Confidentiality Requested: Yes No

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

1244651

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 North / South Line of Section
City: State: Zip:+	Feet from Cast / 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:
□ Gas □ DaA □ ENHA □ SIGW □ 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 disposal if hauled offsite:
ENHR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R East West
Spud Date or Date Reached TD Completion Date or Recompletion Date 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	1244651
Operator Name:	Lease Name:	Well #:
Sec TwpS. R	County:	

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

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

Drill Stem Tests Taken		Yes No	<u></u> ι	.og Formatio	on (Top), Depth an	d Datum	Sample
(Attach Additional She Samples Sent to Geolog	,	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-	RECORD Ne		on, 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	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment of	on this well?		Yes	No (If No, skip	o questions 2 an	d 3)
Does the volume of the tota	I base fluid of the hvd	raulic fracturing treatment ex	ceed 350 000 gallons	? Yes	 No (If No skir	auestion 3)	

Was

Vas the hydraulic fracturing tr	eatment information s	submitted	I to the chemical disclosure	registry?	Yes	No (If N	o, fill out Page Three of the A	CO-1)
Shots Per Foot			RD - Bridge Plugs Set/Typ Each Interval Perforated	e	Acid, I	Fracture, Shot, Ce (Amount and Kind	ment Squeeze Record of Material Used)	Depth
TUBING RECORD:	Size:	Set At:	Packer	r At:	Liner Run:	Yes	No	
Date of First, Resumed Prod	uction, SWD or ENHI	٦.	Producing Method:	ping	Gas Lift			
Estimated Production Per 24 Hours	Oil Bb	ols.	Gas Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION C	F GAS:		METHOD	OF COMPLE	TION:		PRODUCTION INTE	RVAL:
Vented Sold	Used on Lease		Dpen Hole Perf.		Comp.	Commingled Submit ACO-4)		
(If vented, Submit A	NCO-18.)		Other (Specify)					

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

GLOBAL CEMENTING, L.L.C.

1615

REMIT TO	18048 170F	SD.			10	RVICE POINT:	· .	•	
	RUSSELL,					_ TUS	ELCIKS		/
	,				· ·	<u></u>			
	SEC.	TWP.	RANGE	CA	LLED OUT	ON LOCATION	JOB START	JOB FINIS	SH
DATE 2-24-2	05			!		<u> </u>	COLMENY	STATE	
EASEJUNCEM		AH2	LOCATION				NONTON	KS	tan s
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old or (NEW) (CIRCLE ONE)	· · ·		<u> </u>				· .	
CONTRACTOR	luce K	, 			OWNER			·	
	MEACE	-MAGH-1			OWNER		· · · ·		
IOLE SIZE 171		. т	.D.		CEMENT	_			
ASING SIZE $\sqrt{2}$	/		DEPTH 209.10	•	AMOUNT OF	DERED 150	SY CON	1 .	
UBING SIZE	<i></i>		DEPTH		11100111 01	3% - C	12% GE	ن	
RILL PIPE		Γ	DEPTH	······································			/ -		
OOL	`	<u> </u>	DEPTH					•	
RES. MAX	·		AINIMUM		COMMON_	· · · · · · · · · · · · · · · · · · ·	@	· _ · ·	
AEAS. LINE		S	SHOE JOINT		POZMIX	·	_ @		<u> </u>
CEMENT LEFT IN (ر SG. کر CSG.		· · ·		GEL		_ @		
ERFS			<u></u>		CHLORIDE _			<u> </u>	
ISPLACEMENT	12 BBC .	· · · · · · · · · · · ·			ASC				•
part in the second	EQUIPM	1ENT			<u> </u>		_ @		• • •
IB (B TBLICY	CELADATAT						_ @		
UMP TRUCK	CEMENTER	BAHD		<u> </u>			_ @		
ULK, TRUCK	HELPER K	1 AWDON		·			_ @	,	
K U	DRIVER	ASON			· · · · · · · · · · · · · · · · · · ·				
ULK TRUCK	DRIVIER	nsor		·					
OLK INDER							(w,		
	DRIVER				· · ·		·		
<u>+</u>	DRIVER				HANDING		_ @		
Ring and a		ARKS:			HANDLING MILEAGE		·	L	· · · · · · · · · · · · · · · · · · ·
WITH 12B	REN SJT <u>5 5</u> 47 <u>6</u> MU SX - WA SX - WA	Sty CAS	UPCEMENT + DISPCAC	r -		DB	_ @ _ @	L	· · · · · · · · · · · · · · · · · · ·
& CIRCUL	REN SJT <u>5 5</u> 47 <u>6</u> MU SX - WA SX - WA	<u>518 CAS</u> 0- HOOK 454 UP 5407	+ DISPLAC	r -	MILEAGE DEPTH OF JO	DB X CHARGE FAGE	- @	L	· · · · · · · · · · · · · · · · · · ·
A CIRCULI MIX 150 WITH 128	REN SJT <u>5 5</u> 47 <u>6</u> MU SX - WA SX - WA	<u>518 CAS</u> 0- HOOK 454 UP 5407	+ DISPLAC	r -	MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	DB CHARGE AGE AGE	- @ TOTA RVICE - @ - @	L	· · · · · · · · · · · · · · · · · · ·
A CIRCULI MIY 150 WITH 128	REN SJT <u>5 5</u> 47 <u>6</u> MU SX - WA SX - WA	<u>518 CAS</u> 0- HOOK 454 UP 5407	+ DISPLAC	r -	MILEAGE DEPTH OF JC PUMP TRUC EXTRA FOO	DB CHARGE AGE AGE	- @ TOTA RVICE - @ - @ - @	L	· · · · · · · · · · · · · · · · · · ·
T CIRCULI MIY 150 WITH 12 B CEMENT P	REN 5J75 85 47E MU 5X - W2 5X - W2 62 1/20 WA CIRC	9/8 CAS 0- HOOK 454 DP 540T ULATE	UP CEMENT + DISPEAL INI C 200	r -	MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	DB CHARGE AGE AGE	- @ TOTA RVICE - @ - @ - @ - @		
A CIRCULI MIY 150 WITH 12 B CEMENT P	REN 5J75 85 47E MU 5X - W2 5X - W2 62 1/20 WA CIRC	9/8 CAS 0- HOOK 454 DP 540T ULATE	UP CEMENT + DISPEAL INI C 200	r -	MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	DB CHARGE AGE AGE	- @ TOTA RVICE - @ - @ - @		
T CIRCULA MIY 150 WITH 12 BI CEMENT P	REN 5J75 85 47E MU 5X - W2 5X - W2 62 1/20 WA CIRC	9/8 CAS 0- HOOK 454 DP 540T ULATE	UP CEMENT + DISPEAL INI C 200	r -	MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	DB CHARGE AGE AGE	- @ TOTA RVICE - @ - @ - @ - @		
$\frac{4}{MIY} \frac{CIRCULA}{MIY} \frac{150}{150}$ $\frac{1174}{CEMENT} \frac{12}{P}$ CHARGE TO:	REN SJTS B ATE MU SX - WE BL 1120 VD CIRC	9/8 CAS 0- HOOK 254 DP SHOT UCATE RESOU	VPCEMENT + DISPLACE INCO 200	r -	MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	DB CHARGE AGE AGE	- @ TOTA RVICE - @ - @ - @ - @ - @ - @		
$\frac{4}{MIY} \frac{CIRCULA}{MIY} \frac{150}{150}$ $\frac{1174}{CEMENT} \frac{12}{P}$ CHARGE TO:	REN 5J75 85 47E MU 5X - W2 5X - W2 62 1/20 WA CIRC	9/8 CAS 0- HOOK 454 DP 5HOT UCATE RESOU	VPCEMENT + DISPLACE INCO 200	r -	MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	DB CHARGE TAGE 2 (c	- @ TOTA RVICE - @ - @ - @ - @ - @ - @ - @ - @ - @ 		
$\frac{1}{1} \frac{CIRCULA}{MIYI50}$ $\frac{MIYI50}{CEMENTP}$ $CEMENTP$ $TREET.$	REN SJTS B ATE MU SX - WE BL 1120 VD CIRC	9/8 CAS 0- HOOK 454 DP 5HOT UCATE RESOU	VPCEMENT + DISPLACE INCO 200	r -	MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	DB CHARGE TAGE 2 (c	- @ TOTA RVICE - @ - @ - @ - @ - @ - @		
$\frac{1}{1} \frac{CRCULA}{MIYI50}$ $\frac{MIYI50}{CEMEDTP}$ $\frac{CEMEDTP}{CEMEDTP}$ $\frac{CEMEDTP}{CEMEDTP}$ $\frac{CEMEDTP}{CEMEDTP}$ $\frac{CEMEDTP}{CEMEDTP}$	REN SJTS S ATE MU SX - WL SX - WL SX - WL STATE-	9/8 CAS 0- HOOK 454 DP 5HOT UCATE RESOU	VPCEMENT + DISPLACE INCO 200	r -	MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	PLUG & FLC	- @ TOTA RVICE - @ - @	 L NT	
$\frac{1}{MIY} \frac{1}{12} \frac{1}{50}$ $\frac{MIY}{12} \frac{1}{12} \frac{1}{$	REN $5 JT_5 85$ $4TE MU 5\times - W24\times 1/20Ma CIRC Ma CIRCMa CIRCMa CIRC$	9/4 CAS 0- HOOK 454 DP 540T ULATE RESOU	UP CEMENT + DISPEAC INI C 200 ICES IP		MILEAGE DEPTH OF JO PUMP TRUC EXTRA FOO MILEAGE	PB CHARGE TAGE SC PLUG & FLC	- @ RVICE - @ - @	L	
T CIRCULA MIX ISO MIX ISO CEMENT P CEMENT P CEMENT P TREET TREET TREET TTY	REN $5 JT_5 SS$ 4TE MU $5x - W25x -$	$\frac{3/3}{6} CAS}{6} CAS}$ $\frac{3/3}{6} CAS} OP$	$\frac{PCENEW}{POSPEAC}$ $\frac{POSPEAC}{DOS}$ $\frac{PCES}{DP}$ enting equipment	and	MILEAGE DEPTH OF J PUMP TRUC EXTRA FOO MILEAGE MANIFOLD	DB CHARGE TAGE 26 PLUG & FLO	- @ - @ TOTA RVICE - @ - @	 L NT	
T <u>CIRCULA</u> <u>MIY 150</u> <u>MIY 12</u> <u>CEMENT P</u> <u>CEMENT </u>	REN $5 J \tau_5 S S$ $4 \tau_E M u_2$ $5 \times - W 2$ $5 \times$	$\frac{3/3}{6} \frac{CAS}{CAS}$ $\frac{3/3}{6} \frac{CAS}{CAS}$ $\frac{1}{2} \frac{CAS}{CAS}$ $\frac{CAS}{CAS}$	$\frac{PCES}{P}$	and or to	MILEAGE DEPTH OF JC PUMP TRUC EXTRA FOO MILEAGE MANIFOLD	DB CHARGE AGE JG PLUG & FLO	- @ - @ TOTA RVICE - @ - @	 L NT	
T <u>CIRCULA</u> <u>MIY 150</u> <u>JITH 12</u> <u>CEMENT D</u> <u>CEMENT D</u> <u>CEMENT</u>	REN $5 J \tau_5 S$ $4 \tau_E M u_2$ $5 \times - W/2$ $4 \times 1/20$ VA CIEC VA CIEC TATE- ng, L.L.C., requested to and helper(ted. The abo	$\frac{3/3}{2} CAS}{2} CAS}$ $\frac{2}{2} CAS} CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS$	$\frac{PCES}{PCES}$	and pr to ction	MILEAGE DEPTH OF JC PUMP TRUC EXTRA FOO MILEAGE MANIFOLD	DB CHARGE TAGE 26 PLUG & FLO	- @ - @ TOTA RVICE - @ - @	 L NT	
TREET TREET Global Cementin You are hereby urnish cementer lo work as is lis and supervision	REN $5 J \tau_5 S$ $4 \tau_E M u_2$ $5 \times - W/2$ $4 \times 1/20$ VA CIEC VA CIEC VA CIEC TE = TE = T	$\frac{3/3}{2} CAS}{2} CAS}$ $\frac{2}{2} CAS} CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS$	$\frac{PCES}{PCES}$	and pr to ction and	MILEAGE DEPTH OF JC PUMP TRUC EXTRA FOO MILEAGE MANIFOLD	DB CHARGE AGE JG PLUG & FLO	- @ - @ TOTA RVICE - @ - @	 L NT	
TREET TREET Constant CEMENT	REN $5 J \tau_5 S$ $4 \tau_E M g$ $5 \times - W 2$ $4 \times - W 2$ $5 \times - W 2$	$\frac{3/3}{2} CAS}{2} CAS}$ $\frac{2}{2} CAS} CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS$	$\frac{PCES}{PCES}$	and pr to ction and	MILEAGE DEPTH OF JC PUMP TRUC EXTRA FOO MILEAGE MANIFOLD	DB CHARGE AGE JG PLUG & FLO	- @		
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T CIRCULA MIY ISO WITH 12 B CEMENT P CEMENT P CEMEN	REN $5 J \tau_5 S$ $4 \tau_E M g$ $5 \times - W 2$ $4 \times - W 2$ $5 \times - W 2$	$\frac{3/3}{2} CAS}{2} CAS}$ $\frac{2}{2} CAS} CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS$	$\frac{PCES}{PCES}$	and pr to ction and	MILEAGE	DB CHARGE TAGE SC PLUG & FLC	- @		
T CIRCULA MIY 150 WITH 12 Bi CEMEINT D CEMEINT D STREET CITY Global Cementin You are hereby furnish cementer do work as is lis and supervision understand the listed on the reve	REN $5 J \tau_5 S$ $4 \tau_E M g$ $5 \times - W 2$ $4 \times - W 2$ $5 \times - W 2$	$\frac{3/3}{2} CAS}{2} CAS}$ $\frac{2}{2} CAS} CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS$	$\frac{PCES}{PCES}$	and pr to ction and	MILEAGE)B CHARGE TAGE TGGE PLUG & FLC	- @		
CHARGE TO: Global Cementin You are hereby furnish cementer do work as is lis and supervision	REN $5 J \tau_5 S$ $4 \tau_E M g$ $5 \times - W 2$ $4 \times - W 2$ $5 \times - W 2$	$\frac{3/3}{2} CAS}{2} CAS}$ $\frac{2}{2} CAS} CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS$	$\frac{PCES}{PCES}$	and pr to ction and	MILEAGE	DB CHARGE TAGE SC PLUG & FLC	- @		·
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GLOBAL CEMENTING, L.L.C.

1617

REMIT TO	18048 170R RUSSELL,			معجران	SE.	RVICE POINT:	ILIKS	
DATE -1-2	SEC.	TWP.	RANGE	CAL	LED OUT	ON LOCATION	JOB START	JOB FINISH
1	FNINE WELL #.	Attz	LOCATION	-	·		COUNTY	STATE
			LOCATION				Norrain	KS
OLD OR NEW	(CIRCLE ONE)			· • • •	• • •			
CONTRACTOR	WHITE KN	1647			OWNER		· .	
	Ry Have P			_		· · · · · · · · · · · · · · · · · · ·		
HOLE SIZE 77 CASING SIZE 8			.D. DEPTH	<u> </u>	CEMENT	0		1
TUBING SIZE	-73		DEPTH	-	AMOUNT OR	DERED	105× 6	0/40 POZ
DRILL PIPE		·	DEPTH	-		· · · · · · · · · · · · · · · · · · ·	GAL RY	<i>ALU</i>
TOOL			DEPTH			<u> </u>		· · · · · · · · · · · · · · · · · · ·
PRES. MAX			AINIMUM	- «·				
MEAS. LINE			HOE JOINT	-	COMMON		@	<u> </u>
CEMENT LEFT D	N CSG.				POZMIX GEL		@	
PERFS				- .			@	
DISPLACEMENT		1			ASC		@	
	EQUIPME	NT		-	ABC		@	
		a a se a			· .		@	
PUMP TRUCK	CEMENTER	SEAD		- -	<u> </u>		@	
<u># /91</u>	HELPER Brig	NOON		-			@	-
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<u># 81.</u>	DRIVER / MA	ma	······	_		:	@	
BULK TRUCK							@	
#	DRIVER	· · · · · ·			<u> </u>		@	
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<u>.</u>		. <u>.</u>			MANIFOLD		@	
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• 1							@	
CHARGE TO: C	ASTLE RES.	0000651			-	· · ·	<i>w</i>	· · · · · · · · · · · · · · · · · · ·
STREET							TOTAL	· · · · ·
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						PLUG & FLOA	I EQUIPMEN	T ·
Clabel Coment			· · · · · ·			· · ·		· •
Global Cementin	ng, L.L.C.,						@	
four are nereby	requested to p	tent cemer	nting equipment and			· · · · · · · · · · · · · · · · · · ·	@	
do work as is lie	and neiper(s)	to assist o	wher or contractor to		·	· ·	@,	<u> </u>
and supervision	of our accord	work wa	s done to satisfaction		·	· · · · · · · · · · · · · · · · · · ·	@	·
understand the	"CENED AT "	TOME A	ctor. I have read and ND CONDITIONS"	÷ .		·····	@	
listed on the rev	erse side	LAND A	ND CONDITIONS"					
	\cap	~3	· · · · ·				TOTAL	
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PRINTED NAME _	120751	<u> </u>	192 411		SALES TAX (If.	Any)		·
SIGNATURE		i			TOTAL CHARG			
	3			•	DISCOUNT			
							II	PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: Castle Resources, Inc.

PO Box 87 Schoenchen, KS 67667

ATTN: Jerry Green

Juenemann A #2

32-3s-24w Norton,KS

2015.02.28 @ 22:34:00 Start Date:

End Date: 2015.03.01 @ 06:34:50 Job Ticket #: 62457 DST #: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

TRILOBITE	DRILL STEM TES	T REP	ORT	· · ·	
	Castle Resources, Inc.		32-3s-24w	Norton,KS	
ESTING , INC	PO Box 87 Schoenchen, KS 67667		Juenemar Job Ticket: 6		'#: 1
	ATTN: Jerry Green		Test Start: 24	015.02.28 @ 22:34:0	0
GENERAL INFORMATION:					<u></u>
Formation:ReaganDeviated:NoWhipstock:Time Tool Opened:01:45:20Time Test Ended:06:34:50	ft (KB)		Tester:	Conventional Bottom Phillip Gage 77	Hole (Initial)
Intervai:3613.00 ft (KB) To37Total Depth:3724.00 ft (KB) (TvHole Diameter:7.88 inchesHole	′D)		Reference B	2394.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8898 Outside Press@RunDepth: 633.80 psig 6 Start Date: 2015.02.28 Start Time: 22:34:01 TEST COMMENT: 30-IF-BOB in 2 m 30-IF-BOB in 3 m 30-FF-BOB in 3 m 30-FSI-No Return	End Date: End Time: ins. ow in 6 mins, died 11 mins later nins	2015.03.01 06:34:50		8000. 2015.03. 2015.03.01 @ 01:44 2015.03.01 @ 03:45	:50
Pressure vs. Ti			PRESSU	RE SUMMARY	
	Troppedan Troppedan	Time (Min.) 0 1 30 60 60 90 120 121	Pressure (psig) Temp (deg F) 1799.79 90.35 77.23 90.21 419.20 106.07 887.67 103.66 442.15 103.46	Annotation Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2)	
Recovery	· · · · · · · · · · · · · · · · · · ·		Ga	s Rates	
Length (ft) Description	Volume (bbl)		Choke ((inches) Pressure (psig)	Gas Rate (Mcf/d)
882.00 VSOMCW, 5%o, 10%m, 8 446.00 MW, with oil spots, 50%n					
Trilobite Testing, Inc	Ref. No: 62457		Printed	: 2015.03.02 @ 09:50	0:57

RILOBITE	Castle Resources, Inc.		32-3s-24\	w Norton,K	S
ESTING, INC	PO Box 87		Juenem	ann A #2	
	Schoenchen, KS 67667		Job Ticket:	62457	DST#:1
	ATTN: Jerry Green		Test Start:	2015.02.28 @	<u></u> 22:34:00
GENERAL INFORMATION:					
Formation: Reagan Deviated: No Whipstock: Fime Tool Opened: 01:45:20 Fime Test Ended: 06:34:50	ft (KB)		Test Type: Tester: Unit No:	Convention Phillip Gage 77	al Bottom Hole (Initial) e
nterval: 3613.00 ft (KB) To 37 Fotal Depth: 3724.00 ft (KB) (Tv Hole Diameter: 7.88 inchesHole	′D)			Elevations: B to GR/CF:	2399.00 ft (KB) 2394.00 ft (CF) 5.00 ft
Serial #:8897InsidePress@RunDepth:psigStart Date:2015.02.28Start Time:22:34:01	 3614.00 ft (KB) End Date: End Time: 	2015.03.01 06:35:10	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2015.03.01
TEST COMMENT: 30-IF-BOB in 2 m 30-ISI-Surface Bl 30-FF-BOB in 3 n 30-FSI-No Return	ow in 6 mins, died 11 mins late nins	r			
30-ISI-Surface B 30-FF-BOB in 3 n	ow in 6 mins, died 11 mins late nins			URE SUMA	
30-ISI-Surface B 30-FF-BOB in 3 n 30-FSI-No Return Pressere vs. 13	ow in 6 mins, died 11 mins late nins	n Time (Min.)	PRESS Pressure Tem (psig) (deg	p Annotat	
30-ISI-Surface Bi 30-FF-BOB in 3 m 30-FSI-No Return	ow in 6 mins, died 11 mins late nins	n Time (Min.)	Pressure Tem	p Annotat	
30-ISI-Surface Bl 30-FF-BOB in 3 n 30-FSI-No Return	ow in 6 mins, died 11 mins late nins	n Time (Min.)	Pressure Tem	p Annotat	
30-ISI-Surface Bl 30-FF-BOB in 3 n 30-FSI-No Return	ow in 6 mins, died 11 mins late nins	Time (Min.)	Pressure Tem	p Annotat	
30-ISI-Surface Bi 30-FF-BOB in 3 m 30-FSI-No Return	ow in 6 mins, died 11 mins late	Time (Min.)	Pressure Tem	p Annotat	
30-ISI-Surface Bi 30-FF-BOB in 3 m 30-FSI-No Return	ow in 6 mins, died 11 mins late	Time (Min.)	Pressure Tem (psig) (deg	p Annotat	
30-ISI-Surface Bi 30-FF-BOB in 3 m 30-FSI-No Return	ow in 6 mins, died 11 mins late nins	Time (Min.)	Pressure Tem (psig) (deg	Annotat F) Gas Rates	
30-ISI-Surface Bl 30-FF-BOB in 3 m 30-FSI-No Return	ow in 6 mins, died 11 mins late inse	Time (Min.)	Pressure Tem (psig) (deg	Annotat F) Gas Rates	ion
30-ISI-Surface Bi 30-FF-BOB in 3 m 30-FSI-No Return	ow in 6 mins, died 11 mins late inse	Time (Min.)	Pressure Tem (psig) (deg	Annotat F) Gas Rates	ion
30-ISI-Surface Bl 30-FF-BOB in 3 m 30-FSI-No Return	ow in 6 mins, died 11 mins late inse	Time (Min.)	Pressure Tem (psig) (deg	Annotat F) Gas Rates	ion

	ITE	DRIL	L STE	MTEST	REPOR	Т	TOOL DIAGRAI
RILOE	·.		esources, In	с.		32-3s-24w Norton	,KS
	'ING , INC	PO Box	87			Juenemann A #2	
			chen, KS 67	667		Job Ticket: 62457	DST#:1
		ATTN:	Jerry Green			Test Start: 2015.02.2	
Tool Information							
							0000 00 %
	3617.00 ft	Diameter: Diameter:		ches Volume: ches Volume:	50.74 bbl 0.00 bbl	Tool Weight: Weight set on Pacl	2000.00 lb
Heavy Wt. Pipe: Length: Drill Collar: Length:		Diameter:		ches Volume:	0.00 bbl	Weight to Puli Loos	
Drai Collar. Lenger.	0.00 1	Diameter.		Total Volume:	50.74 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			rotar volume.	00.14 00.	String Weight: Initi	
Depth to Top Packer:	3613.00 ft					Fina	
Depth to Bottom Packer:	ft						
Interval between Packers:	111.00 ft						
Tool Length: Number of Packers:	131.00 ft 2	Diameter:	6.75 in	chae			
Tool Comments:	2		0.70 10	0103			
roor comments:							
Tool Description	Le	ngth (ft)	Serial No.	Position	Depth (ft) A	ccum. Lengths	
Shut In Tool		5.00			3598.00		
Hydraulic tool		5.00			3603.00		
		5.00 5.00		· .	3603.00 3608.00	20.00	Bottom Of Top Packer
Hydraulic tool Packer Packer				÷ .		20.00	Bottom Of Top Packer
Packer Packer		5.00 5.00			3608.00	20.00	Bottom Of Top Packer
Packer Packer Stubb		5.00 5.00 1.00	8897	Inside	3608.00 3613.00 3614.00	20.00	Bottom Of Top Packer
Packer Packer Stubb Recorder		5.00 5.00 1.00 0.00	8897 8898	Inside Outside	3608.00 3613.00 3614.00 3614.00	20.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder		5.00 5.00 1.00 0.00 0.00	8897 8898	Inside Outside	3608.00 3613.00 3614.00 3614.00 3614.00	20.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations		5.00 5.00 1.00 0.00 0.00 12.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00	20.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub		5.00 5.00 1.00 0.00 0.00 12.00 1.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00	20.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe		5.00 5.00 1.00 0.00 0.00 12.00 1.00 93.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00	20.00	Bottom Of Top Packer
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub		5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub	Length:	5.00 5.00 1.00 0.00 0.00 12.00 1.00 93.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00	20.00	Bottom Of Top Packer Bottom Packers & Anchor
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Fipe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Fipe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Fipe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Fipe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Ripe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		
Packer Packer Stubb Recorder Recorder Perforations Change Over Sub Drill Fipe Change Over Sub Bullnose	Length:	5.00 5.00 1.00 0.00 12.00 1.00 93.00 1.00 3.00			3608.00 3613.00 3614.00 3614.00 3614.00 3626.00 3627.00 3720.00 3721.00		

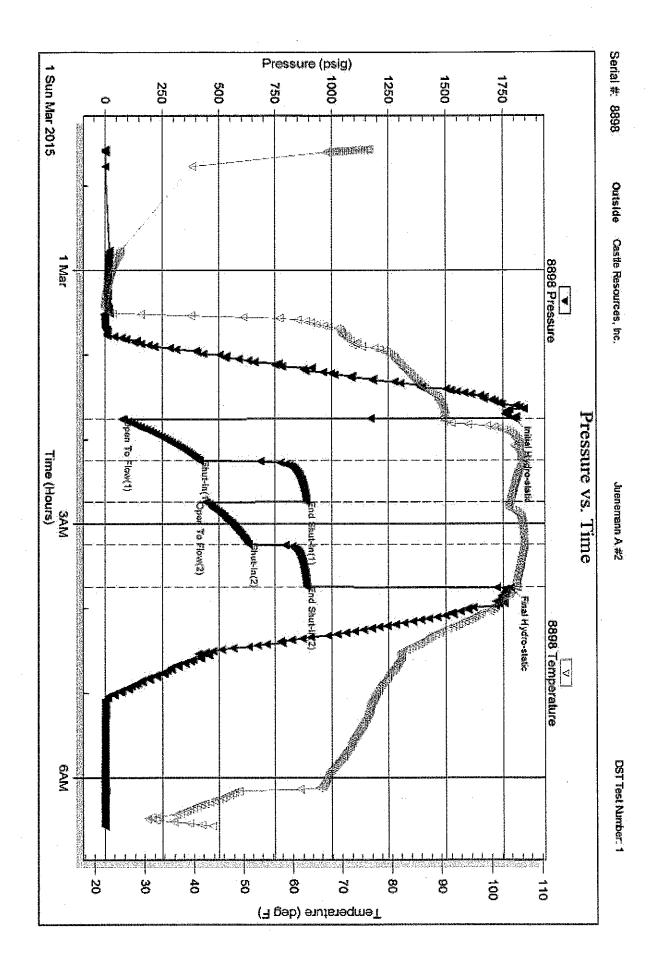
Trilobite Testing, Inc

RILOBIT		ILL STEM TEST	REPORT		F .	LUID SUMMARY
Hard Street Contraction of the		Resources, inc.		32-3s-24w	Norton,KS	
ESTIN	G, INC POBO			Juenema		
	Schoe	enchen, KS 67667		Job Ticket: 6	2457	DST#: 1
	ATTN: Jerry Green			Test Start: 2	015.02.28 @ 22:	34:00
Mud and Cushion Inform	nation					
Mud Type: Gel Chem		Cushion Type:			OII API:	deg API
Mud Weight: 9.00 lb/g		Cushion Length:		ft	Water Salinity:	56000 ppm
Viscosity: 43.00 sec	/qt	Cushion Volume:		bbl		
Water Loss: 8.79 in ³		Gas Cushion Type:				
Resistivity: ohn		Gas Cushion Pressur	e:	psig		
Salinity: 1500.00 ppn Filter Cake: 1.50 inch						
Recovery Information					· · · · · · · · · · · · · · · · · · ·	
r		Recovery Table	······		7	
	Length ft	Description		Volume bbl		
	882.00	VSOMCW, 5%0, 10%m, 85%	ów	12.372	2	
	446.00	MW, with oil spots, 50%m, 5	0%w	6.256	<u>5</u>	
Total I	Length: 1328	8.00 ft Total Volume:	18.628 bbl			
Num F	Fluid Samples: 0	Num Gas Bombs:	0	Serial #	;	
	atory Name:	Laboratory Locati				
Recov	ery Comments: .4	2 @ 10 Degrees = 56000 Salir	iity			
	·					
· · · · · · · · · · · · · · · · · · ·						
						·

Trilobite Testing, inc

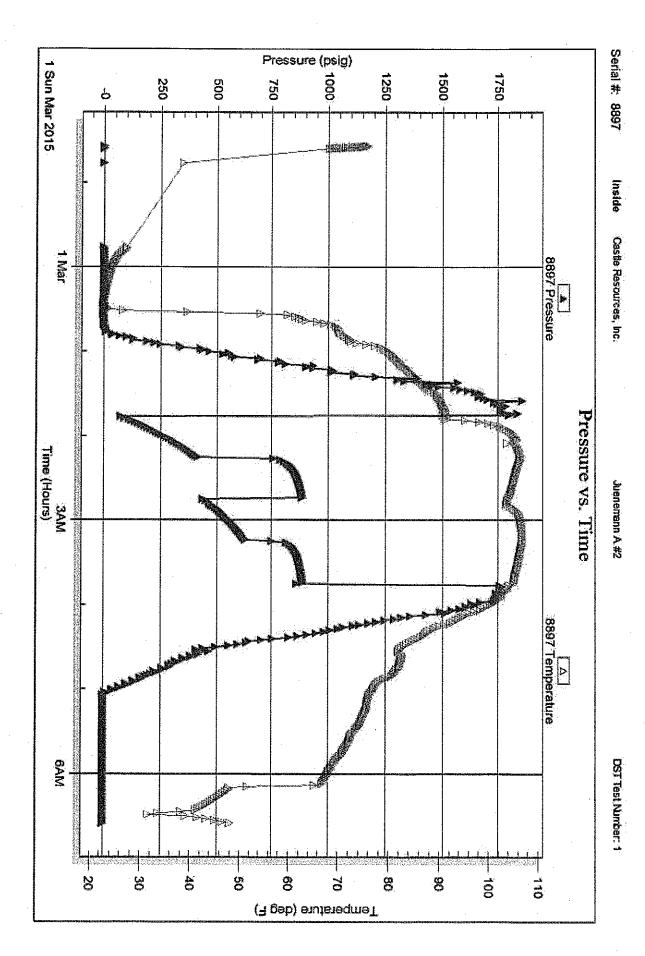
Tribobile Testing, Inc

Ref. No: 62457



Trilobite Testing, Inc

Ref. No: 62457



ATING AND ATING INC.		501	Test NO.	Ticket 62457	
1 64		7667	1 3399 - Kaidet	Date <u>2-28</u> _КВ <u>7394</u>	-/5
Co. Rep / Geo. <u>Jrvvy (breen</u> Location: Sec. <u>32</u> Twp. <u>35</u>	Rge. 24w	HigWhite Co <i>Novi</i> t	- Might	State	65
Interval Tested 36/3 - 3724 Anchor Length 1/1 ¹ Top Packer Depth 3608 Bottom Packer Depth 3613 Total Depth 3724 Blow Description FF- BOB in 2 miles		0	V	Aud Wt. <u>9</u> Ais <u>43</u> VL <u>8,8</u> CM <u>11/2</u> F	
TSI Savface blow @ FF- BUB in 3mile FSI No Return Rec_ 8821 Feet of VSOMCW Rec_ 446 Feet of MW, with oil	Ś	Mihs later %gas %gas	<u>5 %oil</u> %oil	85%water S Ø %water	10 %mud 50 %mud
Rec Feet of	1019	%gas	%0il %0il	<u>%water</u>	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%011	%water	%mud
Rec Total 1528 BHT 104 (A) Initial Hydrostatic 1799 (B) First Initial Flow 77 (C) First Final Flow 419 (D) Initial Shut-In 887 (E) Second Initial Flow 442 (F) Second Final Flow 633 (G) Final Shut-In 868 (H) Final Hydrostatic 1784	Gravity	RT x7	T-On Loc T-Started T-Open_ T-Pulled T-Out (Commer	cation <u>22,27</u> 1 <u>22,34</u> 03,45 03,45 26,35 nts <u>Counded</u> 3-1-15 O	Toulr 18:30
	G Shale Packer			ed Shale Packer ed Packer	
Initial Open <u>30</u>	Extra Packer			eo Packer	
Initial Shut-In_ <u>30</u>	Extra Recorder			l	
Final Flow <u>30</u> Final Shut-In <u>30</u>	Day Standby Accessibility Sub Total			F Disc't	
Approved By	Ou	r Representative	WI. HA Yo	zoi Thank	Yery.

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.