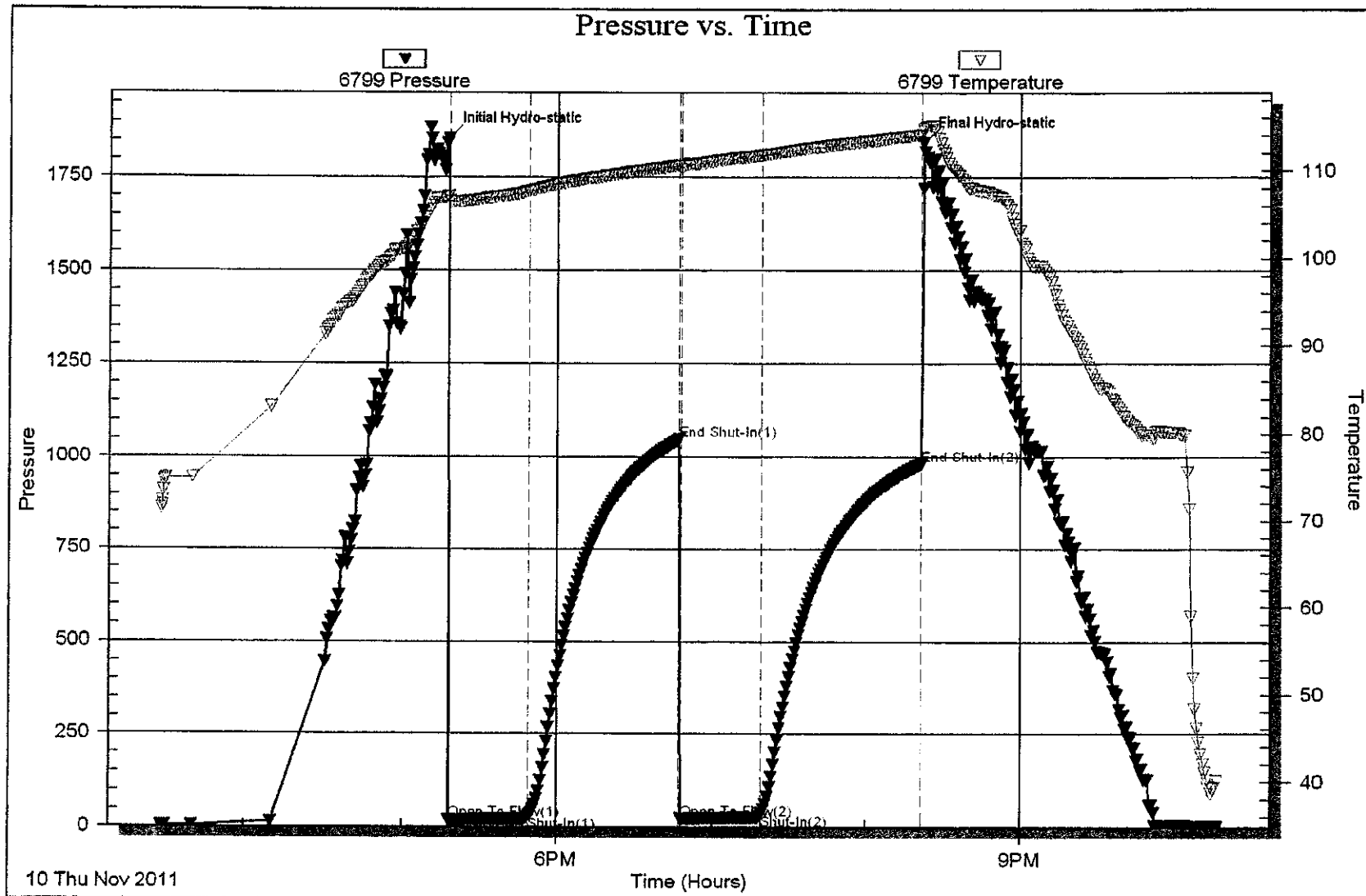
Tool Information

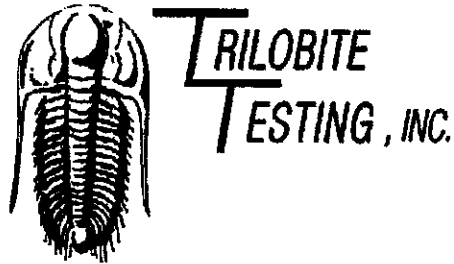
Drill Pipe:	Length: 3399.00 ft	Diameter: 3.80 inches	Volume: 47.68 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 487.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 50.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3895.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3867.00	
Shut In Tool	5.00			3872.00	
Hydraulic tool	5.00			3877.00	
Jars	5.00			3882.00	
Safety Joint	3.00			3885.00	
Packer	5.00			3890.00	29.00 Bottom Of Top Packer
Packer	5.00			3895.00	
Stubb	1.00			3896.00	
Recorder	0.00	8648	Inside	3896.00	
Recorder	0.00	6799	Inside	3896.00	
Perforations	16.00			3912.00	
Change Over Sub	1.00			3913.00	
Drill Pipe	31.00			3944.00	
Change Over Sub	1.00			3945.00	
Bullnose	5.00			3950.00	55.00 Bottom Packers & Anchor

Total Tool Length: 84.00





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 South 58th St. Ste-B
Lincoln, NE 68516

ATTN: Rich Bell

16-6s-36w Thomas,KS

James #1-16

Start Date: 2011.11.12 @ 04:59:00

End Date: 2011.11.12 @ 12:11:00

Job Ticket #: 43735 DST #: 2

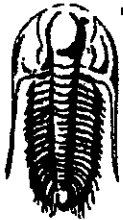
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.18 @ 10:33:39

Great Plains Energy, Inc. James #1-16 16-6s-36w Thomas,KS DST # 2 LKC "E,F" 2011.11.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

James #1-16

6121 South 58th St. Ste-B
Lincoln, NE 68516

16-6s-36w Thomas,KS

Job Ticket: 43735

DST#: 2

ATTN: Rich Bell

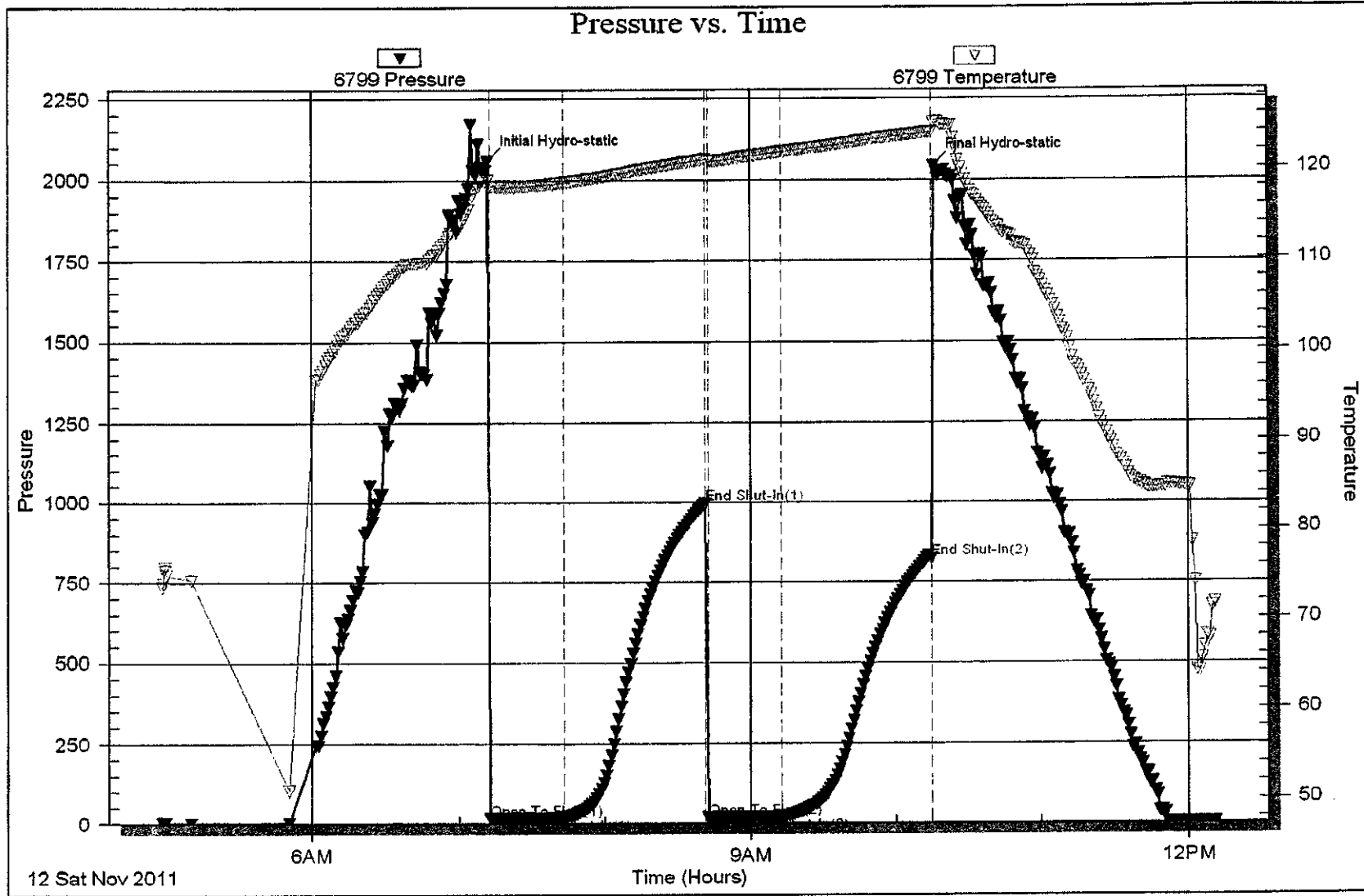
Test Start: 2011.11.12 @ 04:59:00

Tool Information

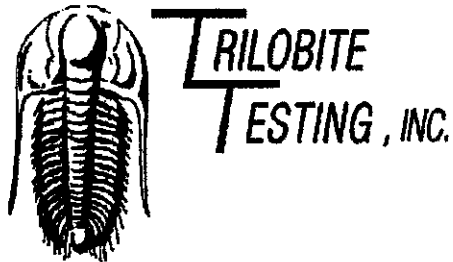
Drill Pipe:	Length: 3801.00 ft	Diameter: 3.80 inches	Volume: 53.32 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 487.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.71 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4295.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4267.00	
Shut In Tool	5.00			4272.00	
Hydraulic tool	5.00			4277.00	
Jars	5.00			4282.00	
Safety Joint	3.00			4285.00	
Packer	5.00			4290.00	29.00 Bottom Of Top Packer
Packer	5.00			4295.00	
Stubb	1.00			4296.00	
Recorder	0.00	8648	Inside	4296.00	
Recorder	0.00	6799	Inside	4296.00	
Perforations	24.00			4320.00	
Bullnose	5.00			4325.00	30.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



12 Sat Nov 2011



DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 South 58th St. Ste-B
Lincoln, NE 68516

ATTN: Rich Bell

16-6s-36w Thomas,KS

James #1-16

Start Date: 2011.11.12 @ 21:35:00

End Date: 2011.11.13 @ 05:40:00

Job Ticket #: 43736 DST #: 3

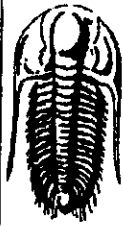
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.18 @ 10:33:54

Great Plains Energy, Inc. James #1-16 16-6s-36w Thomas,KS DST # 3 LKC "J" 2011.11.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

James #1-16

6121 South 58th St. Ste-B
Lincoln, NE 68516

16-6s-36w Thomas,KS

ATTN: Rich Bell

Job Ticket: 43736

DST#: 3

Test Start: 2011.11.12 @ 21:35:00

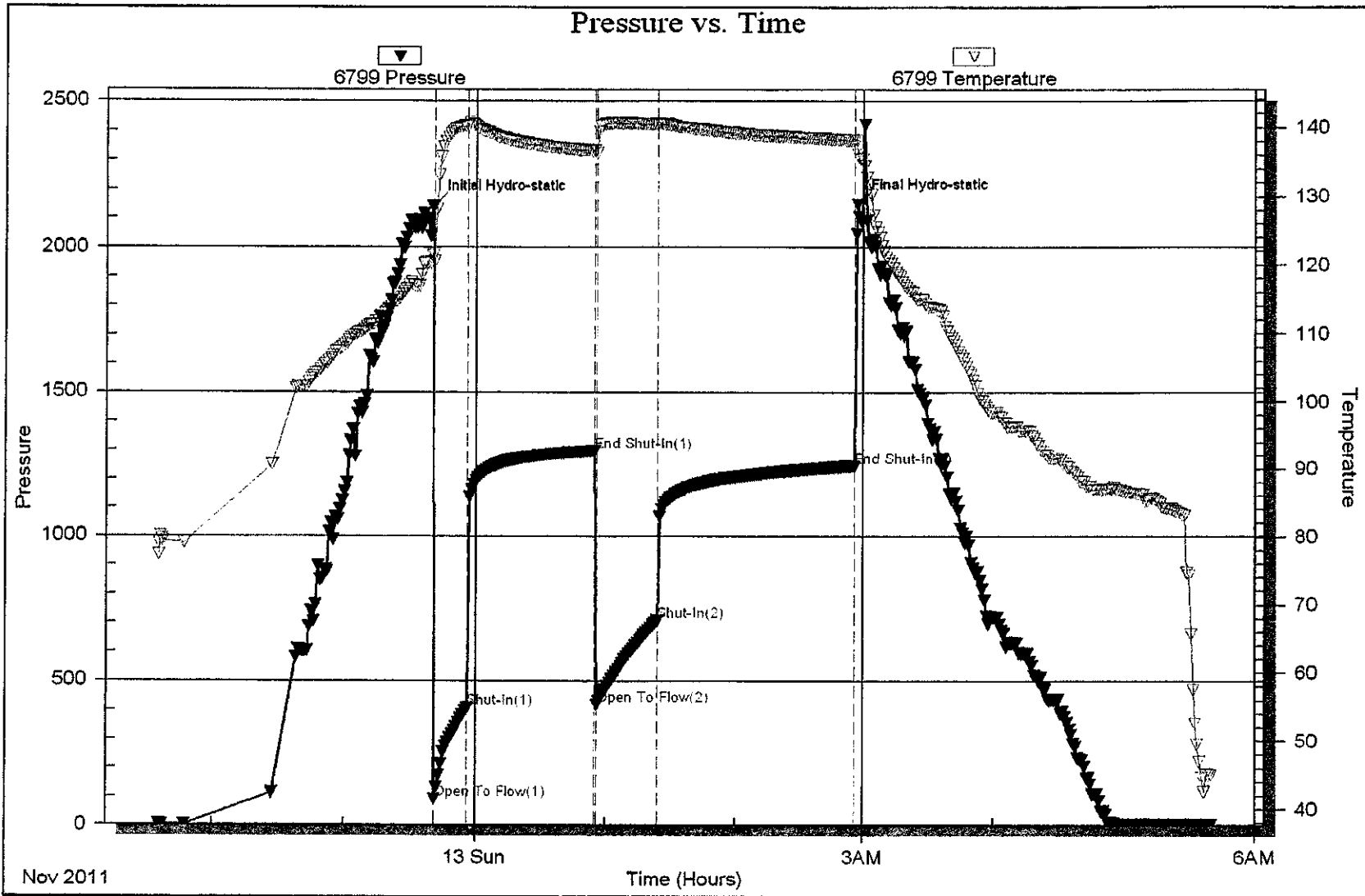
Tool Information

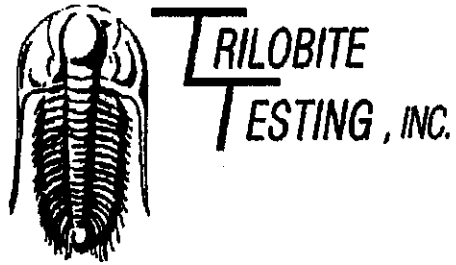
Drill Pipe:	Length: 3895.00 ft	Diameter: 3.80 inches	Volume: 54.64 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 487.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.03 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4406.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4378.00	
Shut In Tool	5.00			4383.00	
Hydraulic tool	5.00			4388.00	
Jars	5.00			4393.00	
Safety Joint	3.00			4396.00	
Packer	5.00			4401.00	29.00 Bottom Of Top Packer
Packer	5.00			4406.00	
Stubb	1.00			4407.00	
Recorder	0.00	8648	Inside	4407.00	
Recorder	0.00	6799	Inside	4407.00	
Perforations	13.00			4420.00	
Bullnose	5.00			4425.00	19.00 Bottom Packers & Anchor
Total Tool Length:	48.00				





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 South 58th St. Ste-B
Lincoln, NE 68516

ATTN: Rich Bell

16-6s-36w Thomas,KS

James #1-16

Start Date: 2011.11.14 @ 00:12:36

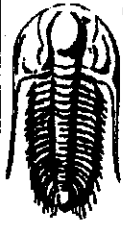
End Date: 2011.11.14 @ 08:00:06

Job Ticket #: 43737 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.18 @ 10:34:09

Great Plains Energy, Inc.
James #1-16
16-6s-36w Thomas,KS
DST # 4
Pawnee
2011.11.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

James #1-16

6121 South 58th St. Ste-B
Lincoln, NE 68516

16-6s-36w Thomas,KS

Job Ticket: 43737

DST#: 4

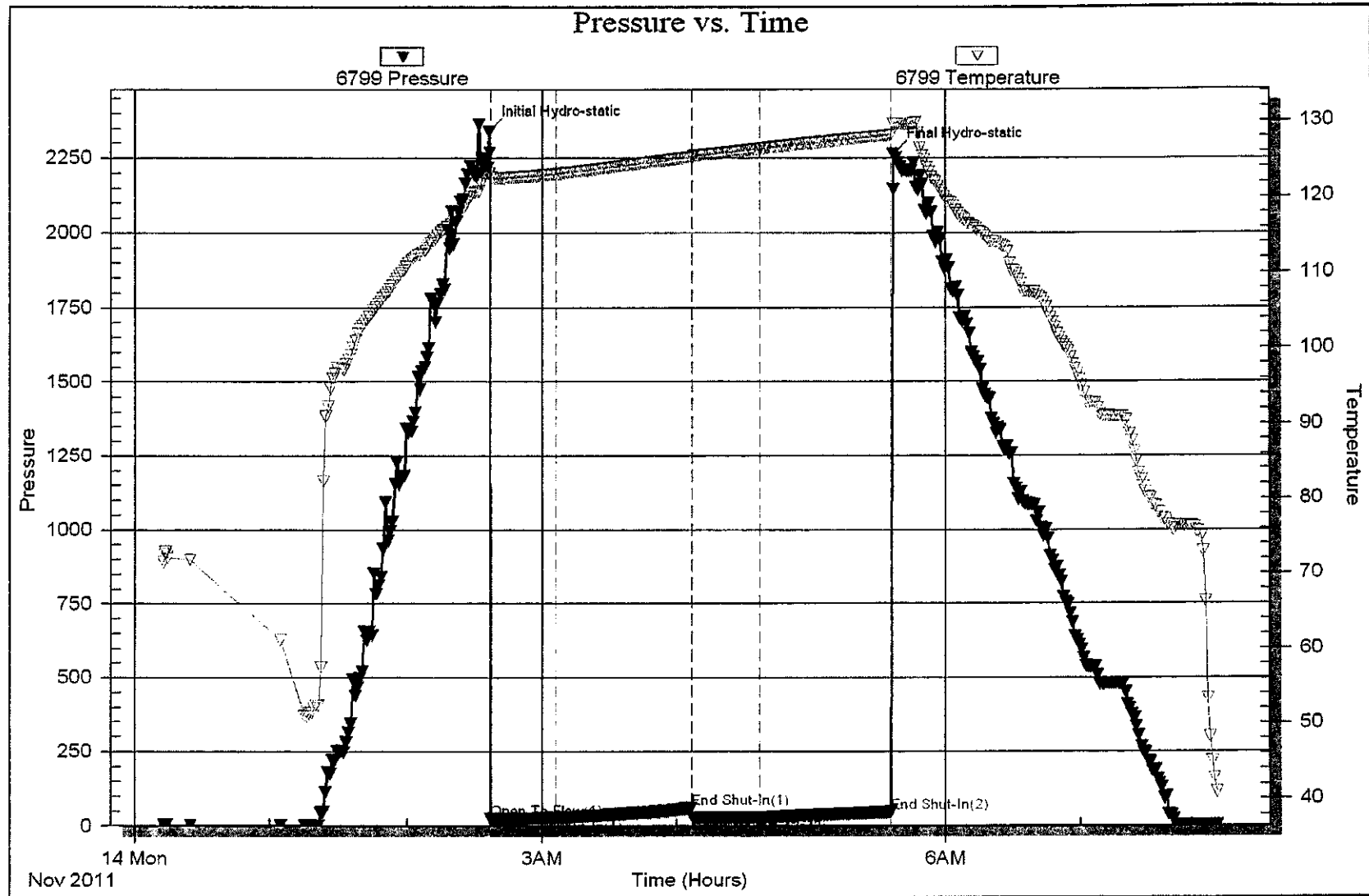
ATTN: Rich Bell

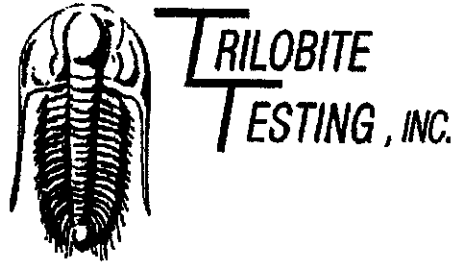
Test Start: 2011.11.14 @ 00:12:36

Tool Information

Drill Pipe:	Length: 4083.00 ft	Diameter: 3.80 inches	Volume: 57.27 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 487.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose:	67000.00 lb
			<u>Total Volume: 59.66 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4579.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	65.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4551.00	
Shut In Tool	5.00			4556.00	
Hydraulic tool	5.00			4561.00	
Jars	5.00			4566.00	
Safety Joint	3.00			4569.00	
Packer	5.00			4574.00	29.00 Bottom Of Top Packer
Packer	5.00			4579.00	
Stubb	1.00			4580.00	
Recorder	0.00	8648	Inside	4580.00	
Recorder	0.00	6799	Inside	4580.00	
Perforations	30.00			4610.00	
Bullnose	5.00			4615.00	36.00 Bottom Packers & Anchor
Total Tool Length:	65.00				





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 South 58th St. Ste-B
Lincoln, NE 68516

ATTN: Rich Bell

16-6s-36w Thomas,KS

James #1-16

Start Date: 2011.11.14 @ 22:33:00

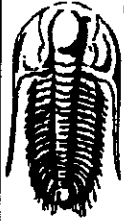
End Date: 2011.11.15 @ 06:59:30

Job Ticket #: 43738 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.18 @ 10:34:34

Great Plains Energy, Inc. James #1-16 16-6s-36w Thomas,KS DST # 5 Cherokee 2011.11.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

James #1-16

6121 South 58th St. Ste-B
Lincoln, NE 68516

16-6s-36w Thomas,KS

Job Ticket: 43738

DST#: 5

ATTN: Rich Bell

Test Start: 2011.11.14 @ 22:33:00

Tool Information

Drill Pipe:	Length: 4237.00 ft	Diameter: 3.80 inches	Volume: 59.43 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 487.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 61.82 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4720.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4692.00	
Shut In Tool	5.00			4697.00	
Hydraulic tool	5.00			4702.00	
Jars	5.00			4707.00	
Safety Joint	3.00			4710.00	
Packer	5.00			4715.00	29.00 Bottom Of Top Packer
Packer	5.00			4720.00	
Stubb	1.00			4721.00	
Recorder	0.00	8648	Inside	4721.00	
Recorder	0.00	6799	Inside	4721.00	
Perforations	30.00			4751.00	
Bullnose	5.00			4756.00	36.00 Bottom Packers & Anchor

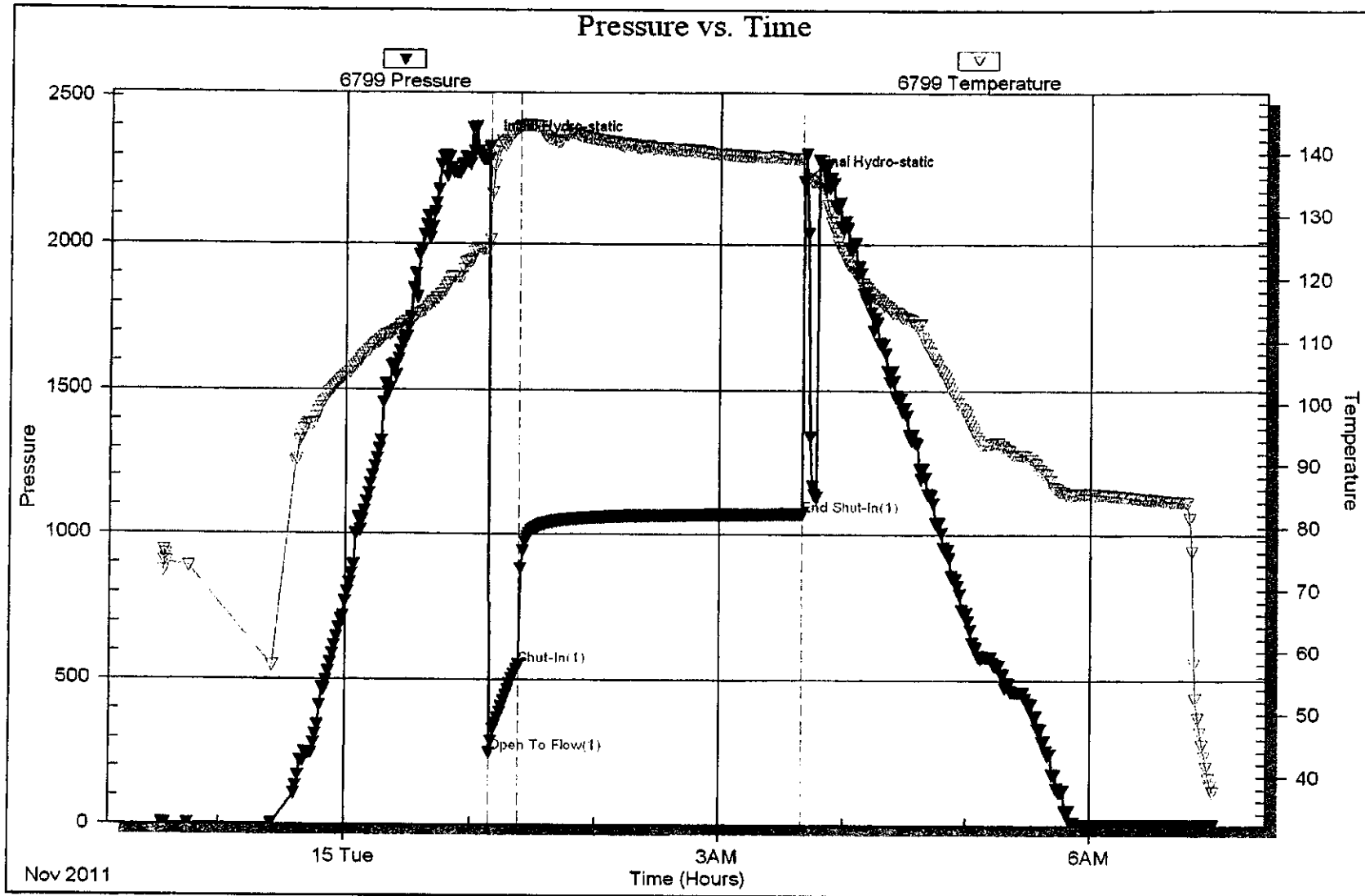
Total Tool Length: 65.00

Serial #: 6799

Inside Great Plains Energy, Inc.

16-6s-36w Thomas,KS

DST Test Number: 5



GEOLOGICAL REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Great Plains Energy, Inc.
 LEASE James #1-16
 FIELD Wildcat
 LOCATION 1700 F5L+450 F6L
 SEC 16 TWSP 65 RGE 36W
 COUNTY Thomas STATE Kansas

ELEVATION
 KB 3379'
 DF 3377'
 GL 3374'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR Martin Drilling Co. Rig #3
 SPUD 11-6-11 COMP 11-16-11
 SAMPLES SAVED FROM 3800' TO R.T.D.

CASING
 Surface 852' @ 370'
 Production none
 ELECTRIC LOGS
 Superior Well Services

FORMATION TOPS AND STRUCTURAL POSITION










FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
				±	±		
Anhydrite	3003	3006 +	329	369	384		
Base Anhydrite	3039	3042 +	337	355	349		
Wabunsee	3803	3805 -	426	430	421		
Tapoka	4048	4050 -	671	672	666		
Heabner	4188	4190 -	811	805	801		
Lansing	4238	4240 -	861	856	849		
Base Kansas City	4488	4492 -	1113	1101	1098		
Pawnee	4602	4605 -	1226	1217	1215		
Musk station	4630	4634 -	1255	1241	1247		
Ft. Scott	4668	4672 -	1293	1275	1284		
Cherokee Shale	4694	4698 -	1319	1307	1306		
Mississippian	4851	4856 -	1477	1459	1450		
Total Depth	4880	4884 -	1505	1467	1639		

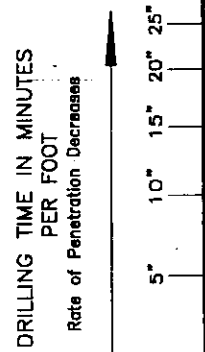
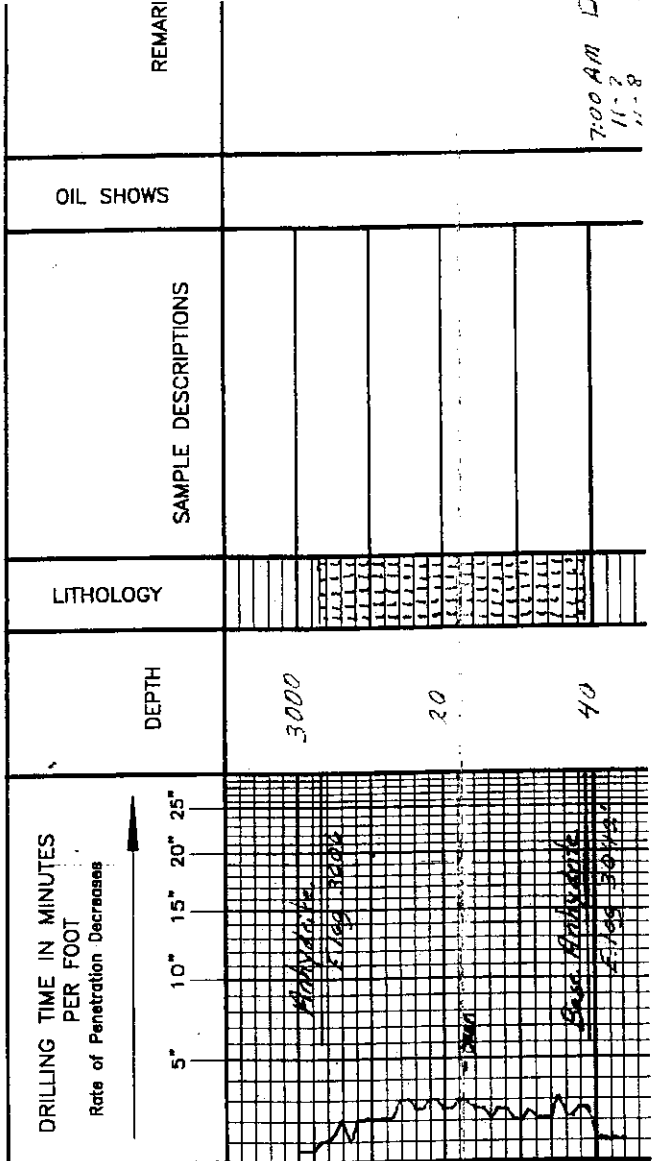
REFERENCE WELLS

- ^A I.D. Drilling, Inc. Robinson C #1, 2020 F6L + 160 F5L Sec. 16-65-36W
- ^B Continental Oil Co, Gary Cooper #1, C NW 1/4 Sec 22-65-36W
- ^C
- ^D

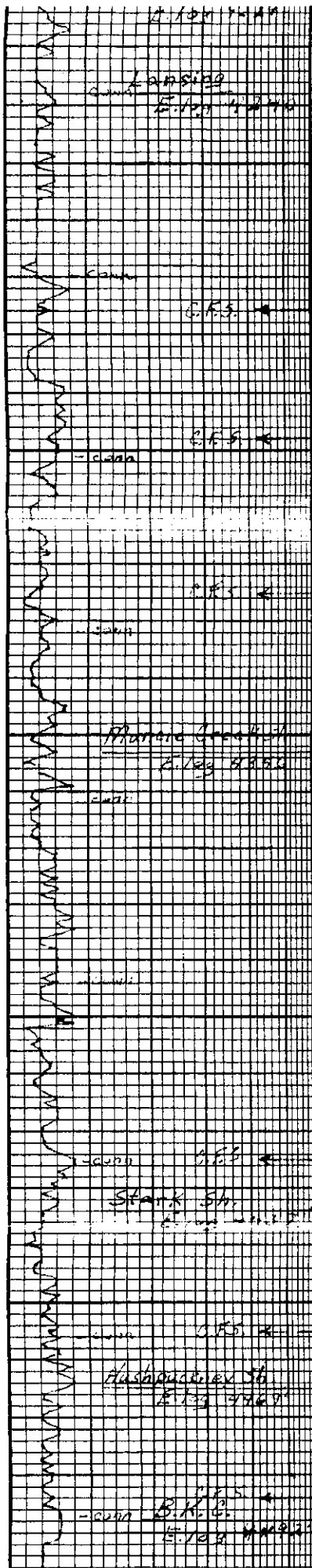
REMARKS
 This well can set 12 feet lower on the Lansing top than the reference well.
 After evaluating samples D.S.T.s and open hole logs, it was decided no further testing was warranted so the well was plugged and abandoned.
 Richard B. Webb
 11-16-11

LEGEND

-  Dolomite
-  Chert
-  Oil Lime
-  Limestone
-  Carb sh
-  Shale
-  Sandstone
-  Salt
-  Anhydrite

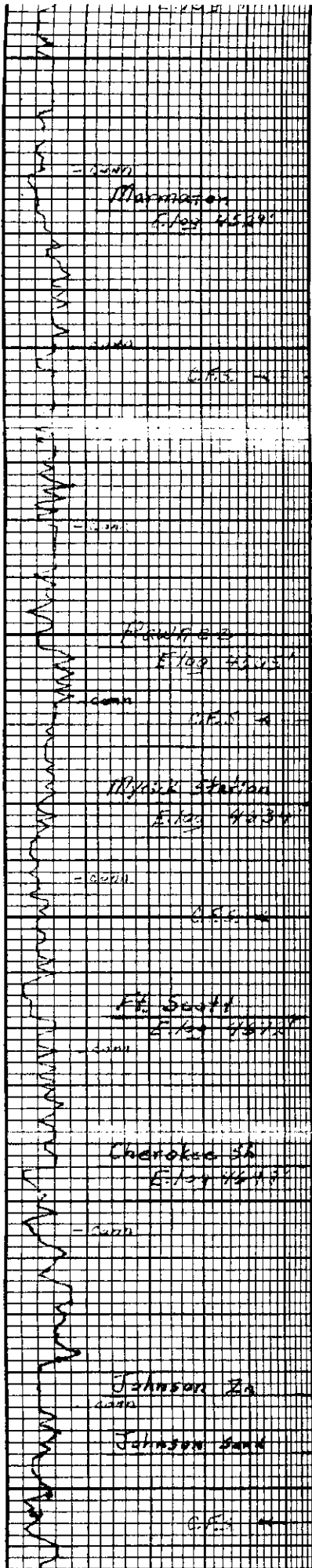


7:00 AM 11-8



100	A	LS. wh. to sat. clay - fin. or. pp. & blk. asph. spks No odor 7Y 5/10-8Y
200	B	Sh. brn. clay
300	C	LS. wh. to sat. clay - imp. blk. asph. spks to sat. No odor 7Y 5/10-8Y
400	D	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
500	E	Sh. brn. clay
600	F	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
700	G	Sh. brn. clay
800	H	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
900	I	Sh. brn. clay
1000	J	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
1100	K	Sh. brn. clay
1200	L	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
1300	M	Sh. brn. clay
1400	N	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
1500	O	Sh. brn. clay
1600	P	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
1700	Q	Sh. brn. clay
1800	R	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
1900	S	Sh. brn. clay
2000	T	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
2100	U	Sh. brn. clay
2200	V	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
2300	W	Sh. brn. clay
2400	X	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y
2500	Y	Sh. brn. clay
2600	Z	LS. wh. to sat. clay - pp. & blk. asph. spks No odor 7Y 5/10-8Y

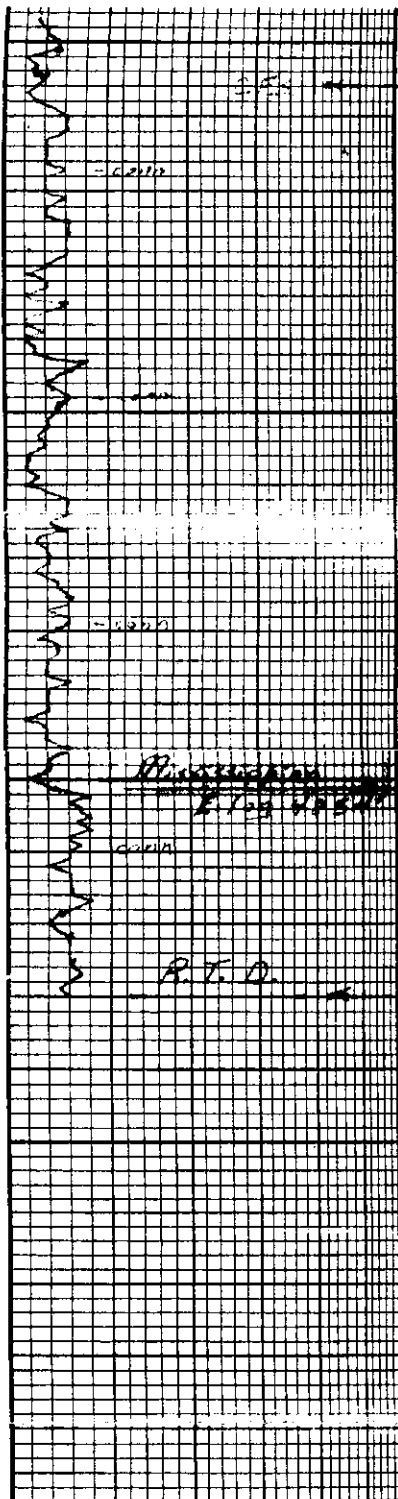
Lansing
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 19000
 19100
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 19600
 19700
 19800
 19900
 20000



2500	2500	15' wh. to tan. gy. fine sh. prop. N. E. Q. No. cut
2400	2400	Shaly, grey
2300	2300	15' grey - 2.5' gy. f. sh. d. N.S.O.
2200	2200	Shaly, grey
2100	2100	15' wh. to yellow clay - f. sh. d. N.S.O.
2000	2000	Shaly, grey
1900	1900	15' wh. to tan. clay
1800	1800	Shaly, grey
1700	1700	15' wh. to tan. clay
1600	1600	Shaly, grey
1500	1500	15' wh. to tan. clay
1400	1400	Shaly, grey
1300	1300	15' wh. to tan. clay
1200	1200	Shaly, grey
1100	1100	15' wh. to tan. clay
1000	1000	Shaly, grey
900	900	15' wh. to tan. clay
800	800	Shaly, grey
700	700	15' wh. to tan. clay
600	600	Shaly, grey
500	500	15' wh. to tan. clay
400	400	Shaly, grey
300	300	15' wh. to tan. clay
200	200	Shaly, grey
100	100	15' wh. to tan. clay
0	0	Shaly, grey

1270 1/2
 1300 1/2
 1350 1/2
 1400 1/2
 1450 1/2
 1500 1/2
 1550 1/2
 1600 1/2
 1650 1/2
 1700 1/2
 1750 1/2
 1800 1/2
 1850 1/2
 1900 1/2
 1950 1/2
 2000 1/2
 2050 1/2
 2100 1/2
 2150 1/2
 2200 1/2
 2250 1/2
 2300 1/2
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 850 1/2
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 600 1/2
 550 1/2
 500 1/2
 450 1/2
 400 1/2
 350 1/2
 300 1/2
 250 1/2
 200 1/2
 150 1/2
 100 1/2
 50 1/2
 0 1/2



5" 10" 15" 20" 25"
 DRILLING TIME Minutes/Foot

Rate of Penetration Decreases

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARK

0-10	fine sandstone with shaly partings
10-20	shaly grey green siltstone
20-30	thin shaly siltstone
30-40	shaly green grey brown silt
40-50	thin shaly siltstone
50-60	shaly green siltstone
60-70	shaly green siltstone
70-80	shaly green siltstone
80-90	shaly green siltstone
90-100	shaly green siltstone
100-110	shaly green siltstone
110-120	shaly green siltstone
120-130	shaly green siltstone
130-140	shaly green siltstone
140-150	shaly green siltstone
150-160	shaly green siltstone
160-170	shaly green siltstone
170-180	shaly green siltstone
180-190	shaly green siltstone
190-200	shaly green siltstone
200-210	shaly green siltstone
210-220	shaly green siltstone
220-230	shaly green siltstone
230-240	shaly green siltstone
240-250	shaly green siltstone
250-260	shaly green siltstone
260-270	shaly green siltstone
270-280	shaly green siltstone
280-290	shaly green siltstone
290-300	shaly green siltstone

1000
 1500
 2000
 2500
 3000
 3500
 4000
 4500
 5000
 5500
 6000
 6500
 7000
 7500
 8000
 8500
 9000
 9500
 10000

1000
 1500
 2000
 2500
 3000
 3500
 4000
 4500
 5000
 5500
 6000
 6500
 7000
 7500
 8000
 8500
 9000
 9500
 10000

CONTRACTOR _____
 LEASE _____ IP _____
 ELEVATION _____ RTD _____

LOCATION _____
 SEC _____ TWP _____ RNG _____
 COUNTY _____ STATE _____

	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS

CONTRACTOR _____

LOCATION _____

LEASE _____ IP _____

SEC _____ TWP _____ RNG _____

ELEVATION _____ RTD _____

COUNTY _____ STATE _____