



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1193039
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

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
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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

1193039

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Great Plains Energy, Inc.
Well Name	Odle 2-8
Doc ID	1193039

All Electric Logs Run

DIL
Sonic
Micro
CD/NL

Form	ACO1 - Well Completion
Operator	Great Plains Energy, Inc.
Well Name	Odle 2-8
Doc ID	1193039

Tops

Name	Top	Datum
Anhydrite	1416	528
Base	1446	498
Topeka	2900	-956
Oread	3052	-1108
Heebner	3104	-1160
Lansing	3144	-1200
BKC	3370	-1426
Arbuckle	3470	-1526

SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1068

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS - Horie, KS

DATE <u>7-19-13</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <u>2:00pm</u>	JOB FINISH <u>3:00pm</u>
LEASE <u>016</u>	WELL #. <u>2-8</u>	LOCATION				COUNTY <u>MOORE</u>	STATE <u>KS</u>
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR W W Drilling

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D.

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Ward

01 HELPER Andy

BULK TRUCK

01 DRIVER Jay

BULK TRUCK

DRIVER

OWNER

CEMENT AMOUNT ORDERED 255 x 60/40 4 1/2 gal

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

1st plug @ 3450 = 505x

2nd plug @ 1430 = 255x

3rd plug @ 815 = 1005x

4th plug @ 270 = 405x

w.p.p plug and 105x 305x RH

CHARGE TO: Great Plains

STREET

CITY STATE ZIP

Schippers Oil Field Services, L.L.C.,
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 Jason Rickerson

SIGNATURE JR

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

Dry hole plug @

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

SCHIPPER'S OIL FIELD SERVICES, L.L.C.

1064

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS - Horizon

DATE <u>7-11-13</u>	SEC. <u>8</u>	TWP. <u>7</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00pm</u>	JOB FINISH <u>6:30pm</u>
LEASE <u>odlc</u>	WELL #. <u>2-8</u>	LOCATION				COUNTY <u>harris</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR W.W. Drilling

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. _____

CASING SIZE 8 5/8 DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS _____

DISPLACEMENT 12.5 bbl

EQUIPMENT _____

PUMP TRUCK # A1 CEMENTER Heath

BULK TRUCK # B1 HELPER Coody

BULK TRUCK # _____ DRIVER Jay

BULK TRUCK # _____ DRIVER _____

OWNER _____

CEMENT AMOUNT ORDERED 150sv com 3%cc

296 gal

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

Ran 5 150 sv of 8 5/8 casing and
landing it

EST circulation

Mixed 150 sv and disp 12.5 bbl of
H2O shut in @ 300psi

Cement did circulate!

CHARGE TO: Great Plains

STREET _____

CITY _____ STATE _____ ZIP _____

Schippers Oil Field Services, L.L.C.,
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 Jason Riden

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

GEOLOGICAL REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Great Plains Energy, Inc.
 LEASE Odle 2-8
 FIELD Wildcat
 LOCATION SE SW SW (335 ft FSL, 1100 ft FWL)
 SEC 8 TWSP 7S RGE 18W
 COUNTY Rooks STATE Kansas

ELEVATION
 KB 1944 feet
 DF _____
 GL 1939 feet
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR WW Drilling Rig No. 6
 SPUD 11 July 2013 COMP 18 July 2013
 SAMPLES SAVED FROM 2800 TO TD (3515)

CASING
 Surface 8 5/8" to 2 1/8 feet
 Production _____
 ELECTRIC LOGS
 CND-DIL-MRES-BHGS by
 Pioneer Logging Services

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
Anhydrite	1416	1416	528	+521	+519		
Base / Anhydrite	1440	1446	498	+408	+487		
Topoka	2901	2900	-956	-954	-968		
Oread	3049	3052	-1108	-1104	-1117		
Heebner	3106	3104	-1160	-1157	-1174		
Lansing	3146	3144	-1200	-1196	-1214		
Base / Kansas City	3375	3370	-1426	-1414	-1437		
Penn Conglomerate	3460	3442	-1498	Als.	-1517		
Arbuckle	3478	3470	-1526	-1506	-1553		
RTD	3515		-1571				

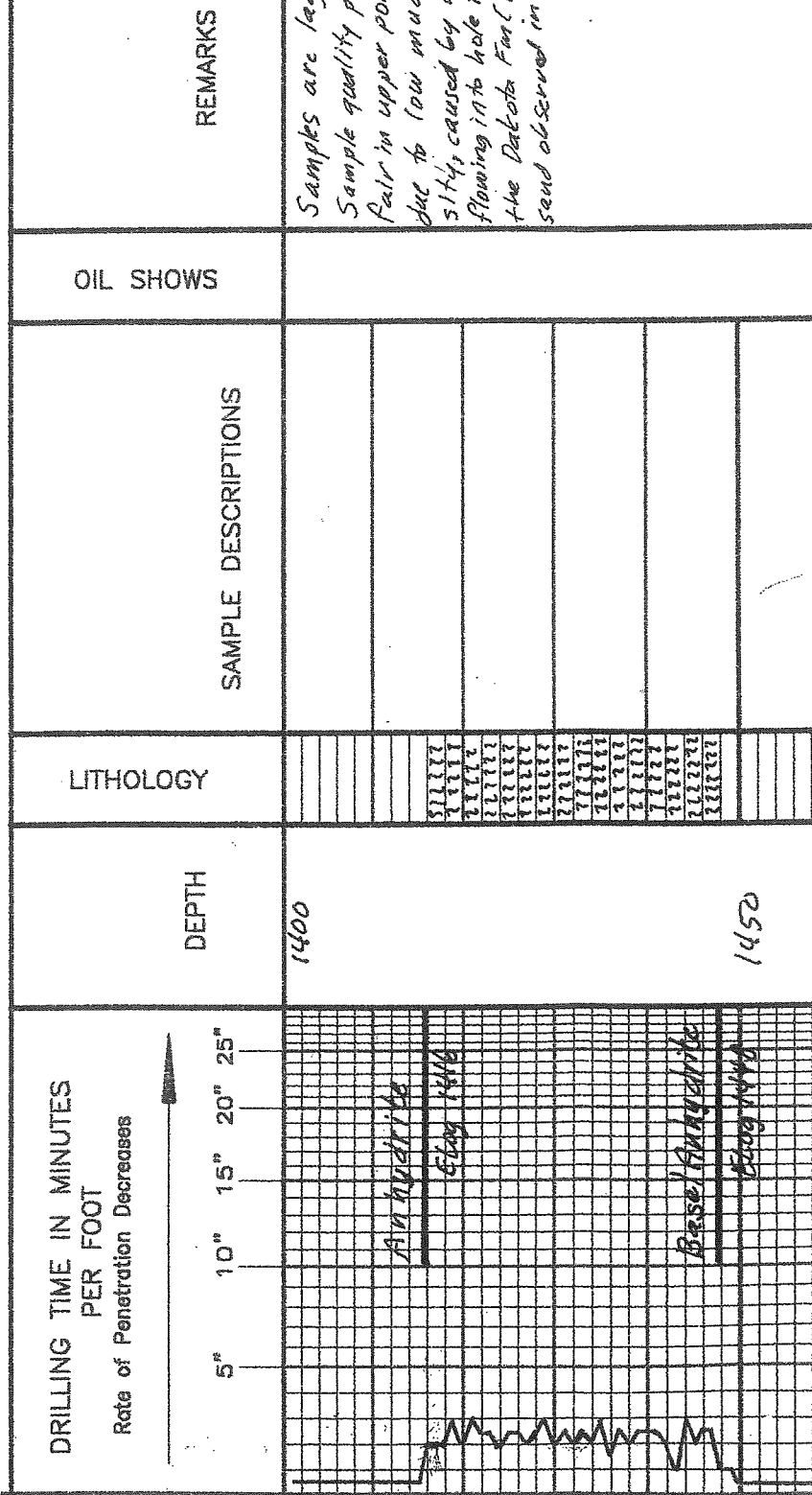
REFERENCE WELLS

- A Great Plains Energy / Odle 1-8 (SW SE SW, Sec 8, T7S, R18W)
- B N-B Co. & ESP Development / Bryant #1 (NW SW NE, Sec 17, T7S, R18W)
- C _____
- D _____

REMARKS Plugged & abandoned.

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool. Lime
- Chert
- Dolomite



REMARKS
 Samples are lag.
 Sample quality poor
 Fair in upper part
 due to low mud
 slugs caused by
 flowing in to hole from
 the Dakota Fm (L)
 sand observed in s

2800

2850

2900

2950

3000

LS, tan. g. wt, v. mgn wst, dns, z,
sparse- occ fsl, p, tr glauc, becomes
g. bn, m. c. pst w/ ls powdered
fragr. common, fsl, v. p. v. 46.
NSO

STs, rdsh gfg

LS, as above w/ some mst.
tr. w'g; becomes l. g. bn. tan,
f. m. gn mst f mst, dns, t.
sparse fsl, occ glauc.

Dec sky, some r. org w'g

SH, dg ggn

LS, wt. g. bn. crm, f. mgn, mst.
mst, fsl, dns, t, NSO.

Tr col'c LS

Dec. tan mst

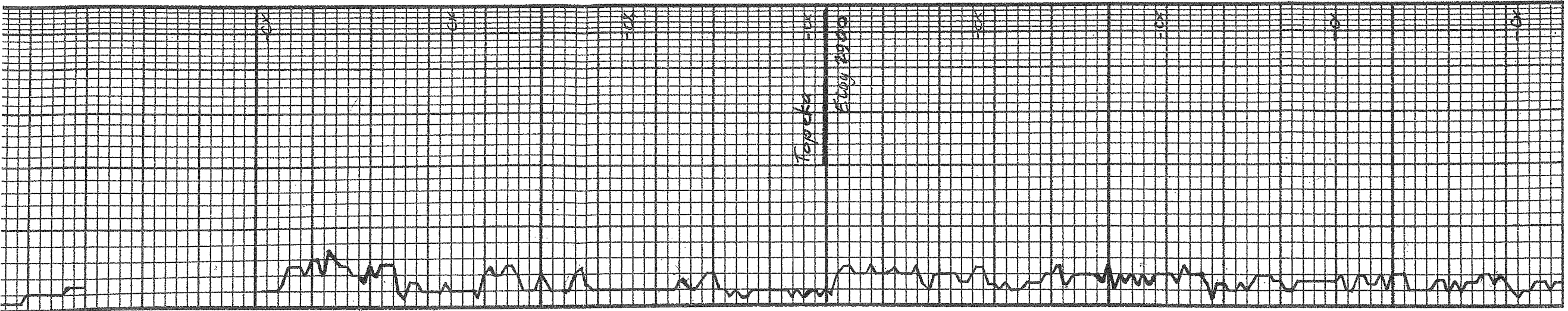
SH, r. bn g. dg. blk

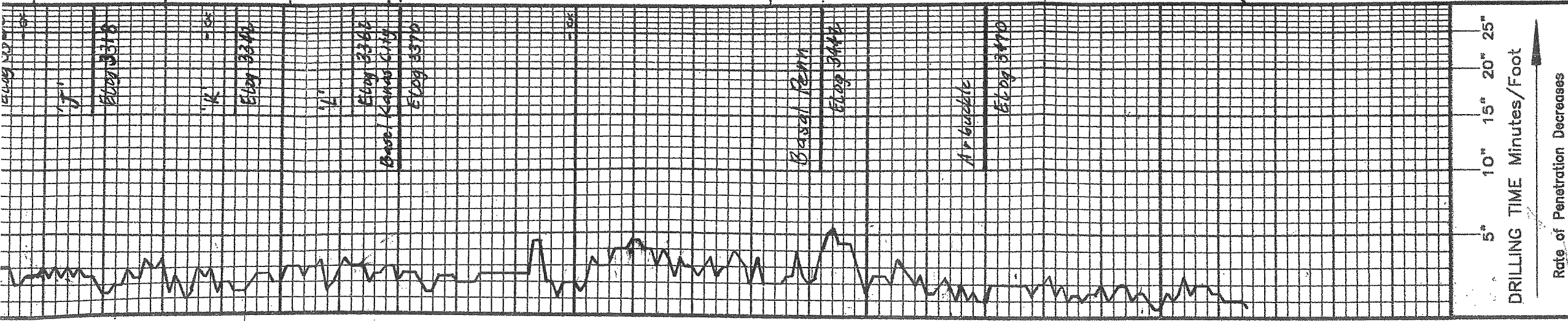
LS & SH interbedded; LS is dg, f. c
g. mst, dns, t, fsl, glauc; SH is
r. bn g. dg. NSO

SH, dg. blk. blk

carbonaceous.

Inter bedded LS & SH w/ some STS
LS is. AA, becoming tan-ly
m. c. gn, mst. f. m. gn, fsl,
dns, t, NSO.
SH is dg. gn, carbonaceous @ base



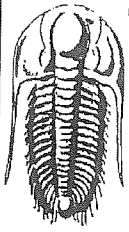


DEPTH
3350
3400
3450
3500

LITHOLOGY	SAMPLE DESCRIPTIONS
SH, AA	occ clay, v pr vgy sh, v pr show spnd bn oil
LS, crm, f-m gn, sub-w rd, w ccml w/p lbr sh, glauc.	LS, crm, f-m gn, sub-w rd, w ccml w/p lbr sh, glauc.
LS, crm, f-m gn, wst, dmsit w sparse ool'c gst, vpr lgr sh, vpr sply bn oil	LS, crm, f-m gn, wst, dmsit w sparse ool'c gst, vpr lgr sh, vpr sply bn oil
SH, g. rbn. ggn	SH, g. rbn. ggn
SH, variegated	SH, variegated
LS, crm, f-m gn, wst, dmsit, occ wix'd NSD	LS, crm, f-m gn, wst, dmsit, occ wix'd NSD
SH, variegated, w/minor LS, w m-c gn pst, ct wt-org strand	SH, variegated, w/minor LS, w m-c gn pst, ct wt-org strand
Dol, wt-lgr, f-m gn, griv, dch, xls, dms, t, tr lgr sh, NSD	Dol, wt-lgr, f-m gn, griv, dch, xls, dms, t, tr lgr sh, NSD

OIL SHOWS	REMARKS
	Ar buckle hep @ 34
	@ 3515 ft. Mud wt 9. Visc. 48, WL 0.0, 1

30-60-45-90
 Hyd: 1594-1542
 IFF: 23-34 FSIP: 9
 FFP: 20-37 FSIP: 9
 IF: Surface blow
 IS: No blow
 FF: No blow
 FSI: No blow
 Recovery: 15 ft OCM (30% O, 70%)
 Mud Tests:
 @ 3240 ft: Mud Wt: Visc: 6, WL: 2, LCM: 2
 @ 3310 ft: Mud Wt: Visc: 5, LCM: 2
 @ 3330 ft: Mud Wt: Visc: 47, WL: 72, LCM: 24
 DST No. 6: 3554-5, 30-60-30-50
 Hyd: 160-1580
 IFF: 21-23 FSIP: 70
 FFP: 21-23 FSIP: 58
 IF: No blow
 IS: No blow
 FF: No blow
 FSI: No blow
 Recovery: 2 ft OCM (2% O, 98%)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy Inc

8 7s 18w Rooks

6121 S 58th St Ste B
Lincoln NE 68516

Odle # 2-8

Job Ticket: 54316

DST#: 1

ATTN: Mike Madchan

Test Start: 2013.07.14 @ 14:42:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: 1936.00 ft (KB)

Time Tool Opened: 16:13:50

Time Test Ended: 20:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 41

Interval: 3060.00 ft (KB) To 3080.00 ft (KB) (TVD)

Total Depth: 3080.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1936.00 ft (KB)

1931.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: 342.10 psig @ 3062.00 ft (KB)

Start Date: 2013.07.14

End Date:

2013.07.14

Start Time: 14:42:01

End Time:

20:22:00

Capacity: 8000.00 psig

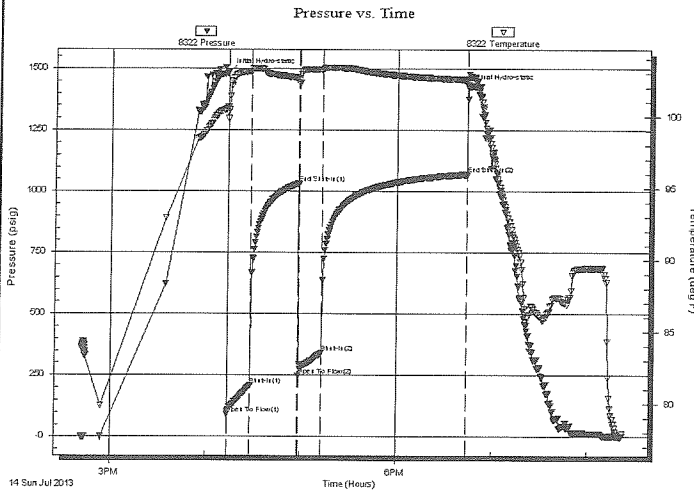
Last Calib.: 2013.07.14

Time On Btm: 2013.07.14 @ 16:13:30

Time Off Btm: 2013.07.14 @ 18:44:00

TEST COMMENT: 15-IFP- BOB in 2min. 50sec.
30-ISIP- No Blow
15-FFP- BOB in 3min. 10sec.
90-FSIP- No Blow

PRESSURE SUMMARY



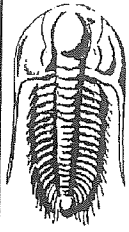
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1484.51	100.66	Initial Hydro-static
1	91.90	100.30	Open To Flow (1)
15	209.55	103.16	Shut-In(1)
45	1031.91	102.68	End Shut-In(1)
45	248.06	102.27	Open To Flow (2)
60	342.10	103.26	Shut-In(2)
150	1069.46	102.57	End Shut-In(2)
151	1423.56	102.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	MCW 5% m 95% w	4.99
134.00	MCW 20% m 80% w	1.88

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

8 7s 18w Rooks

6121 S 58th St Ste B
Lincoln NE 68516

Odle # 2-8

Job Ticket: 54316

DST#: 1

ATTN: Mike Madchan

Test Start: 2013.07.14 @ 14:42:00

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: 100000 ppm

Viscosity: 41.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
434.00	MCW 5%m 95%w	4.995
134.00	MCW 20%m 80%w	1.880

Total Length: 568.00 ft Total Volume: 6.875 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

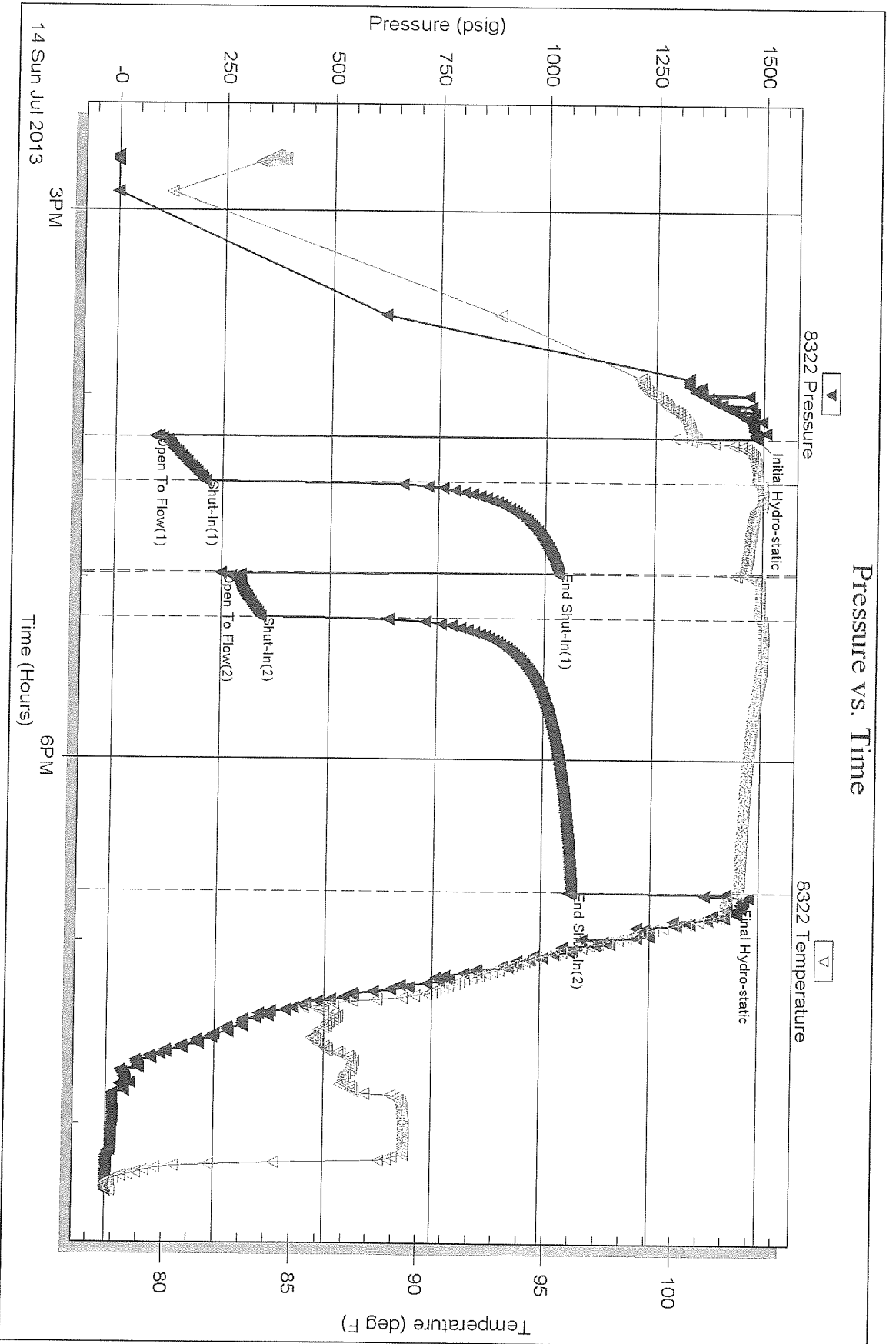
Recovery Comments: .070 @ 80

Serial #: 8322

Outside Great Plains Energy Inc

Odle # 2-8

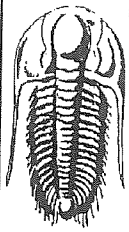
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54316

Printed: 2013.07.14 @ 22:57:59



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy Inc

8 7s 18w Rooks

6121 S 58th St Ste B
Lincoln NE 68516

Odle # 2-8

Job Ticket: 54317

DST#: 2

ATTN: Mike Madchan

Test Start: 2013.07.15 @ 09:29:00

GENERAL INFORMATION:

Formation: LKC " A - C "

Deviated: No Whipstock: 1936.00 ft (KB)

Time Tool Opened: 10:59:00

Time Test Ended: 17:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3138.00 ft (KB) To 3195.00 ft (KB) (TVD)

Total Depth: 3195.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1936.00 ft (KB)

1931.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: 117.89 psig @ 3139.00 ft (KB)

Start Date: 2013.07.15

End Date: 2013.07.15

Capacity: 8000.00 psig

Last Calib.: 2013.07.15

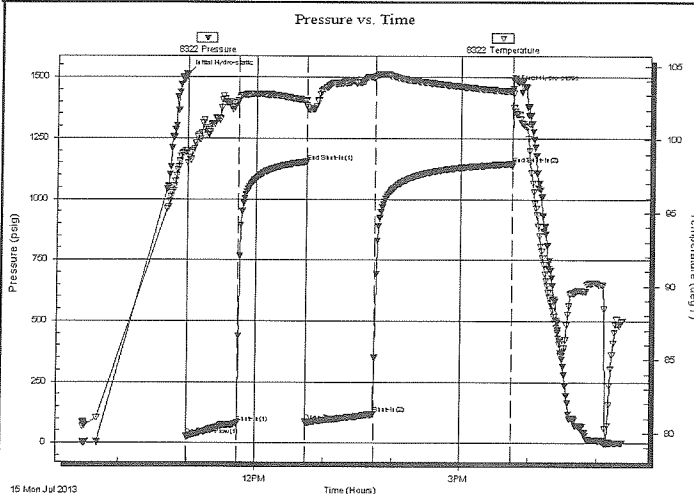
Start Time: 09:29:01

End Time: 17:22:40

Time On Btm: 2013.07.15 @ 10:58:50

Time Off Btm: 2013.07.15 @ 15:45:20

TEST COMMENT: 45-IFP- Very Weak Surface Blow For 25 min. Surging to 5 1/2 in.
60-ISIP- No Blow
60-FFP- Surface Blow in 4 min. Building to 6 1/2 min.
120-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1513.04	99.25	Initial Hydro-static
1	28.44	98.41	Open To Flow (1)
46	81.20	102.63	Shut-In(1)
106	1153.44	102.65	End Shut-In(1)
106	86.25	102.32	Open To Flow (2)
166	117.89	104.24	Shut-In(2)
286	1145.34	103.28	End Shut-In(2)
287	1452.51	103.12	Final Hydro-static

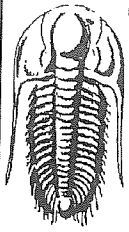
Recovery

Length (ft)	Description	Volume (bbl)
200.00	MCW 15% m 85% w	1.71

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

8 7s 18w Rooks

6121 S 58th St Ste B
Lincoln NE 68516

Odle # 2-8

Job Ticket: 54317

DST#: 2

ATTN: Mike Madchan

Test Start: 2013.07.15 @ 09:29:00

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:

90000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
200.00	MCW 15% m 85% w	1.712

Total Length: 200.00 ft

Total Volume: 1.712 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

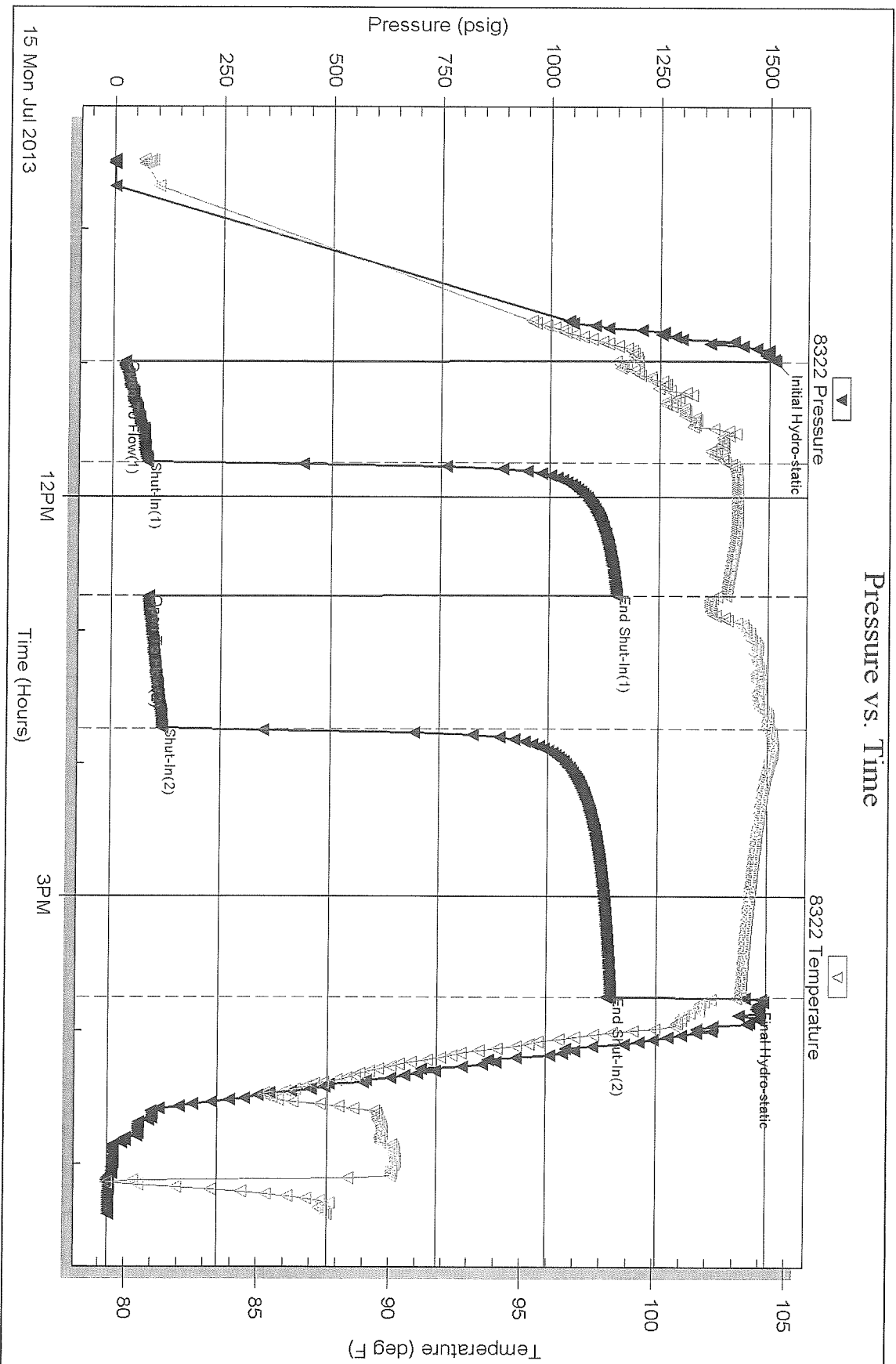
Recovery Comments: .072 @ 87

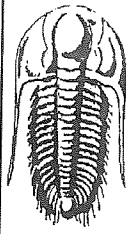
Serial #: 8322

Outside Great Plains Energy Inc

Odle # 2-8

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy Inc
6121 S 58th St Ste B
Lincoln NE 68516
ATTN: Mike Madchan

8 7s 18w Rooks
Odle # 2-8
Job Ticket: 54318 **DST#: 3**
Test Start: 2013.07.15 @ 23:03:00

GENERAL INFORMATION:

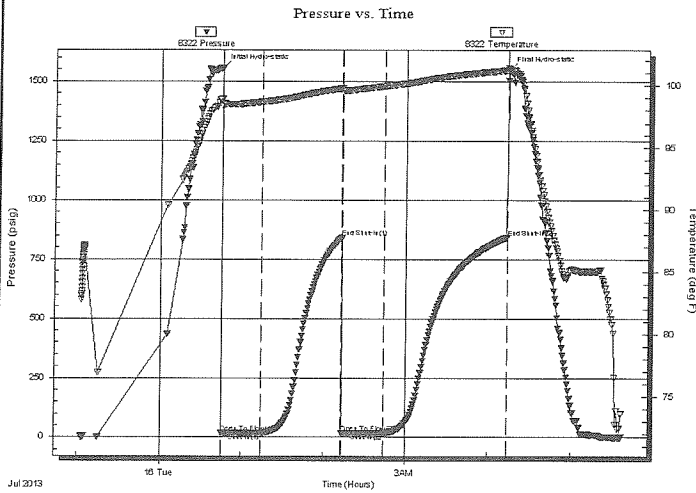
Formation: **LKC " E "**
Deviated: **No** Whipstock: **1936.00 ft (KB)**
Time Tool Opened: **00:45:20**
Time Test Ended: **05:37:00**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Jim Svaty**
Unit No: **41**
Interval: **3216.00 ft (KB) To 3227.00 ft (KB) (TVD)**
Reference Elevations: **1936.00 ft (KB)**
Total Depth: **3227.00 ft (KB) (TVD)**
1931.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
KB to GR/CF: **5.00 ft**

Serial #: 8322

Outside

Press@RunDepth: **17.55 psig @ 3217.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2013.07.15** End Date: **2013.07.16** Last Calib.: **2013.07.16**
Start Time: **23:03:01** End Time: **05:36:40** Time On Btm: **2013.07.16 @ 00:45:10**
Time Off Btm: **2013.07.16 @ 04:14:10**

TEST COMMENT: 30-IFP- Very Weak Surface Blow
60-ISIP- No Blow
30-FFP- No Blow
90-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1556.53	98.93	Initial Hydro-static
1	17.48	98.35	Open To Flow (1)
29	17.36	98.69	Shut-In(1)
88	841.78	99.79	End Shut-In(1)
89	18.58	99.41	Open To Flow (2)
119	17.55	99.97	Shut-In(2)
209	842.59	101.25	End Shut-In(2)
209	1545.95	101.41	Final Hydro-static

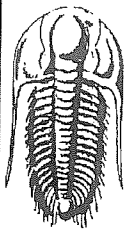
Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

8 7s 18w Rooks

6121 S 58th St Ste B
Lincoln NE 68516

Odle # 2-8

Job Ticket: 54318

DST#: 3

ATTN: Mike Madchan

Test Start: 2013.07.15 @ 23:03:00

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

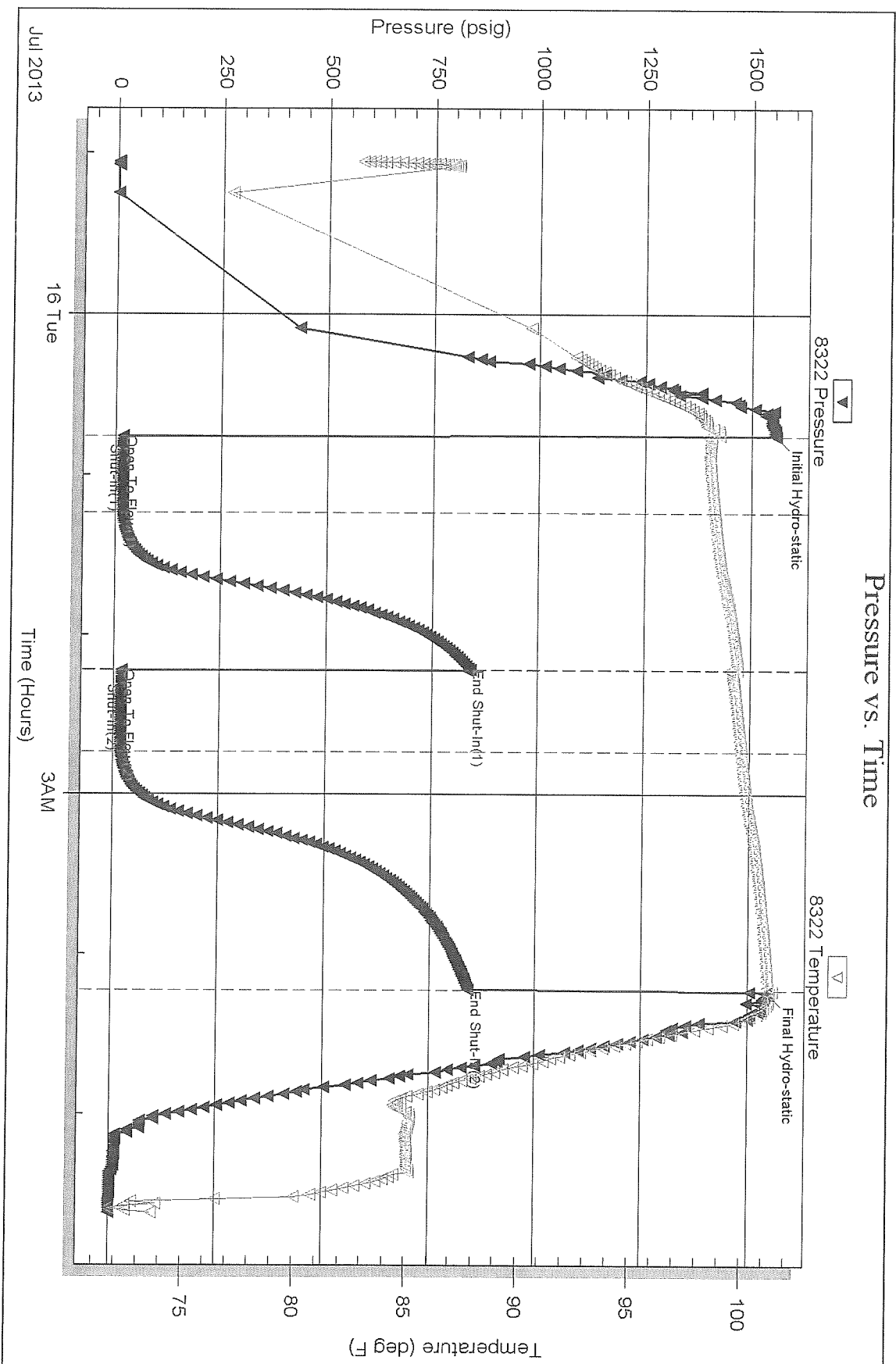
Recovery Comments:

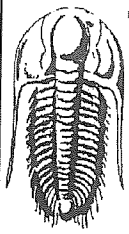
Serial #: 8322

Outside Great Plains Energy Inc

Odle # 2-8

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy Inc
6121 S 58th St Ste B
Lincoln NE 68516
ATTN: Mike Madcharo

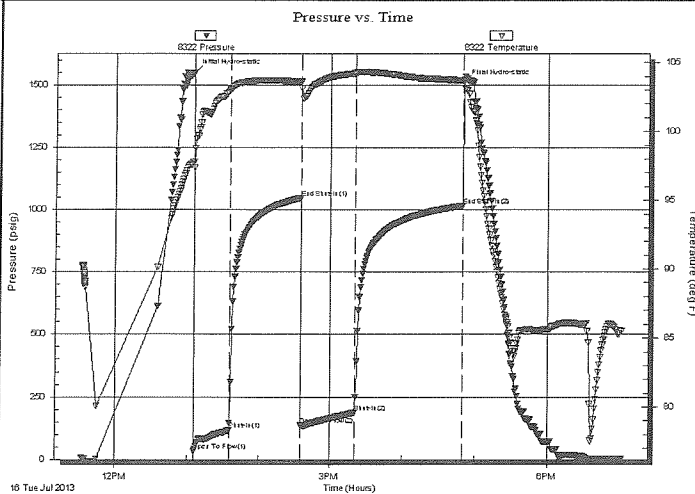
8 7s 18w Rooks
Odle # 2-8
Job Ticket: 54319 DST#: 4
Test Start: 2013.07.16 @ 11:33:00

GENERAL INFORMATION:

Formation: LKC " E - G "
Deviated: No Whipstock: 1936.00 ft (KB)
Time Tool Opened: 13:05:40
Time Test Ended: 19:02:00
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 41
Interval: 3214.00 ft (KB) To 3240.00 ft (KB) (TVD)
Reference Elevations: 1936.00 ft (KB)
Total Depth: 3240.00 ft (KB) (TVD) 1931.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8322 **Outside**
Press@RunDepth: 186.44 psig @ 3215.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.16 End Date: 2013.07.16 Last Calib.: 2013.07.16
Start Time: 11:33:01 End Time: 19:01:50 Time On Btm: 2013.07.16 @ 13:05:20
Time Off Btm: 2013.07.16 @ 16:50:40

TEST COMMENT: 30-IFP- BOB in 8 min. 45 sec.
60-ISIP- Surface Blow in 2 1/2 min. Building to 2 in. in 32 min.
45-FFP- BOB in 17 min.
90-FSIP- Surface Blow in 2 min. Building to 2 1/2 in. in 39 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.22	97.80	Initial Hydro-static
1	32.21	97.35	Open To Flow (1)
30	117.00	103.01	Shut-In(1)
90	1047.04	103.59	End Shut-In(1)
91	136.07	103.12	Open To Flow (2)
135	186.44	104.23	Shut-In(2)
225	1016.48	103.67	End Shut-In(2)
226	1508.43	103.76	Final Hydro-static

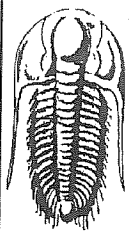
Recovery

Length (ft)	Description	Volume (bbl)
176.00	OMCW 3%o 7%m 90%w	1.38
62.00	OMCW 5%o 30%m 65%w	0.87
62.00	OWCM 15%o 35%w 50%m	0.87
93.00	CO 100%	1.30
0.00	222 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

8 7s 18w Rooks

6121 S 58th St Ste B
Lincoln NE 68516

Odle # 2-8

ATTN: Mike Madcharo

Job Ticket: 54319

DST#: 4

Test Start: 2013.07.16 @ 11:33:00

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: 95000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.80 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2600.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
176.00	OMCW 3%o 7%m 90%w	1.376
62.00	OMCW 5%o 30%m 65%w	0.870
62.00	OWCM 15%o 35%w 50%m	0.870
93.00	CO 100%	1.305
0.00	222 GIP	0.000

Total Length: 393.00 ft Total Volume: 4.421 bbl

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

Laboratory Name: Laboratory Location:

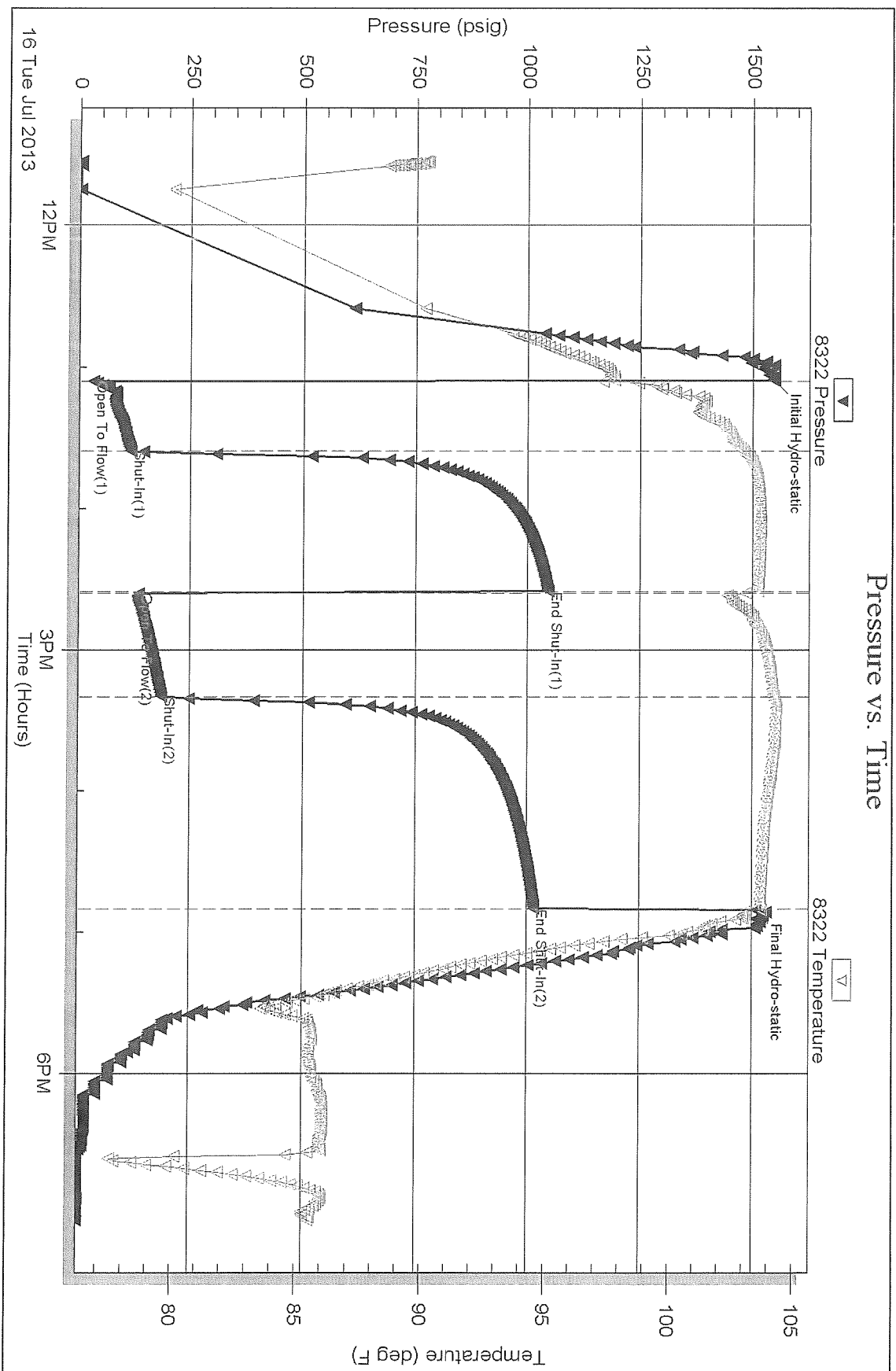
Recovery Comments: .070 @ 83

Serial #: 8322

Outside Great Plains Energy Inc

Odle #2-8

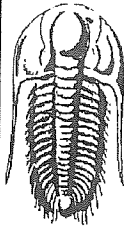
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 54319

Printed: 2013.07.17 @ 07:41:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy Inc

8 7s 18w Rooks

6121 S 58th St Ste B
Lincoln NE 68516

Odle # 2-8

Job Ticket: 54320

DST#: 5

ATTN: Mike Madcharo

Test Start: 2013.07.17 @ 04:46:00

GENERAL INFORMATION:

Formation: LKC " I & J "

Deviated: No Whipstock: 1936.00 ft (KB)

Time Tool Opened: 06:32:30

Time Test Ended: 11:35:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3297.00 ft (KB) To 3330.00 ft (KB) (TVD)

Total Depth: 3330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1936.00 ft (KB)

1931.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: 37.03 psig @ 3298.00 ft (KB)

Start Date: 2013.07.17

End Date: 2013.07.17

Start Time: 04:46:01

End Time: 11:34:50

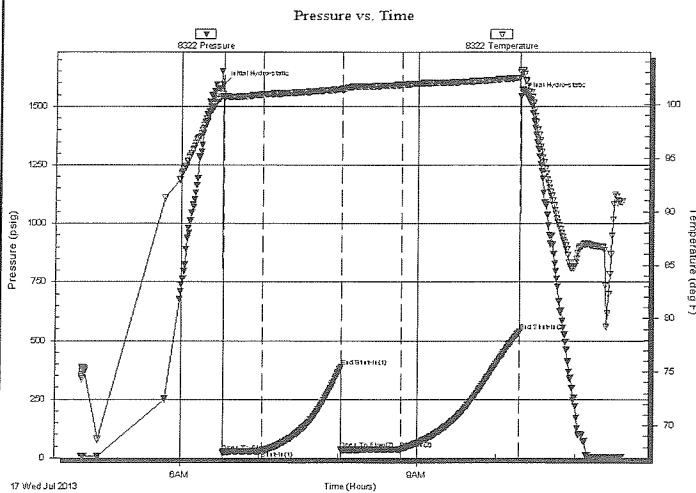
Capacity: 8000.00 psig

Last Calib.: 2013.07.17

Time On Btm: 2013.07.17 @ 06:32:10

Time Off Btm: 2013.07.17 @ 10:17:40

TEST COMMENT: 30-IFP- Surface Blow
60-ISIP- No Blow
45-FFP- No Blow
90-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.85	101.00	Initial Hydro-static
1	23.47	100.56	Open To Flow (1)
31	30.48	100.95	Shut-In(1)
90	386.72	101.45	End Shut-In(1)
91	34.73	101.34	Open To Flow (2)
136	37.03	101.85	Shut-In(2)
226	539.31	102.51	End Shut-In(2)
226	1542.85	103.04	Final Hydro-static

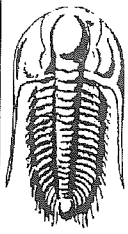
Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 30%o 70%m	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy Inc

8 7s 18w Rooks

6121 S 58th St Ste B
Lincoln NE 68516

Odle # 2-8

Job Ticket: 54320

DST#: 5

ATTN: Mike Madcharo

Test Start: 2013.07.17 @ 04:46:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 30%o 70%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8322

Outside Great Plains Energy Inc

Odle #2-8

DST Test Number: 5

