Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1203224

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 # 9860
Name: Castle Resources, Inc.
Address 1: BOX 87
Address 2:
City: SCHOENCHEN State: KS Zip: 67667 + 0087
Contact Person: Jerry Green
Phone: (785) 625-5155
CONTRACTOR: License # 34743
Name: White Knight Drilling LLC
Wellsite Geologist: Jerry Green
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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

02/18/2014	02/24/2014	02/24/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21750-00-00
Spot Description:
_ NE _ NW _ SW Sec. 10 Twp. 20 S. R. 19 ☐ East ☑ West
2310 Feet from ☐ North / ☑ South Line of Section
990 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Pawnee
Lease Name: Harms Well #: 1
Field Name:
Producing Formation: Cherokee
Elevation: Ground: 2235 Kelly Bushing: 2240
Total Vertical Depth: 4275 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 532 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1397 Feet
If Alternate II completion, cement circulated from: 1397
feet depth to: 0 w/ 175 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 25000 ppm Fluid volume: 300 bbls
Dewatering method used: Evaporated

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

☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 07/16/2014

[redacted] 1203224

Operator Name: Castle Resources, Inc. Lease Name: Harms Well #: 1

Sec. 10 Twp. 20 S. R. 19 ☐ East ☑ West County: Pawnee

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
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

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

Name	Top	Datum
Anhydrite	1380-1400	+865
Heebner	3650	-1405
L-KC	3694	-1449
Cherokee Sand	4150	-1905

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
surface	12.25	8.625	23	532	common	300	3%CC 2%Gel
production	7.88	5.5	15.5	4161		150	

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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the 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)*	Depth
4	4151.5 - 4152.5	sand	
4	4155.5 - 4156.5	sand	4155.5-56.5
4	4186 - 4187	sand	4186-87
4	4194 - 4195	sand	4194-95
4	4202 - 4203	sand	4202-03

TUBING RECORD: Size: 2.875 Set At: 4125' Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 04/15/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	20		150		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

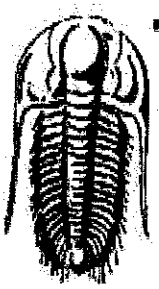
PRODUCTION INTERVAL:

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

Form	ACO1 - Well Completion
Operator	Castle Resources, Inc.
Well Name	Harms 1
Doc ID	1203224

All Electric Logs Run

Dual Receiver Cement Bond
Microresistivity
Dual Compensated Porosity
Dual Induction



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Castle Resources**

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

Harms #1

10-20s-19w Pawnee,KS

Start Date: 2014.02.23 @ 09:23:00
End Date: 2014.02.23 @ 16:07:30
Job Ticket #: 56152 DST #: 1

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

Printed: 2014.02.26 @ 14:48:29

DRILL STEM TEST REPORT

Castle Resources

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

10-20s-19w Pawnee,KS

Harms #1

Job Ticket: 56152 **DST#: 1**

Test Start: 2014.02.23 @ 09:23:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:51:00
Time Test Ended: 16:07:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bob Hamel
Unit No: 67

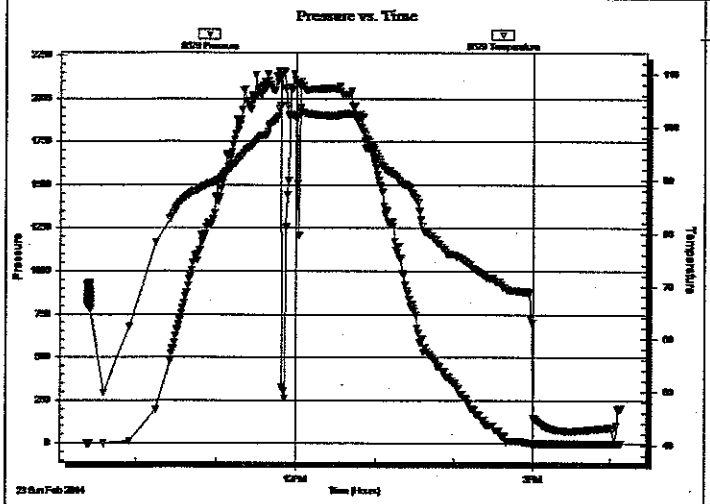
Interval: 4147.00 ft (KB) To 4160.00 ft (KB) (TVD)
Total Depth: 4160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2245.00 ft (KB)
2240.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8679 **Inside**
Press@RunDepth: psig @ 4148.00 ft (KB)
Start Date: 2014.02.23 End Date: 2014.02.23
Start Time: 09:23:01 End Time: 16:07:30

Capacity: 8000.00 psig
Last Calib.: 2014.02.23
Time On Btm:
Time Off Btm:

TEST COMMENT: " PACKER FAILURE"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
800.00	MUD 100%	11.22

Gas Rates

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

DRILL STEM TEST REPORT

Castle Resources

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

10-20s-19w Pawnee,KS

Harms #1

Job Ticket: 56152 **DST#: 1**

Test Start: 2014.02.23 @ 09:23:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:51:00
Time Test Ended: 16:07:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bob Hamel
Unit No: 67

Interval: 4147.00 ft (KB) To 4160.00 ft (KB) (TVD)
Total Depth: 4160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

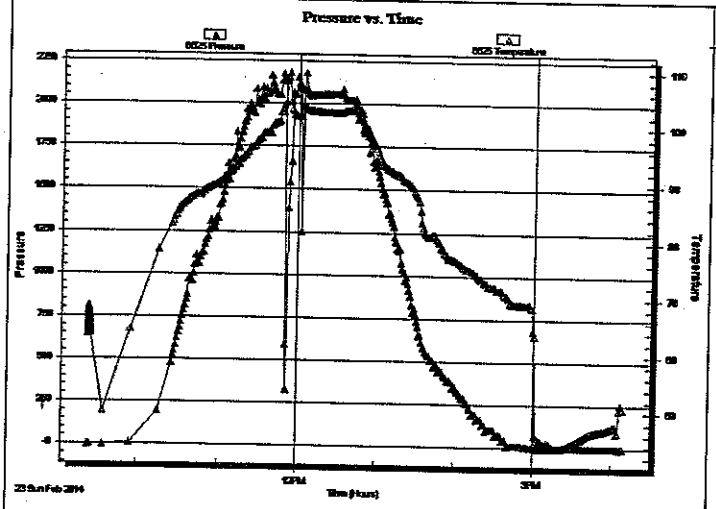
Reference Elevations: 2245.00 ft (KB)
2240.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6625 **Outside**

Press@RunDepth: psig @ 4148.00 ft (KB)
Start Date: 2014.02.23 End Date: 2014.02.23
Start Time: 09:23:01 End Time: 16:08:30

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: " PACKER FAILURE "



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
800.00	MUD 100%	11.22

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

10-20s-19w Pawnee,KS

Harms #1

Job Ticket: 56152 **DST#: 1**

Test Start: 2014.02.23 @ 09:23:00

Tool Information

Drill Pipe:	Length:	4154.00 ft	Diameter:	3.80 inches	Volume:	58.27 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	58.27 bbl	

Drill Pipe Above KB:	27.00 ft
Depth to Top Packer:	4147.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	13.00 ft
Tool Length:	33.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	42000.00 lb
Final	47000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4128.00		
Shut In Tool	5.00			4133.00		
Hydraulic tool	5.00			4138.00		
Packer	4.00			4142.00	20.00	Bottom Of Top Packer
Packer	5.00			4147.00		
Stubb	1.00			4148.00		
Recorder	0.00	6625	Outside	4148.00		
Recorder	0.00	8679	Inside	4148.00		
Perforations	8.00			4156.00		
Bullnose	4.00			4160.00	13.00	Bottom Packers & Anchor
Total Tool Length:	**33.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

10-20s-19w Pawnee,KS

Harms #1

Job Ticket: 56152 **DST#: 1**

Test Start: 2014.02.23 @ 09:23:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
800.00	MUD 100%	11.222

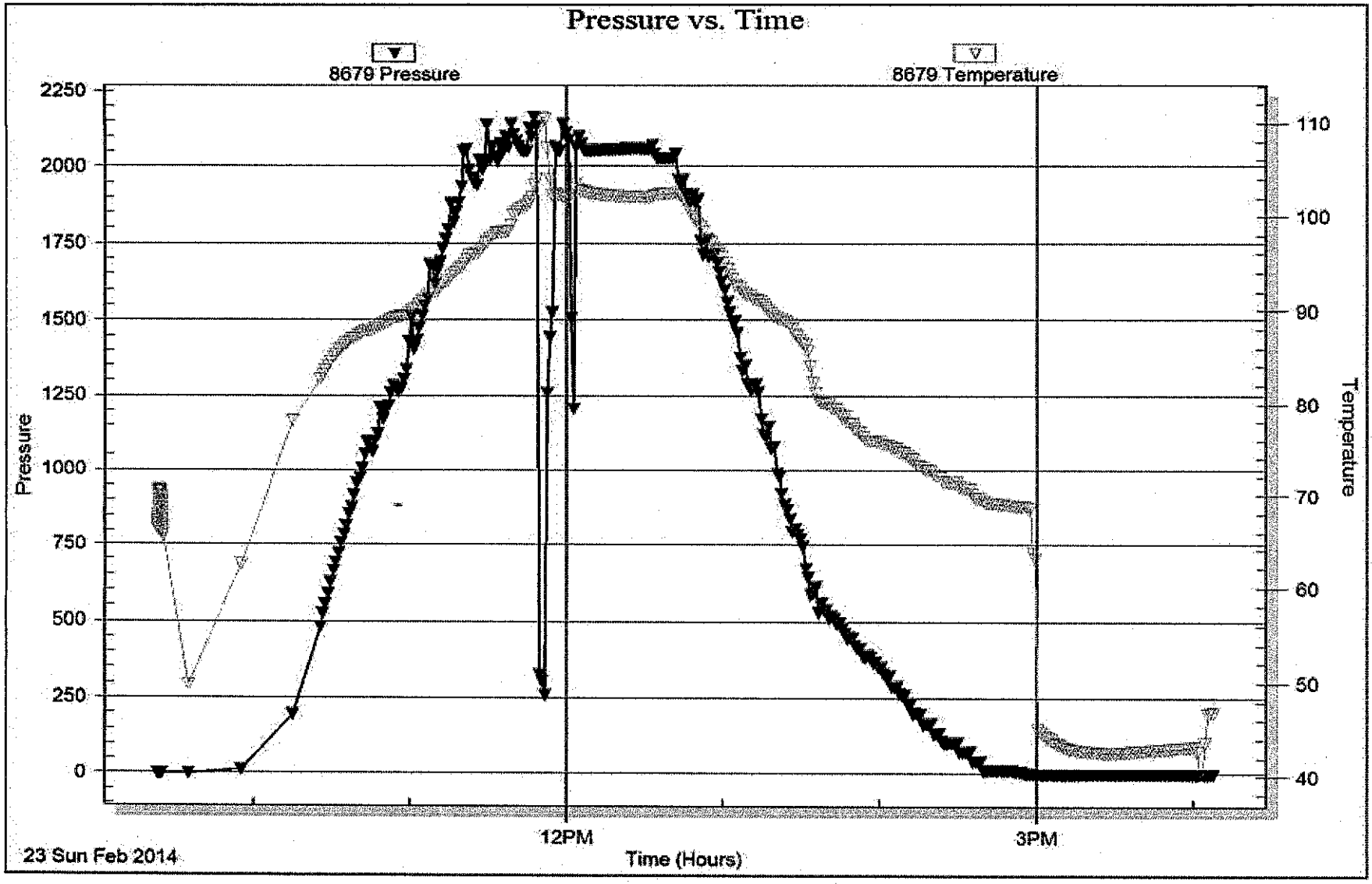
Total Length: 800.00 ft Total Volume: 11.222 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

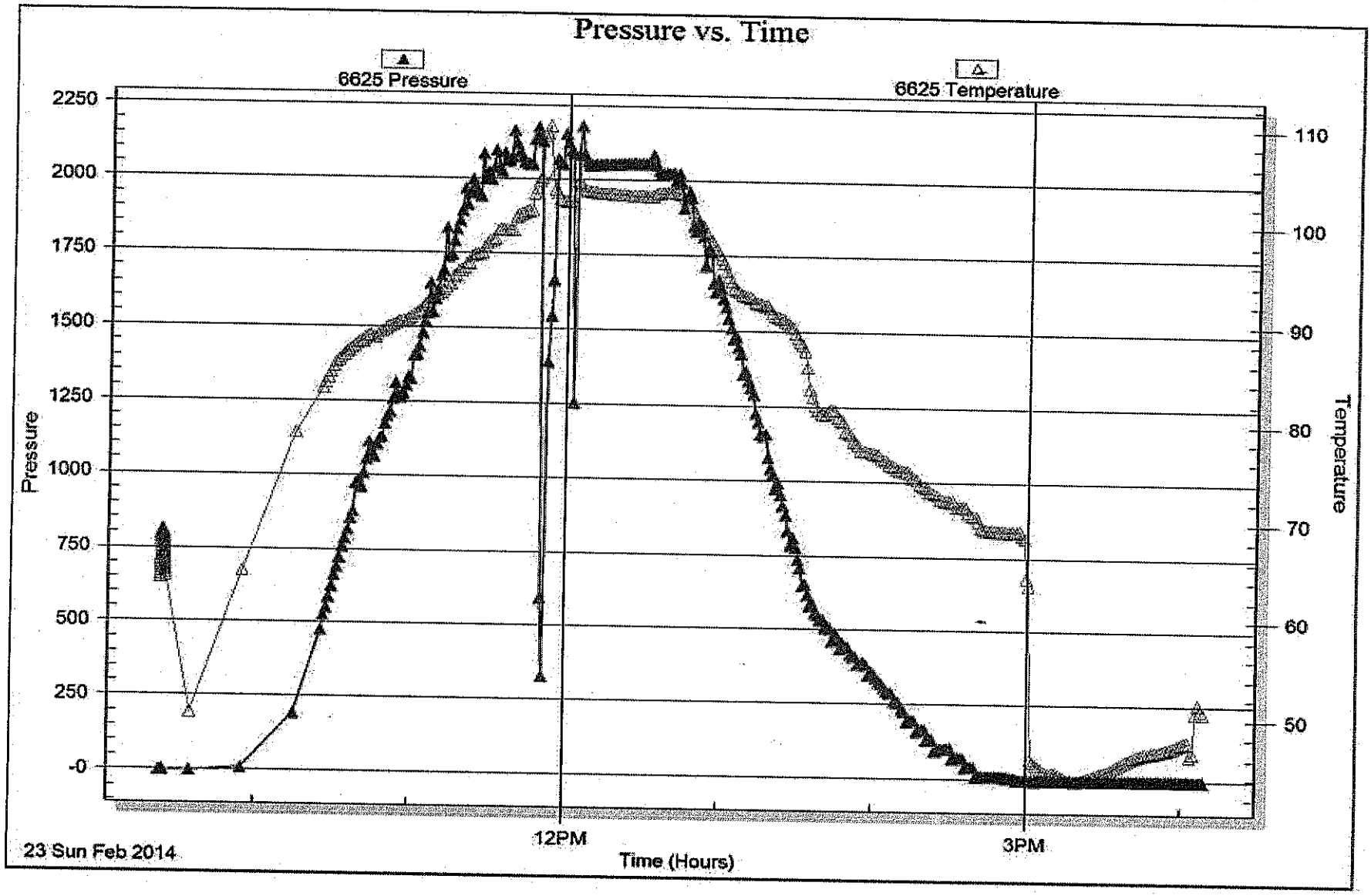
Recovery Comments: " PACKER FAILURE "

Serial #: 8679 Inside Castle Resources Harms #1 DST Test Number: 1

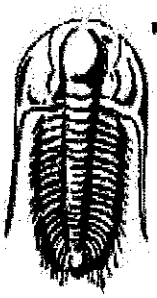


Trilobite Testing, Inc Ref. No: 56152 Printed: 2014.02.26 @ 14:48:32

Serial #: 6625 Outside Castle Resources Harms #1 DST Test Number: 1



Tribobile Testing, Inc Ref. No: 56152 Printed: 2014.02.26 @ 14:48:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Castle Resources**

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

Harms #1

10-20s-19w Pawnee,KS

Start Date: 2014.02.23 @ 13:33:00
End Date: 2014.02.23 @ 20:53:15
Job Ticket #: 56152 DST #: 2

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

Printed: 2014.02.26 @ 14:47:37

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Castle Resources

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

10-20s-19w Pawnee,KS

Harms #1

Job Ticket: 56152 **DST#: 2**

Test Start: 2014.02.23 @ 13:33:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:17:45
Time Test Ended: 20:53:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel
Unit No: 67

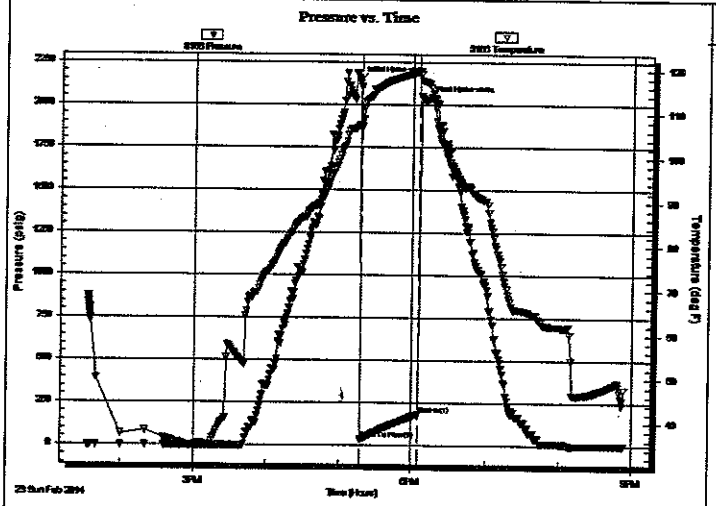
Interval: 4126.00 ft (KB) To 4160.00 ft (KB) (TVD)
Total Depth: 4160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2245.00 ft (KB)
2240.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**
Press@RunDepth: psig @ 4127.00 ft (KB)
Start Date: 2014.02.23 End Date: 2014.02.23
Start Time: 13:33:02 End Time: 20:53:15

Capacity: 8000.00 psig
Last Calib.: 2014.02.23
Time On Btm: 2014.02.23 @ 17:15:45
Time Off Btm: 2014.02.23 @ 18:11:45

TEST COMMENT: I.F. - 45 - BOB in 7 min - pulled test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.71	107.36	Initial Hydro-static
2	34.43	106.80	Open To Flow (1)
50	183.46	119.30	Shut-In(1)
56	2028.16	117.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	S,O,S,W,M OIL SPECS, MUD 10% WTR.	0.84
120.00	S,O,C,M,W, OIL 10% MUD 20% WTR.70%	1.68
60.00	O,C,W,M, OIL 10% WTR.20% MUD 70%	0.84
240.00	O,C,M,W, OIL 20% MUD 20% WTR. 60%	3.37
1.00	CLEAN OIL 100%	0.01

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Castle Resources

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

10-20s-19w Pawnee,KS

Harms #1

Job Ticket: 56152 **DST#: 2**

Test Start: 2014.02.23 @ 13:33:00

Tool Information

Drill Pipe:	Length:	4122.00 ft	Diameter:	3.80 inches	Volume:	57.82 bbl	Tool Weight:	2500.00 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:	48000.00 lb
					Total Volume:	57.82 bbl	Tool Chased	4.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight: Initial	44000.00 lb
Depth to Top Packer:		4126.00 ft					Final	46500.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		34.00 ft						
Tool Length:		54.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4107.00		
Shut In Tool	5.00			4112.00		
Hydraulic tool	5.00			4117.00		
Packer	4.00			4121.00	20.00	Bottom Of Top Packer
Packer	5.00			4126.00		
Stubb	1.00			4127.00		
Recorder	0.00	8166	Outside	4127.00		
Perforations	29.00			4156.00		
Bullnose	4.00			4160.00	34.00	Bottom Packers & Anchor
Total Tool Length:	**54.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Castle Resources

PO Box 87
Schoenchen KS. 67667

ATTN: Chris Bean / JerryGr

10-20s-19w Pawnee,KS

Harms #1

Job Ticket: 56152 **DST#: 2**

Test Start: 2014.02.23 @ 13:33:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	14000 ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.18 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	S,O,S,W,M OIL SPECS, MUD 10% WTR. 90%	0.842
120.00	S,O,C,M,W, OIL 10% MUD 20% WTR.70%	1.683
60.00	O,C,W,M, OIL 10% WTR.20% MUD 70%	0.842
240.00	O,C,M,W, OIL 20% MUD 20% WTR. 60%	3.367
1.00	CLEAN OIL 100%	0.014

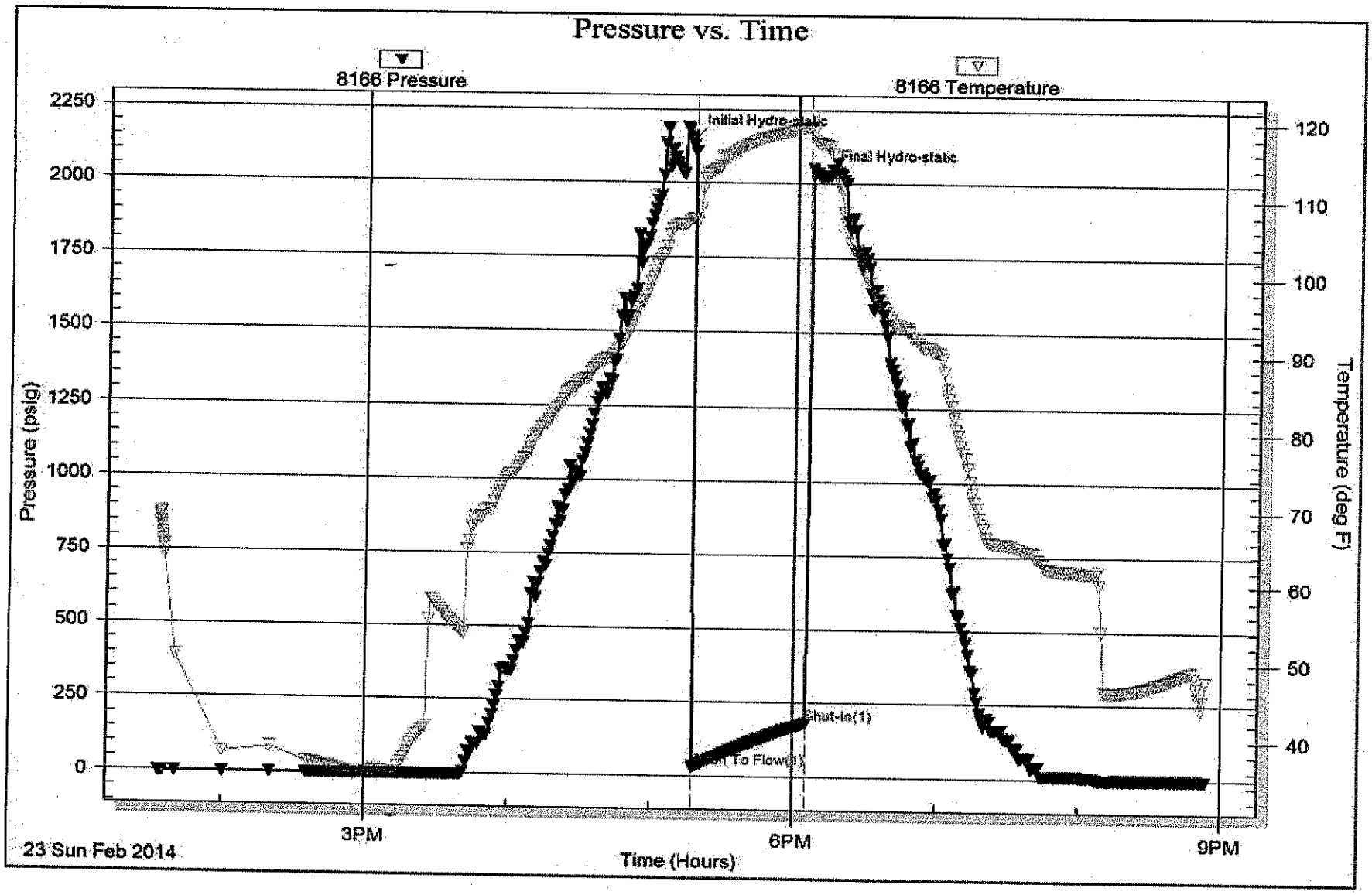
Total Length: 481.00 ft Total Volume: 6.748 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: R.W. = .885 OHMS @ 38 DEG.

Serial #: 8166 Outside Castle Resources Harms #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 56152 Printed: 2014.02.26 @ 14:47:40

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 56152

Well Name & No. Harms #1 Test No. 1 Date 2/23/14

Company Castle Resources Elevation 2245 KB 2240 GL

Address P.O. Box 87 Schoenchen KS 67667

Co. Rep / Geo. Chris Bean / Terry Green Rig White Knight

Location: Sec. 10 Twp. 20 S. Rge. 19 W. Co. Pawnee State KS.

Interval Tested 4147 - 4160 Zone Tested Cher.

Anchor Length 13' Drill Pipe Run 4154 Mud Wt. 9.5

Top Packer Depth 4142 Drill Collars Run — Vis 46

Bottom Packer Depth 4147 Wt. Pipe Run — WL 10.2

Total Depth 4160 Chlorides 7000 ppm System LCM 1

Blow Description I.F. - "Packer failure"

I.S.I. -

F.F. -

F.S.I. -

Rec	Feet of 1' "Packer failure"	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec 800	Feet of	%gas	%oil	%water	100	%mud
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 800 BHT ____ Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic	☑ Test 1050	T-On Location 08:00:00
(B) First Initial Flow	☑ Jars 250	T-Started 09:23:00
(C) First Final Flow	☑ Safety Joint 75	T-Open 11:51:00
(D) Initial Shut-In	☐ Circ Sub	T-Pulled 12:20:00
(E) Second Initial Flow	☐ Hourly Standby	T-Out 16:08:00
(F) Second Final Flow	☑ Mileage 102 / RT 158.10	Comments Packer failure
(G) Final Shut-In	☐ Sampler	"Thank you"
(H) Final Hydrostatic	☐ Straddle	☐ Ruined Shale Packer
	☑ Shale Packer 250	☐ Ruined Packer
Initial Open	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	☐ Extra Recorder	Sub Total 0
Final Flow	☐ Day Standby	Total 1783.10
Final Shut-In	☐ Accessibility	MP/DST Disc't
	Sub Total 1783.10	

Approved By ____ Our Representative [signature]

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56153

Well Name & No. Norms #1 Test No. 2 Date 2-23-14

Company Castle Resources Elevation 2245 KB 2240 GL

Address P.O. Box 87 Schaeppchen KS. 67667

Co. Rep / Geo. Chris Bean / Jerry Green Rig White Knight

Location: Sec. 10 Twp. 20 S. Rge. 19 W. Co. Pawnee State KS.

Interval Tested 4126 - 4160 Zone Tested Cherokee

Anchor Length 34' Drill Pipe Run 4122 Mud Wt. 9.5

Top Packer Depth 4121 Drill Collars Run — Vis 46

Bottom Packer Depth 4126 Wt. Pipe Run — WL 10.2

Total Depth 4160 Chlorides 7,000 ppm System LCM 1

Blow Description I.F. - 45 - 1/2 INT. Blow Built to (B.O.B. in 7 min.)

"Pulled test after I.F. as Requested By Jerry Green"

Rec 1	Feet of Clean Oil	%gas 100	%oil	%water	%mud
Rec 240	Feet of O, C, M, W	%gas 20	%oil 60	%water 20	%mud
Rec 60	Feet of S, O, C, W, M	%gas 10	%oil 20	%water 70	%mud
Rec 120	Feet of S, O, C, M, W,	%gas 10	%oil 10	%water 20	%mud
Rec 60	Feet of S, O, S, M, W (Scum of Oil)	%gas Scum	%oil 90	%water 10	%mud

Rec Total 481 BHT 119 Gravity — API RW .885 @ 38 °F Chlorides 14,000 ppm

(A) Initial Hydrostatic 2,145	☑ Test 1250	T-On Location 08:00:00
(B) First Initial Flow 34	☑ Jars 250	T-Started 13:33:00
(C) First Final Flow 183	☑ Safety Joint 75	T-Open 17:23:00
(D) Initial Shut-In	☐ Circ Sub	T-Pulled 18:08:00
(E) Second Initial Flow	☐ Hourly Standby	T-Out 20:57:00
(F) Second Final Flow	☐ Mileage Re-Run, 158.10	Comments Ran Straddle Rec. to Save Time after First MIS Run Tool 13:17 (2:24) "Thank-You"
(G) Final Shut-In	☐ Sampler	
(H) Final Hydrostatic 2,028	☐ Straddle	☐ Ruined Shale Packer
Initial Open 45	☑ Shale Packer 250	☐ Ruined Packer
Initial Shut-In	☐ Extra Packer	☐ Extra Copies
Final Flow	☐ Extra Recorder	Sub Total 0
Final Shut-In	☐ Day Standby	Total 1983.10
	☐ Accessibility	MP/DST Disc't
	Sub Total 1983.10	

Approved By _____ Our Representative _____

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.

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

1208

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

DATE 2-18-14	SEC. 10	TWP. 20	RANGE 19	CALLED OUT	ON LOCATION	JOB START 8:45am	JOB FINISH 9:15am
LEASE Harms	WELL # 1		LOCATION			COUNTY Rawlins	STATE KS
OLD OR (NEW) (CIRCLE ONE)							

CONTRACTOR White Knight
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 535
CASING SIZE 8 5/8 DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 300 MINIMUM 100
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 20ft
PERFS
DISPLACEMENT

EQUIPMENT

PUMP TRUCK # P1 CEMENTER Heath
HELPER Cody
BULK TRUCK # 134 DRIVER Eric - Mark
BULK TRUCK # DRIVER

OWNER

CEMENT
AMOUNT ORDERED 300sx com 3%cc 2%gel

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING		@	
MILEAGE			
		TOTAL	

REMARKS:
Ran 13 JTS of 8 5/8 casing and landing pt
Est Circulation with mud pump
Mixed 300sx and disp 21½ bbl H20 - Shut in @ 300PSI
Cement Did Circulate to Surface

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			
EXTRA FOOTAGE		@	
MILEAGE		@	
MANIFOLD		@	
		@	
		@	
		TOTAL	

CHARGE TO: Castle ReSource's
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

Schippers Oil Field Services, L.L.C.,
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME
SIGNATURE Terry Russell

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

SWIFT Services, Inc.

DATE 2-20-14 | PAGE NO. 1

...it Resources	WELL NO. #1	LEASE Harms	JOB TYPE Longstring
			TICKET NO. 25336

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1930							on loc w/ FE
								RTD 4275'
								5½" x 15.5# x 4256' x 15
								Cent 1, 3, 5, 7, 9, 11, 69
								Bask 10, 70
								P.C. 70 @ 1387'
	2045							Start FE
	2230							Break circ
	2315	2.5	7					Plug RH 30sks EA-2
	2320	5	0				200	Start 500 gal Mud flush
		5	12/0				200	Start 20 bbl KCL flush
		5	20/0				200	Start 120sks EA-2
	2330		32					End Cement
								Wash Pmp & L
								Drop L.D. Plug
	2335	6	0				200	Start Displacement
		5	74				250	Catch Cement
	2355		101				700/1400	Land Plug
								Release Pressure
								Float Held
								Thank you
								Nick, David E. & Rob