



KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1133772

Form ACO-1

June 2009

**Form Must Be Typed**  
**Form must be Signed**  
**All blanks must be Filled**

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date           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: \_\_\_\_\_

1133772

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 ☐ Yes ☐ No  
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No

Electric Log Run ☐ Yes ☐ No

Electric Log Submitted Electronically ☐ Yes ☐ No  
(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample  
Name Top Datum

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 / SQUEEZE RECORD

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

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)	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# Quality Well Service, Inc.

324 Simpson St.  
Pratt, KS 67124

## Invoice

Date	Invoice #
1/28/2013	C-765

Bill To
Castle Resources Inc. P.O. Box 87 Schoenchen, KS 67667

6120  
Joan  
Surface Cement

P.O. No.	Terms	Lease Name
	Net	Joan #1

Description	Qty	Rate	Amount
Common	225	15.50	3,487.50T
Gel	4	20.50	82.00T
Calcium	8	53.00	424.00T
SFC 0-500'	1	600.00	600.00
Handling	237	2.10	497.70
.08 * sacks * miles	8,100	0.08	648.00
LMV	36	2.00	72.00
Pump Truck Mileage	36	8.00	288.00
Discount	399.35	-1.00	-399.35T
Discount	210.57	-1.00	-210.57
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Joan #1			
Rush Co.			
Thank You for your business!		<b>Subtotal</b>	\$5,489.28
		<b>Sales Tax (6.3%)</b>	\$226.43
		<b>Total</b>	\$5,715.71

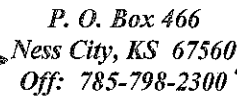
PO  
3-4-B  
CIV 11/15

## 5818

**Home Office 324 Simpson St., Pratt, KS 67124**

**Rich's Cell 620-727-3409**  
**Brady's Cell 620-727-6964**

Taylor Printing, Inc.



A black and white illustration of a fox in a running pose, facing left. The fox has a bushy tail and is depicted with simple lines and some shading to suggest fur texture.

DATE	INVOICE #
2/20/2013	23929

BILL TO

Castle Resources Inc.  
PO Box 87  
Schoenchen, KS 67667

- Acidizing
- Cement
- Tool Rental

18/204  
ban  
cement  
port collar

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Joan	Pawnee		Oil	Development	4-1/2" Port Collar	Josh
PRICE REF.		DESCRIPTION			QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way			45	Miles	6.00	270.00	
576D-D	Pump Charge - Port Collar			1	Job	1,250.00	1,250.00	
290	D-Air			2	Gallon(s)	35.00	70.00T	
330	Swift Multi-Density Standard (MIDCON II)			165	Sacks	16.50	2,722.50T	
276	Flocele			50	Lb(s)	2.00	100.00T	
104	Port Collar Tool Rental			1	Each	250.00	250.00T	
581D	Service Charge Cement			200	Sacks	2.00	400.00	
583D	Drayage			448.2	Ton Miles	1.00	448.20	
Subtotal							5,510.70	
Sales Tax Pawnee County						8.30%	260.83	
<div>Pd 3-13-13 CL# 16510</div>								
We Appreciate Your Business!						Total	\$5,771.53	



Services, Inc.

CHARGE TO: Cashie Reservoirs  
ADDRESS  
CITY, STATE, ZIP CODE

TICKET  
Nº 23929

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Hugs</u>	1	<u>Joan</u>	<u>Parquet</u>	<u>KS</u>		<u>2-20-13</u>	
2. <u>Ness City</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>0:1</u>	WELL CATEGORY <u>Develop</u>	JOB PURPOSE <u>4 1/2 Port Collar</u>	WELL PERMIT NO.	WELL LOCATION <u>Assi Centre 105 300 Suro</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QUANTITY				UNIT	PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M			
575		1			MILEAGE # 112	45	m.			6	00	270 00
5760		1			Pump Charge Port Collar	1	ea			1250	00	1250 00
240		1			0 Air	2	gal			35	00	70 00
330		2			Surf. Multis Density	165	SKS			16	50	2722 50
276		2			Pocole	50	lbs			2	00	100 00
104		2			Port Collar Tool Rental	1	ea			250	00	250 00
581		2			Service Charge Cement	200	SKS			2	00	400 00
583		2			Damage	448	20	7M		1	00	448 20

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 2-20-13 TIME SIGNED 09:00 ☐ A.M. ☐ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

SURVEY	AGREE	UN- DECIDED	DIS- AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 5510 70  
TAX 260 83  
TOTAL 5771 53

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR

APPROVAL

Thank You!

## JOB LOG

SWIFT Services, Inc.

DATE 2-20-13 PAGE NO.

 CUSTOMER Castle WELL NO. 1 LEASE Joan JOB TYPE 4 1/2 Port Collar TICKET NO. 23929

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on location
								PC @ 1265
								2 3/8 x 4 1/2 10.5"
	1000				✓		1000	Pressure Test
								open Port Collar
		3			✓		300	Injection Rate
	1015	4	80		✓		500	Start Cement
		4	5		✓		500	Bring weight up
		4	4		✓			Displace
	1045				✓		1000	close Port collar
								Run 5 joints
			20		✓			Reverse out Clean
								Wash up Back up
	1200							Job Complete Thank You Josh, Bryan, Rob.
								165 SKS total 20 SKS to pit



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300

# Invoice

DATE	INVOICE #
2/18/2013	23819

BILL TO
Castle Resources Inc. PO Box 87 Schoenchen, KS 67667

181204  
Joan  
Cement 4 1/2" • Acidizing  
Casing • Cement  
Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Joan	Pawnee	White Knight #1	Oil	Development	Cement 4-1/2" L...	David
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				45	Miles	6.00	270.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
402-4	4 1/2" Centralizer				5	Each	65.00	325.00T
403-4	4 1/2" Cement Basket				1	Each	250.00	250.00T
406-4	4 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-4	4 1/2" Insert Float Shoe With Auto Fill				1	Each	300.00	300.00T
404-4	4 1/2" Port Collar				1	Each	2,400.00	2,400.00T
325	Standard Cement				200	Sacks	13.50	2,700.00T
284	Calseal				10	Sack(s)	35.00	350.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
286	Halad-1 (Halad 9)				100	Lb(s)	7.50	750.00T
276	Flocele				50	Lb(s)	2.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
581D	Service Charge Cement				200	Sacks	2.00	400.00
583D	Drayage				471.38	Ton Miles	1.00	471.38
Subtotal								10,986.38
Sales Tax Pawnee County							8.30%	692.64
We Appreciate Your Business!						Total	\$11,679.02	

PO  
13-13-13  
CL# 116510





Services, Inc.

CHARGE TO: Castle Resources

ADDRESS

CITY, STATE, ZIP CODE

TICKET  
Nº 23819

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Ness City KS	#1	Team	Passare	KS	Rush Center	2-18-13	Sierra
2.	TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE	White Knight	#1	65	Location		
4. REFERRAL LOCATION	WELL CATEGORY	Development	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
	INVOICE INSTRUCTIONS		Cement 4 1/2" Longstring		Rush Center KS - 10S, 3W, 5th		

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE			45 m.	6.00	270.00
578		1			Pump Charge - Long String	1	job		1500.00	1500.00
402		1			Centerliner	4 1/2 in		5 ea	65.00	325.00
403		1			Cement Bucket	4 1/2 in		1 ea	250.00	250.00
406		1			Latch Down Plug + Baffle	4 1/2 in		1 ea	225.00	225.00
407		1			Insert Float Shoe w/ Auto F.11	4 1/2 in		1 ea	300.00	300.00
404		1			Port Collar	4 1/2 in		1 ea	2400.00	2400.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 2-18-13  
TIME SIGNED: 3:00 P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560

785-798-2300

SURVEY		AGREE		UN-DECIDED		DIS-AGREE		PAGE TOTAL	Nº
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?									
WE UNDERSTOOD AND MET YOUR NEEDS?								42	5716
OUR SERVICE WAS PERFORMED WITHOUT DELAY?									
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?									
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES								
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND									
TOTAL								11,679	0.2

506 total  
TAX  
10,986.38  
Balance 8.38  
692.64

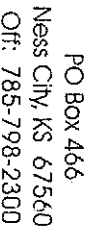
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

SWIFT OPERATOR

APPROVAL

David Huehlm

Thank You!



TICKET  
No  
72819

WELL	Team	d
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DATE 2-18-13

PAGE 2 OF 2

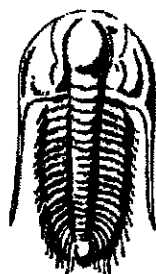
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SWIFT Services, Inc.

DATE 2-12-13	PAGE NO 7
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CHART NO.	TIME	RATE (BPM)	VOLUME (BSL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								TD - 4150 TP - 4144
								SJ - 43.50 #1 Set @ 4144
								PC #67 1251' 4 1/2" 10.5"
								Centralizer - #1 #3 #5 #7 #66
								Basket - #67
								200 sks EA-2 w/ 1/4" Floccle
	1500							on Location
	1650							Start 4 1/2" 10.5" casing in well
	1900							Drop ball Circulate
	1940	6 3/4	12		✓	350	Pump	500 gal Mud Flush
		6 3/4	20		✓	350	Pump	20 bbl KCL Flush
			7					Plug RH (30 sks)
	1950	4 1/2	41		✓	250	Mix	170 sks EA-2 @ 15.5 ppv
								Wash out Pump + Lines
								Release Latch Down Plug
	2005	6 3/4	Ø		✓	100	Start Displacement	
		6 3/4	52		✓	300	Lift PSI	
		6 3/4	62		✓	700	Max Lift PSI	
	2018	6 3/4	62.5		✓	1500	Land Latch Down Plug	
								Release PSI - Hold -
								Wash up trucks
	2100							Job Complete
								Thank You Dave Blaine TJ Flint

Thank You  
Dave Blaine US Forest



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Castle Resources, Inc**

PO Box 87  
Schoenchen, KS 67667

ATTN: Jerry Green

**Joan #1**

**19-20s-18w Pawnee,KS**

Start Date: 2013.02.17 @ 17:26:41

End Date: 2013.02.18 @ 03:09:41

Job Ticket #: 50535      DST #: 1

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

Printed: 2013.02.27 @ 10:19:31

Castle Resources, Inc    19-20s-18w Pawnee,KS    Joan #1    DST # 1    Cherokee Sand    2013.02.17



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Castle Resources, Inc  
PO Box 87  
Schoenchen, KS 67667  
ATTN: Jerry Green

19-20s-18w Pawnee, KS

Joan #1

Job Ticket: 50535

DST#: 1

Test Start: 2013.02.17 @ 17:26:41

### GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:46:11

Time Test Ended: 03:09:41

Test Type: Conventional Straddle (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 4042.00 ft (KB) To 4075.00 ft (KB) (TVD)

Total Depth: 4150.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2160.00 ft (KB)

2155.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8789

Inside

Press@RunDepth: 95.51 psig @ 4046.00 ft (KB)

Start Date: 2013.02.17

End Date:

2013.02.18

Capacity: 8000.00 psig

Last Calib.: 2013.02.18

Start Time: 17:26:43

End Time:

03:09:41

Time On Btm: 2013.02.17 @ 21:45:56

Time Off Btm: 2013.02.17 @ 23:47:26

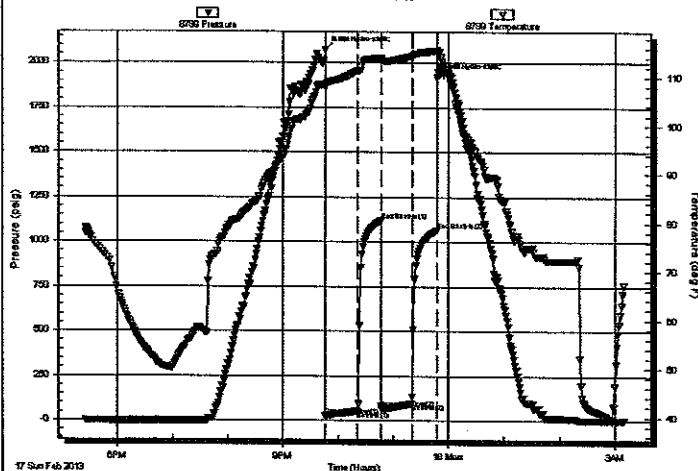
TEST COMMENT: IFF-Good Blow, BOB in 12 Min.

ISI-Dead

FFP-Good Blow, BOB in 11 Min.

FSI-Blow back Built to 1/4"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2071.91	108.65	Initial Hydro-static
1	27.78	107.93	Open To Flow (1)
36	53.09	111.34	Shut-In(1)
61	1120.73	113.91	End Shut-In(1)
62	68.54	113.47	Open To Flow (2)
95	95.51	114.29	Shut-In(2)
121	1064.57	115.36	End Shut-In(2)
122	1921.66	115.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO-50%O-50%M	0.84
150.00	Free Oil	2.10
0.00	450' Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Castle Resources, Inc  
PO Box 87  
Schoenchen, KS 67667  
ATTN: Jerry Green

19-20s-18w Pawnee, KS

Joan #1

Job Ticket: 50535

DST#: 1

Test Start: 2013.02.17 @ 17:26:41

### GENERAL INFORMATION:

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Deviated: No Whipstock: ft (KB)

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Total Depth: 4150.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2160.00 ft (KB)

2155.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8289

Outside

Press@RunDepth: psig @ 4046.00 ft (KB)

Start Date: 2013.02.17

End Date: 2013.02.18

Start Time: 17:26:28

End Time: 03:09:26

Capacity: 8000.00 psig

Last Calib.: 2013.02.18

Time On Btm:

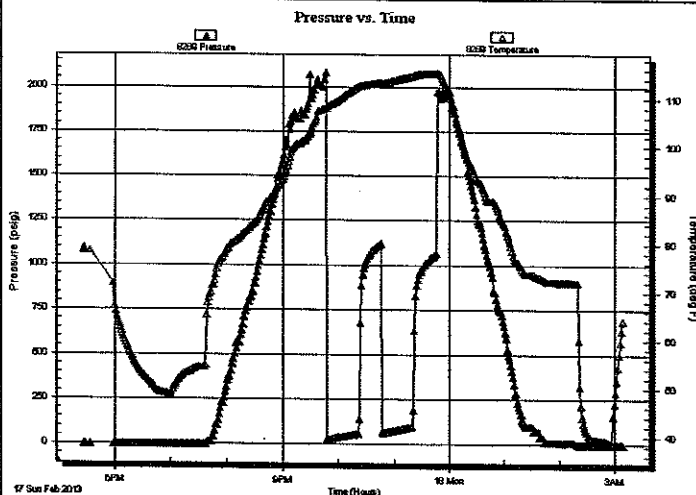
Time Off Btm:

TEST COMMENT: IFP-Good Blow, BOB in 12 Min.

ISI-Dead

FFP-Good Blow, BOB in 11 Min.

FSI-Blow back Built to 1/4"





Castle Resources, Inc.

ATTN: Jerry Green

### Joan #1

Job Ticket: 50535

DST#: 1

Test Start: 2013.02.17 @ 17:26:41

GENERAL INFORMATION:

Test Type: Conventional Straddle (Initial)

Tester: Jason McLemore

Unit No: 54

Reference Elevations: 2160.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

2155.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #:** 6668

**Below (Straddle)**

Press@RunDepth:                      psig @      4082.00 ft (KB)

Capacity: 8000.00 psia

Start Date: 2013.02.17

End Date:

2013.02.18

Last Calib.:

2013.02.18

Start Time: 17:26:58

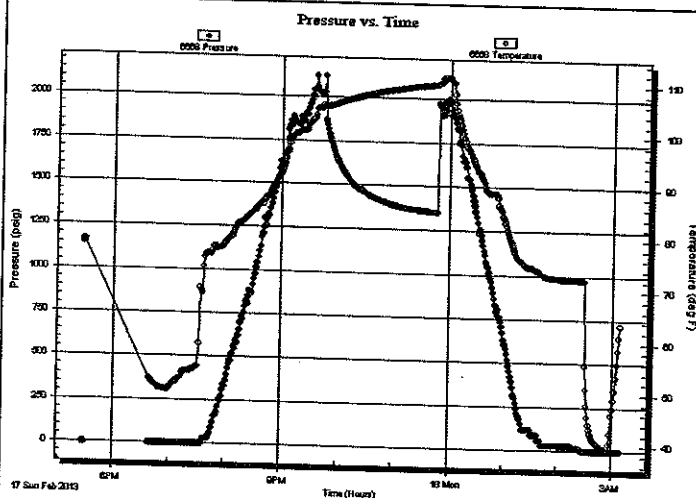
End Time:

03:09:37

Time On Btm:

Time Off Btm:

TEST COMMENT: IFF-Good Blow , BOB in 12 Min.  
ISI-Dead  
FFP-Good Blow , BOB in 11 Min.  
FSI-Blow back Built to 1/4"



## PRESSURE SUMMARY

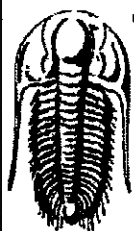
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO-50%O-50%M	0.84
150.00	Free Oil	2.10
0.00	450' Gas In Pipe	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources, Inc

19-20s-18w Pawnee, KS

PO Box 87  
Schoenchen, KS 67667

Joan #1

Job Ticket: 50535

DST#: 1

ATTN: Jerry Green

Test Start: 2013.02.17 @ 17:26:41

### Tool Information

Drill Pipe:	Length: 4041.00 ft	Diameter: 3.80 inches	Volume: 56.68 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb
			Total Volume: 56.68 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	4042.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	4075.00 ft				
Interval between Packers:	33.00 ft				
Tool Length:	135.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

### Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Recorder	0.00	6755	Fluid	4014.00	
Change Over Sub	1.00			4015.00	
Shut In Tool	5.00			4020.00	
Hydraulic tool	5.00			4025.00	
Jars	5.00			4030.00	
Safety Joint	2.00			4032.00	
Packer	5.00			4037.00	28.00 Bottom Of Top Packer
Packer	5.00			4042.00	
Stubb	1.00			4043.00	
Perforations	3.00			4046.00	
Recorder	0.00	8789	Inside	4046.00	
Recorder	0.00	8289	Outside	4046.00	
Perforations	25.00			4071.00	
Blank Off Sub	1.00			4072.00	
Blank Spacing	3.00			4075.00	33.00 Tool Interval
Packer	1.00			4076.00	
Perforations	5.00			4081.00	
Change Over Sub	1.00			4082.00	
Recorder	0.00	6668	Below	4082.00	
Blank Spacing	63.00			4145.00	
Change Over Sub	1.00			4146.00	
Bullnose	3.00			4149.00	74.00 Bottom Packers & Anchor

Total Tool Length: 135.00





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Castle Resources, Inc

19-20s-18w Pawnee, KS

PO Box 87  
Schoenchen, KS 67667

Joan #1

Job Ticket: 50535

DST#: 1

ATTN: Jerry Green

Test Start: 2013.02.17 @ 17:26:41

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 10.19 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4600.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbf

psig

Oil API:

40 deg API

Water Salinity:

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	MCO-50%O-50%M	0.842
150.00	Free Oil	2.104
0.00	450' Gas In Pipe	0.000

Total Length: 210.00 ft

Total Volume: 2.946 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

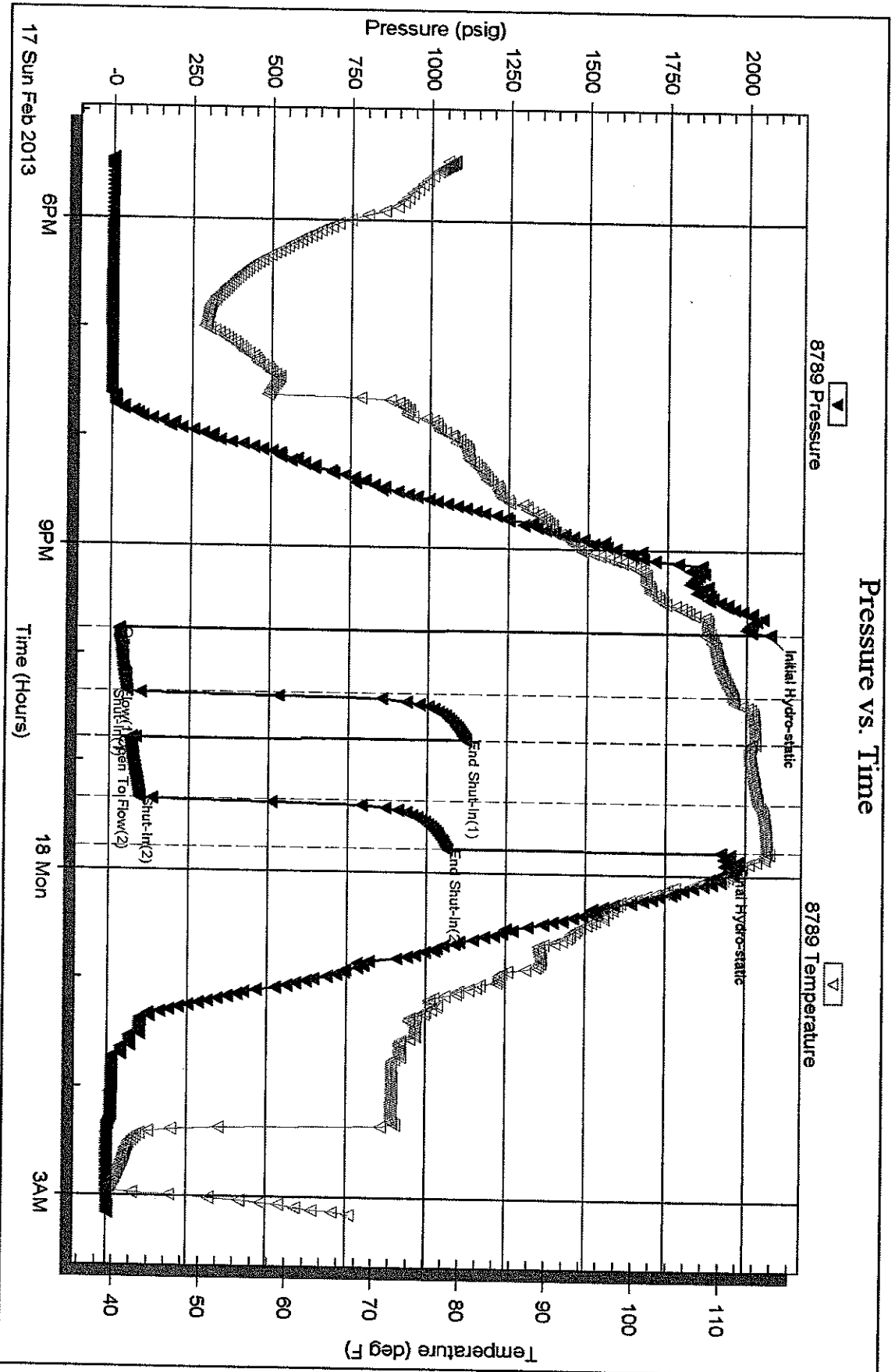
Serial #: 8789

Inside

Castle Resources, Inc

Joan #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 50535

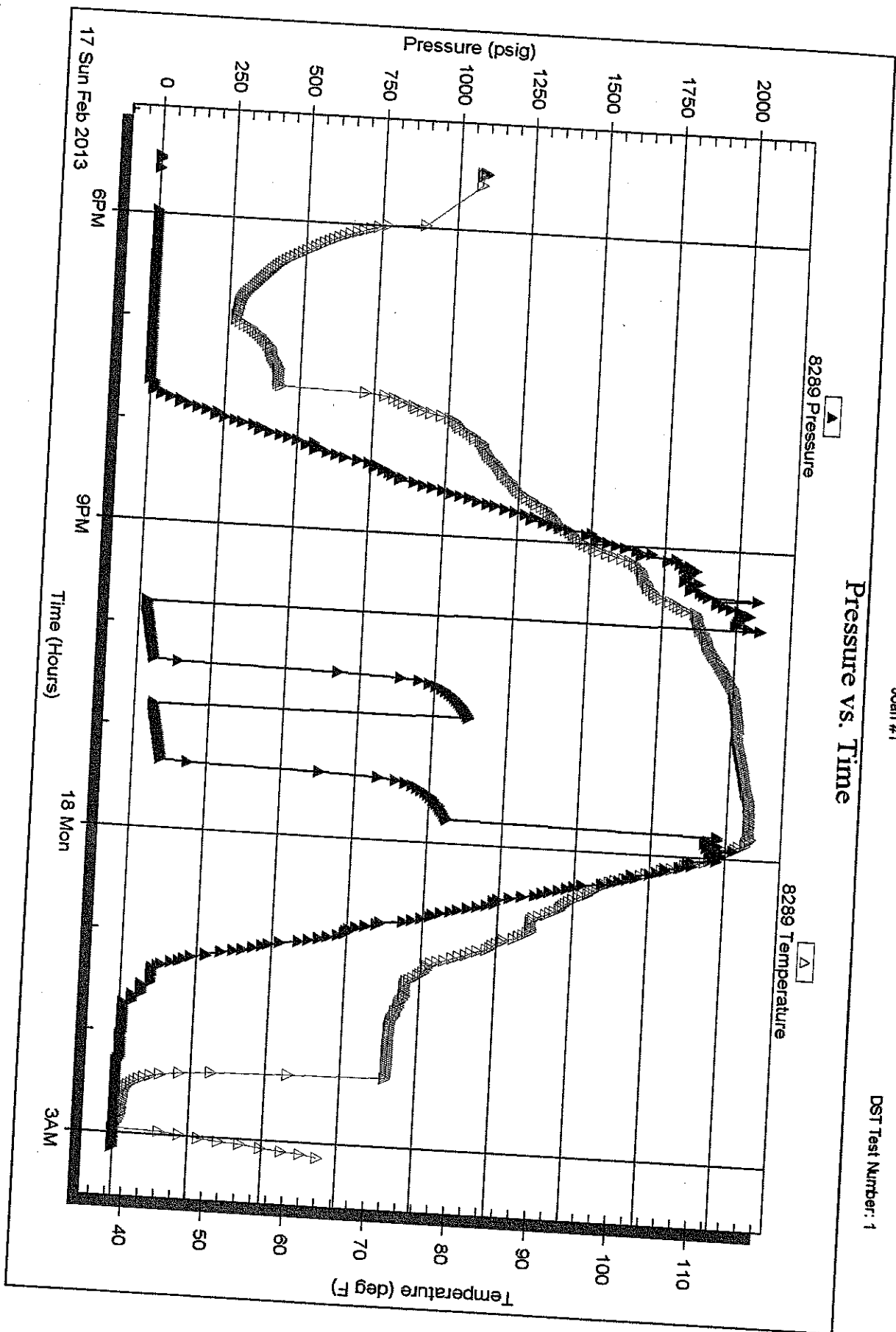
Printed: 2013.02.27 @ 10:19:35

Serial #: 8289

Outside Castle Resources, Inc

Joan #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 50535

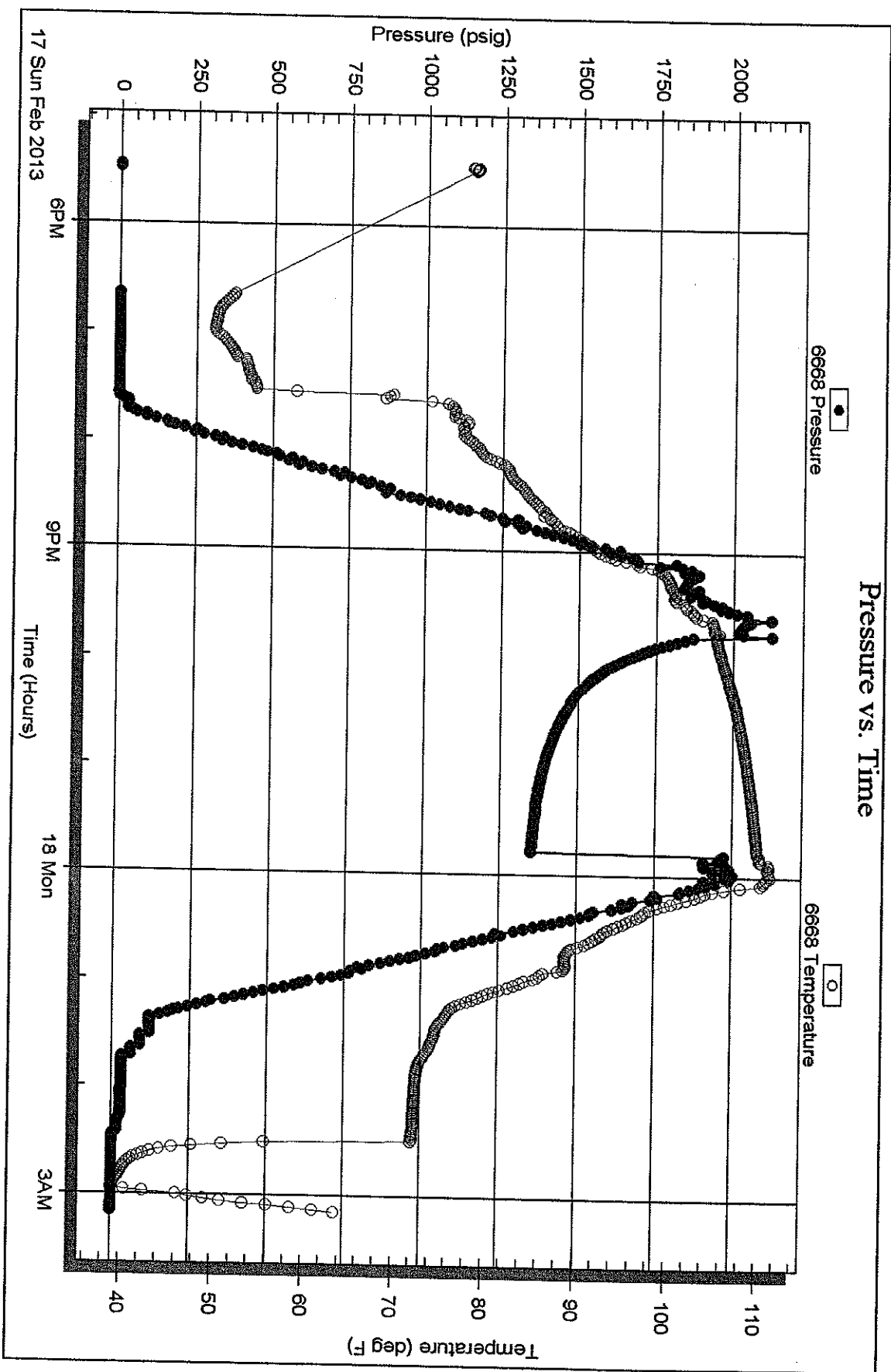
Printed: 2013.02.27 @ 10:19:36

Serial #: 6668

Below (Stratfield) Resources, Inc

Joan #1

DST Test Number: 1





**TRILOBITE  
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50535

Well Name & No. Joan #1 Test No. 1 Date 2-17-13  
Company Castle Resources, Inc. Elevation 2160 KB 2155  
Address Box 87, Schoenchen, KS. 67667  
Co. Rep / Geo. Jerry Green Rig White Knight  
Location: Sec. 19 Twp. 20s Rge. 18w Co. Pawnee State KS

Interval Tested 4042-4075 Zone Tested Cherokee Sand  
Anchor Length 33' Drill Pipe Run 4041 Mud Wt. 9.3  
Top Packer Depth 4037 Drill Collars Run 0 Vis 59  
Bottom Packer Depth 4042 strand 4075 Wt. Pipe Run 0 WL 10.2  
Total Depth 4150 Chlorides 4600 ppm System LCM 2<sup>th</sup>  
Blow Description IFP - Good Blow, BOB in 12 min.  
ISI - Dead  
FFP - Good Blow, BOB in 11 min  
FSI - Blowback Built to 1/4"

Rec	Feet of	%gas	%oil	%water	%m
<u>150</u>	<u>Free Oil</u>				
<u>60</u>	<u>Mud Cut Oil</u>		<u>50</u>		
				<u>50</u>	
	<u>450' Gas In Pipe</u>				

Rec Total 210 BHT \_\_\_\_\_ Gravity 40 API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2072  
(B) First Initial Flow 28  
(C) First Final Flow 53  
(D) Initial Shut-In 1121  
(E) Second Initial Flow 69  
(F) Second Final Flow 96  
(G) Final Shut-In 1065  
(H) Final Hydrostatic 1922

☒ Test 1250  
☒ Jars 250  
☒ Safety Joint 75  
☐ Circ Sub \_\_\_\_\_  
☐ Hourly Standby \_\_\_\_\_  
☒ Mileage 84 rt 130.20  
☐ Sampler \_\_\_\_\_  
☒ Straddle 600  
☐ Shale Packer \_\_\_\_\_  
☐ Extra Packer \_\_\_\_\_  
☐ Extra Recorder \_\_\_\_\_  
☐ Day Standby \_\_\_\_\_  
☐ Accessibility \_\_\_\_\_  
Sub Total 2305.20

T-On Location 17:06  
T-Started 17:22  
T-Open 21:45  
T-Pulled 23:45  
T-Out 3:15  
Comments \_\_\_\_\_

Initial Open 45 30  
Initial Shut-In 30  
Final Flow 30  
Final Shut-In 30

☐ Ruined Shale Packer \_\_\_\_\_  
☐ Ruined Packer \_\_\_\_\_  
☐ Extra Copies \_\_\_\_\_  
Sub Total 0  
Total 2305.20  
MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative \_\_\_\_\_

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