



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



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

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

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

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

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				

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	Great Plains Energy, Inc.
Well Name	Lazy L Ranch 1-29
Doc ID	1154615

Tops

Name	Top	Datum
Anhydrite	1898	+433
Topeka	3150	-819
Heebner	3327	-994
Toronto	3356	-1025
Lansing	3366	-1035
BKC	3538	-1207
Arbuckle	3584	-1253
Granite	3610	-1279

ALLIED OIL & GAS SERVICES, LLC 060183

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Okley

DATE <u>3-15-13</u>	SEC <u>29</u>	TWP <u>2</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30 Pm</u>	JOB FINISH <u>10:00 Pm</u>
LEASE <u>Lazy L Ranch</u>	WELL# <u>1-29</u>	LOCATION <u>Norton 2w-1N-14w Ninto</u>			COUNTY <u>Norton</u>	STATE <u>Ks.</u>	
OLD OR NEW (Circle one)							

CONTRACTOR WW-6

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 218'

CASING SIZE 8 5/8 DEPTH 222.88'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13.30

EQUIPMENT

OWNER Same

CEMENT

AMOUNT ORDERED 165 SKS Com 3% CC

2% Gel

COMMON 165 SKS @ 17.92 \$2953.50

POZMIX @

GEL 3 SKS @ 23.70 \$70.20

CHLORIDE 6 SKS @ 64.00 \$384.00

ASC @

HANDLING 178.42 25 x @ 2.48 \$442.48

MILEAGE 8.14 x 70 x \$2.62 \$1481.48

TOTAL \$5331.66

PUMP TRUCK CEMENTER Bluen Kocotte

422 HELPER Tyler Flipse

BULK TRUCK

404 DRIVER Kevin Ryan

BULK TRUCK

DRIVER

REMARKS:

mix Cement

Displace with water

Cement Dig Circulate

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE \$1512.25

EXTRA FOOTAGE @

MILEAGE 70 @ 7.70 \$539.00

MANIFOLD Swadge @ 275.00

LV mileage @ 4.40 \$308.00

TOTAL \$2634.25

CHARGE TO: Great Plains Energy

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

To: Allied Oil & Gas Services, 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.

SALES TAX (If Any)

TOTAL CHARGES 7,965.91

DISCOUNT 1,593.18 IF PAID IN 30 DAYS

PRINTED NAME Jason Richardson

SIGNATURE [Signature]

6,372.72 Net.

ALLIED OIL & GAS SERVICES, LLC 060075

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Dakota, KS

DATE <u>3-22-13</u>	SEC. <u>29</u>	TWP. <u>2</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION <u>2:00am</u>	JOB START <u>5:30am</u>	JOB FINISH <u>6:30am</u>
LEASE <u>Lazy Ranch</u>	WELL# <u>1-27</u>	LOCATION <u>Norton #2 W, 1N, Y4 W</u>		COUNTY <u>Norton</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>Unit</u>			

CONTRACTOR WJWG

TYPE OF JOB PTA

HOLE SIZE 7 7/8" T.D. 3660'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2" DEPTH 3660'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 44.94 bbl

EQUIPMENT _____

OWNER Same

CEMENT AMOUNT ORDERED 255 sks 60/40 49 gal
Y4 # flo-seal

COMMON	<u>15.350 @ 17.90</u>	<u>273.870</u>
POZMIX	<u>10.250 @ 9.35</u>	<u>95.825</u>
GEL	<u>9.500 @ 23.40</u>	<u>212.610</u>
CHLORIDE	@	
ASC	@	
<u>Flaseal</u>	<u>64 # @ 2.97</u>	<u>190.08</u>
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>273.87 ft³ @ 2.48</u>	<u>679.20</u>
MILEAGE	<u>11.44 max 20 x 2.60</u>	<u>298.20</u>
		TOTAL <u>6854.36</u>

PUMP TRUCK CEMENTER LaRue & Wanta

423/281 HELPER Paul Beaver

BULK TRUCK # 376/306 DRIVER David Scario

BULK TRUCK # _____ DRIVER _____

REMARKS:

Mix 50 sks cement 3660'

Mix 25 sks cement 1915'

Mix 100 sks cement 1230'

Mix 40 sks cement 262'

Mix 10 sks cement w/ plug 40'

Plug R.t - 30 sks cement

Thank you

CHARGE TO: Great Plains Energy

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 3660'

PUMP TRUCK CHARGE _____ 2600.47

EXTRA FOOTAGE @ _____

MILEAGE MTHO 70 @ 7.70 539.00

MANIFOLD @ _____

MILU 70 @ 4.80 336.00

@ _____

TOTAL 3447.47

PLUG & FLOAT EQUIPMENT

wooden plug @ 107.64

@ _____

@ _____

@ _____

@ _____

TOTAL 107.64

To: Allied Oil & Gas Services, 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 Jason Robinson

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 10409.47

DISCOUNT 2,914.65 IF PAID IN 30 DAYS

7,494.81 Net.

AUSTIN B. KLAUS

Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

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

Well Name: Lazy L Ranch #1-29
Location: Norton County
License Number: API #15-137-20639
Spud Date: 3/15/2013
Surface Coordinates: Township 2 South - Range 23 West - Section 29
1,620' FSL & 2,290' FEL
Bottom Hole: Vertical well with minimal deviation, same as above
Coordinates: K.B. Elevation (ft): 2,331'
Ground Elevation (ft): 2,326' To: RTD Total Depth (ft): 3,660'
Logged Interval (ft): 3,100'
Formation: Topoka-Arbuckle
Type of Drilling Fluid: Chemical (Morgan Mud, Inc.)
Region: Kansas
Drilling Completed: 3/21/2013
Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Great Plains Energy, LLC
Address: 6121 S. 58th St.
Suite B
Lincoln, NE 68516

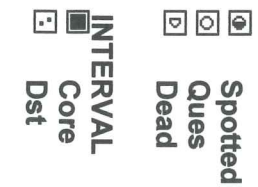
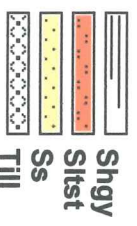
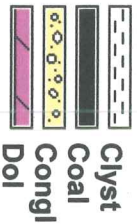
GEOLOGIST

Name: Austin Klaus
Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

Comments

The Lazy L Ranch #1-29 well was drilled by WW Drilling Rig #6 (Tool Pusher: Jason Richeson).

The location for the Lazy L Ranch #1-29 well was found via 3-D seismic survey. Based on the results of the drill stem tests that were conducted and samples and wireline logs that were evaluated, the decision was made to plug and abandon the Lazy L Ranch #1-29 on 3/22/13.



OTHER SYMBOLS

Curve Track 1

ROP (min/ft)

Gas (units)

Gas (units)

Depth

Lithology

Oil Shows

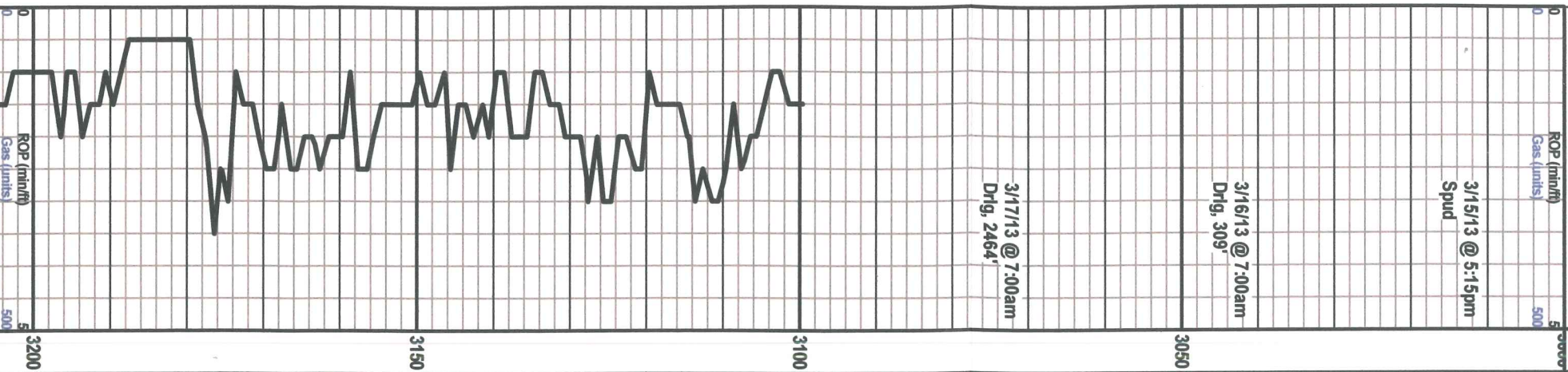
Geological Descriptions

Drill Stem Tests

3/15/13 @ 5:15pm Spud

3/16/13 @ 7:00am Dtg, 309'

3/17/13 @ 7:00am Dtg, 2464'



The open-hole logging was performed by Mr. Ian Mabb with Nabors Completion and Production Services Co. (Hays, KS). Logs included: Compensated Density/Compensated Neutron, Dual Induction, and Micro Resistivity.

Mud Engineer: Dave Lines
Tester: Chuck Kreutzer

Formation Log Tops:

Formation	Depth	Datum
Anhydrite	1898	433
Topeka	3150	-819
Heebner	3327	-994
Toronto	3356	-1025
Lansing	3366	-1035
BKC	3538	-1207
Arbuckle	3584	-1253
Granite	3610	-1279
LTD	3658	-1327

Vis: 0
Weight: 0.0

Sh: gry-brn-grm, vry soft

Ls: tan-tt gry, fn-sub xln, mostly DNS

Sh: brn, soft

Ls: tan-gry, fn-sub xln, vry DNS, sl fossil

Ls: off wh-tan-gry, fn xln, mostly DNS, vry chalky

Ls: ala, fossil

Sh: gry-brn-grm

Topeka 3151' (-820)

Ls: off wh-tt gry, fn xln, poor int xln porosity, NSFO, chalky

Ls: ala

Ls: off wh-tan, fn xln, poor int xln porosity, vry sl oil st in porosity, NSFO, vry chalky

Ls: ala

Sh: brn-red, vry soft

Ls: tan-gry, fn-sub xln, mostly DNS, sl chalky

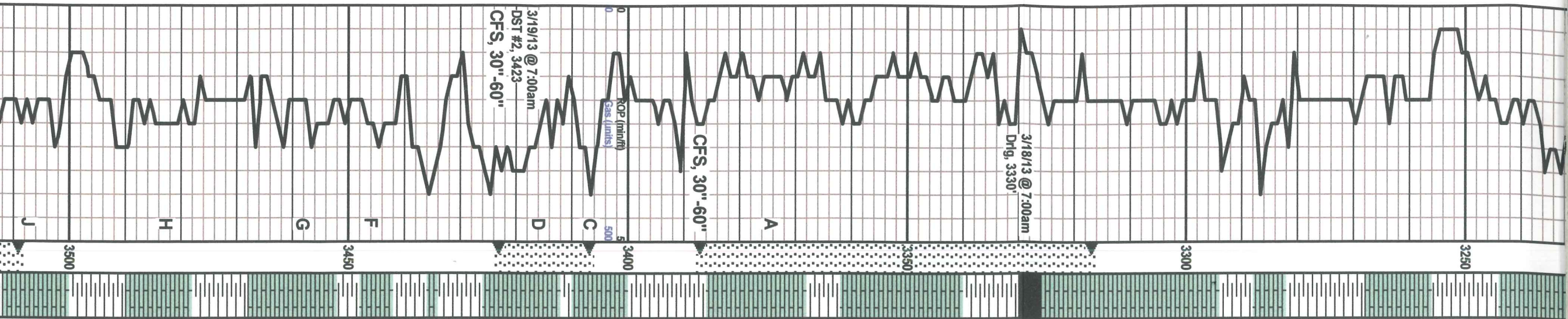
Ls: off wh-tt gry, fn xln, fossil, poor int fossil porosity, mostly Barren, NSFO, chalky

Ls: tan-gry, fn-sub xln, mostly DNS, vry chalky, sl chert

Ls: off wh-gry, fn xln, fossil, poor int fossil porosity, barren, chalky, sl chert

Sh: dk gry-blk

Ls: off wh-tan-gry, fn-sub xln, mostly DNS, sl



Ls: off wh-gry, fn xln, fossil, poor int fossil porosity, barren, chalky, sl chert

Sh: drk gry-blk

Ls: off wh-tan-gry, fn-sub xln, mostly DNS, sl chert, pyrite, chalky

Sh: drk brn-red, vry soft

Sh: lt gry-grm, soft

Ls: tan-gry, fn-sub xln, mostly DNS, chalky

Sh: drk gry-blk

Ls: off wh-t gry, fn xln, fossil, poor int xln and fossil porosity, mostly barren, sl chalky

Ls: off wh-t gry, fn-sub xln, mostly DNS, sl chalky, quartz-fn-vry fn gm

Ls: ala

Heebner 3326' (-995)

Sh: blk, carb, fissile

Sh: gry-brn-grm

Ls: off wh-t gry, fn-sub xln, mostly DNS, NSFO, sl fossil

Toronto 3356' (-1025)

Ls: off wh-tan, fn xln, poor-fair int xln & pp vuggy porosity, VSSFO, sl odor

Sh: gry-brn-grm

Lansing 3370' (-1039)

Ls: off wh-tan, fn xln, poor-fair int xln porosity, fair oil st in porosity, SSFO, vry sl odor, dull-fair yel fluor

Sh: drk gry-brn-grm, few pcs soft, chalky

Sh: gry-drk brn-red, vry soft

Ls: off wh-tan, fn xln, poor int xln & pp vuggy porosity, vry sl oil st in porosity, NSFO, no odor

Sh: drk gry-drk brn-red, soft

Ls: off wh-tan, fn xln, poor int xln porosity, vry sl oil st, NSFO, sl odor, chalky

Sh: drk gry-drk brn-grm

Sh: drk gry-brn-grm

Ls: off wh-tan, fn xln, scat int xln and pp vuggy porosity, mostly barren, NSFO, no odor, chalky

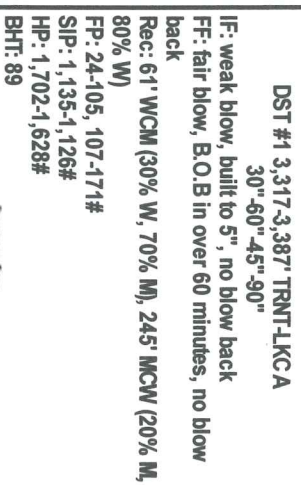
Ls: off wh-tan-crm, fn xln, scat int xln porosity, mostly barren, NSFO, vry sl odor, sl chert, chalky

Sh: drk gry

Ls: off wh-t gry, fn xln, scat pp vuggy & int xln porosity, mostly DNS, barren, NSFO, no odor, hvy chert-off wh, chalky

Sh: gry-drk gry

Ls: tan-t gry, fn-sub xln, poor int xln porosity, barren, NSFO, no odor, sl chert-off wh, chalky



DST #1 3,317-3,387' TRNT-LKCA

30"-60" 45"-90"

IF: weak blow, built to 5", no blow back

FF: fair blow, B.O.B in over 60 minutes, no blow

back

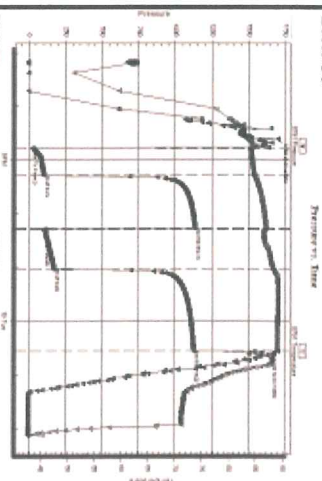
Rec: 6'1" WCM (30% W, 70% M), 245' MCW (20% M, 80% W)

FP: 24-105, 107-171#

SIP: 1,135-1,126#

HP: 1,702-1,628#

BHT: 89



Vis: 46

Weight: 9.0

Pipe Strap: .96 long
Deviation Survey: 1.25 degrees

DST #2 3,407-3,423' LKC D

30"-60" 30"-60"

IF: weak surface blow, no blow back

FF: no blow

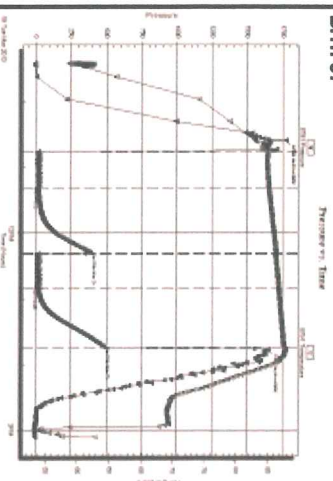
Rec: 5' M

FP: 20-23, 18-19#

SIP: 390-488#

HP: 1,775-1,648#

BHT: 87



Vis: 50

Weight: 9.0

DST #3 3,509-3,530' LKC K

30"-60" 45"-90"

IF: weak blow, built to 1", no blow back

FF: weak blow, built to 6", no blow back

Rec: 12'1" Water, 122' MCW (20% M, 80% W), 6'1"

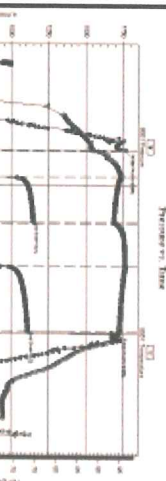
MCW (50% M, 50% W), 1' Oil

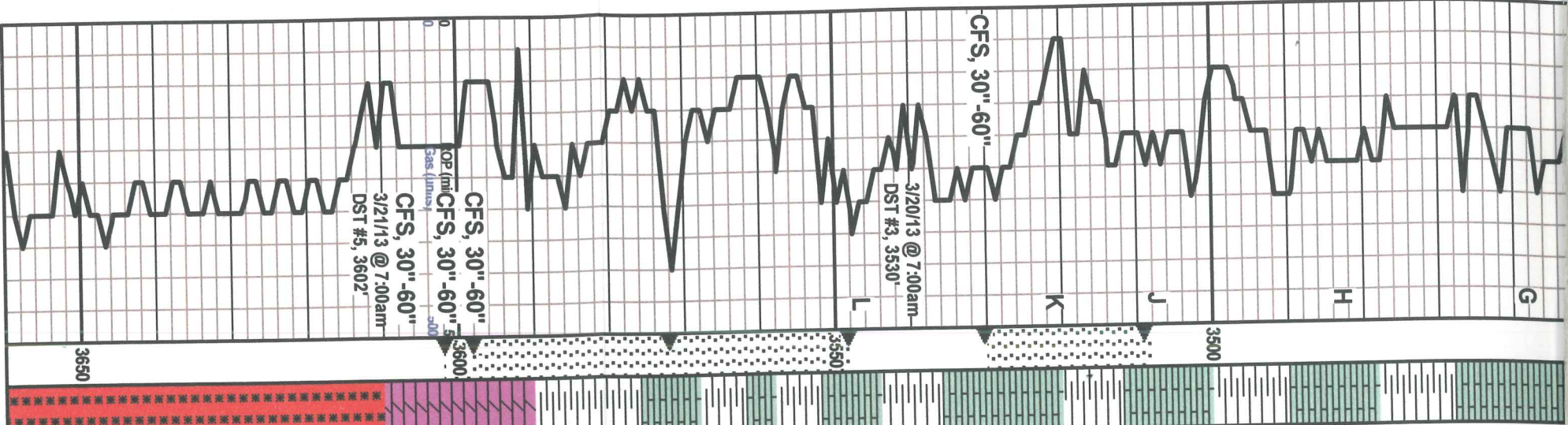
FP: 20-99, 102-175#

SIP: 1,148-1,111#

HP: 1,764-1,712#

BHT: 94





Ls: off wh-tan-crm, fn xln, scat int xln porosity, mostly barren, NSFQ, vry sl odor, sl chert, chalky

Sh: drk gry

Ls: off wh-t gry, fn xln, scat pp vuggy & int xln porosity, mostly DNS, barren, NSFQ, no odor, hvy chert-off wh, chalky

Sh: gry-drk gry

Ls: tan-tk gry, fn-sub xln, poor int xln porosity, barren, NSFQ, no odor, sl chert-off wh, chalky

Sh: gry-drk gry-dm

Ls: off wh-tan, fn xln, cool, fair int xln & oomoldic porosity, fair-good oil st in porosity, FSFO, good odor, good yel fluor

Sh: drk gry-dm-grm

Ls: tan-tk gry, fn-sub xln, mostly DNS, NSFQ, no odor, sl fossil, sl chalky

BKC 3552' (-1221)

Ls: tan-tk gry, fn-sub xln, mostly DNS

Sh: drk brn-red, soft

Ls: tan-gry, fn xln, mostly DNS

Sh: drk gry-dm, Congl: tan-gry, fn-rnd xln, poor int xln porosity, vry sl oil st, VSSFO, sl-fair odor

Arbuckle 3589' (-1258)

Dolo: off wh-tan-brn, fn xln, poor-fair int xln porosity, fair oil st in porosity, glauc, SSFO, fair-good odor, dull-fair yel fluor, scat pyrite

Dolo: off wh-brn, fn-rnd xln, glauc, poor-fair int xln porosity, fair-good oil st, FSFO, good odor, dull yel fluor, scat pyrite

Granite 3610' (-1279)

Granite: off wh-brn-red

Granite: off wh-pink

Granite: ala

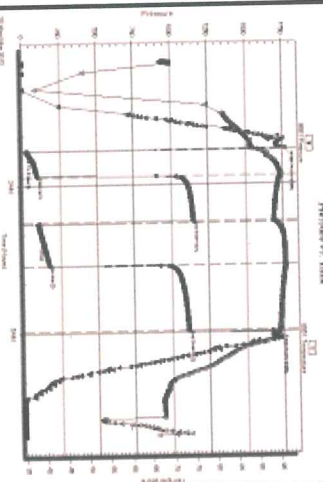
Granite: pink, vry hard

RTD 3660' (-1329)

Vis: 50
Weight: 9.0

DST #3 3,509-3,530 LKC K

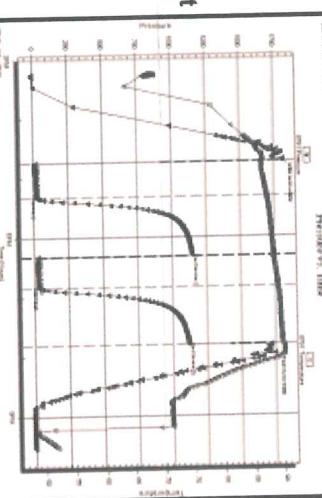
IF: weak blow, built to 1", no blow back
 FF: weak blow, built to 6", no blow back
 Rec: 121' Water, 122' MCW (20% M, 80% W), 61'
 MCW (50% M, 50% W), 1' Oil
 FP: 20-99, 102-175#
 SIP: 1,148-1,111#
 HP: 1,764-1,712#
 BHT: 94



Vis: 55
Weight: 9.1

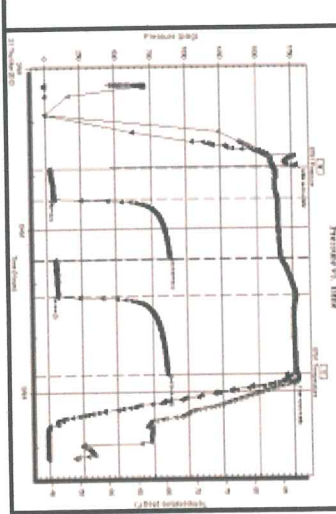
DST #4 3,548-3,598 Arbuckle

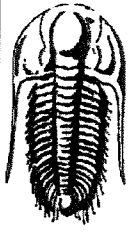
IF: weak surface blow, no blow back
 FF: no blow
 Rec: 20' VSWCM (2% W, 98% M)
 FP: 18-26, 32-34#
 SIP: 1,149-1,120#
 HP: 1,815-1,746#
 BHT: 90



DST #5 3,572-3,602 Arbuckle

IF: weak blow, built to 4", no blow back
 FF: weak blow, built to 4", no blow back
 Rec: 135' M w/ oil scum
 FP: 28-58, 64-80#
 SIP: 881-856#
 HP: 1,783-1,734#
 BHT: 87





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy
6121 S. 58th St. Ste. B
Lincon NE 68516
ATTN: Austin Klaus

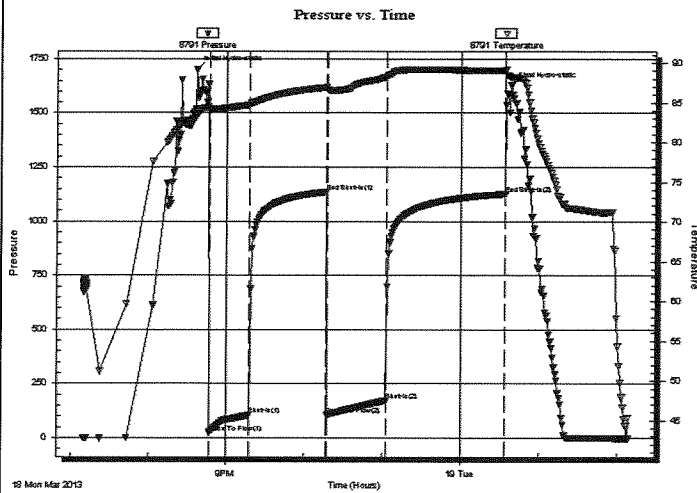
29-2s-23w Norton KS
Lazy L Ranch #1-29
Job Ticket: 50586 DST#: 1
Test Start: 2013.03.18 @ 19:10:00

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:46:30
Time Test Ended: 02:08:30
Test Type: Conventional (Initial)
Tester: Chuck Kreutzer Jr.
Unit No: 61
Interval: **3317.00 ft (KB) To 3387.00 ft (KB) (TVD)**
Reference Elevations: 2331.00 ft (KB)
Total Depth: 3387.00 ft (KB) (TVD) 2326.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8791 Inside
Press@RunDepth: 171.98 psig @ 3318.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.18 End Date: 2013.03.19 Last Calib.: 2013.03.19
Start Time: 19:10:01 End Time: 02:08:30 Time On Btm: 2013.03.18 @ 20:36:30
Time Off Btm: 2013.03.19 @ 00:38:30

TEST COMMENT: IF: Weak blow, Built to 5 in. over 30 mins.
IS: No blow back over 60 mins.
FF: Fair blow, Built to B.O.B in 20 mins.
FSI: No blow back over 90 mins.



PRESSURE SUMMARY

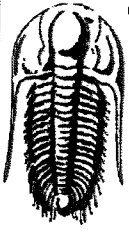
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.87	83.48	Initial Hydro-static
10	24.04	84.16	Open To Flow (1)
41	105.40	84.69	Shut-In(1)
100	1135.20	86.91	End Shut-In(1)
101	107.51	86.62	Open To Flow (2)
146	171.98	88.22	Shut-In(2)
238	1126.66	89.05	End Shut-In(2)
242	1628.29	88.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	w cm-30%w 70%m	0.30
245.00	mcw -20%m 80%w	2.90

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy
6121 S. 58th St. Ste. B
Lincon NE 68516
ATTN: Austin Klaus

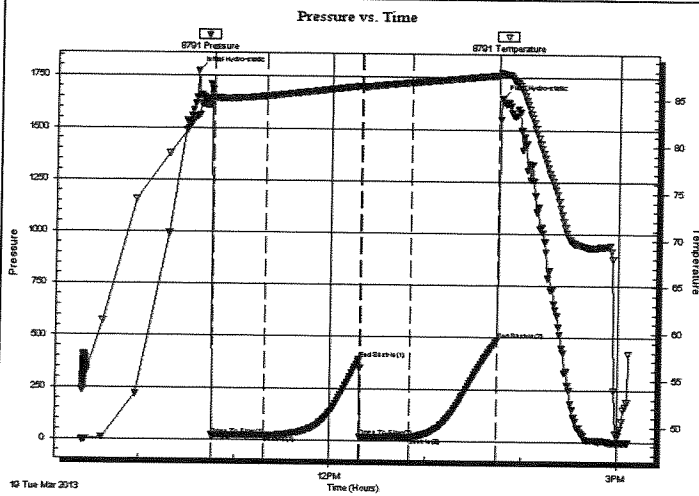
29-2s-23w Norton KS
Lazy L Ranch #1-29
Job Ticket: 50587 DST#: 2
Test Start: 2013.03.19 @ 09:25:00

GENERAL INFORMATION:

Formation: **LKC-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:45:30
Time Test Ended: 15:06:30
Interval: **3407.00 ft (KB) To 3423.00 ft (KB) (TVD)**
Total Depth: 3423.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional (Reset)
Tester: Chuck Kreutzer Jr.
Unit No: 61
Reference Elevations: 2331.00 ft (KB)
2326.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8791 Inside
Press@RunDepth: 19.01 psig @ 3408.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.19 End Date: 2013.03.19 Last Calib.: 2013.03.19
Start Time: 09:25:01 End Time: 15:06:30 Time On Btm: 2013.03.19 @ 10:35:30
Time Off Btm: 2013.03.19 @ 13:46:30

TEST COMMENT: IF: Weak surface blow, Died in 10 mins.
IS: No blow back over 60 mins.
FF: No blow over 30 mins.
FSI: No blow back over 60 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1775.20	83.06	Initial Hydro-static
10	20.62	84.97	Open To Flow (1)
43	23.07	85.20	Shut-In(1)
103	390.66	86.35	End Shut-In(1)
104	18.20	86.27	Open To Flow (2)
135	19.01	86.75	Shut-In(2)
189	488.82	87.57	End Shut-In(2)
191	1648.83	87.76	Final Hydro-static

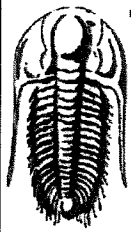
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100% m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy
6121 S. 58th St. Ste. B
Lincon NE 68516
ATTN: Austin Klaus

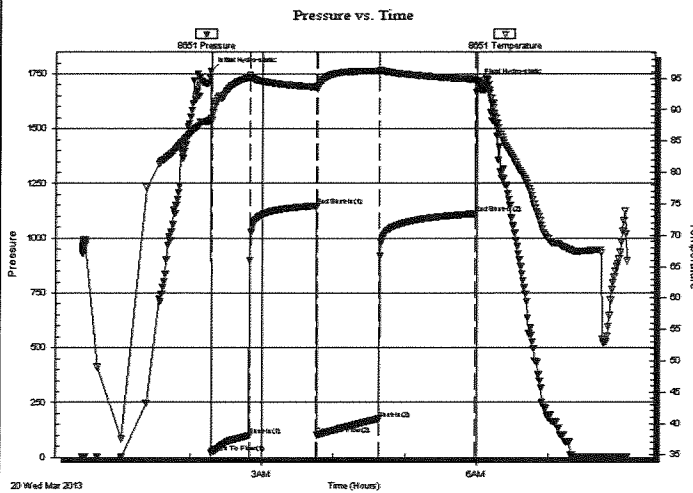
29-2s-23w Norton KS
Lazy L Ranch #1-29
Job Ticket: 50588 DST#: 3
Test Start: 2013.03.20 @ 00:30:00

GENERAL INFORMATION:

Formation: LKC-K
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:17:30
Time Test Ended: 08:05:30
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreutzer Jr.
Unit No: 61
Interval: 3509.00 ft (KB) To 3530.00 ft (KB) (TVD)
Reference Elevations: 2331.00 ft (KB)
Total Depth: 3530.00 ft (KB) (TVD) 2326.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8651 Outside
Press@RunDepth: 175.58 psig @ 3510.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.20 End Date: 2013.03.20 Last Calib.: 2013.03.20
Start Time: 00:30:01 End Time: 08:05:30 Time On Btm: 2013.03.20 @ 02:16:30
Time Off Btm: 2013.03.20 @ 06:00:00

TEST COMMENT: IF: Weak blow , Built to 1 in. over 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow Built to 6 in. over 45 mins.
FS: No blow back over 90 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.25	88.68	Initial Hydro-static
1	20.57	88.32	Open To Flow (1)
33	99.80	95.19	Shut-In(1)
89	1148.20	93.60	End Shut-In(1)
90	102.09	93.36	Open To Flow (2)
141	175.58	96.18	Shut-In(2)
222	1111.44	94.82	End Shut-In(2)
224	1712.65	94.51	Final Hydro-static

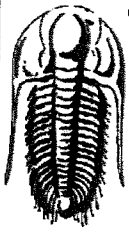
Recovery

Length (ft)	Description	Volume (bbl)
121.00	Water-100%	0.60
122.00	MCW-20% m80% w	1.71
61.00	mcw -50% m50% w	0.86
1.00	oil-100%	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Great Plains Energy
6121 S. 58th St. Ste. B
Lincon NE 68516
ATTN: Austin Klaus

29-2s-23w Norton KS
Lazy L Ranch #1-29
Job Ticket: 50589 **DST#: 4**
Test Start: 2013.03.20 @ 15:15:00

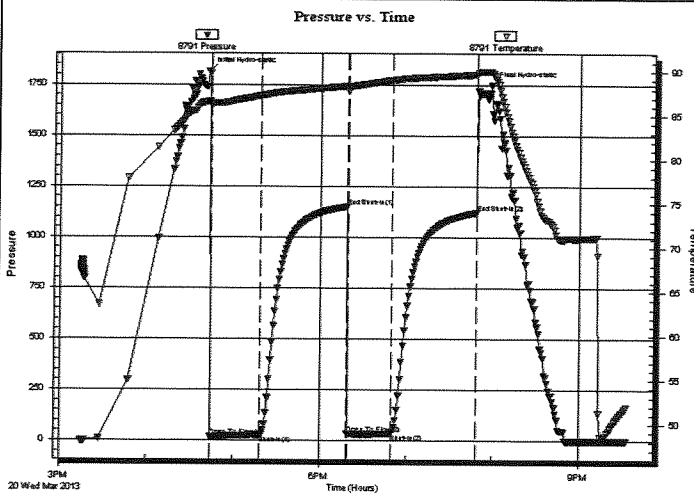
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:44:00
Time Test Ended: 21:33:00
Interval: **3548.00 ft (KB) To 3598.00 ft (KB) (TVD)**
Total Depth: 3598.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreutzer Jr.
Unit No: 61
Reference Elevations: 2331.00 ft (KB)
2326.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8791 Inside
Press@RunDepth: 34.77 psig @ 3550.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.20 End Date: 2013.03.20 Last Calib.: 2013.03.20
Start Time: 15:15:01 End Time: 21:33:00 Time On Btm: 2013.03.20 @ 16:42:30
Time Off Btm: 2013.03.20 @ 19:58:30

TEST COMMENT: IF: Weak surface blow, Died in 15 mins.
IS: No blow back over 60 mins.
FF: No blw over 30 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1815.06	86.61	Initial Hydro-static
2	18.40	86.26	Open To Flow (1)
36	26.03	87.29	Shut-In(1)
96	1149.57	88.38	End Shut-In(1)
97	32.36	87.80	Open To Flow (2)
127	34.77	89.05	Shut-In(2)
186	1120.81	89.69	End Shut-In(2)
196	1746.20	90.00	Final Hydro-static

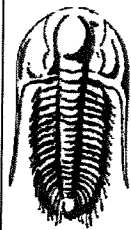
Recovery

Length (ft)	Description	Volume (bbl)
20.00	vsw cm-2%w 98%m	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy
6121 S. 58th St. Ste. B
Lincon NE 68516
ATTN: Austin Klaus

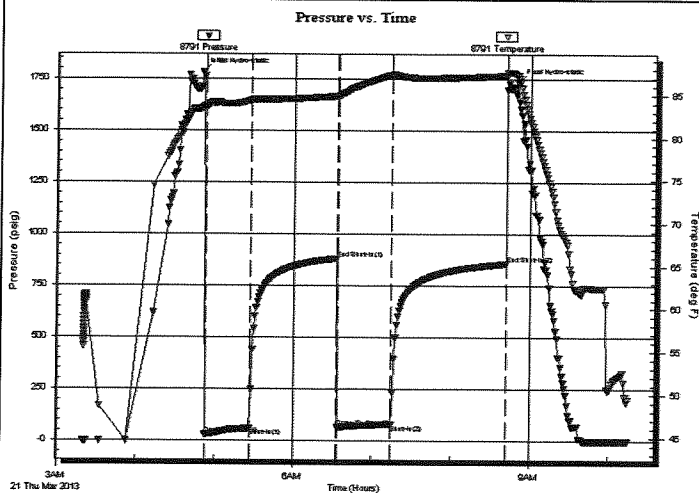
29-2s-23w Norton KS
Lazy L Ranch #1-29
Job Ticket: 50590 DST#: 5
Test Start: 2013.03.21 @ 03:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:52:30
Time Test Ended: 10:15:00
Interval: **3572.00 ft (KB) To 3602.00 ft (KB) (TVD)**
Total Depth: 3602.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreutzer Jr.
Unit No: 61
Reference Elevations: 2331.00 ft (KB)
2326.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8791 Inside
Press@RunDepth: 80.25 psig @ 3574.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.21 End Date: 2013.03.21 Last Calib.: 2013.03.21
Start Time: 03:20:01 End Time: 10:15:00 Time On Btm: 2013.03.21 @ 04:50:00
Time Off Btm: 2013.03.21 @ 08:50:30

TEST COMMENT: IF: Weak blow , Built to 4 in. Over 30 mins.
IS: No blow back over 60 mins.
FF: Weak blow , Built to 4 in. Over 45 mins.
FS: No blow back over 90 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.35	83.50	Initial Hydro-static
3	28.58	83.62	Open To Flow (1)
37	58.83	84.36	Shut-In(1)
103	881.03	84.84	End Shut-In(1)
104	64.15	84.65	Open To Flow (2)
145	80.25	87.36	Shut-In(2)
232	856.33	87.29	End Shut-In(2)
241	1734.47	87.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	mud with oil scern	0.80

Gas Rates

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

* Recovery from multiple tests