

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West 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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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 <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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General Data

Well Data: DK Operating, Inc.
Virginia #2-13
1445' FNL & 2301' FWL
Sec. 13 T20s R23w
Ness County, Kansas
API # 15-135-25985-0000

Drilling Contractor: Pickrell Drilling Rig #10

Geologist: Jason T Alm

Spud Date: December 18, 2017

Completion Date: January 9, 2018

Elevation: 2219' Ground Level
2226' Kelly Bushing

Directions: Bazine KS, West on Hwy 96 to AA Rd. South 9
mi. to 40 Rd. West ½ mi. South into location.

Casing: 232' 8 5/8" surface casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "Dan Schmidt"
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: One, Trilobite Testing, Inc. "Ken Swinney"

Problems: Cedar Hills chased the pipe out of the hole while tripping.

Remarks: None



1-22-18
OK#3073

Invoice

Page: 1

Pioneer Wireline Services, LLC
Service Location: Hays, KS (Wireline)
For questions or comments, please call: (785) 625-3858

INVOICE NUMBER: 0000003691
 INVOICE DATE: 1/9/2018
 DUE DATE: 1/9/2018
 CLIENT: DKOPER

Sold To

DK Operating
 Attention: Accounts Payable
 621 Benton Street
 Jetmore, KS 67854 USA

Well Name: VIRGINIA #2-13
Field:
API/OCSG#:
Well Stage: Pre-production
County: Ness
State: KS

Primary Service: OH Logging
AFE #:
Contract #:
PO #:
Unit #: P-91
Last Work Date: 1/9/2018

ITEM CODE	DESCRIPTION	TAX	QTY	UNIT PRICE	AMOUNT
32591	Gamma Ray Log Depth		6,000.00	0.06	331.58
32592	Gamma Ray Log Operation		2,000.00	0.06	110.53
32551	Compensated Neutron Log Depth		6,000.00	0.08	497.37
32552	Compensated Neutron Log Operation		2,000.00	0.08	165.79
32571	Compensated Formation Density Log Depth		6,000.00	0.11	663.15
32572	Compensated Formation Density Log Oper		2,000.00	0.11	221.05
32621	Microlog Depth		6,000.00	0.06	331.58
32622	Microlog Operation		2,000.00	0.06	110.53
32511	Dual Induction Log Depth		6,000.00	0.11	663.16
32512	Dual Induction Log Operation		2,000.00	0.11	221.05
32611	Borehole Compensated Sonic Log Depth		6,000.00	0.11	663.16
32612	Borehole Compensated Sonic Log Operation Tickets: T-CE7-160-3FBB		2,000.00	0.11	221.05
		LAST ITEM			

THANK YOU FOR YOUR BUSINESS

Please remit payment to one of the following locations:

Wire Transfer & ACH:

Bank: Wells Fargo Bank, N.A.
 Houston, TX 77002
 ABA #: 121000248
 Acct #: 4121817860
 Confirmation: credit@pioneer.com

Standard US Mail:

Pioneer Wireline Services, LLC
 PO Box 202567
 Dallas, TX 75320-2567

Subtotal 4,200.00
 Sales Tax 0.00
 Payment/Credit Amount 0.00
 Balance: 4,200.00

TERMS: If Company has an approved open account with Pioneer, invoices are payable NET 30 days from date of invoice. If Company does not have an approved open account with Pioneer, all sums are payable prior to performance of services or delivery of equipment, products, or materials. Company agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Pioneer employs an attorney for collection of any account, Company agrees to pay reasonable attorney fees plus all collection and court costs.



Pioneer Energy Services

DATE: 01/09/2018

LOCATION: Hays, KS (Wireline) Brett Becker (785) 625-3858

UNIT: P-91

ENGINEER: Daniel Schmidt

TICKET NUMBER: T-CE7-160-3FBB

CLIENT INFO	COMPANY: Unknown Client <i>DK Operating</i>			PO#:		
	BILLING ADDRESS:			CITY:	ST:	ZIP:
WELL INFO	WELL NAME: VIRGINIA #2-13		FIELD / BLOCK:		COUNTY / PARISH: Ness	ST: KS - Kansas
	API / OCSG#:	AFE#:	PRICE ZONE: LAND			Page 1 of 3

CODE	SERVICE DESCRIPTION	QTY	AMOUNT
Setup Charges - SETUP CHARGE			
Run 01 - STACK/MICRO			
32591	Gamma Ray Log Depth	6000	\$331.58
32592	Gamma Ray Log Operation	2000	\$110.53
32551	Compensated Neutron Log Depth	6000	\$497.37
32552	Compensated Neutron Log Operation	2000	\$165.79
32571	Compensated Formation Density Log Depth	6000	\$663.15
32572	Compensated Formation Density Log Oper	2000	\$221.05
32621	Microlog Depth	6000	\$331.58
32622	Microlog Operation	2000	\$110.53
32511	Dual Induction Log Depth	6000	\$663.16
32512	Dual Induction Log Operation	2000	\$221.05
Run 02 - SONIC			
32611	Borehole Compensated Sonic Log Depth	6000	\$663.16
32612	Borehole Compensated Sonic Log Operation	2000	\$221.05



Pioneer Energy Services

DATE: 01/09/2018

LOCATION: Hays, KS (Wireline) Brett Becker (785) 625-3858

UNIT: P-91

ENGINEER: Daniel Schmidt

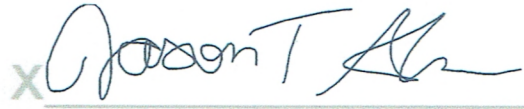
TICKET NUMBER: T-CE7-160-3FBB

CLIENT INFO	COMPANY: Unknown Client		PO#:		
	BILLING ADDRESS:		CITY:	ST:	ZIP:
WELL INFO	WELL NAME: VIGINIA #2-13		FIELD / BLOCK:		COUNTY / PARISH: Ness
	API / OCSG#:	AFE#:	PRICE ZONE: LAND		ST: KS - Kansas

Page 2 of 3

TICKET TOTALS AND RUN SUMMARY	
Run Number	Total
Setup Charges	\$0.00
Run 01	\$3,315.79
Run 02	\$884.21
SUB TOTAL	\$4,200.00
TAX	TBD
NET TOTAL	\$4,200.00


Supervisor


JASON ALM

SIGNED DATE: 01/09/2018 TIME: 01:59 PM

* Client accepts all terms and conditions of sale and service, including those provided as an addendum to this field ticket.



Pioneer Energy Services

DATE: 01/09/2018

LOCATION: Hays, KS (Wireline) Brett Becker (785) 625-3858

UNIT: P-91

ENGINEER: Daniel Schmidt

TICKET NUMBER: T-CE7-160-3FBB

CLIENT INFO	COMPANY: Unknown Client		PO#:		
	BILLING ADDRESS:		CITY:	ST:	ZIP:
WELL INFO	WELL NAME: VIGINIA #2-13		FIELD / BLOCK:		COUNTY / PARISH: Ness
	API / OCSG#:	AFE#:	PRICE ZONE: LAND		ST: KS - Kansas
					Page 3 of 3

Work Order Contract / Terms and Conditions

A. CUSTOMER REPRESENTATION: Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by Pioneer Wireline Services, LLC (hereinafter "Pioneer").

B. PRICE AND PAYMENT: Pioneer's prices are based on the Customer RELEASING, DEFENDING, INDEMNIFYING AND HOLDING HARMLESS Pioneer from certain liabilities as provided herein. If Pioneer has an approved open account with Customer, invoices are payable Net 30-days from the date of invoice. If Pioneer does not have an approved open account with Customer, all sums are payable prior to performance of services or delivery of equipment, products or materials. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Pioneer employs an attorney for collection of any account, Customer agrees to pay actual attorneys' fees, plus all collection and court costs. Any tax based on or measured by the charges made for the cash receipts from the sale of products and/or services shall be in addition to the charge stated in the price schedule.

C. **RELEASE AND INDEMNITY: CUSTOMER AGREES TO RELEASE PIONEER FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAD THE ABILITY TO BIND BY CONTRACT OR WHICH ARE CO-INTEREST OWNERS OR JOINT VENTURES WITH CUSTOMER. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD PIONEER HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM: LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND CONTAMINATION AND ITS CLEANUP AND CONTROL.**

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE PIONEER GROUP, THE UNSEAWORTHINESS OF ANY VESSEL, OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY ANY MEMBER OR MEMBERS OF THE PIONEER GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "PIONEER GROUP" IS DEFINED AS PIONEER WIRELINE SERVICES, LLC, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES, INSURERS AND SUBCONTRACTORS AND ALL ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, CONSULTANTS AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE PIONEER GROUP, CUSTOMER OR ANY OTHER PERSON OR ENTITY. CUSTOMER AGREES TO NAME PIONEER GROUP AS NAMED ADDITIONAL INSURED ON ALL OF ITS GENERAL LIABILITY POLICY(S). CUSTOMER AGREES THAT ITS LIABILITY UNDER THIS CONTRACT IS NOT LIMITED BY THE AMOUNTS OF ITS INSURANCE COVERAGE, EXCEPT WHERE AND AS MAY BE REQUIRED BY APPLICABLE LOCAL LAW FOR THE PROVISIONS OF THIS CONTRACT TO BE ENFORCEABLE.

D. EQUIPMENT LIABILITY: Customer shall at its risk and expense attempt to recover any Pioneer Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and Customer agrees that should a sealed source of radioactive material be lost or lodged in the well, special precautions will be taken by Customer in fishing operations to avoid damage or breakage of source container and that, if source is not recovered, it will be isolated by cementing it in place or fixing it in well by some other appropriate means, in accordance with NRC regulations or any other applicable laws or regulations. Customer shall permit Pioneer to monitor the recovery or abandonment efforts all at no risk or liability to Pioneer Group. Customer shall be responsible for damage to or loss of Pioneer Group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Pioneer at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Pioneer Group equipment damaged by corrosion or abrasion due to well effluents.

E. WARRANTY: PIONEER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. In no event shall Pioneer be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, PIONEER IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS OR SERVICES, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY PIONEER GROUP. Customer agrees that Pioneer Group shall not be liable for and CUSTOMER SHALL INDEMNIFY PIONEER GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, EVEN IF SUCH IS CONTRIBUTED TO OR CAUSED BY THE ACTIVE OR PASSIVE NEGLIGENCE, FAULT OR STRICT LIABILITY OF ANY MEMBER OR MEMBERS OF PIONEER GROUP.

F. SEVERABILITY: If any provision or part thereof of this Contract shall be held to be invalid, void or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract.

G. MODIFICATIONS: Customer agrees that Pioneer shall not be bound to any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Pioneer.

I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. I AM SIGNING THIS WORK ORDER CONTRACT WITH THE UNDERSTANDING THAT ITS TERMS AND CONDITIONS WILL NOT APPLY TO THE EXTENT THEY CONFLICT WITH TERMS AND CONDITIONS OF A SIGNED MASTER SERVICE AGREEMENT BETWEEN THE PARTIES.

3613A Y Road
Madison, KS 66860
Ph: 620-437-2661
Fax: 620-437-2881

1-15-18
CL# 3054
#



HURRICANE SERVICES INC

104 Prairie Plaza Parkway
Garnett, KS 66032
Ph: 785-448-3100
Fax: 785-448-3102

FED ID# 48-1214033
MC ID# 165290

Remit to: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202

Customer:
DK OPERATING INC
621 BENTON ST
JETMORE, KS 67854-5311

Invoice Date: 12/19/2017
Invoice #: 0035982
Lease Name: VIRGINIA
Well #: 2-13
County: NESS

Date/Description	HRS/QTY	Rate	Total
Ticket 100863 237' Surface	0.000	0.000	0.00
Heavy Eq mileage one way	160.000	2.340	374.40
Light Eq mileage one way	80.000	1.080	86.40
Ton mileage one way #241	632.000	0.936	591.55
Cementer #231	1.000	684.000	684.00
Regular class A cement	170.000	11.700	1,989.00
Bentonite Gel	320.000	0.216	69.12
Calcium chloride	479.000	0.720	344.88
Pheno-Seal	43.000	1.224	52.63

Total 4,191.98

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

WE APPRECIATE YOUR BUSINESS!

TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	DK Operating	Date:	12/19/2017	Ticket No.:	100863
Field Rep:	Mike				
Address:					
City, State:					
County, Zip:					

Field Order No.:	100863	Open Hole:		Perf Depths (ft)	Perfs
Well Name:	Virginia # 2-13	Casing Depth:	236'		
Location:	Ness City	Casing Size:	8 5/8 24 LB		
Formation:		Tubing Depth:			
Type of Service:	Surface	Tubing Size:			
Well Type:	Oil	Liner Depth:			
Age of Well:	New	Liner Size:			
Packer Type:		Liner Top:			
Packer Depth:		Liner Bottom:			
Treatment Via:	Casing	Total Depth:	237'		
				Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
9:30 AM					Called Out			
12:00 PM					On Location W/Trucks Hold Safety Meeting			
					Spot & Set Up Trucks			
					TD= 237' TP= 236' SJ= 20' Run 5 Jt's 8 5/8 24 Lb			
1:30 PM					Start Casing			
3:20 PM					Casing On Bottom Break Circulation W/Rig			
3:30 PM	4.5		150.0		Start Pumping H2O			10.00
3:35 PM	4.0		200.0		Start Mix & Pump 170 Sk 2% Gel 3% CC 1/4 Lb PS			41.48
3:45 PM	4.0		200.0		Start Displacmnt			
3:50 PM			200.0		Shut Down Close Vavle On Casing			13.75
					Good Circulation Thru Job			
					Circulate 15 Sacks To Pit			
					Wash Up Truck & Rack Up Trucks			
					Off Location			
					Thank You			
					Please Call Again			
					Brad Cody Darren			
TOTAL:						-	-	65.23

SUMMARY

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
4.5	4.2	200.0	187.5

PRODUCTS USED

170 Sacks Common 2% Gel 3% Calcium Chloride 1/4 Lb Pheno

Treater: Todd Seba

Customer: Mike Kern



DRILL STEM TEST REPORT

Prepared For: **DK Operating Inc**

621 Benton St
Jetmore, KS 67854

ATTN: Jason Alm

Virginia #2-13

13-20S-23W Ness,KS

Start Date: 2018.01.08 @ 03:46:00

End Date: 2018.01.08 @ 11:25:39

Job Ticket #: 63268 DST #: 1

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

Printed: 2018.01.11 @ 08:18:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DK Operating Inc
621 Benton St
Jetmore, KS 67854
ATTN: Jason Alm

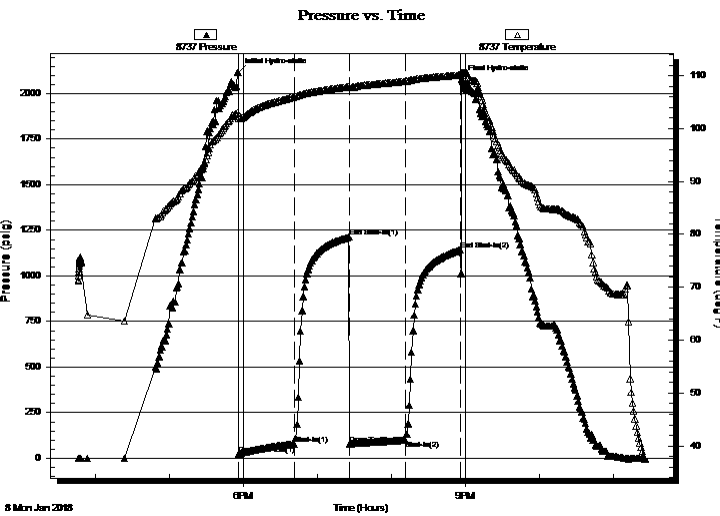
13-20S-23W Ness,KS
Virginia #2-13
Job Ticket: 63268 **DST#: 1**
Test Start: 2018.01.08 @ 03:46:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:55:50
Time Test Ended: 11:25:39
Interval: **4261.00 ft (KB) To 4345.00 ft (KB) (TVD)**
Total Depth: 4345.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72
Reference Elevations: 2226.00 ft (KB)
2219.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8737 Outside
Press@RunDepth: 1143.04 psig @ 4263.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.01.08 End Date: 2018.01.08 Last Calib.: 2018.01.08
Start Time: 15:46:01 End Time: 23:25:40 Time On Btm: 2018.01.08 @ 17:55:30
Time Off Btm: 2018.01.08 @ 20:56:50

TEST COMMENT: IFP 45 Minutes Blow built to 7"
ISI 45 Minutes No blow back
FFP 45 Minutes Blow built to 6 1/2"
FSI 45 Minutes Very slight surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.28	102.94	Initial Hydro-static
1	22.88	101.96	Open To Flow (1)
46	76.41	106.01	Shut-In(1)
90	1212.19	107.87	End Shut-In(1)
91	79.47	107.71	Open To Flow (2)
136	98.69	108.94	Shut-In(2)
180	1143.04	110.11	End Shut-In(2)
182	2075.64	110.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Clean Oil 100%	0.20
60.00	WOCM Water 5% Oil 25% Mud 75%	0.30
90.00	SOCM Oil 5% Mud 95%	1.08

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating Inc
621 Benton St
Jetmore, KS 67854
ATTN: Jason Alm

13-20S-23W Ness,KS
Virginia #2-13
Job Ticket: 63268 **DST#: 1**
Test Start: 2018.01.08 @ 03:46:00

Tool Information

Drill Pipe:	Length: 4126.00 ft	Diameter: 3.80 inches	Volume: 57.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 58.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4261.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.50 ft			
Tool Length:	110.50 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			4235.00	
Shut In Tool	5.00			4240.00	
Hydraulic tool	5.00			4245.00	
Jars	5.00			4250.00	
Safety Joint	2.00			4252.00	
Packer	5.00			4257.00	27.00 Bottom Of Top Packer
Packer	4.00			4261.00	
Recorder	1.00	8653	Inside	4262.00	
Recorder	1.00	8737	Outside	4263.00	
Perforations	14.00			4277.00	
Change Over Sub	1.00			4278.00	
Drill Pipe	62.50			4340.50	
Change Over Sub	1.00			4341.50	
Bullnose	3.00			4344.50	83.50 Bottom Packers & Anchor

Total Tool Length: 110.50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating Inc
621 Benton St
Jetmore, KS 67854
ATTN: Jason Alm

13-20S-23W Ness,KS
Virginia #2-13
Job Ticket: 63268 **DST#: 1**
Test Start: 2018.01.08 @ 03:46:00

Mud and Cushion Information

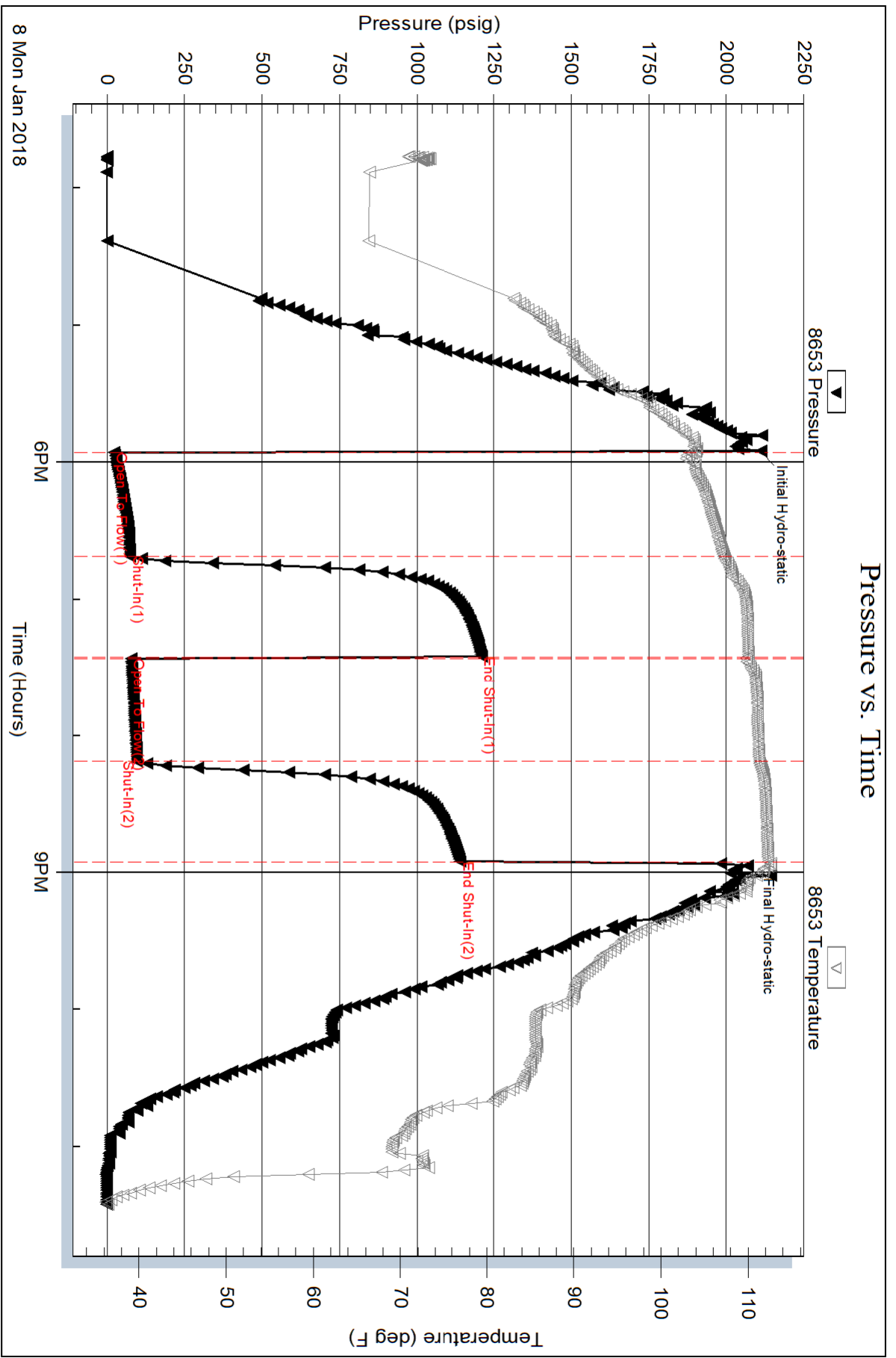
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

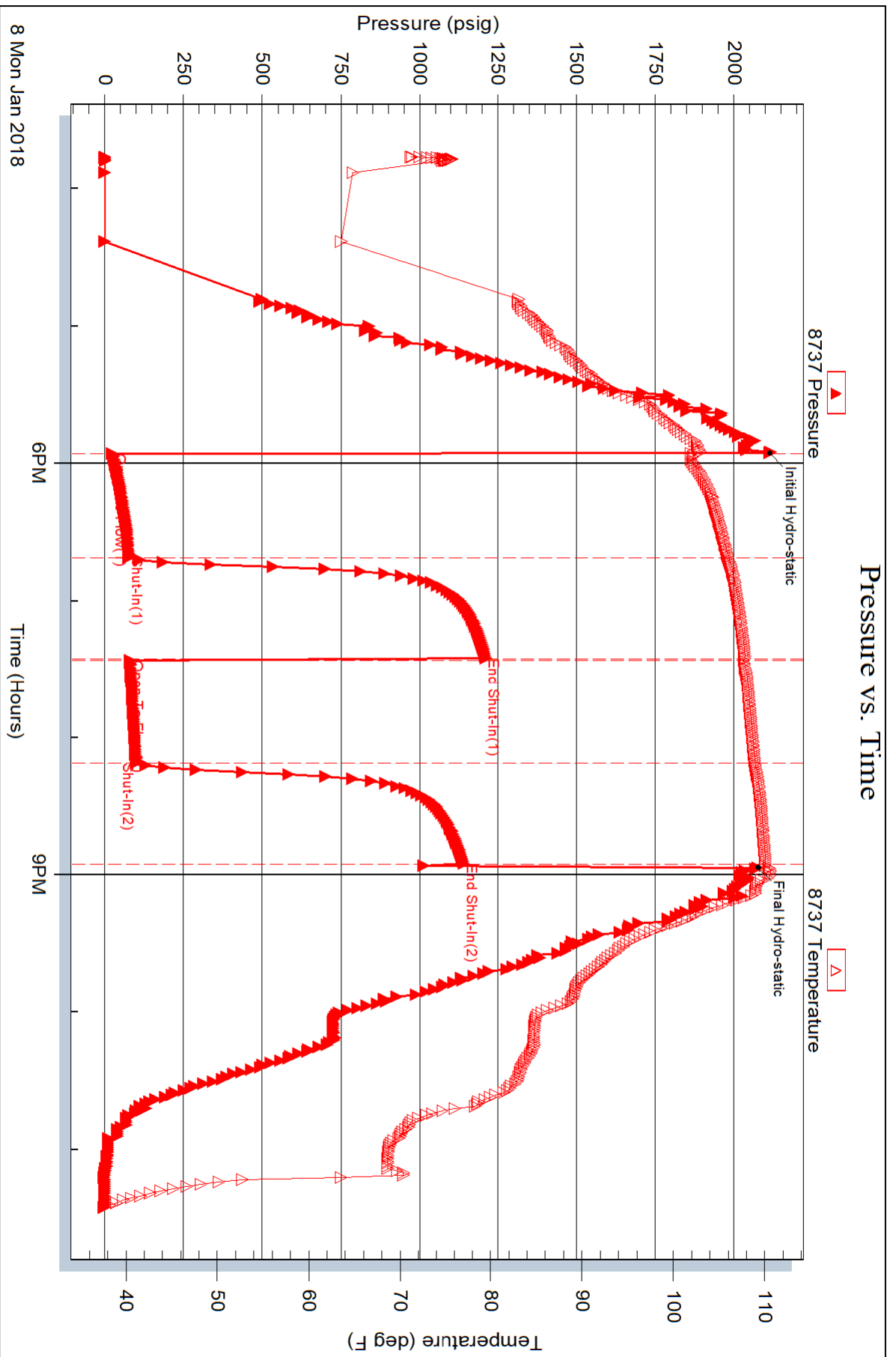
Recovery Information

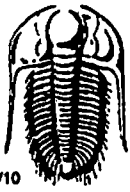
Recovery Table

Length ft	Description	Volume bbl
40.00	Clean Oil 100%	0.197
60.00	WOCM Water 5% Oil 25% Mud 75%	0.295
90.00	SOCM Oil 5% Mud 95%	1.080

Total Length: 190.00 ft Total Volume: 1.572 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63268

Well Name & No. Virginia #2-13 Test No. 1 Date 8 JAN 18
 Company DK Operating Inc. Elevation 2226 KB 2219 GL
 Address 621 Benton St Jetmore Kansas 67854
 Co. Rep / Geo. Jason Alm Rig Pickrell Rig 10
 Location: Sec. 13 Twp. 20S Rge. 23W Co. Ness State KS

Interval Tested 4261-4345 Zone Tested Cherokee
 Anchor Length 84 Drill Pipe Run 4126 Mud Wt. 9.1
 Top Packer Depth 4256 Drill Collars Run 120 Vis 52
 Bottom Packer Depth 4261 Wt. Pipe Run - WL 8.0
 Total Depth 4345 Chlorides 4000 ppm System LCM 2.5 #
 Blow Description I.F. Blow built to 7 inches

I.S.I. No blow back

F.F. Blow built to 6 1/2 inches

F.S.I. Very slight surface blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Clean Oil</u>		<u>100</u>		
<u>60</u>	<u>Water cut Oil Mud</u>	<u>25</u>	<u>5</u>	<u>70</u>	
<u>90</u>	<u>Oil cut Mud</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 190 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2111 Test 1150 T-On Location 12:30 pm
 (B) First Initial Flow 21 Jars 250 T-Started 3:46 pm
 (C) First Final Flow 73 Safety Joint 75 T-Open 5:56 pm
 (D) Initial Shut-In 1210 Circ Sub _____ T-Pulled 8:56 pm
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 11:26 pm
 (F) Second Final Flow 95 Mileage 152 ¹¹⁴ Comments _____
 (G) Final Shut-In 1141 Sampler _____
 (H) Final Hydrostatic 2069 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1589.00
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1589

Approved By _____ Our Representative [Signature]
 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.

General Data

Well Data: DK Operating, Inc.
Virginia #2-13
1445' FNL & 2301' FWL
Sec. 13 T20s R23w
Ness County, Kansas
API # 15-135-25985-0000

Drilling Contractor: Pickrell Drilling Rig #10

Geologist: Jason T Alm

Spud Date: December 18, 2017

Completion Date: January 9, 2018

Elevation: 2219' Ground Level
2226' Kelly Bushing

Directions: Bazine KS, West on Hwy 96 to AA Rd. South 9
mi. to 40 Rd. West ½ mi. South into location.

Casing: 232' 8 5/8" surface casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "Dan Schmidt"
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: One, Trilobite Testing, Inc. "Ken Swinney"

Problems: Cedar Hills chased the pipe out of the hole while tripping.

Remarks: None



1-22-18
OK#3073

Invoice

Page: 1

Pioneer Wireline Services, LLC
Service Location: Hays, KS (Wireline)
For questions or comments, please call: (785) 625-3858

INVOICE NUMBER: 0000003691
 INVOICE DATE: 1/9/2018
 DUE DATE: 1/9/2018
 CLIENT: DKOPER

Sold To

DK Operating
 Attention: Accounts Payable
 621 Benton Street
 Jetmore, KS 67854 USA

Well Name: VIRGINIA #2-13
Field:
API/OCSG#:
Well Stage: Pre-production
County: Ness
State: KS

Primary Service: OH Logging
AFE #:
Contract #:
PO #:
Unit #: P-91
Last Work Date: 1/9/2018

ITEM CODE	DESCRIPTION	TAX	QTY	UNIT PRICE	AMOUNT
32591	Gamma Ray Log Depth		6,000.00	0.06	331.58
32592	Gamma Ray Log Operation		2,000.00	0.06	110.53
32551	Compensated Neutron Log Depth		6,000.00	0.08	497.37
32552	Compensated Neutron Log Operation		2,000.00	0.08	165.79
32571	Compensated Formation Density Log Depth		6,000.00	0.11	663.15
32572	Compensated Formation Density Log Oper		2,000.00	0.11	221.05
32621	Microlog Depth		6,000.00	0.06	331.58
32622	Microlog Operation		2,000.00	0.06	110.53
32511	Dual Induction Log Depth		6,000.00	0.11	663.16
32512	Dual Induction Log Operation		2,000.00	0.11	221.05
32611	Borehole Compensated Sonic Log Depth		6,000.00	0.11	663.16
32612	Borehole Compensated Sonic Log Operation Tickets: T-CE7-160-3FBB		2,000.00	0.11	221.05
		LAST ITEM			

THANK YOU FOR YOUR BUSINESS

Please remit payment to one of the following locations:

Wire Transfer & ACH:

Bank: Wells Fargo Bank, N.A.
 Houston, TX 77002

ABA #: 121000248

Acct #: 4121817860

Confirmation: credit@pioneer.com

Standard US Mail:

Pioneer Wireline Services, LLC

PO Box 202567

Dallas, TX 75320-2567

Subtotal	4,200.00
Sales Tax	0.00
Payment/Credit Amount	0.00
Balance:	4,200.00

TERMS: If Company has an approved open account with Pioneer, invoices are payable NET 30 days from date of invoice. If Company does not have an approved open account with Pioneer, all sums are payable prior to performance of services or delivery of equipment, products, or materials. Company agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Pioneer employs an attorney for collection of any account, Company agrees to pay reasonable attorney fees plus all collection and court costs.



Pioneer Energy Services

DATE: 01/09/2018

LOCATION: Hays, KS (Wireline) Brett Becker (785) 625-3858

UNIT: P-91

ENGINEER: Daniel Schmidt

TICKET NUMBER: T-CE7-160-3FBB

CLIENT INFO	COMPANY: Unknown Client <i>DK Operating</i>			PO#:		
	BILLING ADDRESS:			CITY:	ST:	ZIP:
WELL INFO	WELL NAME: VIRGINIA #2-13		FIELD / BLOCK:		COUNTY / PARISH: Ness	ST: KS - Kansas
	API / OCSG#:	AFE#:	PRICE ZONE: LAND			Page 1 of 3

CODE	SERVICE DESCRIPTION	QTY	AMOUNT
Setup Charges - SETUP CHARGE			
Run 01 - STACK/MICRO			
32591	Gamma Ray Log Depth	6000	\$331.58
32592	Gamma Ray Log Operation	2000	\$110.53
32551	Compensated Neutron Log Depth	6000	\$497.37
32552	Compensated Neutron Log Operation	2000	\$165.79
32571	Compensated Formation Density Log Depth	6000	\$663.15
32572	Compensated Formation Density Log Oper	2000	\$221.05
32621	Microlog Depth	6000	\$331.58
32622	Microlog Operation	2000	\$110.53
32511	Dual Induction Log Depth	6000	\$663.16
32512	Dual Induction Log Operation	2000	\$221.05
Run 02 - SONIC			
32611	Borehole Compensated Sonic Log Depth	6000	\$663.16
32612	Borehole Compensated Sonic Log Operation	2000	\$221.05



Pioneer Energy Services

DATE: 01/09/2018

LOCATION: Hays, KS (Wireline) Brett Becker (785) 625-3858

UNIT: P-91

ENGINEER: Daniel Schmidt

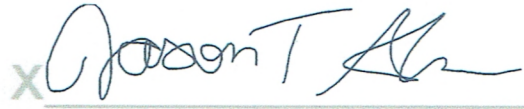
TICKET NUMBER: T-CE7-160-3FBB

CLIENT INFO	COMPANY: Unknown Client		PO#:		
	BILLING ADDRESS:		CITY:	ST:	ZIP:
WELL INFO	WELL NAME: VIGINIA #2-13		FIELD / BLOCK:		COUNTY / PARISH: Ness
	API / OCSG#:	AFE#:	PRICE ZONE: LAND		ST: KS - Kansas

Page 2 of 3

TICKET TOTALS AND RUN SUMMARY	
Run Number	Total
Setup Charges	\$0.00
Run 01	\$3,315.79
Run 02	\$884.21
SUB TOTAL	\$4,200.00
TAX	TBD
NET TOTAL	\$4,200.00


Supervisor


JASON ALM

SIGNED DATE: 01/09/2018 TIME: 01:59 PM

* Client accepts all terms and conditions of sale and service, including those provided as an addendum to this field ticket.



Pioneer Energy Services

DATE: 01/09/2018

LOCATION: Hays, KS (Wireline) Brett Becker (785) 625-3858

UNIT: P-91

ENGINEER: Daniel Schmidt

TICKET NUMBER: T-CE7-160-3FBB

CLIENT INFO	COMPANY: Unknown Client		PO#:		
	BILLING ADDRESS:		CITY:	ST:	ZIP:
WELL INFO	WELL NAME: VIGINIA #2-13		FIELD / BLOCK:		COUNTY / PARISH: Ness
	API / OCSG#:	AFE#:	PRICE ZONE: LAND		ST: KS - Kansas
					Page 3 of 3

Work Order Contract / Terms and Conditions

- A. CUSTOMER REPRESENTATION: Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by Pioneer Wireline Services, LLC (hereinafter "Pioneer").
- B. PRICE AND PAYMENT: Pioneer's prices are based on the Customer RELEASING, DEFENDING, INDEMNIFYING AND HOLDING HARMLESS Pioneer from certain liabilities as provided herein. If Pioneer has an approved open account with Customer, invoices are payable Net 30-days from the date of invoice. If Pioneer does not have an approved open account with Customer, all sums are payable prior to performance of services or delivery of equipment, products or materials. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Pioneer employs an attorney for collection of any account, Customer agrees to pay actual attorneys' fees, plus all collection and court costs. Any tax based on or measured by the charges made for the cash receipts from the sale of products and/or services shall be in addition to the charge stated in the price schedule.
- C. **RELEASE AND INDEMNITY: CUSTOMER AGREES TO RELEASE PIONEER FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAD THE ABILITY TO BIND BY CONTRACT OR WHICH ARE CO-INTEREST OWNERS OR JOINT VENTURES WITH CUSTOMER. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD PIONEER HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM: LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND CONTAMINATION AND ITS CLEANUP AND CONTROL.**
- D. **CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE PIONEER GROUP, THE UNSEAWORTHINESS OF ANY VESSEL, OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY ANY MEMBER OR MEMBERS OF THE PIONEER GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "PIONEER GROUP" IS DEFINED AS PIONEER WIRELINE SERVICES, LLC, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES, INSURERS AND SUBCONTRACTORS AND ALL ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, CONSULTANTS AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE PIONEER GROUP, CUSTOMER OR ANY OTHER PERSON OR ENTITY. CUSTOMER AGREES TO NAME PIONEER GROUP AS NAMED ADDITIONAL INSURED ON ALL OF ITS GENERAL LIABILITY POLICY(S). CUSTOMER AGREES THAT ITS LIABILITY UNDER THIS CONTRACT IS NOT LIMITED BY THE AMOUNTS OF ITS INSURANCE COVERAGE, EXCEPT WHERE AND AS MAY BE REQUIRED BY APPLICABLE LOCAL LAW FOR THE PROVISIONS OF THIS CONTRACT TO BE ENFORCEABLE.**
- E. EQUIPMENT LIABILITY: Customer shall at its risk and expense attempt to recover any Pioneer Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and Customer agrees that should a sealed source of radioactive material be lost or lodged in the well, special precautions will be taken by Customer in fishing operations to avoid damage or breakage of source container and that, if source is not recovered, it will be isolated by cementing it in place or fixing it in well by some other appropriate means, in accordance with NRC regulations or any other applicable laws or regulations. Customer shall permit Pioneer to monitor the recovery or abandonment efforts all at no risk or liability to Pioneer Group. Customer shall be responsible for damage to or loss of Pioneer Group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Pioneer at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Pioneer Group equipment damaged by corrosion or abrasion due to well effluents.
- F. WARRANTY: **PIONEER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.** In no event shall Pioneer be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, **PIONEER IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS OR SERVICES, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY PIONEER GROUP.** Customer agrees that Pioneer Group shall not be liable for and **CUSTOMER SHALL INDEMNIFY PIONEER GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, EVEN IF SUCH IS CONTRIBUTED TO OR CAUSED BY THE ACTIVE OR PASSIVE NEGLIGENCE, FAULT OR STRICT LIABILITY OF ANY MEMBER OR MEMBERS OF PIONEER GROUP.**
- G. SEVERABILITY: If any provision or part thereof of this Contract shall be held to be invalid, void or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract.
- H. MODIFICATIONS: Customer agrees that Pioneer shall not be bound to any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Pioneer.

I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. I AM SIGNING THIS WORK ORDER CONTRACT WITH THE UNDERSTANDING THAT ITS TERMS AND CONDITIONS WILL NOT APPLY TO THE EXTENT THEY CONFLICT WITH TERMS AND CONDITIONS OF A SIGNED MASTER SERVICE AGREEMENT BETWEEN THE PARTIES.

3613A Y Road
Madison, KS 66860
Ph: 620-437-2661
Fax: 620-437-2881

1-15-18
CL# 3054
#



HURRICANE SERVICES INC

104 Prairie Plaza Parkway
Garnett, KS 66032
Ph: 785-448-3100
Fax: 785-448-3102

FED ID# 48-1214033
MC ID# 165290

Remit to: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202

Customer:
DK OPERATING INC
621 BENTON ST
JETMORE, KS 67854-5311

Invoice Date: 12/19/2017
Invoice #: 0035982
Lease Name: VIRGINIA
Well #: 2-13
County: NESS

Date/Description	HRS/QTY	Rate	Total
Ticket 100863 237' Surface	0.000	0.000	0.00
Heavy Eq mileage one way	160.000	2.340	374.40
Light Eq mileage one way	80.000	1.080	86.40
Ton mileage one way #241	632.000	0.936	591.55
Cementer #231	1.000	684.000	684.00
Regular class A cement	170.000	11.700	1,989.00
Bentonite Gel	320.000	0.216	69.12
Calcium chloride	479.000	0.720	344.88
Pheno-Seal	43.000	1.224	52.63

Total 4,191.98

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

WE APPRECIATE YOUR BUSINESS!

TREATMENT REPORT



HURRICANE SERVICES INC

Customer:	DK Operating	Date:	12/19/2017	Ticket No.:	100863
Field Rep:	Mike				
Address:					
City, State:					
County, Zip:					

Field Order No.:	100863	Open Hole:		Perf Depths (ft)	Perfs
Well Name:	Virginia # 2-13	Casing Depth:	236'		
Location:	Ness City	Casing Size:	8 5/8 24 LB		
Formation:		Tubing Depth:			
Type of Service:	Surface	Tubing Size:			
Well Type:	Oil	Liner Depth:			
Age of Well:	New	Liner Size:			
Packer Type:		Liner Top:			
Packer Depth:		Liner Bottom:			
Treatment Via:	Casing	Total Depth:	237'		
				Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
9:30 AM					Called Out			
12:00 PM					On Location W/Trucks Hold Safety Meeting			
					Spot & Set Up Trucks			
					TD= 237' TP= 236' SJ= 20' Run 5 Jt's 8 5/8 24 Lb			
1:30 PM					Start Casing			
3:20 PM					Casing On Bottom Break Circulation W/Rig			
3:30 PM	4.5		150.0		Start Pumping H2O			10.00
3:35 PM	4.0		200.0		Start Mix & Pump 170 Sk 2% Gel 3% CC 1/4 Lb PS			41.48
3:45 PM	4.0		200.0		Start Displacmnt			
3:50 PM			200.0		Shut Down Close Vavle On Casing			13.75
					Good Circulation Thru Job			
					Circulate 15 Sacks To Pit			
					Wash Up Truck & Rack Up Trucks			
					Off Location			
					Thank You			
					Please Call Again			
					Brad Cody Darren			
TOTAL:						-	-	65.23

SUMMARY

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
4.5	4.2	200.0	187.5

PRODUCTS USED

170 Sacks Common 2% Gel 3% Calcium Chloride 1/4 Lb Pheno

Treater: Todd Seba

Customer: Mike Kern

Geological Report

Virginia #2-13
1445' FNL & 2301' FWL
Sec. 13 T20s R23w
Ness County, Kansas



DK Operating, Inc.

General Data

Well Data: DK Operating, Inc.
Virginia #2-13
1445' FNL & 2301' FWL
Sec. 13 T20s R23w
Ness County, Kansas
API # 15-135-25985-0000

Drilling Contractor: Pickrell Drilling Rig #10

Geologist: Jason T Alm

Spud Date: December 18, 2017

Completion Date: January 9, 2018

Elevation: 2219' Ground Level
2226' Kelly Bushing

Directions: Bazine KS, West on Hwy 96 to AA Rd. South 9
mi. to 40 Rd. West ½ mi. South into location.

Casing: 232' 8 5/8" surface casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "Dan Schmidt"
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: One, Trilobite Testing, Inc. "Ken Swinney"

Problems: Cedar Hills chased the pipe out of the hole while
tripping.

Remarks: None

Formation Tops

Formation	DK Operating, Inc. Virginia #2-13 Sec. 13 T20s R23w 1445' FNL & 2301' FWL
Anhydrite Base	1418' +808 1455' +771
Heebner	3654' -1428
Lansing	3702' -1476
BKC	4024' -1798
Pawnee	4147' -1921
Fort Scott	4216' -1990
Cherokee	4239' -2013
Basil Cher Sand	4298' -2072
Reworked Miss	4330' -2104
Osage	4344' -2118
LTD	4404' -2178
RTD	4400' -2174

Sample Zone Descriptions

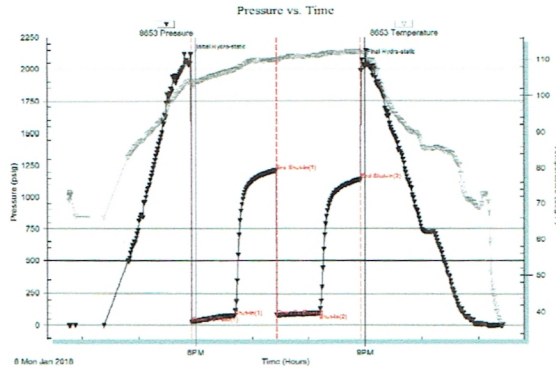
- Fort Scott (4216', -1990): Not Tested**
 Ls – Fine crystalline, oolitic packstone in part with good oomoldic porosity, very light spotted oil stain, no show of free oil, scattered fair yellow fluorescents.
- Basil Cher Sand (4298', -2072): Covered in DST #1**
 Ss – Quartz, clear to slightly frosted, fine to medium grained, sub-rounded, fair to well cemented, fair to well sorted with poor inter-granular porosity, light to fair oil stain, slight show of free oil on break, good odor, fair yellow fluorescents.
- Mississippian Osage (4344', -2118): Not Tested**
 Δ – Dolo – Mostly fresh with scattered vuggy porosity, slightly dolomitic, fine crystalline with spotted light oil stain, mostly barren, strong sour odor, dull scattered fluorescents.

Drill Stem Tests
Trilobite Testing, Inc.
"Ken Swinney"

DST #1 Basil Cherokee Sand

Interval (4261' - 4345') Anchor Length 84'

IHP	- 2112 #	
IFP	- 45" - Built to 7 in.	21-74 #
ISI	- 45" - Dead	1210 #
FFP	- 45" - Built to 6 1/2 in.	77-96 #
FSI	- 45" - Dead	1141 #
FHP	- 2069 #	
BHT	- 112°F	



Recovery: 40' Clean Oil
60' WOCM 25% Oil, 5% Water
90' SOCM 5% Oil

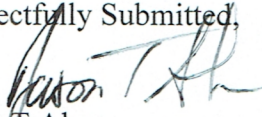
Structural Comparison

	DK Operating, Inc. Virginia #2-13 Sec. 13 T20s R23w 1445' FNL & 2301' FWL	Pickrell Drilling Co. Maranville #1 Sec. 13 T20s R23w C SE NW		Pickrell Drilling Co. Maranville #2 Sec. 13 T20s R23w C NE NW	
Formation					
Anhydrite	1418' +808	1419' +807	(+1)	1419' +807	(+1)
Base	1455' +771	NA	NA	NA	NA
Heebner	3654' -1428	3657' -1431	(+3)	3666' -1440	(+12)
Lansing	3702' -1476	3706' -1480	(+4)	3714' -1488	(+12)
BKC	4024' -1798	4032' -1806	(+8)	NA	NA
Pawnee	4147' -1921	4152' -1926	(+5)	4158' -1932	(+11)
Fort Scott	4216' -1990	4221' -1995	(+5)	4228' -2002	(+12)
Cherokee	4239' -2013	4247' -2021	(+8)	4252' -2026	(+13)
Basil Cher Sand	4298' -2072	Not Encountered	NE	Not Encountered	NE
Reworked Miss	4330' -2104	4308' -2082	(-22)	4307' -2081	(-23)
Osage	4344' -2118	4330' -2104	(-14)	4335' -2109	(-8)

Summary

The location for the Virginia #2-13 was found via 3-D seismic survey. The new well ran structurally as expected via the survey on all datums except the Mississippian. One Drill Stem Test was conducted over the Basil Cherokee Sand, the results were inconclusive. After all gathered data had been examined the decision was made to plug and abandon the Virginia #2-13 well.

Respectfully Submitted,


Jason T. Alm
Hard Rock Consulting, Inc.

Geological Report

Virginia #2-13
1445' FNL & 2301' FWL
Sec. 13 T20s R23w
Ness County, Kansas



DK Operating, Inc.

General Data

Well Data: DK Operating, Inc.
Virginia #2-13
1445' FNL & 2301' FWL
Sec. 13 T20s R23w
Ness County, Kansas
API # 15-135-25985-0000

Drilling Contractor: Pickrell Drilling Rig #10

Geologist: Jason T Alm

Spud Date: December 18, 2017

Completion Date: January 9, 2018

Elevation: 2219' Ground Level
2226' Kelly Bushing

Directions: Bazine KS, West on Hwy 96 to AA Rd. South 9
mi. to 40 Rd. West ½ mi. South into location.

Casing: 232' 8 5/8" surface casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3600' to RTD

Electric Logs: Pioneer Energy Services "Dan Schmidt"
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: One, Trilobite Testing, Inc. "Ken Swinney"

Problems: Cedar Hills chased the pipe out of the hole while
tripping.

Remarks: None

Formation Tops

	DK Operating, Inc. Virginia #2-13 Sec. 13 T20s R23w 1445' FNL & 2301' FWL
Formation	
Anhydrite	1418' +808
Base	1455' +771
Heebner	3654' -1428
Lansing	3702' -1476
BKC	4024' -1798
Pawnee	4147' -1921
Fort Scott	4216' -1990
Cherokee	4239' -2013
Basil Cher Sand	4298' -2072
Reworked Miss	4330' -2104
Osage	4344' -2118
LTD	4404' -2178
RTD	4400' -2174

Sample Zone Descriptions

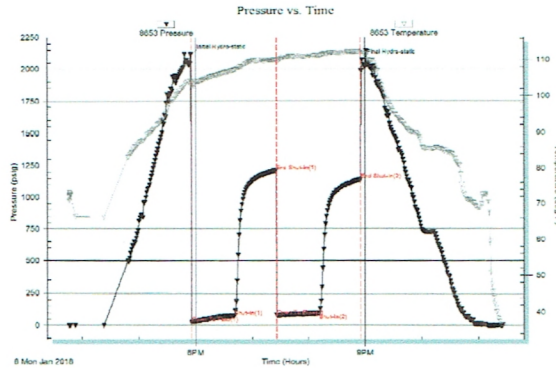
- Fort Scott (4216', -1990): Not Tested**
 Ls – Fine crystalline, oolitic packstone in part with good oomoldic porosity, very light spotted oil stain, no show of free oil, scattered fair yellow fluorescents.
- Basil Cher Sand (4298', -2072): Covered in DST #1**
 Ss – Quartz, clear to slightly frosted, fine to medium grained, sub-rounded, fair to well cemented, fair to well sorted with poor inter-granular porosity, light to fair oil stain, slight show of free oil on break, good odor, fair yellow fluorescents.
- Mississippian Osage (4344', -2118): Not Tested**
 Δ – Dolo – Mostly fresh with scattered vuggy porosity, slightly dolomitic, fine crystalline with spotted light oil stain, mostly barren, strong sour odor, dull scattered fluorescents.

Drill Stem Tests
Trilobite Testing, Inc.
"Ken Swinney"

DST #1 Basil Cherokee Sand

Interval (4261' - 4345') Anchor Length 84'

IHP	- 2112 #	
IFP	- 45" - Built to 7 in.	21-74 #
ISI	- 45" - Dead	1210 #
FFP	- 45" - Built to 6 1/2 in.	77-96 #
FSI	- 45" - Dead	1141 #
FHP	- 2069 #	
BHT	- 112°F	



Recovery: 40' Clean Oil
60' WOCM 25% Oil, 5% Water
90' SOCM 5% Oil

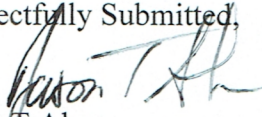
Structural Comparison

	DK Operating, Inc. Virginia #2-13 Sec. 13 T20s R23w 1445' FNL & 2301' FWL	Pickrell Drilling Co. Maranville #1 Sec. 13 T20s R23w C SE NW		Pickrell Drilling Co. Maranville #2 Sec. 13 T20s R23w C NE NW	
Formation					
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Base	1455' +771	NA	NA	NA	NA
Heebner	3654' -1428	3657' -1431	(+3)	3666' -1440	(+12)
Lansing	3702' -1476	3706' -1480	(+4)	3714' -1488	(+12)
BKC	4024' -1798	4032' -1806	(+8)	NA	NA
Pawnee	4147' -1921	4152' -1926	(+5)	4158' -1932	(+11)
Fort Scott	4216' -1990	4221' -1995	(+5)	4228' -2002	(+12)
Cherokee	4239' -2013	4247' -2021	(+8)	4252' -2026	(+13)
Basil Cher Sand	4298' -2072	Not Encountered	NE	Not Encountered	NE
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