Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1174916

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:	
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:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	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 SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #: SWD Permit #:	Location of fluid diagonal if hould officiat
ENHR Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	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:				

	Page Two	1174916
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	
INCTRUCTIONS. Chain important tang of formations panetrated De	tail all aaraa Bapart all final	agniag of drill atoms toots giving interval tootod, time tool

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 a		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	9		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
			RECORD Ne		ion, 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			
Purposo:	Denth						

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

No

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

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

(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				A		ement Squeeze Record d of Material Used)	Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner Ru	un:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	} .	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bbl	S.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	DISPOSITION OF GAS: METHOD OF COM			TION:	_	PRODUCTION IN	TERVAL:			
Vented Sold	l [] l	Used on Lease		Open Hole	Perf.	Dually (Submit)	Comp.	Commingled	·	
(If vented, Sul	bmit ACC	D-18.)		Other (Specify)	(Submit)	,	(Submit ACO-4)		

Form	ACO1 - Well Completion		
Operator	K & N Petroleum, Inc.		
Well Name	Panning 6		
Doc ID	1174916		

All Electric Logs Run

Cement Bond Log
Dual Induction Log
Dual Compensated Porosity Log
Microresistivity Log

Form	ACO1 - Well Completion		
Operator	K & N Petroleum, Inc.		
Well Name	Panning 6		
Doc ID	1174916		

Tops

Name	Тор	Datum	
Anhydrite	510	+1272	
Base Anhydrite	535	+1247	
Heebner	2902	-1120	
Toronto	2918	-1136	
Douglas	2937	-1155	
Brown Lime	3023	-1241	
Lansing	3043	-1261	
Base Kansas City	3297	-1515	
Conglomerate	3311	-1529	
Arbuckle	3324	-1542	
RTD	3425	-1643	
LTD	3426	-1644	



TREATMENT REPORT

Acid	& Cemen	t 🕰		Acid Stage No.							
					Type Treatment:	Amt.		Type Fluid	Sand Size	Pound	is of Sand
Date _1	1/26/2013	District	F.O. M	vo. <u>41959</u>	Bkdown						
	K&N PETROL	•									
Well Nam	e & No. PANNII	NG #6									
Location			Field		4						
County	BARTON		State KS		Flush	[3b1./Gal				
					Treated from		ft.	to	ft.	No. ft.	0
Casing:				Set at ft.	. from		ft.	to	ft.	No. ft	0
Formation): 		Perf.	to	from		ft	to	ft.	No. ft	0
Formation	ı:		Perf.	to	Actual Volume of O	Dil / Water to	Load Hole:				Bbl./Gal.
Formation	1:		Perf.								
Liner: S				Bottom atft.	. Pump Trucks. I	No. Used:	Std3	18 Sp.			
					. Auxiliary Equipmen			3:			
Tubing:	Size & Wt.		Swung at	ft.	Personnel BRANI	DON GRE	g and JC	RDAN			
	Perforated	from	ft. to	ft.	Auxiliary Tools						
					Plugging or Sealing	Materials:	Туре				
Open Hole	e Size	T,D.	ft. P	.B. toft.			<u>.</u>		Gals.		ib.
Company	Representative	<u></u>			Treater						
TIME	PRE	SSURES	Total Fluid Pumped			R	EMARKS				
a.m./p.m.	Tubing	Casing	Total Fluid Fullped								
10:30	PM			11/25/13 ON LC	CATION						
				HOLE 382'							
				PIPE 382'							
				DISPLACEMENT	23.00 BBL						
				BREAK CIRCULA	TION WITH F	PUMP 1	RUCK				
		<u> </u>		MIX 300 SKS 60,	/40 2% GEL 3	3% CAL	CLOR				
	1			DISPLACE 23 BB	L						
				CIRCULATED CEI	MENT TO SU	IRFACE					
2:00	AM			PLUG DOWN							
	1										***************************************

		1		THANKS							
				BRANDON							
									·····		
			-		· · · · · · · · · · · · · · · · · · ·						
			-							<u></u>	
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TREATMENT REPORT

Acia	& Cemer	it 🕰						Acid Stage No	э	
					Type Treatment:	Amt.	Type Fluid	Sand Size	Poun	ds of Sand
Date 3	12/2/2013	District G.B.	F.O. I	No. C41991	Bkdown		/Gal			25 OF 541.0
	K&N Petrole				1		/Gal.			
	e & No. Pannin				1		/Gal.			
Location	<u> </u>		Field		[/Gal.			
County	Barton		State KS		Flush	Bbl.	/Gal.			
					Treated from		ft. to		No. ft.	0
Casing:	Size 5.5	1 Type & Wt	. 14.00#	Set atft.					No. ft.	0
Formation				to	from				No. ft.	0
Formation					Actual Volume of O	··· / 1 / 1 / 1 / 1 - 1 -	ft, to			
			······································	to	Actual volume of O	m / Water to Lo				Bbl./Gal.
Formation				to						
				Bottom atft.			. <u>320</u> Sp.		_ Twin _	
			from		Auxiliary Equipment			360/310		
Tubing:	Size & Wt.	·	Swung at		Personnel Natha	n,Scott,Joe			····	
	Perforated	from	it. to		Auxiliary Tools					
					Plugging or Sealing	Materials:	Туре			
Open Hole	e Size	T.D	ft. P	.B. toft.				Gals.		1b.
Company	Representative		Ed		Treater		Nath	an W.		
TIME	PRE	SSURES	- Total Fluid Pumped			DEAA	ARKS			
a.m./p.m.	Tubing	Casing	Total Police			KEW	ARKS			
2:30		5.5"		On Location. La	ying down d	rill pipe.				
						·				
				Hole-3425'		Cen	tralizers-1,2,3	3.7.9		
		·······		Pipe-3407'			ket- 2,4			·
		1		KB-8'						
				Pipe set at 3415						
				Baffle-3403'				· · · · · · · · · · · · · · · · · · ·		
				Dame-5405						
				Break circulation	with mud p	oump. Ci	rculate for 45	minutes.		
						······ ·······························				<u></u>
				Pump 600gal mι						
				Plug Rat hole wit	h 30sks. 60/	/40poz				
				Tie on 5.5" and r	nix 200sks. (50/40poz	z. 2%gel 18%s	alt 3/4% C-	37	
:				3/4% C-41p 5#/s	k. Gilsonite					
				Displace with 83	.3bbls at 6.2	5bpm-90	00# Plug land	led at 1500	#	
9:00				Released pressu	re Float hel	Id	· .			
		·		neicuscu pressu	e. Hourner	. 	and and a second s	· · · · · · · · · · · · · · · · · · ·		
		<u> </u>				N.894 1942				
	·····									
				Thank You!						
			•	Nathan W.						
									;	



DRILL STEM TEST REPORT

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Beneral Action Company

Prepared For: K&N Petroleum Inc

1105 Walnut Great Bend KS 67530

ATTN: Ed Nemnich/Jim Musgr

Panning #6

23-19s-11w Barton,KS

Start Date:	2013.11.29	@ 18:45:31	
End Date:	2013.11.30	@ 01:00:10	
Job Ticket #;	55453	DST #:	1

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

. . . .

Printed: 2013.12.04 @ 10:42:53

RILOBITE	K&N Petroleum Inc		23	-19s-11w	v Barto	n,KS	······································
ESTING , #	1105 Walnut Great Bend KS 67530		Pa	anning # o Ticket: 5	#6	*	T#: 1
	ATTN: Ed Nemnich/Jim Mus	gr) @ 18:45:3	
GENERAL INFORMATION:							· · · · · · · · · · · · · · · · · · ·
Formation: LKC							
Deviated: No Whipstock Time Tool Opened: 20:39:41 Time Test Ended: 01:00:10	c ft (KB)		Tes	ster:	Conventio Ray Schv 70		n Hole (Initial)
	3250.00 ft (KB) (TVD)		Ret	ference El	evations;	1781	.00 ft (KB)
Total Depth: 3250.00 ft (KB) Hole Diameter: 7.88 inchest	(TVD) Iole Condition: Fair						.00 ft (CF)
				KB 1	to GR/CF:	7	'.00 ft
Serial #: 8369 Inside Press@RunDepth: 43.70 psi							
Press@RunDepth: 43.70 psi Start Date: 2013.11.2		2013.11.30	Capacity Last Cal				1.00 psig
Start Time: 18:45:3		01:00:10	Time On		2013.11.2	2013.11 29 @ 20:36	
			Time Off			29@23:28	
30-ISIP-no bl	hru-out 1/2" to 3 1/4" bi thru-out 1/4" to 3" bi						
30-ISIP-no bl 45-FFP-w k bl	thru-out 1/4" to 3" bl	Time	Pressure	RESSUF	RE SUM		
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi Pressere v	thru-out 1/4" to 3" bl	(Min.)	Pressure (psig)	Temp (deg F)	Annota	ation	
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi Pressare v	thru-out 1/4" to 3" bl		Pressure	Temp	Annota Initial Hy	ation dro-static	
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi	thru-out 1/4" to 3" bl	(Min.) 0 4 34	Pressure (psig) 1522.34 16.66 28.57	Temp (deg F) 99.41 99.02 100.77	Annota Initial Hy Open To Shut-In(ation dro-static > Flow (1) 1)	
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63	Pressure (psig) 1522.34 16.66 28.57 396.41	Temp (deg F) 99.41 99.02 100.77 101.70	Annota Initial Hy Open To Shut-In(End Shu	ation dro-static 5 Flow (1) 1) 1-In(1)	
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi Pressure v	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108	Pressure (psig) 1522.34 16.66 28.57	Temp (deg F) 99.41 99.02 100.77 101.70 101.55	Annota Initial Hy Open To Shut-In(End Shu	ation dro-static Flow (1) 1) ut-in(1) Flow (2)	
45-FFP-w k bl 60-FSIP-no bl	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108 108 169	Pressure (psig) 1522.34 16.66 28.57 396.41 30.70 43.70 426.25	Temp (deg F) 99.41 99.02 100.77 101.70 101.55 103.04 104.65	Annota Initial Hy Open To Shut-In(End Shu Open To Shut-In(End Shu	ation dro-static b Flow (1) 1) ut-In(1) b Flow (2) 2) tt-In(2)	
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi Pressure v	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108	Pressure (psig) 1522.34 16.66 28.57 396.41 30.70 43.70	Temp (deg F) 99.41 99.02 100.77 101.70 101.55 103.04	Annota Initial Hy Open To Shut-In(End Shu Open To Shut-In(End Shu	ation dro-static > Flow (1) 1) it-In(1) > Flow (2) 2)	
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi Pressere v	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108 108 169	Pressure (psig) 1522.34 16.66 28.57 396.41 30.70 43.70 426.25	Temp (deg F) 99.41 99.02 100.77 101.70 101.55 103.04 104.65 105.83	Annota Initial Hy Open To Shut-In(End Shu Open To Shut-In(End Shu	ation dro-static b Flow (1) 1) ut-In(1) b Flow (2) 2) tt-In(2)	
30-ISIP-no bl 45-FFP-w k bl 60-FSIP-no bl	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108 108 169	Pressure (psig) 1522.34 16.66 28.57 396.41 30.70 43.70 426.25	Temp (deg F) 99.41 99.02 100.77 101.70 101.55 103.04 104.65 105.83	Annota Initial Hy Open To Shut-In(End Shut-In(End Shut-In(Final Hy	ation dro-static b Flow (1) 1) ut-In(1) b Flow (2) 2) tt-In(2)	Ges Rate (Mct/d)
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108 108 169	Pressure (psig) 1522.34 16.66 28.57 396.41 30.70 43.70 426.25	Temp (deg F) 99.41 99.02 100.77 101.70 101.55 103.04 104.65 105.83 Gas	Annota Initial Hy Open To Shut-In(End Shut-In(End Shut-In(Final Hy	ation dro-static 5 Flow (1) 1) ut-In(1) 5 Flow (2) 2) ut-In(2) dro-static	Gas Rate (Mct/d)
30-ISIP-no bl 45-FFP-w k bl 60-FSIP-no bl Pressere v Control of the second seco	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108 108 169	Pressure (psig) 1522.34 16.66 28.57 396.41 30.70 43.70 426.25	Temp (deg F) 99.41 99.02 100.77 101.70 101.55 103.04 104.65 105.83 Gas	Annota Initial Hy Open To Shut-In(End Shut-In(End Shut-In(Final Hy	ation dro-static 5 Flow (1) 1) ut-In(1) 5 Flow (2) 2) ut-In(2) dro-static	Gas Rate (Mcf/d
30-ISIP-no bl 45-FFP-w k bl 60-FSIP-no bl Pressere v Control of the second seco	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108 108 169	Pressure (psig) 1522.34 16.66 28.57 396.41 30.70 43.70 426.25	Temp (deg F) 99.41 99.02 100.77 101.70 101.55 103.04 104.65 105.83 Gas	Annota Initial Hy Open To Shut-In(End Shut-In(End Shut-In(Final Hy	ation dro-static 5 Flow (1) 1) ut-In(1) 5 Flow (2) 2) ut-In(2) dro-static	Ges Rate (Mcl/d)
30-ISIP-no bi 45-FFP-w k bi 60-FSIP-no bi	thru-out 1/4" to 3" bl	(Min.) 0 4 34 63 63 108 108 169	Pressure (psig) 1522.34 16.66 28.57 396.41 30.70 43.70 426.25	Temp (deg F) 99.41 99.02 100.77 101.70 101.55 103.04 104.65 105.83 Gas	Annota Initial Hy Open To Shut-In(End Shut-In(End Shut-In(Final Hy	ation dro-static 5 Flow (1) 1) ut-In(1) 5 Flow (2) 2) ut-In(2) dro-static	Gas Rate (Mcf/d

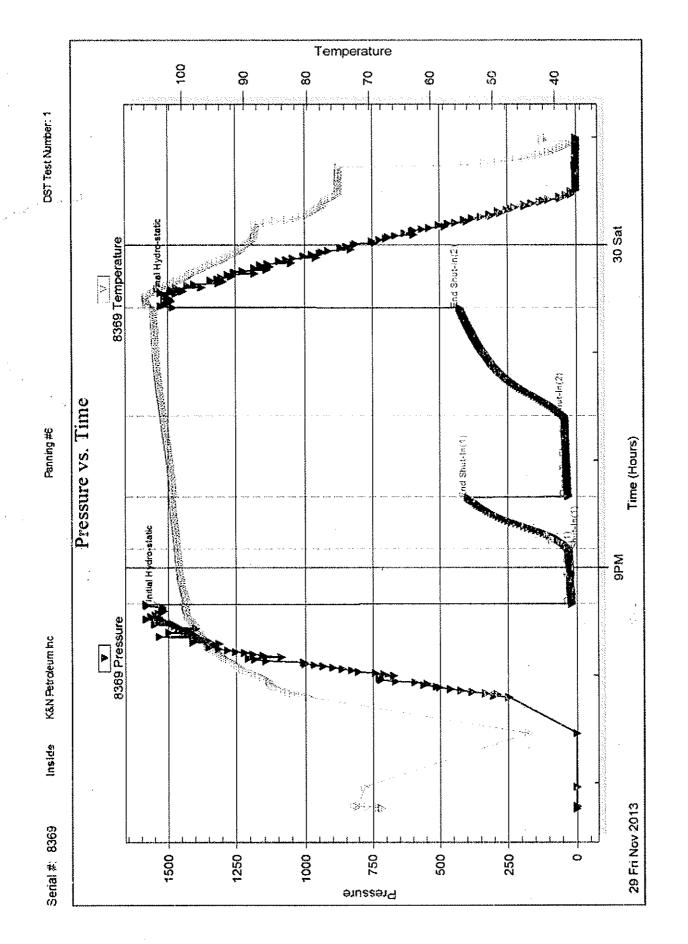
Printed: 2013.12.04 @ 10:42:53

Al Som	T RILOBITE	DRI	LL S	STEM TEST F	REPORT	-	F	LUID SI	JMMAR
	En man patenter		etroleum	Inc		23-19s-11	w Barton,KS		
Mint Typo: – Go Mint Walght, Viacosity Wator Loss, Nacistivity,	ESTING , IN		Valnut Bend KS	67530		Panning Job Ticket:		DST#: 1	
NOW		ATTN:	Ed Ner	nnich/Jim Musgr		Test Start:	2013.11.29 @ 18	:45:31	
Mud and Cu	shion Information	 1					, <u>, , , , , , , , , , , , , , , , </u>	·	
Mud Type: - G	el Chom			Cushion Type:			OH API:		deg API
Mad Weight	9.00 lb/gal			Cushion Length:		ft	Water Salinity:		ppm
Viscosity	51.00 sec/qt			Cushion Volume:		bbl			
Water Less.	7.18 in ^a			Gas Cushion Type:					
Renativity.	ohm.m			Gas Cushion Pressure	:	psig			
Balknity	4000.00 ppm								
Fillor Cako	1.00 inches								
Recovery In	formation					,			
				Recovery Table					
		ngth ft		Description		Volume bbl			
		0.00	186'GI	P		0.00	0		
		60.00	SO&G	CM 5%G1%O94%M		0.84	2		
	Total Length:	60).00 ft	Total Volume:	0.842 bbl				
	Num Fluid Sa	mples: 0		Num Gas Bombs:	0	Serial i	¥:		
	Laboratory N	-		Laboratory Location	n:				
	Recovery Co	mments:							

001000

Construction of the

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Percession and

Printed: 2013.12.04 @ 10:42:55

Ref, No: 55453

Tritobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For:

K&N Petroleum Inc

1105 Walnut Great Bend KS 67530

ATTN: Ed Nemnich/Jim Musgr

Panning #6

23-19s-11w Barton,KS

 Start Date:
 2013.11.30 @ 13:50:16

 End Date:
 2013.11.30 @ 18:59:40

 Job Ticket #:
 55454
 DST #: 2

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

Printed: 2013.12.04 @ 10:42:18

K&N Petroleum Inc

23-19s-11w Barton,KS

Panning #6

DST # 2

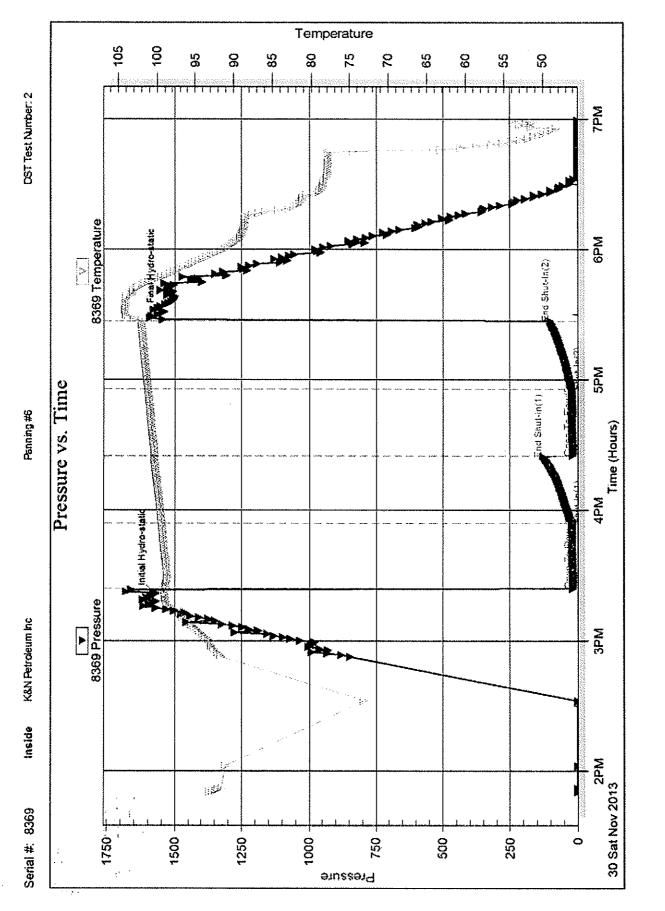
Arbuckle

2013.11.30

	K&N Patrolouro loc		23-19s-11	w Barton,K	S
ESTING , INC	1105 Walnut Great Bond K5 67540		Panning Job Ticket:		DST#:2
	ATTN: Ed Norrole 17 JoséAusep			2013.11.30 @	
INTORMATION:					
audalian Arbuckle المراجعة المراجعة Arbuckle المراجعة المراجعة م مراجعة المراجعة المراجع مراجعة المراجعة الم المراجعة المراجعة المرا	H (KH)		Test Type: Tester: Unit No:	Conventional Ray Schwag 70	l Bottom Hole (Reset) ger
htsivel 3276.00 ft (KB) To 33 http://www.sile.com/article/art	/D)		Reference K	Elevations: B to GR/CF:	1781.00 ft (KB) 1774.00 ft (CF) 7.00 ft
Inside In	@ 3280.00 II (61) End Dato End Time	20141130 14 59 40	Capacity: Last Calib.: Timo On Btm: Timo Off Btm:	2013.11.30 (2013.11.30 (
低値(()MMULNI: 30-IFP-w k bi thru 30-ISP-no bi 30-FFP-w k bi thr 30-FSIP-no bi	u-out 1/2" to 1" bl	1	PRESSI	JRE SUMM	ARY
		Ŭma (Adn.) - 0 - 1 - 1 - 1 - 1 - 0 - 4 - 0 - 4 - 0 - 4 - 0 - 1 - 0 - 10	Document Temp (psig) (deg F 1572.29 98.5 18.28 98.7 22.21 99.3 129.04 100.3 19.63 100.5	Annotatio Annota	on o-static low (1) n(1) low (2) n(2)
Recovery Description	V-domesi (ftž)		· · · · · · · · · · · · · · · · · · ·	Gas Rates ec (inches) Pressu	rre (psig) Gas Rate (Mc//r
Recovery	0,00		· · · · · · · · · · · · · · · · · · ·		ore (psig) Gas Rate (Mc//

ACR -		DR	ILL STEM TEST	REPORT	<u></u>			JMMARY
	RILOBITE		Petroleum Inc	· · · ·		w Barton,KS		
	TESTING , INC		Walnut Bend KS 67530		Panning	#6	: `	3
			Ed Nemnich/Jim Musgr		Job Ticket: 5		DST#:2	
ny a tit.						2013.11.30 @ 13	5:50:16	
	ushion Information		Our black m					
Mud Weight:	9.00 lb/gal		Cushion Type: Cushion Length:		ft	Oil API: Water Salinity:		deg API
Viscosity:	51.00 sec/qt		Cushion Volume:		bbl	water odinaty.		ppm
Water Loss:	8.77 in ³		Gas Cushion Type:					
Resistivity: Salinity:	ohm.m 6000.00 ppm		Gas Cushion Pressu	re:	psig			
Filter Cake:	1.00 inches			۰.				
Recovery In	formation							
	••••••		Recovery Table					
	Lengt ft	h	Description		Volume bbl]		
		0.00	60'GIP		0.000	2		
	L	20.00	O&GCM 5%G5%O90%M		0.281			
	Total Length:	20	0.00 ft Total Volume:	0.281 bbl				
	Laboratory Nam Recovery Comm		Laboratory Locati	0 on:	Serial #.			

Trilobite Testing, Inc



Printed: 2013.12.04 @ 10:42:21

Ref. No: 55454

Tritobile Testing, Inc



DRILL STEM TEST REPORT

Prepared For: K&N Petroleum Inc

1105 Walnut Great Bend KS 67530

ATTN: Ed Nemnich/Jim Musgr

Panning #6

23-19s-11w Barton,KS

Start Date: 2013.11.30 @ 23:41:14 2013.12.01 @ 06:57:44 End Date: Job Ticket #: 55455 DST #: 3

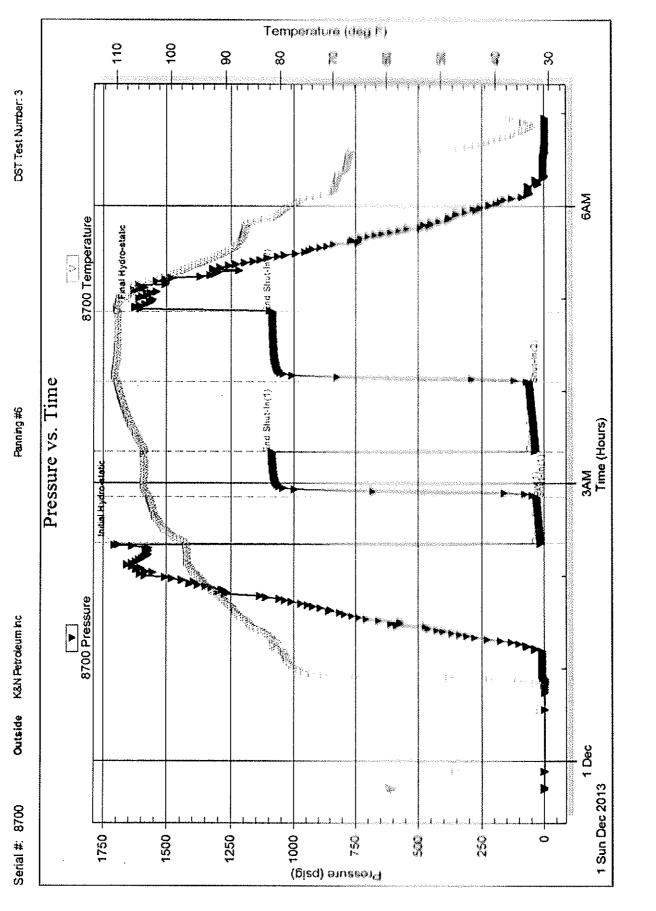
Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

K&N Petroleum Inc 23-19s-11w Barton,KS Panning #6 DST # 3 Arbuckle 2013.11.30

Printed: 2013.12.04 @ 10:10:36

RILOBITE	K&N Petroleum Inc		23-1	9s-11w	Barton,K	S
ESTING , I	NC 1105 Walnut Great Bend KS 67530		Pan	ning #6	2	
	Great Bend KS 67530		Job T	licket: 55	455	DST#: 3
	ATTN: Ed Nemnich/Jim N	Ausgr	Test	Start: 20	13.11.30 @	23:41:14
GENERAL INFORMATION:	·					
Formation: Arbuckle Deviated: No Whipstoc Fime Tool Opened: 02:20:59 Fime Test Ended: 06:57:44	.k: ft (KB)		Test Teste Unit I	er: T	conventional îm Phillips 0	l Bottom Hole (Reset)
Total Depth: 3346.00 ft (KB)	3346.00 ft (KB) (TVD) (TVD) Hole Condition: Fair		Refe	rence Be KB to	vations:	1781.00 ft (KB) 1774.00 ft (CF) 7.00 ft
Serial #: 8700 Outside Press@RunDepth; 62.16 ps Start Date; 2013.11. Start Time; 23:41;	30 End Date:	2013.12.01 06:57:43	Capacity: Last Calib Time On E Time Off E	u: Btm: 2	2013.12.01 (2013.12.01 (
FF-45-BOB i						
	to 1 1/2" died back to 1/4"				ESHMM	
Presser EN Press	vo 1 1/2" died back to 1/4"	- Time			E SUMM	· · · · ·
Pressure	. va. Time:	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotatic	ิท
Freesarc EN Proces	. va. Time:	(Min.)	Pressure (psig) 1705.49	Temp (deg F) 97.11	Annotatic Initial Hydro	on o-static
Drasser EXPlorer	. va. Time:	(Min.)	Pressure (psig)	Temp (deg F)	Annotation Initial Hydro Open To Fl Shut-In(1)	on o-static low (1)
	. va. Time:	(Min.) 0 2 32 61	Pressure (psig) 1705.49 15.20 35.36 1088.31	Temp (deg F) 97.11 96.39 103.95 104.99	Annotatio Initial Hydro Open To F Shut-In(1) End Shut-Ir	on o-static low (1) n(1)
	. va. Time:	(Min.) 0 2 32 61 62	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05	Temp (deg F) 97.11 96.39 103.95 104.99 104.64	Annotation Initial Hydro Open To Fl Shut-In(1) End Shut-Ik Open To F	on o-static low (1) n(1)
		(Min.) 0 2 32 61	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05	Temp (deg F) 97.11 96.39 103.95 104.99 104.64	Annotatio Initial Hydro Open To F Shut-In(1) End Shut-Ir	on o-static low (1) n(1) low (2) n(2)
Present Diagonal diagonal dia	W. Time	(Min.) 0 2 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05 62.16 1086.74	Temp (deg F) 97.11 96.39 103.95 104.99 104.64 109.83 109.77 109.95	Annotatic Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In Final Hydro	on o-static low (1) n(1) low (2) n(2)
	ETY	(Min.) 0 2 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05 62.16 1086.74	Temp (deg F) 97.11 96.39 103.95 104.99 104.64 109.83 109.77 109.95	Annotatic Open To FI Shut-In(1) End Shut-Ir Open To F Shut-In(2) End Shut-In Final Hydro	on o-static low (1) n(1) low (2) n(2)
Prosecution Processor	ETY. Time	(Min.) 0 2 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05 62.16 1086.74	Temp (deg F) 97.11 96.39 103.95 104.99 104.64 109.83 109.77 109.95	Annotatic Open To FI Shut-In(1) End Shut-Ir Open To F Shut-In(2) End Shut-In Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static
Prosecu Provenue Provene	ETY. Time	(Min.) 0 2 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05 62.16 1086.74	Temp (deg F) 97.11 96.39 103.95 104.99 104.64 109.83 109.77 109.95	Annotatic Open To FI Shut-In(1) End Shut-Ir Open To F Shut-In(2) End Shut-In Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static
Prosecution Processor	ery Volume (bbl)	(Min.) 0 2 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05 62.16 1086.74	Temp (deg F) 97.11 96.39 103.95 104.99 104.64 109.83 109.77 109.95	Annotatic Open To FI Shut-In(1) End Shut-Ir Open To F Shut-In(2) End Shut-In Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static
Prosecution Processor	ery Volume (bbl)	(Min.) 0 2 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05 62.16 1086.74	Temp (deg F) 97.11 96.39 103.95 104.99 104.64 109.83 109.77 109.95	Annotatic Open To FI Shut-In(1) End Shut-Ir Open To F Shut-In(2) End Shut-In Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static
Prosecution Processor	ery Volume (bbl)	(Min.) 0 2 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pressure (psig) 1705.49 15.20 35.36 1088.31 38.05 62.16 1086.74	Temp (deg F) 97.11 96.39 103.95 104.99 104.64 109.83 109.77 109.95	Annotatic Open To FI Shut-In(1) End Shut-Ir Open To F Shut-In(2) End Shut-In Final Hydro	on o-static low (1) n(1) low (2) n(2) o-static

17 Yr.		DRI	LL STEM TEST REPOR	RΤ.		FLUID SUMMAR
	RILOBITE		etroieum Inc	23-19s-11	w Barton,KS	5
	ESTING , INC			Panning	#6	
		Great I	3end KS 67530	Job Ticket:	55455	DST#:3
		ATTN:	Ed Nemnich/Jim Musgr	Test Start: 3	2013.11.30 @ 2	23:41:14
lud and Cu	Ishion Information					
lud Type: Ge			Cushion Type:		Oil A Pl:	deg API
lud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	: ppm
iscosity:	51.00 sec/qt		Cushion Volume:	bbl		
/ater Loss:	8.79 in ³		Gas Cushion Type:			
esistivity:	ohm.m		Gas Cushion Pressure:	psig		
alinity: ilter Cake:	6000.00 ppm 1.00 inches					
ecovery In	formation					
			Recovery Table		_	
	Leng ft	th	Description	Volume bbl		
		130.00	GO 10% gas, 90% Oil	1.82	4	
		0.00	630' of GIP	0.00	0	
	Total Length:	130	0.00 ft Total Volume: 1.824 bb	lc		
	Num Fluid Samp		Num Gas Bombs: 0	Serial #	# :	
	Laboratory Nan		Laboratory Location:			
	Recovery Com	ments:				



Pinted: 2013.12.04 @ 10:10:39

Ref. No: 55455

Triobie Testing, Inc

Anhydrite @	DST #3 Info - Foot	DST #1 Info - Foot:	*Please note that this i	Footage Cost Daywork Cost	Non-Billable Hrs.	Trip Time (NB) Lost Circulation (< 2 hrs) Lay Down Kelly / RH	Rig Check	Jet/Displace	Rig Repair	Drill Plug Circulate / Trip (Surfa	Wait on Cement (if NC) Drill Rat Hole (<.75 hrs)	Rig Up / Rig Down	Billable Hours	Nipple Down / Jet Ce Set Slips	Run Casing / Cement		Testing Clean Floor	Tool	Trip Circulate	Rat Hole (>.75 Hrs) Wait on Cement		Drilling (Rotating) Hours	RPM Pump Pressure	Weight on Bit (WOB)	Bit Cumulative Hours	Bit Size Bit Hours	Bit #2 Bit Make / Type	Bit Hours	Bit Make / Type Bit Size	Water Loss (cc) Bit #1	Vis (Funnel)	Mud Cost	Survey (degree & depth)	Fuel Used	Formation (7:00am)	Ft. Per Hr.	Total Depth (7:00am) Daily Progress	2011/25/2013 @ 6:00 PM	7:00 A.M. Depth.	and the	No.	Contract)		
	Footage Interval: 3334' - 3346' Recovery: 630' Gas in Pi 150' Clean Oi	Footage Interval: 3166' - 3250' Recovery: 186' Gas in Pi 62' Oil Cut M	st" is is estimat			hrs)				ice)	rs) (C)			llar								lours		3)	3								epth)		7:00am)		-	:00 PM	. Depth:		Inc.	-d		County:	
	e Interval: 3334' - 3346' Recovery: 630' Gas in Pipe 150' Clean Oil	: 3166' - 3250' : 186' Gas in Pipe 62' Oil Cut Mud		5,348.00 2,450.00			C2.0	0.25	1 50	1.00	0.50	10.50	7.00		2.00					5.00		3.00	100 450	20,000	3.00			3.00	JZ Tooth ReTip		40	\$0.00	1/4° @ 382'	177.93	Surface	127.33	382	11/25/13 Day 1	3425"					Barton 15-009-25900-00-00	23-19S-11W
	"Arbuckle"	"Kansas City"	\$ 19,362.00 work cost only					0.50	0.75	0.50			3.00							3.00		16.00	90 90	32,000	16.00	7 7/8	JZ HA20Q				28	\$0.00		290.86	Surface	81.75	382	Day 2	440040					Ē	
Displaced @			\$ 12,880.00 Additional ch					1.50	0.25				0.00								Daywo	19.75	800	35,000	19.75	7 7/8	JZ HA20Q				29	\$0.00		374.03	Sand / Shale	46.58	1690 920	Day 3	440740	Rotar		P		<u>N</u>	
2519' - 2582'	DST #4 Info - Fi	DST #2 Info - Fi	arges will apply	\$ 7,196.00 \$ 1,137.50					1 50				3.25						3.25		Daywork Hrs. (Operator's time)	19.25	80	35,000	19.25	7 7/8	JZ HA20Q			0.0	51	\$5,872.95	personance in a page is a star bog	386.05	Shale	26.70	2610	Day 4	4400400	Rotary Total Depth: 3425' Log Total Depth: 3426'		Production Info:		Conductor: Surface Casino:	Est. TD:
	Footage Interval: Recovery:	Footage Interval: Recovery:	on invoice (fuel	69 (S)	0./5				0 75				3.25 14.50				2.75	1.00	7.00		tor's time)	8.75	800	35,000	8.75	7 7/8	JZ HA20Q			1.2	54	\$0.00	1° @ 3250'	316.48	Lansing / KC	20.11	3124 176	Day 5	7:00	1.1.1.1.1.1.1	#C41991), job c	Ran 84 joints o sacks of 60/40	60/40 Poz, 2% gel, 3% cc, cen down @ 2:00 am on 11.26.13.	N/A Ran 9 ioints of	3500'
		3276' - 3336' : 60' Gas in Pipe 20' Oil Cut Mud	6	\$ 644.00 \$ 7,875.00	e								22.50				4.50	1.50	9.75			1.50	75	35,000	1.50	7 7/8	JZ HA20Q			0.0	48	\$0.00		274.68	Kansas City	30.67	3300	Day 6	A.M. Curren		omplete @ 9:00	f new 15.5#, 5 1/ Poz, 2% gel, 18%	60/40 Poz, 2% gel, 3% cc, cement circulated, down @ 2:00 am on 11.26.13.	new 23#. 8 5/8" .	
		"Arbuckle"	s 7,906 er transfer pu	\$ 994 \$ 6,912	1.50	0.75	0.20	0.50				1	19.75	cc	1.25	5.00	0.25	0.25	4.50			2.75	800	35,000	2.75	7 7/8	JZ HA20Q				58	\$415.90	1 1/2° @ 3425'	181.90	Arbuckle	28.73	3346 79	Day 7	7:00 A.M. Current Operation:	Geologist:	am on 12.02.13.	2" casing, Tally (salt, 5# Gilsonif	nt circulated, by	casing. Tally @ 3	Southwi
				4.00 \$ - 1,050.00	13.00							13.00	3.00	0.50	2.00							0.00			0.00							\$0.00		45.08	Arbuckle	0.00	3425	Day 8	TEAR DOWN	A STATE OF A STATE OF A		@ 3415', Set @ 3 e, cemented by	Copeland (Ticke	72'. Set @ 382'. I	nd Drilling Offic
			4	\$ 47,838.00 \$ 25,550.00		0.00	0.00	2.75	9.50	0.50	0.00	23.50	73.00	0.50	5.25	5.00	0.25	2.75	21.25	8.00		71.00			71.00	68.00		3.00				\$6,288.85		2046.99		48.24	3425	Total	Ň			Ran 84 joints of new 15.5#, 5 1/2" casing, Tally @ 3415', Set @ 3415', used 200 sacks of 60/40 Poz, 2% gel, 18% salt, 5# Gilsonite, cemented by Copeland (Ticket	by Copeland (Ticket #41959), plug	used 300 sacks of	Southwind Drilling Office 620 564-3800

MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.