

Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1193039

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 #	API No. 15
Name:	Spot Description:
Address 1:	S. R East West
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Name:	
Wellsite Geologist:	
Purchaser:	Vell #:
Designate Type of Completion:	
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
□ OG □ GSW □ Temp.	Abd. Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to S	WD Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to P	
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	

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:				

	Page Iwo	1193039
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	
INCTRUCTIONS: Chain important tang of formations paratrated Da	tail all aaraa Danart all final	appiag of drill stamp tasts giving interval tastad time tast

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 (Attach Additional She	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
	CASING RECORD New 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 / SQU	EEZE RECORD			
Purpose:	Depth	Trace of Ocean ant	III On also I land		Turne and D		

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

No

No

(If No, skip questions 2 and 3)

Depth

(If No, skip question 3)

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

the hydraulic fractur	ne 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 (Amount and Kind of Material Used)		

TUBING RECORD: S	IZE:	Set At:		Packer	r At:	Liner Rui	n: Yes	No	
Date of First, Resumed Produc	tion, SWD or ENH	٦.	Producing Me	ethod:	ping	Gas Lift	Other (Explain))	
Estimated Production Per 24 Hours	Oil Bb	ıls.	Gas	Mcf	Wate	r	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF	GAS:			METHOD	OF COMPLE	TION:		PRODUCTION I	NTERVAL:
Vented Sold	Used on Lease		pen Hole	Perf.	Dually (Submit A		Commingled (Submit ACO-4)		
(If vented, Submit AC	O-18.)		ther (Specify)						

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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

SCHIPPER'S OIL FIELD SERVICES, L.L.C. 1068

REMIT TO 18048 170RD RUSSELL, KS 67665	SER	VICE POINT:	KS - Hox	ie, ks
DATE 7-19-13 SEC. TWP. RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 3.000m
LEASE Me WELL #. 2-8 LOCATION			COUNTY	STATE
OLD OR NEW (CIRCLE ONE)				
CONTRACTOR W/ W Drilling	OWNER			
TYPE OF JOB Rolary Plug				
HOLE SIZE 7 1/2 T.D.	CEMENT	7-	-~ 1.	~ 1 1 - 1101
CASING SIZE DEPTH	AMOUNT ORD	ERED AS	5 SX 60	140 4 700
TUBING SIZE DEPTH				
DRILL PIPE DEPTH				
TOOL DEPTH		20 N. N. N. M. M.		
PRES. MAX MINIMUM	COMMON		(<i>a</i> ,	
MEAS. LINE SHOE JOINT			@	
CEMENT LEFT IN CSG.				
PERFS			@	
DISPLACEMENT	ASC		0	
EQUIPMENT	ASC		@	
			@	
PUMP TRUCK CEMENTER APAth			@	
# HELPER			@	
BULK TRUCK			@	
			@	-
H DRIVER Jag			@	
BULK TRUCK			@	
# DRIVER			@	
	HANDLING		@	
	MILEAGE			
REMARKS: 1st-plug @ 3450 = \$0 st		SEI	TOTA	L
200 plug & 1430 = 2555	DEPTH OF JOB			é
310 0/49 Q 815 = 100St	PUMP TRUCK (2	
	EXTRA FOOTA		0	
4th phy 270 = 40 st	MILEAGE	012	@	
War dug and lose BOSK-RH				/
the first of the f				
CHARGE TO: 19100+ Plo. 15			<u> </u>	
CHARGE IO:			TOTAL	
STREET			IOIAI	
CITY STATE ZIP				
		PLUG & FLO	AT EQUIPME	NT
Schippers Oil Field Services, L.L.C.,	-0.1	ale alice		* *
You are hereby requested to rent cementing equipment and	Daph	ne plag		, , ,
furnish cementer and helper(s) to assist owner or contractor to		1	-	
do work as is listed. The above work was done to satisfaction				*
			0	
and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS"	3 		@	
listed on the reverse side.				
ווזוכע טון נווב ובעבוזב זועל.			TOTAI	

DISCOUNT_____

IF PAID IN 30 DAYS

PRINTED NAME	Jasch	Richeson		
SIGNATURE	Ale		×	
	Prov			

SCHIPPER'S OIL FIELD SERVICES, L.L.C. 1064

REMIT TO	18048 170R RUSSELL,			SER	VICE POINT:	45 - Hay	icy #5
-7 11	12 SEC. 8	TWP	RANGE /	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE 7-11-	WELL #.	7-8	LOCATION			COUNTY	STATE
LEASE OUT	2	~ ~ ~	Docimient		±.		
OLD OR NEW	(CIRCLE ONE)						
CONTRACTOR	ww 1	21,11,19		OWNER			
TYPE OF JOB	Surface						
HOLE SIZE /-	21/4	T.I		CEMENT	157	OSt com	30/10
CASING SIZE &	5%	DE	EPTH	AMOUNT ORI	DERED	Dr COPI	U TOIC
TUBING SIZE			EPTH	2 Toger			
DRILL PIPE		DE	EPTH				
TOOL		DE	EPTH				
PRES. MAX		M	NIMUM	COMMON			
MEAS. LINE		SH	IOE JOINT			_ @	
CEMENT LEFT IN	N CSG.			GEL		_ @	
PERFS				CHLORIDE		_ @	
DISPLACEMENT	125061			ASC		_ @	
	EQUIPM	IENT				_ @	
						_ @	
PUMP TRUCK	CEMENTER	Heath				_ @	
# P/	HELPER	Cod 1			<i>v</i>	_ @	
BULK TRUCK		, ,				_ @	
# RI	DRIVER	lar				_ @	
BULK TRUCK		0				_ @	
#	DRIVER					_ @	
				HANDLING		_ @	
				MILEAGE			
Ran 5 tanding	REN 545 0-1 E 54	MARKS:	rg and	¢	94 1	ERVICE	AL
KSF CII	culatro,	n		DEPTH OF JO	В		
<u></u>		1	10-1110		CHARGE		
Mixed 15	SO SY ON	dasp.	2.56610+		AGE		
H20 - She	it in Q.	300551		MILEAGE		_ @	
	0			MANIFOLD -		_ @	
/en	nent Dr	0 (11)	ulcote			_ @	
	Λ	I. I.	4.5.			_ @	
CHARGE TO:	Great Pl	GINS					
	e e e e e e e e e e e e e e e e e e e					TOTA	AL
STREET							
CITY	STATE -	Z	IP		PLUG & FL	OAT EQUIPMI	ENT
Schippers Oil	Field Services	. L.L.C				@	
You are here	by requested	to rent ceme	enting equipment and	1		@	
furnish cemen	ter and helper	(s) to assist o	owner or contractor to)		@	
do work as is	listed. The ab	ove work wa	as done to satisfaction	1		@	
and supervisio	on of owner as	gent or contr	actor. I have read and	1			
understand th	"GENERA	L TERMS A	ND CONDITIONS'	>			
listed on the re	everse side		1000 August 2000 August 200			TOT	AL
instea on me n	0,0100 Blue.						
	Jasan	Rilperi		0.47.00.00.37	(IE A mar)		
PRINTED NAMI	<u>Unin</u>	1 and		SALES TAX	(II Any)		

TOTAL CHARGES

DISCOUNT___

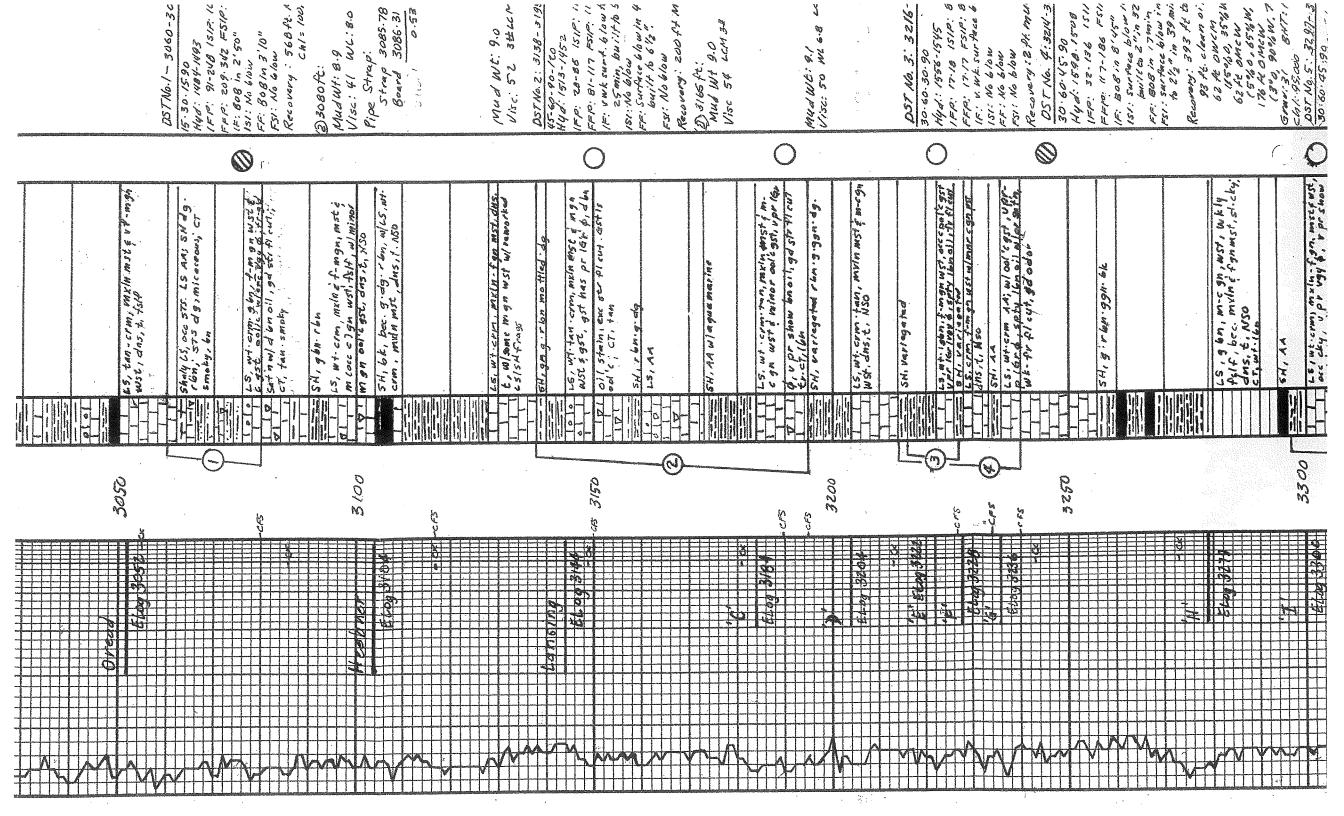
IF PAID IN 30 DAYS

SIGNATURE _

- + 5

COMPANY Grat Pla	GEOLO DRILLI	OGIC NGTIME	ALR AND SAMP	EPORT LE LOG				Dolomite		REMARKS	mples are lag in upper for the low mud	4, caused by w wing into hole th Datota Fant U I observed in s	
LEASE <u>odle 2-8</u> FIELD <u>Wildcat</u> LOCATION <u>SE SW S</u>	SW(335 A			ELEVATION KB <u>1944 feet</u> DF GL <u>1939 feet</u> Depths Measured					OIL SH		Sa Sa Pau	SIT Floo Floo Seen	
COUNTY <u>Rooks</u> CONTRACTOR <u>ww</u> SPUD <u>II July 2013</u> SAMPLES SAVED F	D <i>rilling Ris</i> COMP ROM <i>Z81</i>	9 No.6 18 July 00 TC	20 3 TD(3515	Log <u>EB</u> Drilling CASING Surface <u>B5/8" to</u> 218 Production FLFCTRIC_LO(SS SHCS by			EGEND Carb sh Limestone Ool.Lim		SAMPLE DESCRIPTIONS			72
FORMATION Anhydrite Base / Anhydrite Topeka Oread Heebner	MATTON SAMPLE 1416 1448 2901 3049 3106	E. LOG 14/6 1446 2900 3052 3104	DATUM 52.8 498 -956 -1108 -1160	A B C +521 +519	D			Sandstone Shale	LITHOLC	DEPTH	 0071		/ <i>d/S</i> 20
Lansing Basel Kansas City Penn Conglomerate Ar backle RTD	3146 3375 3460 3478 3515	3/44 3570 3442 3470 REFEREN	-1200 -1426 -1426 -1526 -1526 -1571 	-1196 -1214 -1414 -1437 A631517 -1506 -1553 -1506 -1553 -1506 -1553		Plugged habandoned.		Anhydrite Salt	ING TIME IN MINUTES PER FOOT of Penetration Decreases	5" 10" 15" 20" 25"			Bessel 1944 William
A Great Plains Ene B N-B Co & ESP Dome C D	lopment !	Bryant #1	(NW SW N	16, Sec 17, T7S, RIOW)		REMARKS	7064		DRILLING Rate of F	0122.50			

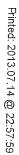
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LS, tan g. Wt. Nf. mgn 457, Ms. L. LS, tan g. Wt. Vf. mgn 457, Ms. L. Sparse - oct fs/P, +r glauc, become g bn, or c PSE w/13 rownsad LCags com mon, fs/t. V g vg4g	ETS, raish 9 49 ETS, raish 9 49 LS, AS Above Willoms MSG. tr. WY'9, becomes 196 w. Can, F-m 9m mstiwst, dus, t.	La chy, some rorg weg SHI dg \$ ggn SHI dg \$ ggn wst, fsli, dns, t, NSOgn, mot. Dec. Can writa mst	SH, I ba i dg. blk SH, I ba i dg. blk 4.5 i SH intebedded; US is dg. f-c gnust i dg. NSB I ba i dg. NSB SH, dg. bk. run carbona cous.	 Inter loadded LS & SH wil some STS Inter loadded LS & SH wil some STS LS is AA, becom; ng tan-lbn Tn-egn, usst. tradicge, 1311 Tn-egn, usst. tradicge, 1311 SH is & 39n, carbonacour(2) bake



2.500.500.500.000.000.000.000.000.000.00		- (y) 		sec chy, up r vgg &, r pr show '		30:60:45.94.1542. Hydd: 1594.1542. 1150: 23-34 (5)10: 159: 20.87 ESIP: 15: 5409.00
•		يو ريږ ک		Harley Control 1985 10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -		161: No blow FF: No blow Fs: No blow Recovery: 15A OCH
) (W/P 100 0, glave wrain com W/P 100 0, glauc. LS, Wt.com. Itan i mixingu fign	0	1141 125 12 12 12 12 12 12 12 12 12 12 12 12 12
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· · ·				LS, com.f.mgn mstlwst, dns,t wisparseool's gst, upr lipro, upr spty bnoil	0	WC: 72 LCM: 27 DST No.6: 3554-3.
				sk, g.ran.ggn		Hyd": 1419-1560 189: 1419-1560 189: 21.23 8.519: 70
						lf: No blow 151: No blow FF: No blow FSI: No blow
		3400		LS, Crm, f.m. gn, WSt (dns,t) tr eti wt. NSO		1 20% D' 98
				and the second se		
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Arhl		ی د بری				•
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		RTD3515				351696: Mud Wt 9. Visc. 48, WL 8.0,1
•		LTD 3514				
· ·		-				
•				•		
	<u> </u> 2		LITHO		OIL	
	DRILLING TIME Minutes/Foot Rate of Penetration Decreases	DEPIH	LOGY	SAMPLE DESCRIPTIONS	SHOWS	REMARKS

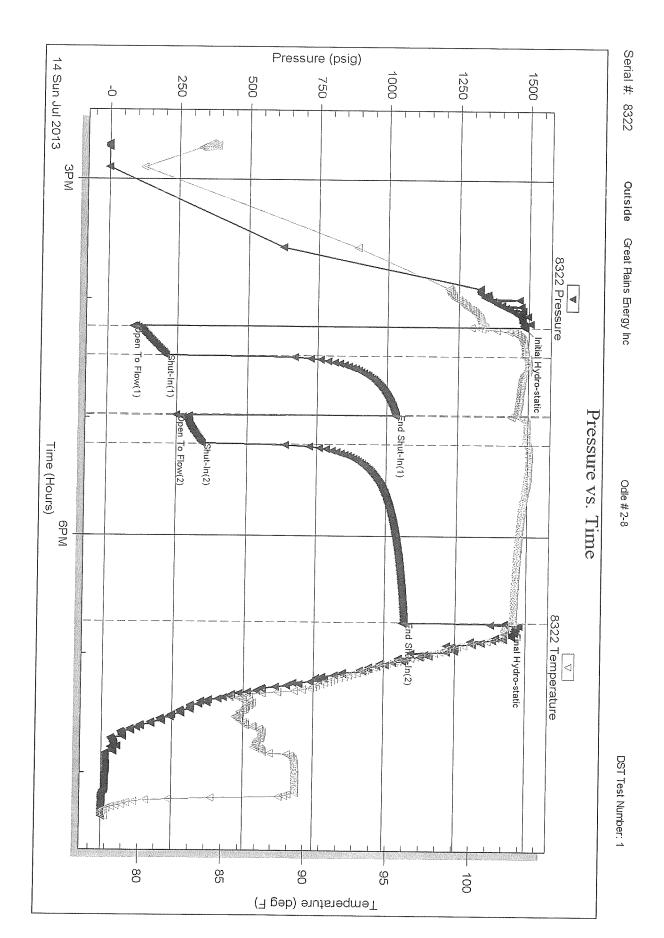
	DRILL STEM TES	ST REP	ORT				
I I I I I I I I I I I I I I I I I I I	Great Plains Energy Inc		8 7	s 18w F	Rooks		
	6121 S 58th St Ste B		Od	le # 2-8	;		
	incoln NE 68516		Job	Ticket: 5	4316	DST#: 1	1
A	ATTN: Mike Madchan		Test	t Start: 2	013.07.14 @	14:42:00	
GENERAL INFORMATION:							
Formation:OreadDeviated:NoWhipstock:Time Tool Opened:16:13:50Time Test Ended:20:22:00	1936.00 ft (KB)		Test Test Unit	ler:	Conventiona Jim Svaty 41	l Bottom Hol	e (Initial)
Total Depth: 3080.00 ft (KB) (TVD)	00 ft (KB) (TVD)		Refe	erence El	evations:	1936.00 1931.00	
Hole Diameter: 7.88 inches Hole Co	ndition: Fair			KB	to GR/CF:	5.00	ft
Serial #: 8322 Outside Press@RunDepth: 342.10 psig @ 342.10 psig @ Start Date: 2013.07.14 Start Time: 14:42:01	3062.00 ft (KB) End Date: End Time:	2013.07.14 20:22:00	Capacity: Last Calib Time On E Time Off I	o.: Btm:	2 2013.07.14 (2013.07.14 (psig
TEST COMMENT: 15-IFP- BOB in 2min. 30-ISIP- No Blow 15-FFP- BOB in 3min 90-FSIP- No Blow				9 - 8 FFA 11 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2			
Pressure vs. Time	8322 Temperature			ESSUF	RE SUMMA	\RY	
622 Presure 1600 1000	E22 Imperature	Time (Min.) 0 15 45 45 60 150 151	Pressure (psig) 1484.51 91.90 209.55 1031.91 248.06 342.10 1069.46 1423.56	102.27	Annotation Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro-	-static ow (1) (1) ow (2) (2)	
Recovery				Gas	Rates		
Length (ft) Description	Volume (bbl)			Choke (ir	nches) Pressure	(psig) Gas	Rate (Mcf/d)
434.00 MCW 5%m 95%w 134.00 MCW 20%m 80%w	4.99						
Trilobite Testing, Inc	Ref. No: 54316			Printed: 1	2013.07.14 @	9 22.57.59	

		RILL STEM TEST REPOR	RT	Ĩ	LUID SUMMAR
	TE Gree VG , INC 612	at Plains Energy Inc	8 7s 18w	Rooks	, , , , , , , , , , , , , , , , , , ,
ESTII		1 S 58th St Ste B oln NE 68516	Odle # 2- Job Ticket:		DST#: 1
	AT	N: Mike Madchan		2013.07.14 @ 14	
Mud and Cushian Infa					
Mud and Cushion Infor Mud Type: Gel Chem	mation	Cushion Type:			
Mud Weight: 9.00 lb/	aal	Cushion Length:	ft	Oil API: Water Salinity:	deg API 100000 ppm
Viscosity: 41.00 se		Cushion Volume:	bbl	victor outlinky.	100000 ppm
Water Loss: 7.98 in ³		Gas Cushion Type:			
,	m.m	Gas Cushion Pressure:	psig		
Salinity: 1500.00 pp Filter Cake: 1.00 inc					
Recovery Information					
-		Recovery Table			
	Length ft	Description	Volume bbl		
	434.00	MCW 5%m 95%w	4.99	5	
	134.00		1.88		
Total	Length: 5	68.00 ft Total Volume; 6.875 b	bl		
Keco	very Comments:	.070 @ 80			



Ref. No: 54316

Trilobite Testing, Inc

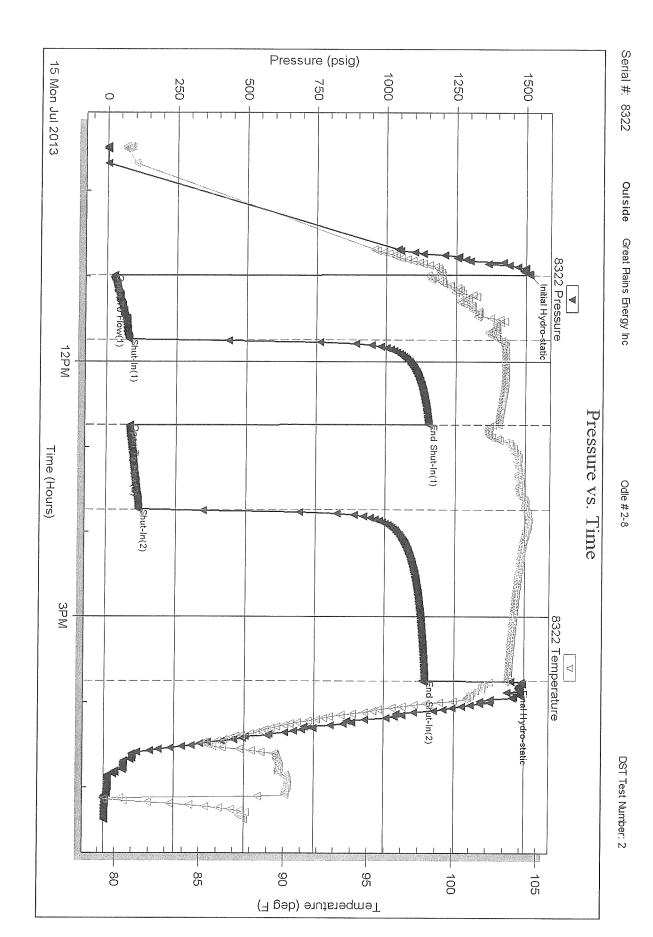


RILOBITE	DRILL STEM TES					
TESTING, INC.	Great Plains Energy Inc		8 '	7s 18w I	Rooks	
	6121 S 58th St Ste B Lincoln NE 68516			d le # 2-8 o Ticket: 5		DST#: 2
	ATTN: Mike Madchan		Te	st Start: 2	013.07.15 @	9 09:29:00
GENERAL INFORMATION:						
Formation:LKC " A - C "Deviated:NoWhipstock:Time Tool Opened:10:59:00Time Test Ended:17:23:00	1936.00 ft (KB)		Tes	ster:	Conventiona Jim Svaty 41	I Bottom Hole (Reset)
Interval:3138.00 ft (KB) To319Total Depth:3195.00 ft (KB) (TVHole Diameter:7.88 inchesHole	D)		Ref	ference E		1936.00 ft (KB) 1931.00 ft (CF)
				KB	to GR/CF:	5.00 ft
	End Date: End Time: k Surface Blow For 25 min. Surgi Blow in 4 min. Building to 6 1/2 mir		Capacity Last Cal Time On Time Off	ib.: Btm:	2013.07.15 (2013.07.15 (÷
120-FSIP- No Blov	/					
Pressure vs. Tir	10 전기 8332 Temperature				RESUMM	
1200	105 107 107 107 107 107 107 107 107	Time (Min.) 0 1 46 106 106 286 286 287	Pressure (psig) 1513.04 28.44 81.20 1153.44 86.25 117.89 1145.34 1452.51	98.41 102.63 102.65 102.32	Shut-In(1) End Shut-In Open To Fle Shut-In(2) End Shut-In	-static ow (1) (1) ow (2) (2)
250 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3PM					
	- εο εο			Gas	s Rates	
Men Jul 2013 12 ^{PM} Length (ft) Description	зем Volume (bbl)			Ga:		e (psig) Gas Rate (Mcf/d)
Aten Jul 2013 Ture (Hous)	3PM			1	<u> </u>	e (psig) Gas Rate (Mcf/d)

Image: Second	RILOBITE	DRILL STEM TEST REPORT	FLUID SUMMARY
Image: Construction of the orgen of the		Great Plains Energy Inc 8 7s 18w Rooks	
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: bbl bbl Water Loss: 6.80 in ³ Gas Cushion Type: gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 2500.00 ppm Filter Cake: 1.00 inches Recovery Information Volume Image: Length Description 1.712 MCW 15%m 85%w 1.712 Num Fluid Samples: 0 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	ESTING , INC.	Lincoln NE 68516 Job Ticket: 54317	
Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 90000 ppm Viscosity: 50.00 sec/qt Cushion Volume: bbl bbl Water Loss: 6.80 in ³ Gas Cushion Type: gas Cushion Pressure: psig Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 2500.00 ppm Filter Cake: 1.00 inches Recovery Information Recovery Table Length Description Volume 1.712 Total Length: 200.00 ft Total Volume: 1.712 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Serial #:	Mud and Cushion Information		
Recovery Table Length Description Volume 1 200.00 MCW 15%m 85%w 1.712 Total Length: 200.00 ft Total Volume: 1.712 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Laboratory Location:	Mud Weight:9.00 lb/galViscosity:50.00 sec/qtWater Loss:6.80 in³Resistivity:ohm.mSalinity:2500.00 ppm	Cushion Length: ft Water Salinity Cushion Volume: bbl Gas Cushion Type:	
Length ftDescriptionVolume bbl200.00MCW 15%m 85%w1.712Total Length:200.00 ftTotal Volume:1.712 bblNum Fluid Samples: 0Num Gas Bombs:0Serial #:Laboratory Name:Laboratory Location:Serial #:	Recovery Information		11 A & A & A & A & A & A & A & A & A & A
ft bbl 200.00 MCW 15%m 85%w 1.712 Total Length: 200.00 ft Total Volume: 1.712 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Laboratory Location:	1 and 1		
Total Length: 200.00 ft Total Volume: 1.712 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	ft	ldd	
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:			
	Laboratory Name	: Laboratory Location:	

Ref. No: 54317

Trilobite Testing, Inc



Printed: 2013.07.16 @ 00:43:30

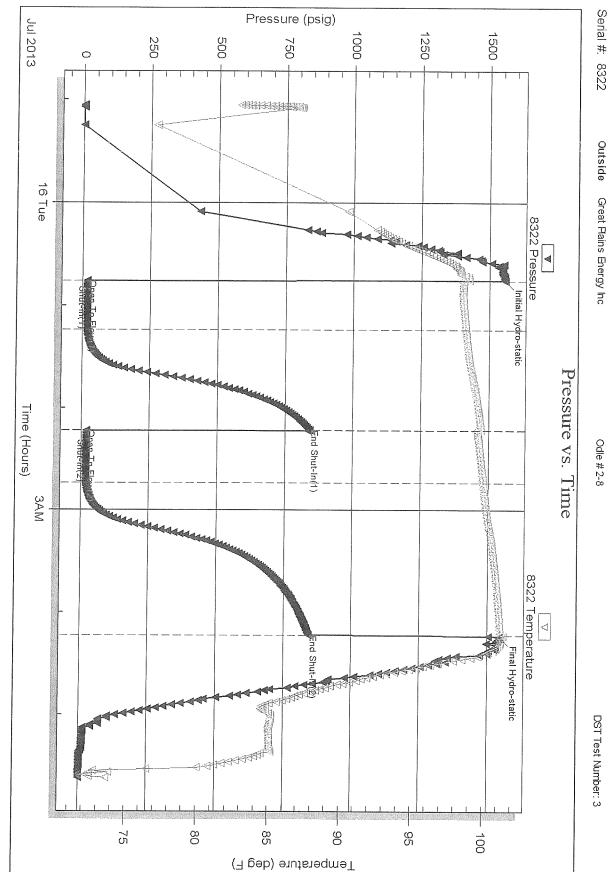
RILOBITE	DRILL STEM TES	ST REP	ORT				
	Great Plains Energy Inc		8	7s 18w I	Rooks		******
ESTING , INC	6121 S 58th St Ste B		0	dle # 2-8	3		
	Lincoln NE 68516		Jol	b Ticket: 5	4318	DST#: 3	
	ATTN: Mike Madchan		Те	st Start: 2	013.07.15 @	23:03:00	
GENERAL INFORMATION:						anne an	
Formation: LKC " E " Deviated: No Whipstock: Time Tool Opened: 00:45:20 Time Test Ended: 05:37:00	1936.00 ft (KB)		Te	ster:	Conventional Jim Svaty 41	l Bottom Hol	e (Reset)
Interval: 3216.00 ft (KB) To 322			Re	ference E	evations:	1936.00	
Total Depth:3227.00 ft (KB) (TVHole Diameter:7.88 inchesHole	,			KB	to GR/CF:	1931.00 5.00	
Serial #: 8322 Outside Press@RunDepth: 17.55 psig @ Start Date: 2013.07.15 Start Time: 23:03:01	End Date: End Time:	2013.07.16 05:36:40	Capacity Last Cal Time On Time Off	ib.: Btm:	2 2013.07.16 @ 2013.07.16 @	-	psig
TEST COMMENT: 30-IFP- Very Wea 60-ISIP- No Blow 30-FFP- No Blow 90-FSIP- No Blow Pressure vs. Tin		T	P	PESSIE	RE SUMMA		
Т 8322. Pressure вали ним из вас вали ним из вас	S322 Temperature	Time	Pressure	Temp	Annotation		
	- 100	(Min.) 0	(psig) 1556.53	(deg F) 98 93	Initial Hydro-	static	
	- 85	1	17.48	98.35	Open To Flo		
		29 88	17.36 841.78	98.69 99.79	Shut-In(1) End Shut-In((1)	
En Strewo		89	18.58	99.41	Open To Flo		
750	8 S	119 209	17.55 842.59	99.97 101.25	Shut-In(2) End Shut-In((2)	
500		209	1545.95	101.41	Final Hydro-		
20 0 10 Tue 10	- 75						
	- 75			Ga	s Rates		
o to Tue Time (Hours) 3 Recovery Length (ft) Description	NA Volume (bbl)			Ga:		(psig) Gas	Rate (Mcf/d)
o to Tue Time (Hours) 3 Recovery Length (ft) Description	- 75			1		(psig) Gas	Rate (Mcf/d)
o to Tue Time (Hours) 3 Recovery Length (ft) Description	NA Volume (bbl)			1		(psig) Gas	Rate (Mcf/d)
o to Tue Time (Hours) 3 Recovery Length (ft) Description	NA Volume (bbl)			1		(psig) Gas	Rate (Mcf/d)
a true true true (Hours) 3 Recovery Length (ft)	NA Volume (bbl)			1		(psig) Gas	Rate (Mct/d)

RILOBI		RILL STEM TEST REP	ORT	FL	
	1 010	at Plains Energy Inc	8 7s 18w	Rooks	
ESTIN		1 S 58th St Ste B coln NE 68516	Odle # 2- Job Ticket:		ST#: 3
	AT	TN: Mike Madchan		2013.07.15 @ 23:03	
ud and Cushion Infor	mation		4		
ud Type: Gel Chem ud Weight: 9.00 lb/g scosity: 50.00 se ater Loss: 6.80 in³	gal c/qt n.m n	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	deg API ppm
ecovery Information		9,4144		MAANA MAANA AMAANA A	
		Recovery Table		-	
	Length ft	Description	Volume bbl		
	2.00) Mud 100%	0.010	2	
Total	Length:	2.00 ft Total Volume: 0.01	l0 bbl		

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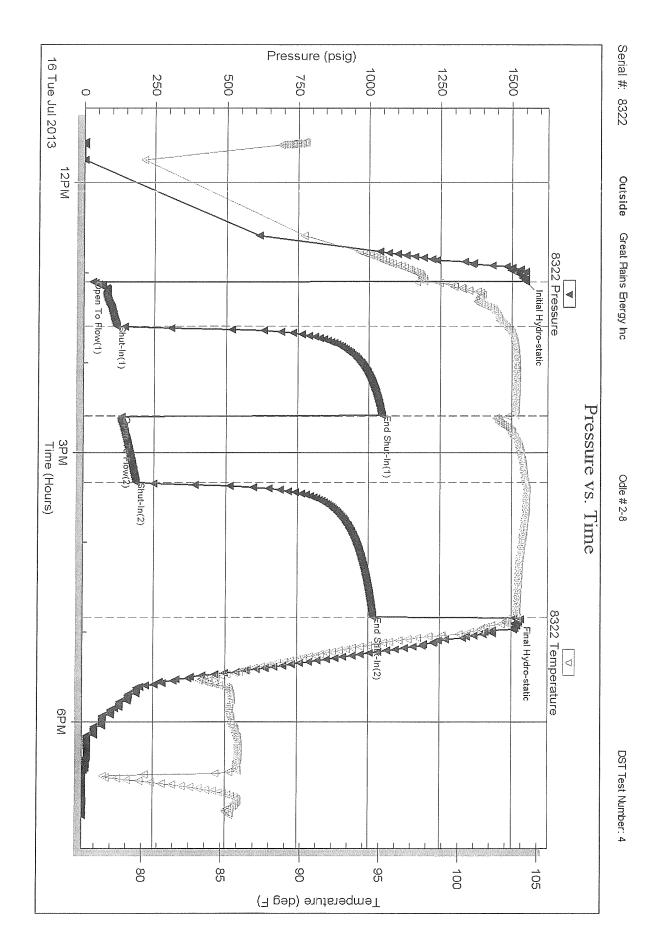
RILOBITE	Great Plains Energy Inc	8 7s 18w Rooks						
ESTING, INC	2							
	6121 S 58th St Ste B Lincoln NE 68516	Odle # 2-8						
				Ticket: 5		DST#: 4		
	ATTN: Mike Madcharo		Tes	t Start: 2	013.07.16 @	11:33:00		
GENERAL INFORMATION:			an daaraan daaraa ka k					
Formation: LKC " E - G "								
Deviated: No Whipstock:	1936.00 ft (KB)					Bottom Hole (Reset)		
Time Tool Opened: 13:05:40 Time Test Ended: 19:02:00				Tester: Jim Svaty Unit No: 41				
Interval: 3214.00 ft (KB) To	240 00 ft (KB) (TVD)		Ref	erence El	evations	1936.00 ft (KB)		
Total Depth: 3240.00 ft (KB) (⁻				evaliente.	1931.00 ft (CF)			
Hole Diameter: 7.88 inchesHo			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		2013.07.16	Last Calil			2013.07.16		
Start Time: 11:33:01	End Time:	19:01:50	Time On I Time Off		2013.07.16 @ 2013.07.16 @			
90-FSIP- Surfac	ce Blow in 2 min. Building to 2 1/2 i	in. in 39 min.						
D								
Pressure vs. 802 Pressue	E322 Temperature	Time						
		Time (Min.)	PF Pressure (psig)	RESSUF Temp (deg F)	RE SUMMA Annotatio			
R322 Pressule	8322 Temperature	(Min.) 0	Pressure (psig) 1548.22	Temp (deg F) 97.80	Annotation Initial Hydro	n o-static		
1500	105 105 105 105 105 105 105 105	(Min.) 0 1	Pressure (psig) 1548.22 32.21	Temp (deg F) 97.80 97.35	Annotation Initial Hydro Open To Flo	n o-static		
R322 Pressule	105 105 105 105 105 105 105 105	(Min.) 0 1 30 90	Pressure (psig) 1548.22	Temp (deg F) 97.80	Annotation Initial Hydro Open To Flo Shut-In(1)	n p-static pw (1)		
1500 1525 Pressue 1500 1525 Pressue 1500 1525 1525 1525 1525 1525 1525 1525	105 105 105 105 105 105 105 105	(Min.) 0 1 30 90 91	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07	Temp (deg F) 97.80 97.35 103.01 103.59 103.12	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo	n p-static pow (1) (1)		
1200	100 100 100 100 100 100 100 100	(Min.) 0 1 30 90 91	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2)	n static ow (1) (1) ow (2)		
1200 120 12	100 100 100 100 100 100 100 100	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n p-static pow (1) n(1) pow (2) (2)		
	100 100 100 100 100 100 100 100	(Min.) 0 1 30 90 91	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2)	n p-static pow (1) n(1) pow (2) (2)		
	52 Temporaue 100 100 100 100 100 100 100 10	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n static bw (1) i(1) bw (2) (2)		
1500 1500	100 100 100 100 100 100 100 100	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n static bw (1) i(1) bw (2) (2)		
	100 100 100 100 100 100 100 100	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In	n p-static pow (1) n(1) pow (2) (2)		
1200 120 12	100 100 100 100 100 100 100 100	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67 103.76	Annotation Open To Fic Shut-In(1) End Shut-In Open To Fic Shut-In(2) End Shut-In Final Hydro-	n p-static pow (1) n(1) pow (2) (2)		
1500 president ended		(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67 103.76	Annotation Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro-	n static cow (1) (1) cow (2) (2) -static		
1200 1200	PIER Index Star PIER I	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67 103.76	Annotation Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro-	n static cow (1) (1) cow (2) (2) -static		
1200 120 12	PIREINANCESCON PIREINANCESCON	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67 103.76	Annotation Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro-	n static cow (1) (1) cow (2) (2) -static		
тоо 1000	Volume (bbl)	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67 103.76	Annotation Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro-	n static cow (1) (1) cow (2) (2) -static		
1200 1000 1000	Volume (bbl)	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67 103.76	Annotation Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro-	n static cow (1) (1) cow (2) (2) -static		
1000 1000	Volume (bbl)	(Min.) 0 1 30 90 91 135 225	Pressure (psig) 1548.22 32.21 117.00 1047.04 136.07 186.44 1016.48	Temp (deg F) 97.80 97.35 103.01 103.59 103.12 104.23 103.67 103.76	Annotation Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In Final Hydro-	n static cow (1) (1) cow (2) (2) -static		

1.4321	RILOBITE		DRILL STEM TEST REPORT FLUID SUMMARY							
(AAAA)	ESTING, INC.	Great	Great Plains Energy Inc			8 7s 18w	Rooks			
			6121 S 58th St Ste B Lincoln NE 68516			Odle # 2-4 Job Ticket: 4		DST#: 4		
		ATTN: Mike Madcharo				2013.07.16 @ 11:				
	· · · · · · · · · · · · · · · · · · ·									
/lud and C	Cushion Information									
• •	Gel Chem			ushion Type:			Oil A PI:	31 deg API		
/lud Weight:	9.00 lb/gal			ushion Length:		ft	Water Salinity:	95000 ppm		
/iscosity:	51.00 sec/qt			ushion Volume:		bbl				
Vater Loss:	6.80 in ³			as Cushion Type:						
Resistivity:	ohm.m		G	as Cushion Pressur	e:	psig				
alinity:	2600.00 ppm 2.00 inches									
ilter Cake:							19 00-1900 - A. A. A. M. H. M. H.			
ecovery l	nformation		-	anayon, Tabla						
	F		н Т	ecovery Table			7			
	Leng ft	lth		Description		Volume bbl				
		176.00		%o 7%m 90%w		1.376				
		62.00		%o 30%m 65%w		0.870				
		62.00		<u>5%o 35%w 50%m</u>		0.870				
		93.00	CO 100% 222 GIP	o		1.305 0.000				
				Tatallia	4 404 661	0.000	2			
	Total Length:		.00 ft	Total Volume:	4.421 bbl					
	Num Fluid Sam			Num Gas Bombs:	0	Serial #				
	Laboratory Nar		70 🔿 02	Laboratory Location	n:					
	Recovery Com	nents0	10 @ 65							



Ref. No: 54319

Trilobite Testing, Inc



	DRILL STEM TES	ST REP	ORT				
RILOBITE	Great Plains Energy Inc		8 7s ⁻	18w Ro	oks		
ESTING , INC.			Odle	# 2-8			
	Lincoln NE 68516		Job Tic	cket: 543	20	DST#:	5
	ATTN: Mike Madcharo		Test S	tart: 201	3.07.17 @) 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)			Refere	nce Elev	ations:		ft (KB)
Total Depth:3330.00 ft (KB) (TVD)Hole Diameter:7.88 inchesHole Condition: Fair				KB to	GR/CF:	1931.00 5.00	
Serial #: 8322 Outside Press@RunDepth: 37.03 psig Start Date: 2013.07.17 Start Time: 04:46:01	 3298.00 ft (KB) End Date: End Time: 	2013.07.17 11:34:50	Capacity: Last Calib.: Time On Btn Time Off Btr		13.07.17 (8000.00 2013.07.17 @ 06:32:10 @ 10:17:40	
EST COMMENT: 30-IFP- Surface 60-ISIP- No Blow 45-FFP- No Blow 90-FSIP- No Blow							
Pressure vs. T	ime IIII 8322 Temperature				SUMM		
		Time (Min.) 0 1 31 90 91	(psig) (c 1594.85 1 23.47 1 30.48 1 386.72 1	100.56 0 100.95 8 101.45 E	Annotatio nitial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl	o-static low (1) n(1)	
750 500 201 0 0 0 0 0 0 0 0 0 0 0 0 0	estimation (dag F)	136	37.03 1 539.31 1	01.85 S	Shut-In(2) End Shut-Ir Final Hydro	n(2)	
					Rates		****
Length (ft) Description	Volume (bbl)		<u> </u>	Choke (inch		e (psig) Gi	as Rate (Mcf/d)
15.00 OCM 30%o 70%m	0.07			-			· · · · ·

		DRI	ILL STEM TEST REPOR	T		FLUID S	UMMARY
RILOBITE		Great	Plains Energy Inc	8 7s 18w	Rooks		
ESTING , INC		6 58th St Ste B n NE 68516	Odle # 2- Job Ticket:		DST#:5		
		ATTN:	Mike Madcharo		2013.07.17 @ 0		
Mud and Cushion Ir	ormation				-		
Mud Type: Gel Chem			Cushion Type:		Oil A PI:		deg API
	0 lb/gal		Cushion Length:	ft	Water Salinity:		ppm
	0 sec/qt 0 in³		Cushion Volume:	bbl			
Resistivity:	ohm.m		Gas Cushion Type: Gas Cushion Pressure:	psig			
Salinity: 2600.0			Cas Cushion Tressure.	psig			
	0 inches						
Recovery Information	on						
	Lang	+h	Recovery Table Description	Volume	-		
	Leng ft		-	bbl	_		
		15.00	OCM 30%o 70%m	0.074	4		
٦	Fotal Length:	15	.00 ft Total Volume: 0.074 bbl				
١	Num Fluid Samp	les: 0	Num Gas Bombs: 0	Serial #	:		
	aboratory Nam		Laboratory Location:				
F	Recovery Comr	nents:					

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Ref. No: 54320

Trilobite Testing, Inc

