Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1339140

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Described	Chloride content: ppm Fluid volume: bbls
☐ Commingled Permit #: ☐ Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	Eccation of haid disposal in hadica offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec. Twp. S. R. East West
Recompletion Date Recompletion Date	County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY					
Confidentiality Requested					
Date:					
Confidential Release Date:					
Wireline Log Received					
Geologist Report Received					
UIC Distribution					
ALT I II III Approved by: Date:					

1339140

Operator Name:			Lease Name:			Well #:	
Sec Twp	S. R [East West	County:				
instructions: Sho open and closed, flowing and flow rates if gas to Final Radioactivity Log files must be submitted	ng and shut-in pressur surface test, along wit ,, Final Logs run to obt	res, whether shut-in p th final chart(s). Atta ain Geophysical Data	oressure reached sta ch extra sheet if mo a and Final Electric I	atic level, hydrosta re space is neede Logs must be em	atic pressures, bo ed.	ottom hole tempe	erature, fluid recovery,
Drill Stem Tests Taken (Attach Additional S	iheets)	Yes No		Log Formati	ion (Top), Depth a	and Datum	Sample
Samples Sent to Geolo	,	☐ Yes ☐ No	Na	me		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		O A CIA	0.0000				
			G RECORD I et-conductor, surface, in	New Used ntermediate, produc	etion, 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
		ADDITION	AL CEMENTING / SC	UEEZE RECORD)	l	I
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used		Type and	Percent Additives	
Perforate Protect Casing Plug Back TD	10, 201011						
Plug Off Zone							
Did you perform a hydraul Does the volume of the to Was the hydraulic fracturing	tal base fluid of the hydra	ulic fracturing treatment	_		No (If No, s	kip questions 2 an kip question 3) Il out Page Three	
Shots Per Foot		N RECORD - Bridge Plotage of Each Interval P			acture, Shot, Cemer		d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No	0	
Date of First, Resumed F	Production, SWD or ENHF	R. Producing M	ethod:	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours	Oil Bb	ols. Gas			Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	DN OF GAS:		METHOD OF COMP	LETION:		PRODUCTIO	ON INTERVAL:
Vented Sold	Used on Lease	Open Hole	Perf. Dua	lly Comp. Co	ommingled bmit ACO-4)		···· -
(If vented, Subi	mit ACO-18.)	Other (Specify)	(Subm	(SUI	UIIII AUU-4) —		

Form	ACO1 - Well Completion
Operator	DK Operating Inc.
Well Name	VIRGINIA 1-13
Doc ID	1339140

Tops

Name	Тор	Datum		
Heebner	3652'	-1429'		
Lansing	3700'	-1477'		
Stark	3964'	-1741'		
Pawnee	4147'	-1924'		
Ft. Scott	4216'	-1993'		
Cherokee	4240'	-2017'		
Mississippi Warsaw	4302'	-2079'		
Osage	4324'	-2101'		

Form	ACO1 - Well Completion				
Operator	DK Operating Inc.				
Well Name	VIRGINIA 1-13				
Doc ID	1339140				

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	28	205	Standard	150	3%CC2% Gel
Production	7.875	5.5	17	4341	EA-2	175	NA

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Pat Apple, Chairman Shari Feist Albrecht, Commissioner Jay Scott Emler, Commissioner

February 23, 2017

Daniel L King DK Operating Inc. 621 BENTON ST. JETMORE, KS 67854

Re: ACO-1 API 15-135-25923-00-00 VIRGINIA 1-13 NW/4 Sec.13-20S-23W Ness County, Kansas

Dear Daniel L King:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 10/21/2016 and the ACO-1 was received on February 23, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



Reserve Pit Chlorides=

72,000ppm.

Engineer	DENNIS RECTOR

E-Mail drector.tuffmudder@gmail.com

Phone 785-625-3531 Office 785-656-3039 Cell

DRILLING MUD REPORT

REPORT NO.	4	DATE	10/28/2016	DEPTH	4342

OPERATOR	DK OPERATING INC.	CONTRACTOR	PICKRELL DRLG	RIG NO.	# 10
ADDRESS	Company	ADDRESS	Rig	SPUD DATE	10/20/2016
REPORT FOR	AARON YOUNG(GEO)316-772-8744	REPORT FOR	MIKE KERN	SEC,TWN,RNG	13-20S-23W
WELL NAME AND NO.	VIRGINIA # 1-13	COUNTY AREA	NESS	STATE	Kansas

	DRILLING ASSE	MBLY				CASING	3		MU	JD VOLUME (E	BBL)
Bit Size	7 7/8	No. Bits	· · · · · · · · · · · · · · · · · · ·	2	Surface			Hole	323.5		400
Drill Pipe Size	4 1/2	Weight on	Bit	30.000	85/8@	210	ft.		Circulatin		723.5
Type	XH	Flowing Te			Intermediate				Jp Depth		3500
Drill Collar Size	6 1/4		•		@		ft.	Mud		· A - A TROPANDED OF BORNE	Chemical-Pac
Bit RPM	60				Production			Activi			DST # 2
Sample from flowline	X	Pit	· · · · · · · · · · · · · · · · · · ·		@		ft.	Pits U			3
Sumple from flowing	MUD PROPER					<u> </u>		*******	N DATA		
Time Sample Taken	THOS I NOT EN		10	AM	Pump Size						
Depth (ft.)			4342	Aivi	Pump Model	0714	Assumed Eff.	90%		197	DC 356
Weight (ppg)			9.4		Bbl/Stroke	0.120	Stroke/Min.			n Pressure (PSI)	800
Mud Gradient (psi/ft.)			0.4888		Bbl/Min		Gal/Min.			Up (Min.)	38.8
Funnel Viscosity (sec/qt.)		****	44		Elevation	0.34	2216 EST.	330		c Time (Min.)	86.8
Plastic Viscosity (sec/qt.)			12		Lievation	L	2210 E31.		Tiotal Cil	C Time (wim.)	00.0
Yield Point (lb./100 sq. ft	•		20		Daily Cost		\$698.35		Tot		\$10,805.15
Gel Strength (lb./100 sq. 10		in	11/18		Product		On Hand	Δ.	ld Del.	Used	
pH (Strip)	nt.) 10 Sec./10 m	111.	8.5		Premium Gel		13	A	ia Dei.	22	Cost
Filtrate API (ml./30 min.)		-	10.4		Hulls		21			2	
API HP-HT Filtrate (ml/30			XXX		Soda Ash		19	-		4	
Cake Thickness 32nd in.			1/32			 	10			1	
Alkalinity, Mud (Pm)	API		1.2		Caustic Lignite		4			1	
Alkalinity, Filtrate (Pf/Mf	s)		.8/		Lime		2			0	
Chlorides (ppm)	D		3600		Drispac					0	
Calcium (ppm)			10				<u>3</u> 2			0	
Sand Content (% by Vol.)			TR		Desco PHPA		1	-		0	
								-		1	
Solids Content (% by Vol	.)		7.6	-	Barite		124	-		0	
Oil Content (% by Vol.)	1 \		XXX		Cedar Fiber			-			
Water Content (% by Vo	1.)		92.4		Pol-E-Flake						
LCM, #/bbl Methylene Blue Capacity			3/4# XXX			1	AAUD DDODE	DTIEC	DECIFICA	TIONS]
					Weight	< 9.4	MUD PROPE Viscosity		18-50	Filtrate	8-10 cc
REI	MARKS				Weight	> 3.4	Viscosity		+6-30	rittate	8-10 CC
" THANK YOU"					I	RECOM	MENDED TOUR	TREAT	MENT		
" KEEP HOLE FULL " SHORT TRIP PRIOR TO DST AND LOG TO CLEAN & CONDITION HOLE			MAINTAIN VISCOSITY 48-50 SEC/QT WHILE DRLG, DST & LOG LCM AS NEEDED FOR 2 #/BBL RUN STREAM WATER @ FLOWLINE AS NEEDED TO CONTROL WT. 9.5#/GAL OR LESS SHORT TRIP PRIOR TO PULLING OUT FOR DST THEN CIRCULATE FOR 1 1/2 HOURS. KEEP HOLE FULL ON TRIPS ALWAYS NO FURTHER TREATMENT NEEDED IF TD								
				NING CAS		⊓ОМ &	IF DRILL TO TI	O, CIRC	ULATE TO	O CONDITION	HOLE PRIOR
		***************************************	<u> </u>								

Calcium= 810ppm.

Volume=

600bbls.

DATE -15-16 PAGENO. SWIFT Services, Inc. JOB TYPE ACIDIZE LEASE VIRGINA PENATING PRESSURE (PSI) DESCRIPTION OF OPERATION AND MATERIALS TUBING CASING ON LOCATION D.K. RUNNENLY TUBING. 4:28 TAU 4050' PERFS. 4325'-32'
FED. HT. 282' SPOT 4332'
278x5/2 TREAT 4280'+ TAFL 431L' Cs. 16' , 3808 Bb1 TO4316 24,98964 Bb1 TOTAL 25 37044 Bb/ 3.25 1858 3-0 UAC PumpFUL REST OF ALXS 3,50 SHUT DOWN ! LET LOAD ON TANK FRUSH 2-3 D UAC NOT GO ENA ANY WIETE STAGETUG 26 112:32 STAGING 24,25 500 500 27 16:59 STAULAGE GOOD DROP 33-0 28 500 28.50 475 433 PSC DROP SEE IF GOES ON VACUUM .33-D 17:12 VERY SLOW RIMP ON WELL AGAIN TAS ATTAK .33 2925 400 17:15 29.75 425-.33 450 30 TOEATING. ISTP TUSTANT FALL ON PST, 3050C VACUUM 31.33 475 ,33-0 Job Complete

John Justy Russell 17%

SWIFT Services, Inc. DATE 10-21-16 PAGE NO. TICKET NO. 29480 WELL NO. LEASE VIRGINITY JOB TYPE PERATING 1-13 PRESSURE (PSI) VOLUME (BBL) (GAL) RATE (BPM) PUMPS DESCRIPTION OF OPERATION AND MATERIALS T C TUBING CASING 200 On location SET PIPE e 210 RUN CSG CIRCULATE ON BOTTOM 445 200 PUMP WIR SPACER 250 PUMP CMT- 150 SKS @ 14.7 ppg 500 DISPLACE CMT 505 SHUT IN K CIRCULATED SO SKS CMT TO PIT Thanks David, Jon H. & Austin

10	1000	5 . 1 . 11	WELL NO.			LEASE		JOB TYPE 2 STV4GE	TICKET NO. 28-14 PAGE
ART	DPERAT		VOLUME	S PUMPS		VIRGINIA PRESSURE (PSI)		<u> </u>	1 27486
Ö.	TIME	RATE (BPM)	(BBL) (GAL)	T	C	TUBING	CASING	DESCRIPTION OF OPERATION A	AND MATERIALS
	2000						 	ON LOCATION	
								RTD-4342	
								SHOC- 34.62	
								SETPIPER 4344	
				3				CENTENUZERS-123	456,69
								BACKETS - 67.68	
								D.V. TOOL-68 @ 14	151
	3312						· · · · · · · · · · · · · · · · · · ·	STARY CSQ	
	100	·						Break Circ	
	200	_5_	12				300		- 500 GAL
		5	20			k.	300		
	215	_5	42				200		SKS EA-Zel
								Deop Plug - WASH Y	246
	230							Disolace Cour	
	250	4.5	100				1500	LAND Plug LIFT.	- 800 psi
								LAND Plug LIFT.	1500050
	255							Deal Bomp	3
		2				Ø		Plus RAT 30 S	KS SWIN @ 12
	305						1400	Open D.V. Tool	
		b	99				400	Pump Cont	
								Drop Plus	
	325							DISOLAGE COUT	
	335		33				1600	LAND Plug - Lift	1 600 psi
								LAND	> 1600 vsi
-								Drop Plus Displace Cour Land Plug - Lift Land	
							 	* Circulate 20 BBL	
_			-					Thanks David, Flint, I	
								David, Flint, I	ISAAC
_									N. M. C.
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1	20000		WELL NO.			SWIFT Services, Inc. LEASE VIRGINIA JOB TYPE 2 STYPIGE			TICKET NO.	
HART	DPERAT	<u> </u>	VOLUME PUMPS		IPS	VIRGI PRESSUR			TICKET NO. 29486	
NO.		RATE (BPM)	(BBL) (GAL)	T	С	TUBING	CASING	DESCRIPTION OF OPERATIO	N AND MATERIALS	
	2000							ON LOCATION		
								RTD-4342		
								SHOC- 34.62		
		-						SET PIPER 4344		
								CENTENETERS- 12;	345669	
								BARKLIS- 67, 68	7 1 1 1 1	
			·						451	
··	3312	allen 1974 ta 1971 sallen 1974 ta 1974						STARY CSq		
	100							Break Circ		
	200	5	12				300	PUMP MUDFIUSH	- 500 GAL.	
		5	20			4	300	Pump Kel Space		
	215	_5	42				DOD	Pump Crut - 175		
								Deep Plug-WASH		
	230							Displace Curt		
	250	4.5	100				1500		- 800/05i	
								CHAN		
	255							Deol Romp	3	
		2	11			Ø		Plus DAT 30 9	SK8 SWN @ 12.	
	305		·				1400	Open D.V. TOOL		
		6	99				400	Pump Cont		
								Drop Plus		
	325							Dicalore Car	٠ .	
	335		33				1600	LAND Plug - Lif	T 600 051	
								LAN	D 1600 psi	
								* Circulate 20 BB	L COUT TO PHY	
								Thanks		
								Thanks David, Flint,	ISAAC	
							,	, ,		

SWIFT Services, Inc. LEASE PLANT WELL NO. SHALLOW STREAL PUMPS PRESSURE (PSI) VOLUME (BBL) (GAL) DESCRIPTION OF OPERATION AND MATERIALS TUBING CASING 200 location SET PIPE @ 210 430 ON BOTTOM MD WIR SPACER 500 12 505 K CIRCULATED SO SKS CMT TO PIT Thanks David, Jon H & Austin

SWIFT Services, Inc. LEASE PLINIT WELL NO. SHALLOW STREAC PUMPS PRESSURE (PSI) RATE (BPM) VOLUME (BBL) (GAL) DESCRIPTION OF OPERATION AND MATERIALS TUBING CASING 200 10CATION SET PIPE @ 210 430 ON BOTTOM WITE SPACER 500 12 505 K CIRCULATED SO SKS CMT TO PIT Thanks David, Jon H & Austin

Geologic Report

Aaron L Young

Drilling Time and Sample Log

Scale 1:240 (5"=100") Imperial **Measured Depth Log**

Well Name: Virginia #1-13

API: 15-135-25923

Location: Section 13 - T20S - R23W

License Number: 32331

Spud Date: 10 / 20 / 2016

Surface Coordinates: 627' FSL and 406' FWL Approx. S2 - SE - SE - NW

Bottom Hole

Coordinates:

Ground Elevation (ft): 2216'

K.B. Elevation (ft): 2223'

Total Depth (ft): 4342'

Logged Interval (ft): 3500' To: 4342'

Formation: Mississippian

Type of Drilling Fluid: Chemical - Andy's Mud & Chemical Co.

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

Region: Ness Co., KS

Drilling Completed: 10 / 28 / 2016

OPERATOR

Company: DK Operating Inc. Address: 621 Benton St.

Jetmore, KS 67854

GEOLOGIST

Name: Aaron L. Young, M. S. Company: Young Consulting LLC

Address: 100 S. Main, Suite 505

Wichita, Kansas 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	RR	15-15-15	210	203	3.00
2	7-7/8	HA20QJ	15-15-15	4336	4133	114.75
3	7-7/8	HA33	14-14-15	4342	6	0.25

SURVEYS: 210'-.25, 710'-.75, 1210'-.75, 1718'-.75, 2249'-1, 2750'-.75, 4336'-1

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 38,000 - 42,000 lbs. on bit and approx 65-70 RPM.

Running 8 stands of collars; 458'

Pumping approx 875-900 psi at standpipe.

Daily Status

10/20/16 - Spud, ran 5 jts. new 8 5/8" 28# surface pipe set @ 205' and cemented w/ 150 sx Standard Cement 2% gel, 3% CC

10/21/16 - WOC

10/22/16 - Drilling @ 1092'

10/23/16 - Drilling @ 2130'

10/24/16 - Drilling @ 2770'

10/25/16 - Drilling @ 3437'

10/26/16 - Drilling @ 3949'

10/27/16 - DST #1 4302'-4336'

10/28/16 - RTD @ 4342', No log, ran 103 jts used 5 1/2" 17# production casing set @ 4341'. Cement bottom side with 175 sx EA2. Cement top side with 170 sx SMD. DV tool @ 1451'

DST #1 Mississippian 4302' - 4336' 30"-60"-30"-60"

IF: Blow built to 8.5" ISI: No blow back

FF: Blow built to 1/4" and held throughout

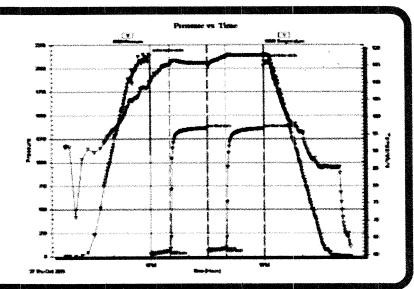
FSI: No blow back

Rec'd: 60' CO (100% O), 105' OCM (5% O, 95% M)

Gravity 38

BHT 118

SIP: 1363-1360#, FP: 22-58# 58-83#, HP 2132-2076#



DST #2 Mississippian 4322' - 4342' 30"-30"-30"-30"

IF: Built to BOB in 27min ISI: Light surface blow back

FF: Blow built to 11"

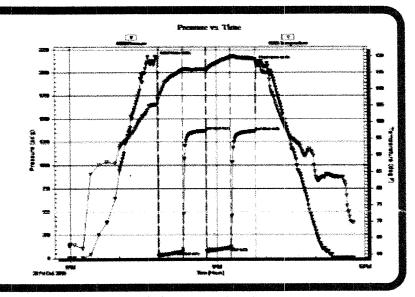
FSI: Bllow back built to 1/2" the died to 1/4"

Rec'd: 45' CO (100% O), 186' OCMW (20% O, 55% W,

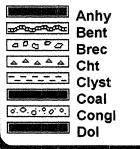
25% M)

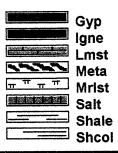
Gravity 39 BHT 119 Chlorides 13,000 ppm

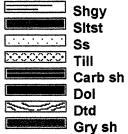
SIP: 1369-1367#, FP: 22-68# 73-111#, HP: 2151-2099#

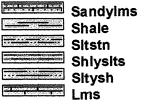


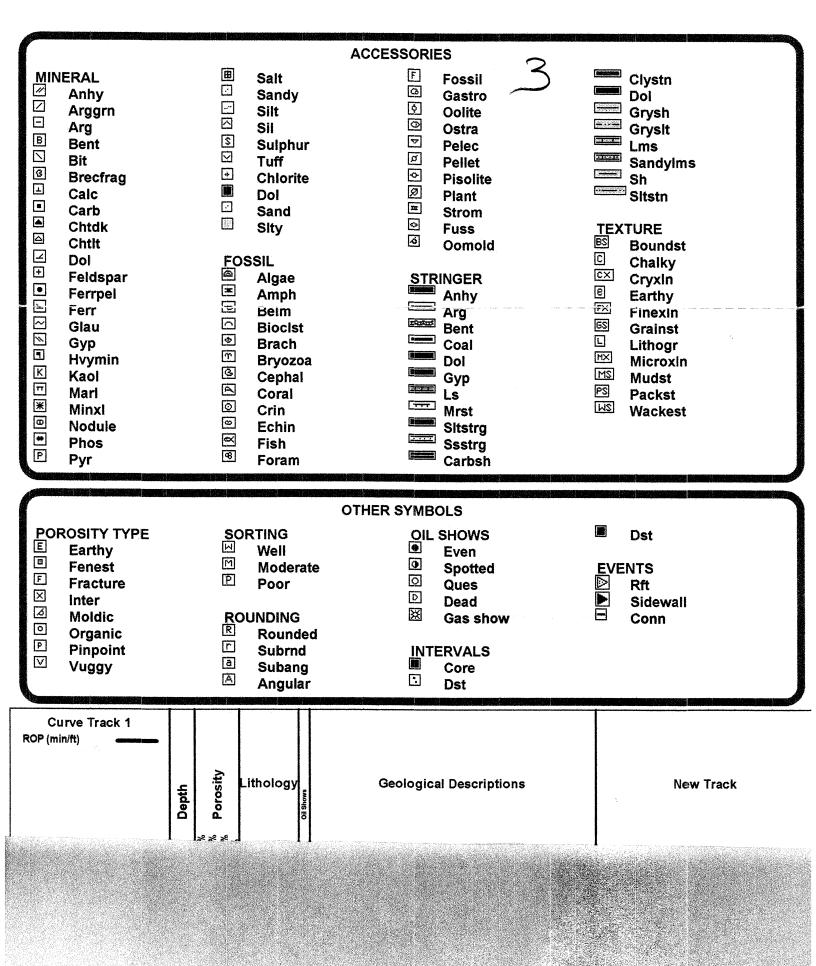
ROCK TYPES



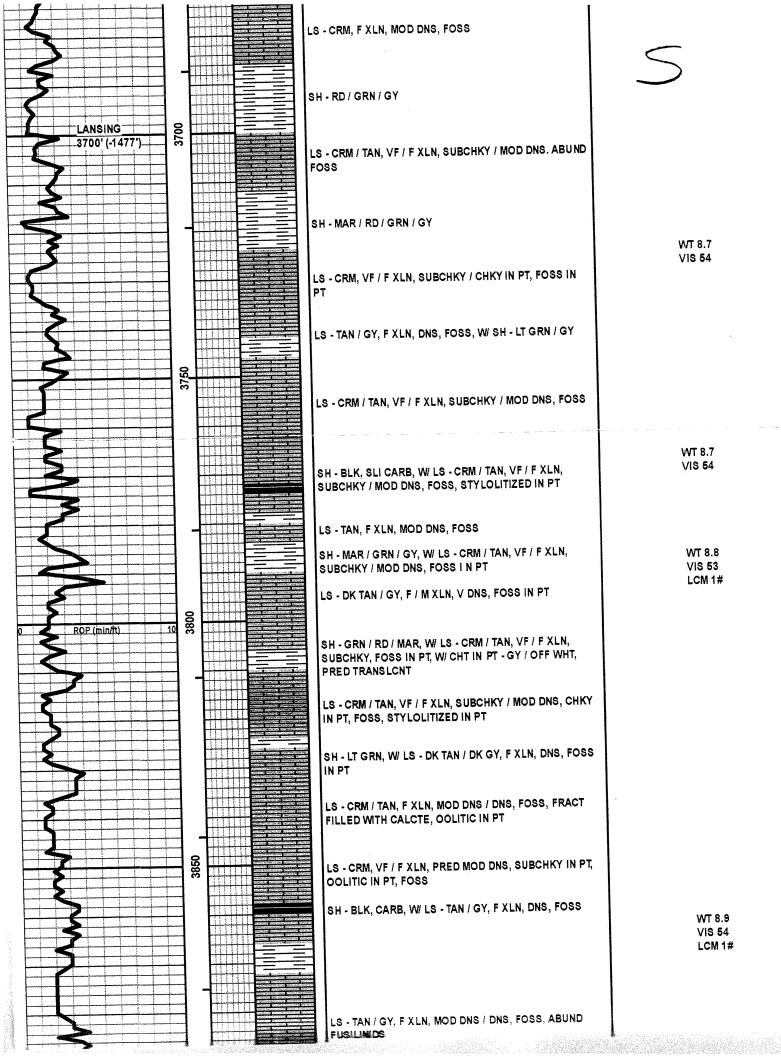


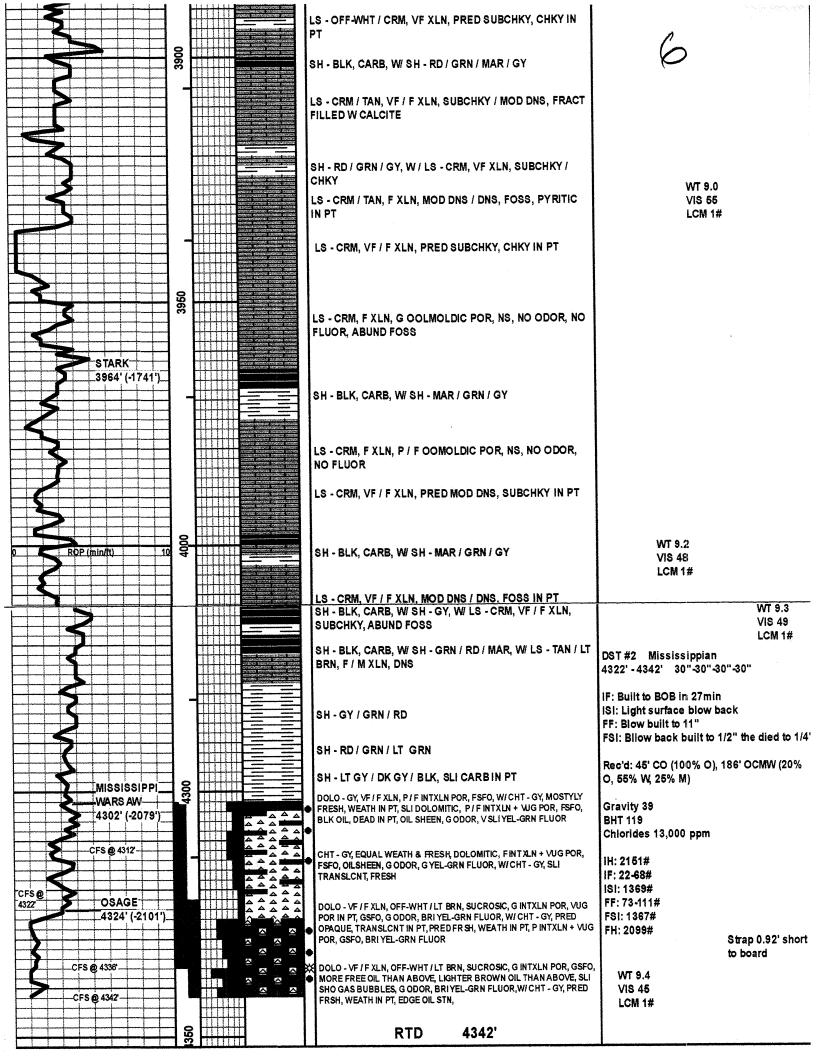






	Curve Track 1						
	ROP (min/ft)					//	
	, ,					7	
						'	
		_=	sit	Lithology		Geological Descriptions	New Track
		Depth	Porosity		how		
-		ă	ď		ĕ		
			24% 18% 12% 6%				
	ROP (min/ft) 10	36			П		
1							Anhydrite Top
ļ							1416' (+807')
l							
					П		Anhydrite Base
				1	П		1452' (+771')
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	B	1				LS - CRM / TAN, VF / F XLN, MOD DNS, FOSS IN PT	
		1				23 Stand Willig 11 / 1 King mod Dito, 1 000 in F1	
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	3	1	HHH			LS - CRM, F XLN, MOD DNS, ABUND OF FOSS	
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		1	Н			LS - TAN / GY, F XLN, MOD DNS / DNS	
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	HEEBNER	3650					
	3652' (-1429')	l "	ШШ			SH BIK CABB	
,		-		TOURING MULTIPLE TO THE		SH - BLK, CARB	
		1		DESCRIPTION OF THE PROPERTY OF THE]		
		1			١l		
		1			H	SH - GY, W/ LS - CRM / TAN, F XLN, MOD DNS, FOSS IN PT	WT 8.6 VIS 56
		1		PRODUCTION CONTRACTOR			VIS 56
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	111111	1					
		1	ЩЩ			LS - CRM, F XLN, MOD DNS, FOSS	
		1	<u> </u>				<u> </u>







Prepared For:

DK Operating Incorporated

621 Benton Street Jetmore, KS 67554

ATTN: Aaron Young

Virginia #1-13

13-20s-23w Ness,KS

Start Date: 2016.10.27 @ 15:42:00

End Date:

2016.10.27 @ 23:16:00

Job Ticket #: 61943

DST #: 1

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





DK Operating Incorporated

13-20s-23w Ness, KS

621 Benton Street Jetmore, KS 67554 Virginia #1-13

Job Ticket: 61943

DST#:1

ATTN: Aaron Young

Test Start: 2016.10.27 @ 15:42:00

GENERAL INFORMATION:

Time Tool Opened: 17:59:30

Time Test Ended: 23:16:00

Formation: Deviated:

Interval:

Mississippian

No

Whipstock:

ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

Unit No:

2223.00 ft (KB)

2216.00 ft (CF)

Reference Elevations:

KB to GR/CF:

4336.00 ft (KB) (TVD)

Total Depth: Hole Diameter: 4302.00 ft (KB) To 4336.00 ft (KB) (TVD) 7.88 inches Hole Condition: Fair

7.00 ft

Serial #: 8960

Press@RunDepth:

Outside 1359.14 psig @

F.F.

4333.00 ft (KB) End Date:

2016.10.27

Capacity: Last Calib .: 8000.00 psig

Start Date: Start Time:

2016.10.27 15:42:05

End Time:

23:15:29

Time On Btm:

2016.10.27 2016.10.27 @ 17:58:00

Time Off Btm;

2016.10.27 @ 20:59:30

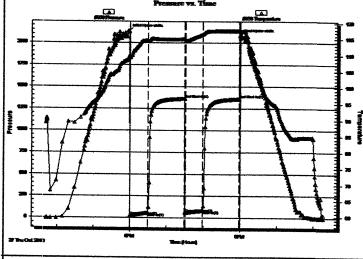
TEST COMMENT: LF.

30 minutes Blow built to 8 1/2"

LS.I. 60 minutes No blow back

30 minutes Blow built to 1/4" and held throughout

F.S.I. 60 minutes No blow back



		Р	RESSUF	RE SUMMARY
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	***
	0	2130.88	109.72	Initial Hydro-static
	2	21.28	109.27	Open To Flow (1)
	31	57.42	114.56	Shut-In(1)
	91	1361.97	114.98	End Shut-In(1)
ı	92	57.15	114.63	Open To Flow (2)
	121	82.62	116.52	Shut-In(2)
1	181	1359.14	117.55	End Shut-In(2)
	182	2076.09	117.65	Final Hydro-static
I				
-				
1				
	·			

Recovery

Description	Valume (bbl)
Oil cut Mud/ Oil 5% Mud 95%	1.47
Clean Oil 100%	0.84
	Oil cut Mud/ Oil 5% Mud 95%

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

Trilobite Testing, Inc

Ref. No: 61943

Printed: 2016.10.31 @ 10:11:16



DK Operating Incorporated

13-20s-23w Ness, KS

621 Benton Street Jetmore, KS 67554 Virginia #1-13 Job Ticket: 61943

DST#: 1

ATTN: Aaron Young

Test Start: 2016.10.27 @ 15:42:00

GENERAL INFORMATION:

Formation:

Mississippian

Deviated:

No Whipstock: ft (KB)

Time Tool Opened: 17:59:30 Time Test Ended: 23:16:00

Interval:

4302.00 ft (KB) To 4336.00 ft (KB) (TVD)

Total Depth: Hole Diameter: 4336.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

Unit No: 72

Reference Bevations:

2223.00 ft (KB)

2216.00 ft (CF)

KB to GR/CF:

7.00 ft

Serial #: 6999 Press@RunDepth:

Inside

83.77 psig @

4332.00 ft (KB)

2016.10.27

Capacity:

8000.00 psig

Start Date: Start Time:

2016.10.27 15:42:05

End Date: End Time:

23:15:59

Last Calib.: Time On Btm: 2016.10.27

Time Off Btm:

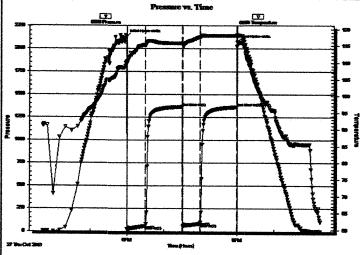
2016.10.27 @ 17:59:00 2016.10.27 @ 21:00:00

TEST COMMENT: LF.

30 minutes Blow built to 8 1/2" I.S.I. 60 minutes No blow back

30 minutes Blow built to 1/4" and held throughout F.F.

F.S.I. 60 minutes No blow back



		RE SUMMARY		
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	.0	2132.96	110.29	Initial Hydro-static
	1	22.25	109.89	Open To Flow (1)
	31	58.47	115.13	Shut-In(1)
	91	1363.88	115.76	End Shut-In(1)
i	92	58.64	114.94	Open To Flow (2)
Temperatur	120	83.77	117.68	Shut-In(2)
3	180	1360.87	118.10	End Shut-In(2)
	181	2076.76	117.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	Oil cut Mud/ Oil 5% Mud 95%	1.47
60.00	Clean Oil 100%	0.84

Gas Rat	es	
Choke (inches)	Pressure (noin)	Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 61943

Printed: 2016.10.31 @ 10:11:16



TOOL DIAGRAM

DK Operating Incorporated

13-20s-23w Ness, KS

621 Benton Street Jetmore, KS 67554

Virginia #1-13 Job Ticket: 61943

DST#: 1

ATTN: Aaron Young

Test Start: 2016.10.27 @ 15:42:00

Tool Information

Drill Pipe: Heavy Wt. Pipe:

Drill Collar:

Length: 4283.00 ft Diameter: Length: Length:

0.00 ft Diameter. 0.00 ft Diameter: 3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume:

Total Volume:

60.08 bbl 0.00 bbl 0.00 bbl 60.08 bbl Tool Weight: Weight set on Packer: 20000.00 lb

2000.00 lb

Weight to Pull Loose: 60000.00 lb Tool Chased

0.00 ft

String Weight: Initial 54000.00 lb

Printed: 2016.10.31 @ 10:11:17

Final 54000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

8.00 ft 4302.00 ft

ft

Depth to Bottom Packer: Interval between Packers: Tool Length:

34.00 ft

61.00 ft 2 Diameter:

6.75 inches

Number of Packers: Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			4280.00		
Hydraulic tool	5.00			4285.00		
Jars	5.00			4290.00		
Safety Joint	2.00			4292.00		
Top Packer	5.00			4297.00		
Packer	5.00			4302.00	27.00	Pattern Of Tax David
Anchor	29.00	***************************************		4331.00	27.00	Bottom Of Top Packer
Recorder	1.00	6999	Inside	4332.00		
Recorder	1.00	8960	Outside	4333.00		
Bullnose	3.00		- 310,00	4336.00	34.00	
Total Tool Lengt				-550.00	34.00	Anchor Tool





FLUID SUMMARY

DK Operating Incorporated

13-20s-23w Ness,KS

621 Benton Street

Virginia #1-13

Jetmore, KS 67554

Job Ticket: 61943

DST#: 1

ATTN: Aaron Young

Test Start: 2016.10.27 @ 15:42:00

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Cushion Type:

Oil API:

38 deg API

Mud Weight: Viscosity:

45.00 sec/qt

Cushion Length: Cushion Volume: ft bbl Water Salinity:

ppm

Water Loss:

10.77 in³

Gas Cushion Type:

Resistivity:

ohm.m 4000.00 ppm

Gas Cushion Pressure:

psig

Salinity: Filter Cake:

1.00 inches

Recovery Information

Recovery Table

Length Description Volume bbl 105.00 Oil cut Mud/ Oil 5% Mud 95% 1.473 60.00 Clean Oil 100% 0.842

Total Length:

165.00 ft

Total Volume:

2.315 bbl

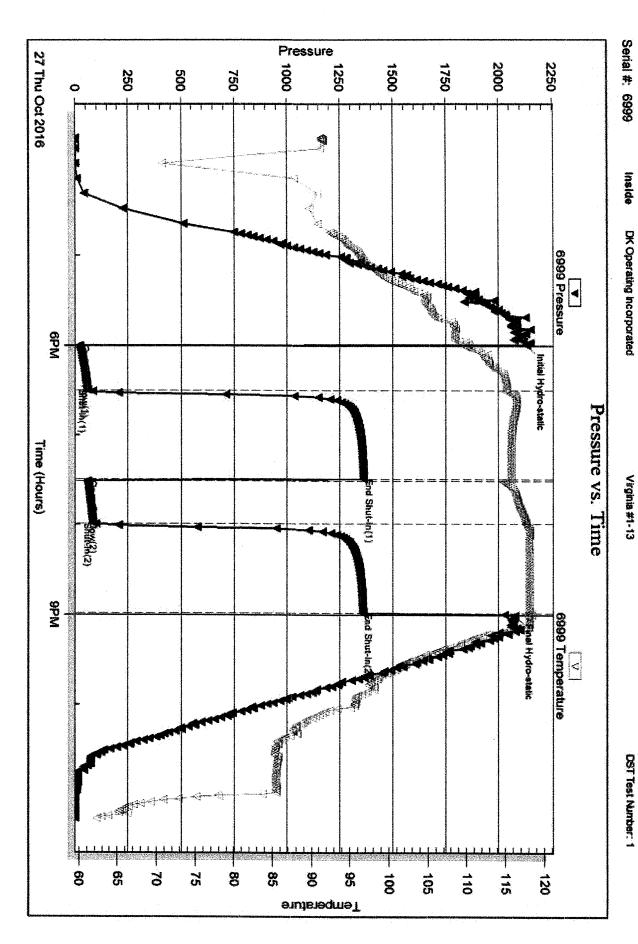
Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name: Recovery Comments: Laboratory Location:

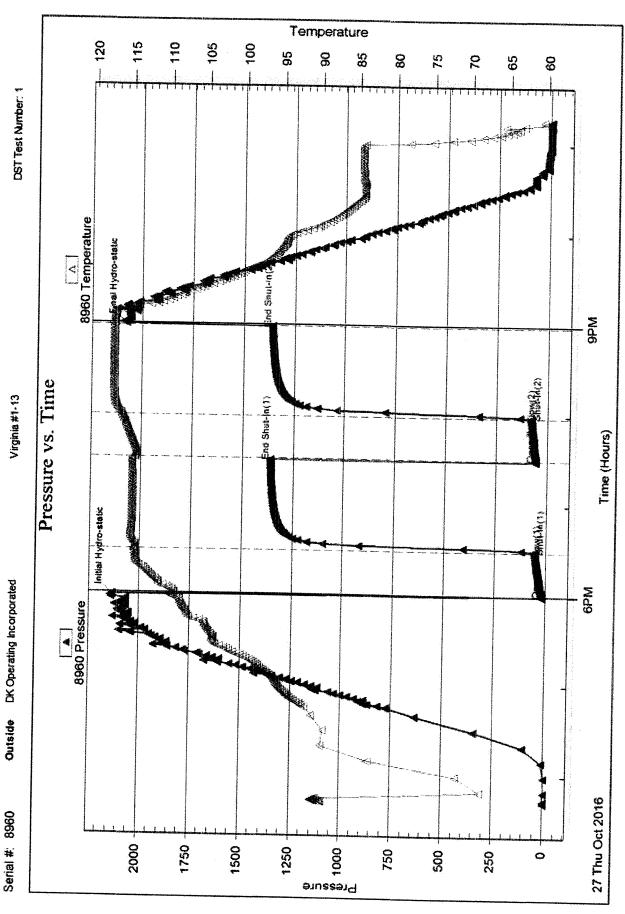




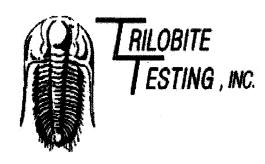
Triobite Testing, inc

Ref. No: 61943

Printed: 2016, 10.31 @ 10:11:17



Tribble Testing, Inc



Prepared For.

DK Operating Incorporated

621 Benton Street Jetmore, KS 67554

ATTN: Aaron Young

Virginia #1-13

13-20s-23w Ness,KS

Start Date: 2016.10.28 @ 05:58:00

End Date:

2016.10.28 @ 11:47:00

Job Ticket #: 61944

DST#: 2

Trilobite Testing, Inc.

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620





DK Operating Incorporated

621 Benton Street Jetmore, KS 67554

ATTN: Aaron Young

13-20s-23w Ness,KS

Virginia #1-13

Job Ticket: 61944

DST#: 2

Test Start: 2016.10.28 @ 05:58:00

GENERAL INFORMATION:

Formation:

Mississippian

Deviated:

No

Whipstock:

ft (KB)

Time Tool Opened: 07:48:30

Time Test Ended: 11:47:00

Interval:

4322.00 ft (KB) To 4342.00 ft (KB) (TVD)

Total Depth:

4342.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester:

Ken Sw inney

Unit No:

Reference Elevations:

2223.00 ft (KB)

2216.00 ft (CF)

KB to GR/CF:

7.00 ft

Serial #: 8960

Press@RunDepth:

Outside

1365.25 psig @ 2016.10.28

4339.00 ft (KB)

2016.10.28

Capacity: Last Calib.:

8000.00 psig 2016.10.28

2016.10.28 @ 07:47:00

Start Date: Start Time:

05:58:05

End Date: End Time:

11:46:59

Time On Btm: Time Off Btm:

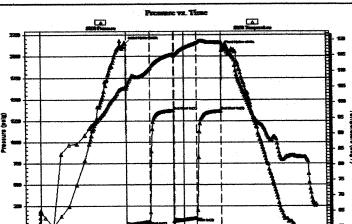
2016.10.28 @ 09:48:30

TEST COMMENT: LF.

30 minutes BOB in 27 minutes

I.S.I 30 minutes Light surface blow back

F.F. 30 minutes Blow built to 11" F.S.I. 30 minutes Blow back built to 1/2" then died to 1/4"



٦		PI	RESSUR	E SUMMARY
1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2149.66	104.89	Initial Hydro-static
-	1	20.39	104.40	Open To Flow (1)
	31	67.65	110.86	Shut-In(1)
	60	1368.05	115.31	End Shut-In(1)
	61	71.79	115.12	Open To Flow (2)
Temperatura (dag F)	90	110.39	118.99	Shut-In(2)
8	120	1365.25	119.06	End Shut-In(2)
3	122	2098.08	118.73	Final Hydro-static

Recovery

Description	Valume (bbl)
OCMW Oil 20% Mud 25% Water 55%	2.61
Clean Oil 100%	0.63
	OCMW Oil 20% Mud 25% Water 55%

Gas Rates	
-----------	--

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



13-20s-23w Ness, KS



DRILL STEM TEST REPORT

DK Operating Incorporated

Virginia #1-13

621 Benton Street Jetmore, KS 67554

Job Ticket: 61944

DST#: 2

ATTN: Aaron Young

Test Start: 2016.10.28 @ 05:58:00

GENERAL INFORMATION:

Formation:

Mississippian

Deviated:

Whipstock:

ft (KB)

Time Tool Opened: 07:48:30 Time Test Ended: 11:47:00

4322.00 ft (KB) To 4342.00 ft (KB) (TVD)

Total Depth:

Interval:

4342.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Ken Swinney

Tester: Unit No:

Reference Elevations:

2223.00 ft (KB)

2216.00 ft (CF)

KB to GR/CF:

7.00 ft

Serial #: 6999

Press@RunDepth:

Inside

111.93 psig @

4338.00 ft (KB)

Capacity: 2016.10.28 Last Calib.: 8000.00 psig

Start Date: Start Time:

2016.10.28 05:58:05 End Date: End Time:

11:46:59

Time On Btm:

2016.10.28 2016.10.28 @ 07:47:30

Time Off Btm:

2016.10.28 @ 09:49:00

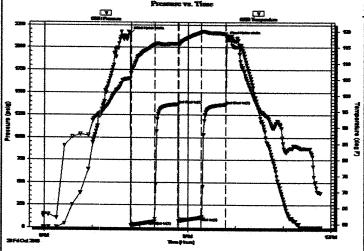
TEST COMMENT: LF.

30 minutes BOB in 27 minutes

I.S.I 30 minutes Light surface blow back

30 minutes Blow built to 11"

F.S.I. 30 minutes Blow back built to 1/2" then died to 1/4"



	<u> </u>			C Colditals (1 ()	
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)	,	
	0	2151.42	105,36	Initial Hydro-static	
	1	22.40	106.92	Open To Flow (1)	
	31	68.60	115.78	Shut-In(1)	
,	60	1369.99	116.10	End Shut-In(1)	
	61	73.62	115.83	Open To Flow (2)	
/	90	111.93	119.71	Shut-In(2)	
	120	1367.08	119.23	End Shut-In(2)	
7	122	2099.15	118.54	Final Hydro-static	

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Vojume (bbl)
186.00	OCIVIW Oil 20% Mud 25% Water 55%	2.61
45.00	Clean Oil 100%	0.63

Gas	Rates	
-----	-------	--

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

Trilobite Testing, Inc

Ref. No: 61944

Printed: 2016.10.31 @ 10:09:54



TOOL DIAGRAM

DK Operating Incorporated

13-20s-23w Ness,KS

621 Benton Street Jetmore, KS 67554 Virginia #1-13

Job Ticket: 61944

DST#: 2

ATTN: Aaron Young

Test Start: 2016.10.28 @ 05:58:00

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 4313.00 ft Diameter:

18.00 ft

0.00 ft Diameter: 0.00 ft Diameter:

3.80 inches Volume: 0.00 inches Volume: 0.00 inches Volume:

Total Volume:

60.50 bbl 0.00 bbl 0.00 bbl

60.50 bbl

Tool Weight:

2000.00 lb

Weight set on Packer: 20000.00 lb Weight to Pull Loose: 62000.00 lb

Tool Chased

0.00 ft

String Weight: Initial 54000.00 lb

Final 56000.00 lb

Drill Pipe Above KB:

Drill Collar:

Depth to Top Packer:

4322.00 ft Depth to Bottom Packer: 20.00 ft

Length:

Interval between Packers: Tool Length:

Number of Packers:

47.00 ft 2

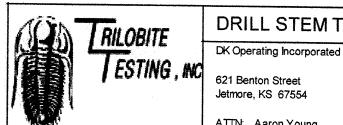
ft

Diameter:

6.57 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			4300.00		
Hydraulic tool	5.00			4305.00		
Jars	5.00			4310.00		
Safety Joint	2.00			4312.00		
Top Packer	5.00			4317.00		
Packer	5.00			4322.00	27.00	Bottom Of Top Packer
Anchor	15.00			4337.00		
Recorder	1.00	6999	Inside	4338.00		
Recorder	1.00	8960	Outside	4339.00		
Bullnose	3.00			4342.00	20.00	Anchor Tool
Total Tool Length	: 47.00					



13-20s-23w Ness, KS

621 Benton Street Virginia #1-13

Jetmore, KS 67554 Job Ticket: 61944

ATTN: Aaron Young Test Start: 2016.10.28 @ 05:58:00

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal Viscosity:

45.00 sec/qt Water Loss: 10.78 in^s

Resistivity: Salinity:

Filter Cake:

ohm.m 4000.00 ppm 1.00 inches **Cushion Type:**

Cushion Length: Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

psig

ft

bbl

Oil API:

Water Salinity:

39 deg API

13000 ppm

FLUID SUMMARY

DST#: 2

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	OCMW Oil 20% Mud 25% Water 55%	2.609
45.00	Clean Oil 100%	0.631

Total Length:

231.00 ft

Total Volume:

3.240 bbl

Num Fluid Samples: 0

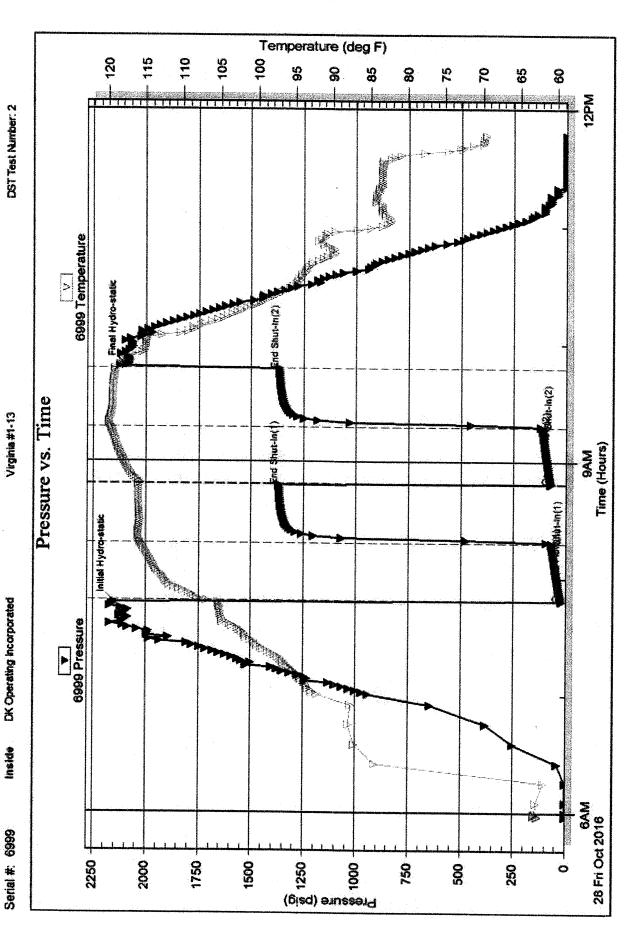
Num Gas Bombs:

0

Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Recovery Resistivity .460 ohms @ 77 degrees



Printed: 2016, 10.31 @ 10:09:56

Ref. No: 61944

Trilobite Testing, Inc

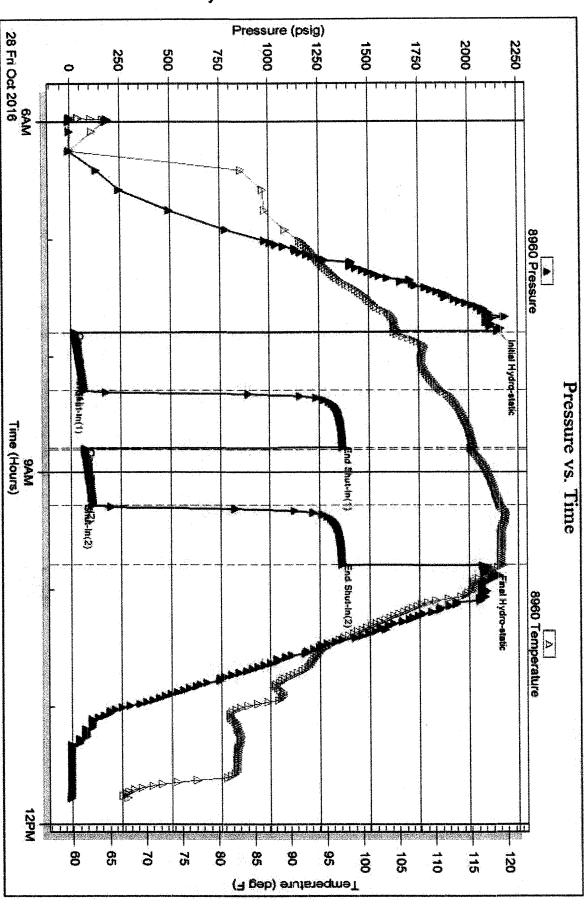




Serial #: 8960

Virginia #1-13





Tricble Testing, inc

Ref. No.

61944

Pinted: 2016 10.31 @ 10:09:56



RILOBITE ESTING INC.

/ /

Test Ticket

1515 Commerce Parkway - Hays, Kansas 67601

NO. 61943

분명하는 경기를 보고 있다. 이번에 하는 것으로 기계하는 것으로 가장되었다. 그 보고 있다. [17] 기계를 보고 있는 것으로 보고 있는 것으로 보고 있는 것으로 보고 있는 것으로 보고 있다.		
Well Name & No. Virginia 1-13	Test No.	
Company DK Operating Incom		<u> 223 KB 2216 GL</u>
Address 621 Benton Street		
Co. Rep/Geo. Agrar loung		rel Rig 10
Location: Sec. 13 Twp. 205	Rge <i>23W</i> Co <i>Ness</i>	State
Interval Tested 4302 - 4336	Zone Tested M.55.55.27	
Anchor Length3 4	Drill Pipe Run	Mud Wt 7 . ģ
Top Packer Depth 4297		Vis 45
Bottom Packer Depth 4302	Wt. Pipe Run	WL
Total Depth 433 6	Chlorides 4000 ppm Sy	rstem LCM = 1/4
Blow Description I.F. Blow built to		
I.S.I. No blow back		
F.F Blow built to Ky inch	and hold throughout	
ESI No Slow back		
Rec_ 165 Feet of _0.1 Cut M	ud %gas 3	%oil %water 95%muc
Rec_ 60 Feet of Clean O.	1 %gas 100	^O %oil %water %muc
RecFeet of	%gas	%oil %water %muc
Rec Feet of	%gas	%oil %water %muc
Rec Feet of	%gas	%oil %water %muc
Rec Total 165 BHT 118	Gravity	F Chloridespprr
(A) Initial Hydrostatic > 132	☐ Test 1150	T-On Location 1:02 pm
B) First Initial Flow 22	☐ Jars250	T-Started 3:42 pm
C) First Final Flow 58	Safety Joint	T-Open 5.58 pm
(D) Initial Shut-In/363	☐ Circ Sub	T-Pulled 8:58 >m
E) Second Initial Flow	☐ Hourly Standby	T-Out 11.10 pm
F) Second Final Flow8'3	2 Mileage /3 4 100.50	Comments
G) Final Shut-In 1360	☐ Sampler	
H) Final Hydrostatic 2076	☐ Straddle	
는데 이 에 이 및 발표한 바람이 없는 경험에 함께 되었다면 되었다. 	☐ Shale Packer	Ruined Shale Packer
nitial Open	Extra Packer	Ruined Packer
nitial Shut-In	☐ Extra Recorder	Extra Copies
Final Flow 30	Day Standby	Sub Total 0 Total 1575.50
Final Shut-In 60	Accessibility	
	Sub Total <u>1575.50</u>	MP/DST Disc't
المحترف		



Approved By



Test Ticket

61944 NO.

1515 Commerce Parkway . Hays, Kansas 67601

Well Name & No. Vicyinia 1-13 Test No. 2 28 OCT 16 Date Operating Incorporated Elevation 2223 Benton Street Jetmore Monses Pickrell Co. Rep / Geo. Heren 7300 State Twp. 205 Rae. Location: Sec. 4322'- 4342' Zone Tested Missis Sins Prism Interval Tested 4313 Mud Wt. Drill Pipe Run Anchor Length 4317 Vis ____ Drill Collars Run ____ Top Packer Depth WL ____ 16 8 4322 Bottom Packer Depth___ Wt. Pipe Run 3/4 11347 LCM Chlorides 1000 ppm System Total Depth to bottom of bucket in 27 minutes Blow Description IF Blow built blow back light surface 1/2 inch then died to kninch built to ent Middy Water %gas 20 %oil 55 %water 23 %mud 100%oil Feet of clean Oil %gas %water %mud Rec %gas %oil %vvater %mud Feet of %oas %oil %vvater %mud Rec Feet of %gas %oil %water %mud Feet of _____ внт <u>_1/</u>9 39 APIRW .46 @ フ) °F Chlorides 13.000 Rec Total 23/ Gravity ppm 2151 (A) Initial Hydrostatic___ ☑ Test 1150 T-On Location 22 T-Started 5-5-8 Jars 250 (B) First Initial Flow 68 T-Open Safety Joint 75 (C) First Final Flow 947 T-Pulled (D) Initial Shut-In 1369 ☐ Circ Sub (E) Second Initial Flow _____ 73 ☐ Hourly Standby Comments 111 Mileage /34 100.50 (F) Second Final Flow (G) Final Shut-In ______1367 ☐ Sampler (H) Final Hydrostatic 2099 ☐ Straddle ☐ Ruined Shale Packer ☐ Shale Packer ☐ Ruined Packer 30 Initial Open _____ ☐ Extra Packer ☐ Extra Copies 3 C Initial Shut-In ☐ Extra Recorder _____ Sub Total _____ 30 Final Flow Total 1575.50 ☐ Day Standby 30 Final Shut-In ____ ☐ Accessibility _____ MP/DST Disc't _____ Sub Total 1575.50

Our Representative



CITY, STATE, ZIP CODE

CHARGE TO: ADDRESS OPERATING

TICKET 29486

	272217 174 2FF7775F]	Marin INCO	_		•						
REFERENCE	PART NUMBER	۶Ţ	ACCT	<u>ڄ</u>	DESCRIPTION	27		3		UNIT	AMOUNT	
545					MI FAGE TO 17 H	<u>သ</u>	-	1		7 8	73	8
645		-			PINA O CHARGE - THE CHARGE	- 6				8 2 2 1	145	8
290					D- A1C	n	Smi !			12 log	210	9
221		_			Cloud Kec	د	₹ 			27 8	107	9
281		_			MUDFIUSH	250				25	1025	o
403		_			CEMENT BASKET	ಬ	\$	51/2		250 0	25	3
407					TUSERT FLOOR SHOE W/ AUTO []	I	\$	_		300 00		8
408					DV. TOOL & Plug Set		#2			3250 80		0
409					TURBOLIZER	4	\$			25 8 8		Ŏ
なた		_			D.V. CATCH DOWN Plug & BARCELE		1 _{C4}	4		200 100	200	9
								:		11 3049	20125	8
LEGAL TERMS: (LEGAL TERMS : Customer hereby acknowledges and agrees to	s and a	agrees to		SURVEY	/EY	δΩ Ω	AGREE DECIDED AGREE	ACBE:			3

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OF DELYDERY OF GOODS but are not limited to, PAYMENT, RELEASE, INDEMNITY, and the terms and conditions on the reverse side hereof which include, **LIMITED WARRANTY** provisions.

REMIT PAYMENT TO:

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

15898 08	Į.		ESPOND	/ISH TO R	CUSTOMER DID NOT WISH TO RESPOND
			S	0 8	O YES
			-	RVICE?	ARE YOU SATISFIED WITH OUR SERVICE?
80101	0,50				SATISFACTORILY?
25.25	j Ž				CALCULATIONS
,	Mc Dico.				AND PERFORMED JOB
	10/0/0				PERFORMED WITHOUT DELAY?
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CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

NOTOSPORT OF APPROVAL

TIME SIGNED

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Thank You!



TICKET CONTINUATION

No. 29486

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