

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1092594

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from Cast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	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.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	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: Quarter Sec TwpS. R East
GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date Recompletion Date	

AFFIDAVIT

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

Submitted Electronically

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

	Side Two	1092594
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

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

Drill Stem Tests Taken (Attach Additional She	eets)	Yes	No		og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog	gical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	☐ Yes ☐ Yes ☐ Yes	□ No □ No □ No					
List All E. Logs Run:								
		Report all		RECORD No	ew Used ermediate, product	ion, etc.		
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge F Each Interval		e			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed F	Product	ion, SWD or ENHF	λ .	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF (GAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTER	RVAL:
Vented Sold		Used on Lease		Open Hole	Perf.	Dually (Submit)		Commingled (Submit ACO-4)		
(If vented, Sub	mit ACC)-18.)		Other (Specify))					

Jall Kilian C	corp-oration	
Geologist		RECEIVED
		SEP 1 2 2012
	Certified Petroleum	KCC WICHITA
	Geologist *3351 License *224	P.O. Box 26
	Literio	Hays, Kansas 67601-0026 Phone: 785-628-6061
		Cell: 785-635-1349
5 5		. DEDORT
	GEOLOGIST'S WEI	L REPORT
COMPAN	Y <u>IA OPERATING, INC. (</u>	33335)
	L Virginia K. #18-1	
FIEL	D_Pleasant SE (Wildcat	t per seismic)
LOCATIO	N (legal) <u>AD. SE SE NW</u> (2180' FNL & Section <u>18</u> TWP <u>1</u>	2100' FWL) 45 RGE 19W
	(Map) 63 mi W & 13	<u>mi S of Hay</u> s Golf Coarse
COUN	TY_Ellis STA	TE Kansas
	ELEVATION: _2223'K.B.,	<u>2215 G.L.</u>
	Depths measured from K	elly Bushing
A. P.	I. NUMBER 15-051-2626	8
G	EOLOGY BY Randall Kil	ian
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PERTINENT WELL DATA

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CONTRACTOR DISCOVERY DRILLING CO., INC. (31548)
RIG $\frac{\#3}{(Galen Gaschler TP)}$ HYDRAULICS <u>D-375 6x14x60</u>
DRILL PIPE 43" X-H COLLARS 63 17 (526')
CASING: SURFACE 8 5/8" @ 221' w/ 150 sx Common
PRODUCTION 5 ¹ / ₂ " [@] 3923' w/ 155 sx Common PC in Anhydrite DRILLING FLUID: COMPANY Andy's Mud & Chemical Co. (Kirk Werth)
DRILLING FLUID: COMPANY Andy's Mud & Chemical Co. (Kirk Werth)
TYPE: <u>Chemical & Drispac</u>
REMARKS: <u>Full</u> service
DRILL STEM TESTS: COMPANY <u>Trilobite Testing Inc.</u> (Ray Schwager)
NUMBER OF TESTS Four (4)
ELECTIC LOGS: COMPANY <u>Superior Well Services</u>
DETAIL (5") 3150' - RTD
TYPE DI, Comp N-D, Micro
DRILLING TIME FROM <u>3150'</u> TO <u>RTD</u>
SAMPLE TIME FROM <u>3150</u> TO <u>RTD</u>
SUPERVISION FROM <u>3150</u> TO <u>RTD</u>
VERTICAL DEVIATION $\frac{3/4^{\circ}@221'}{2\frac{1}{2}^{\circ}@3925'}$ PLUGGING REPORT $\frac{30 \text{ sx Rat}}{15 \text{ sx Mouse}}$
PLUGGING REPORT 30 sx Rat, 15 sx Mouse
RESERVE PIT 400 bbls., Chl. 67,000 Ca. 2100

.

DAILY REPORT

DATE:	7 a.m. Depth	RIG ACTIVITY
3-1-12	: :	MIRU, Spud 😹
3-2-12	505'	Drilling under surface
3-3-12	2300'	Drilling shale & sand
3-4-12	3060'	Drilling shale & lime
3-5-12	3576'	DST #1 LKc C-D
3-6-12	3630'	DST #2 LKc F-G
3-7-12	3770'	DST #3 LKc H-L
3-8-12	3925'	TD, Logged, DST #4, Run p
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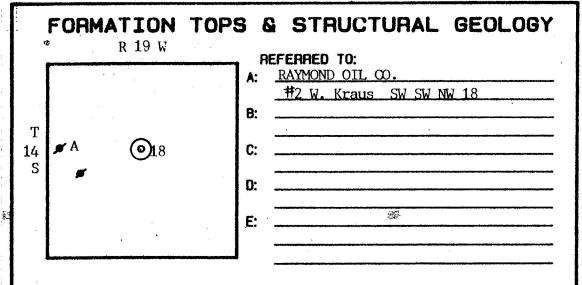
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o	40° Wtr		IP		520 75 535	†	1689 1664	#	659 90	132# 393# 300#		745# 60"			1	-G	Kc F 576-	2
			IP ,G,		27(92	#	1737 1710	#	904 90	3讲 60"		768#F		27# 5"	ź		Kc H 3641- 3770'	3
tr	M,Wt),C,	51,0 Vtr	0' 9 0' V	15 49	#	1853 1851	;₩ ;''	1225 105	⁶⁶ 259# 75"		- 60''	,	- 5''		-	Arb. 3820- 3856	4
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STRATIGRAPHIC	SUB	JECT WELL	STRUCTURAL POSITION								
MARKERS	SAMPLE	E. LOG	DATUM	<u>A</u> . <u>B</u>	<u> </u>	<u> </u>					
Anhydrite	1486'	1488'	+ 735	+ 730							
Base	1530'	1532'	+ 691	+ 693							
Topeka	3227'	3231'	-1008	-1006							
Heeb. Sh.	3474'	3480'	-1257	-1254							
Toronto	3498'	3501'	-1278	-1278							
Lansing	3520'	3523'	-1300	-1300							
BKc.	3768'	3774'	-1551	-1554							
Marmaton	3802'	3808'	-1585	-1588							
Arbuckle	3839'	<u>3845'</u>	-1622	-1619							
TD	<u>3925'</u>	3924	-1701	-1623							
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				rments. There		[

question the electric log tops.

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*Structural position of subject well as compared to referred well.

SUMMARY

The Virginia K. #18-1 well was drilled by Discovery Drilling tools rig #3 beginning 3-1-12 and drilling was completed 3-8-12.

The drill site was located via a 3-D seismic survey. The well ran high structurally to nearby wells.

Oil shows were encountered in numerous zones. DST #1 LKc C-D was a positive test. DST #2 LKc F-G may con= tribute to ultimate reserves. DST #3 LKc H-L was also a positive test.

The Arbuckle was encountered a bit lower than expected therefore DST #4 was a negative test.

Based upon all data, casing was set and cemented to further test and produce the well.

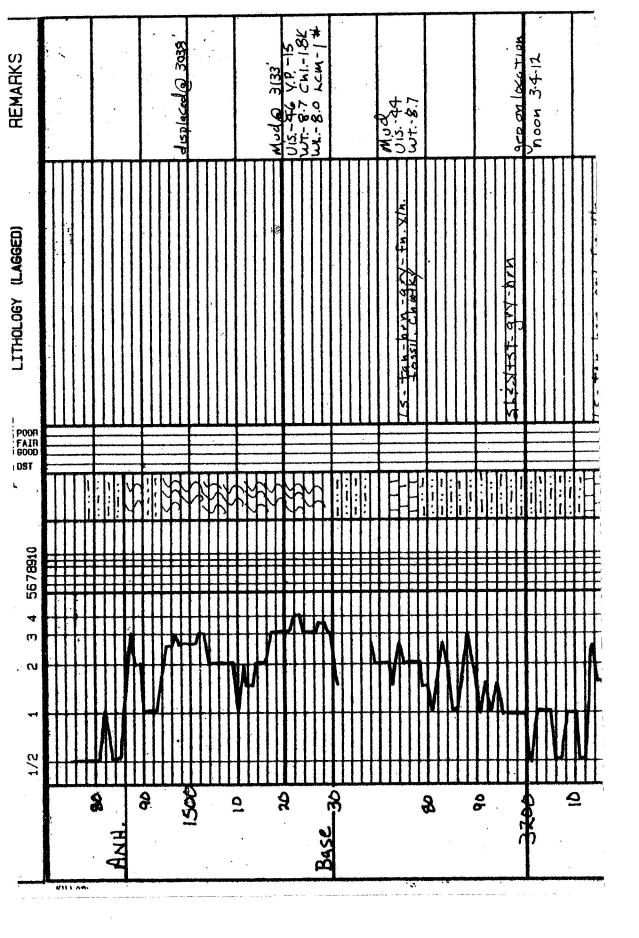
Recommended perfs; LKc K 3727-32', E 3591-95' & C 3550-55'.

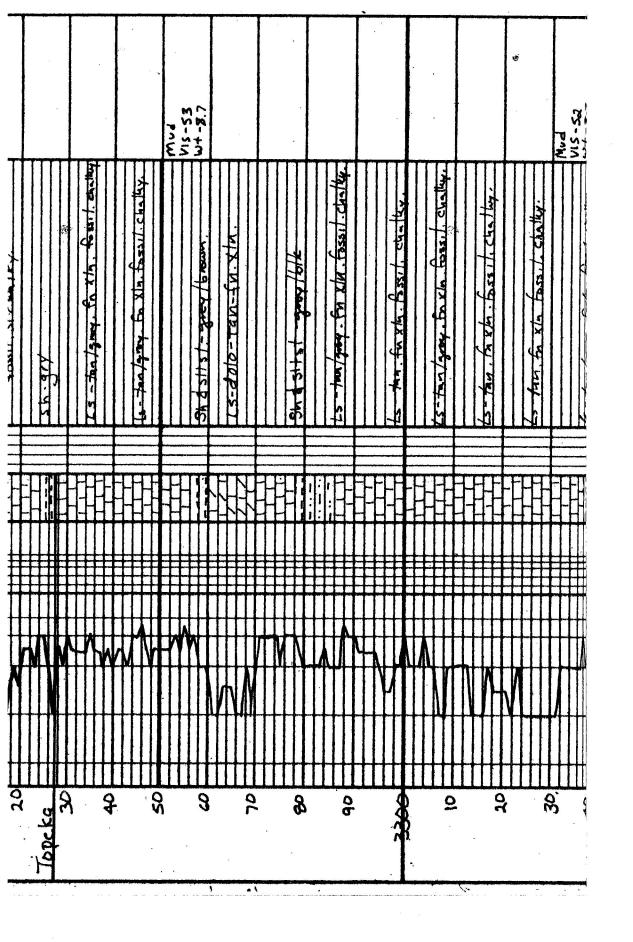
Respectfully.

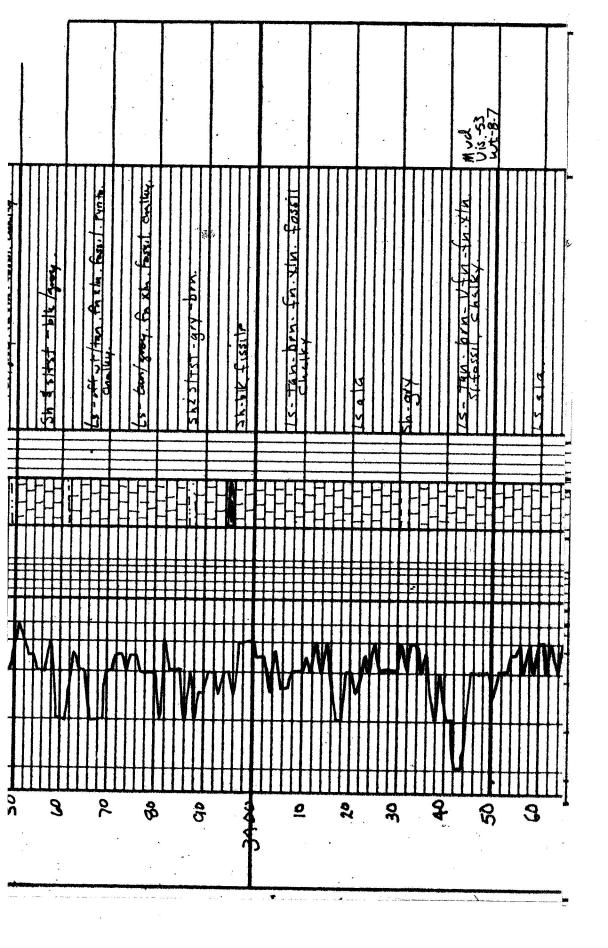
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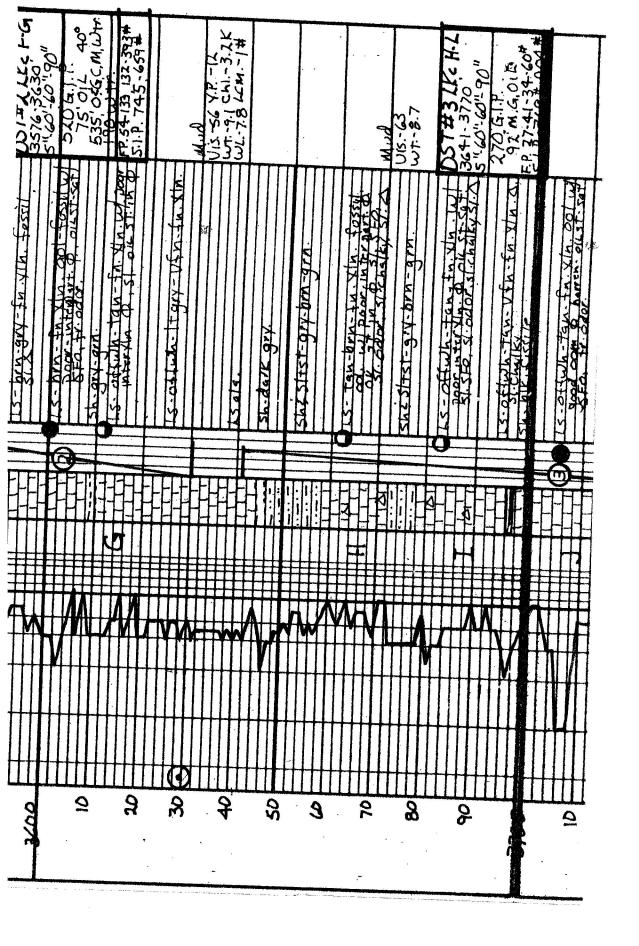




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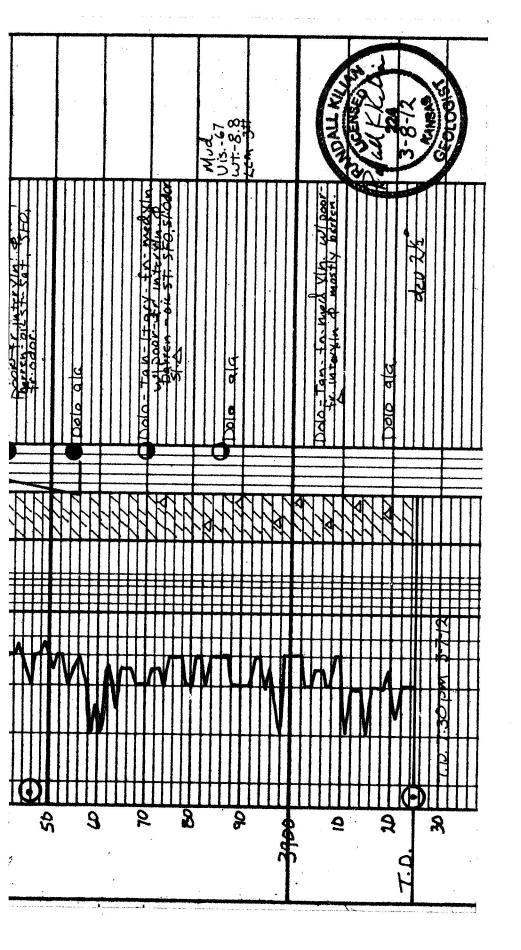
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M.J.K. Uis63 Wt:-8.8	M. J. d. V.P 24 UIS-40 V.P 24 UIS-42 C.N 24 UIS-28 K.C.N 154	DST#4-Hrb. 3820-56' 5.60-75-105" 150 20,07,100 490 WHC. FP , 66.259# 5:1:1 , 1225#
sh. bik carb fissile shestist - gry-brn-grn. 15. tau-ben faryin cal-food balleer for faryin cal-food good o do? Lis ala- chalky, A Lis ala- chalky, A Sh. bik fissile	И, Тік , <u>Я</u> гл, ма <i>к</i> ы. <u>1 - fossil, </u> Д	1-112+14 1-1212+14 1-1-12-12-14 1-1-12-12-14
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Phone 785-483-2025 Cell 785-324-1041	H	ome Office I	P.O. Bo	ox 32 Rus	ssell, KS 67665	No.	5465
Date 3-15-12 18	Тwp. 1Ч	Range		County Lis	State Ks	On Location	2:00 Pr
Lease Dicaina K.	Well No.	18-1	Locatio	on Yoler	rento Ks -	Sto Golf	Course Rd
Contractor Chito's	w	211 500	X1		to 160 Rd, 1.	5. XE. S/	Ento
Type Job Port Cullar			i.	To Quality O	ilwell Cementing, Inc		
Hole Size	T.D.	·····		cementer an	id helper to assist ow	ner or contractor to c	lo work as listed.
Csg. St"	Depth	3924	3	Charge	A ope	ratinar	
Tbg. Size 21/8h	Depth	1510'		Street	, j		
Tool Port Collar	Depth	1510'		City	/	State	
Cement Left in Csg.	Shoe Jo		1. 2		as done to satisfaction a		r agent or contracto
Meas Line	Displace	<u> </u>	BIS	and the second	ount Ordered 250		A 11
EQUIP	andra and a second s	<u> </u>	10 - 5		<u> </u>		1
Pumptrk 15 No. Cementer	isco-	· · · · · · · · · · · · · · · · · · ·		Common	60	······································	
Bulktrk & No. Driver				Poz. Mix			
No. Driver O.	0			Gel.	anar na an in a		
JOB SERVICES	S & REMA	RKS		Calcium			· · · · · · · · · · · · · · · · · · ·
Remarks: Cement did	-1.	er Lato	а 11	Hulls			
Rat Hole		ura c		Salt			
Mouse Hole				Flowseal 4	50th		
Centralizers		······		Kol-Seal		<u></u>	
Baskets				Mud CLR 48	3		
D/V or Port Collar		·····		4 S	CD110 CAF 38		
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Doen tool + FS	2 19.1	-1-4	ow .	Handling	20		
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Dup Mar a		+ Lach +	> 01	Guide Shoe			
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+ wash ckan.	NUI	005	16310	Baskets			
· Cash Cran	a se al compositiones			AFU Inserts	<u>. 8 6</u>		
Cement di	1 (Je centre	40	Float Shoe		i ji sheraraki li	<u> </u>
		Juna	<u>nc,</u>	Latch Down		8	
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		21		Mileage 7	<u> </u>	Tax	
			2			Discount	

	ELL CEMENTING, INC. Tax I.D.# 20-2886107
Phone 785-483-2025 Home Office P. Cell 785-324-1041	O. Box 32 Russell, KS 67665 No. 252
Date 3/8/12 18 14 19	CountyStateOn LocationFinishEM3KS10:30
Lease Virginia K Well No. 18-1	Location Yourmento, Sto Golf Course Rd, 2W, 151
Contractor Discovery Prilling Rig #	P3 Owner 5 200
Type Job Production String Hole Size 728" T.D. 3925'	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed
Csg. 51/2" 15,50 # Depth 3924	Charge IA Operation, Inc.
Tbg. Size Depth	Street
	State
Cement Left in Csg. 17' Shoe Joint 17'	The above was done to satisfaction and supervision of owner agent or contract
Meas Line Displace 93 Bb	
EQUIPMENT	
Pumptrk 7 No. Cementer Dut Helper	Common 200
Bulktrk 10 No. Driver Math	Poz. Mix
Bulktrk P) No. Driver	Gel.
JOB SERVICES & REMARKS	Calcium
Remarks:	Hulls
Rat Hole 30 1 X	Salt /7
	Flowseal
Centralizers $[14, 7, 10]$, $[3, 16, 59]$	Kol-Seal 1600 FP
Baskets	Mud CLR 48 SOO gul
Port Collar - KNO JA # SX	CFL-117 or CD110 CAF 38
	Sand
Fump SID and Mud (lear	Handling 227
Plug Rat Mouse	Mileage
My Isaler days 516"	
N-SALAD SE ADUM STA	
Los late	Guide Shoe 1
Man Play	
- Float Viera	Baskets
The MK	AFU Inserts
Marris	Float Shoe
	Latch Down
You	Collaboration of the
	Brtcollar, or Recip. Scratters
	Pumptrk Charge proch Kong String
	Mileage 9
	Tax
× M/ H	Discount
Signature JLRO 2011	Total Charge

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

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Home Office P.O. Box 32 Russell, KS 67665

No. 466

	Sec.	Twp.	Range	(County	State	On Location	Finish
Date 3-1-12	18	14	19	EII	1:5,7	Kansas		7:00PM
Lease Miccing R	W	ell No.	18-1	Locatio	on Crimon	BRd & Golf	Cause Rd 24	21556/
Contractor Piscover	à 14	Sillin	e Kg3		Owner	7		
Type Job Suchace	7	<u> </u>		·	To Quality Oi You are here	lwell Cementing, Inc. by requested to rent of	cementing equipment	and furnish
Hole Size 124		T.D.	221		cementer and	d helper to assist own	er or contractor to do	work as listed.
Csg. 85		Depth	221	5	Charge Z	A Operating	:-y-]	
Tbg. Size		Depth			Street			
Tool		Depth			City	۵. سرب	State	, e
Cement Left in Csg. 10-1	15	Shoe Jo	pint		The above wa	s done to satisfaction ar	nd supervision of owner	agent or contractor.
Meas Line		Displac	· Stall		Cement Amo	unt Ordered 150	(cm 320	C Zalat
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Bulktrk 10 No. Driver	Bra	t.		-	Poz. Mix			
Bulktrk No. Driver	Ecia.	~		······	Gel.	3		
JOB SEF	RVICES 8	REMA	RKS		Calcium		•	
Remarks:	n., 5			1. s	Hulls 5		2 (5)	
Rat Hole			я а 		Salt			, 1949, 1949, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1967, 1
Mouse Hole					Flowseal			
Centralizers					Kol-Seal			
Baskets					Mud CLR 48			
D/V or Port Collar	N.	·. ·	a		CFL-117 or C	D110 CAF 38	e e e	· · · ·
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<u></u>					Float Shoe		<u> </u>	
/		/			Latch Down	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
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i governing and a second se	е И	in					Tax	
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Signature al Day	Ken	_ ر	x *			a ^a ana	Total Charge	



# DRILL STEM TEST REPORT

Prepared For:

## IA Operating Inc

9915 W 21st Street North Ste B Wichita KS 67205

ATTN: Jeff Mowry

#### Virginia K #18-1

#### 18-14s-19w Ellis,KS

 Start Date:
 2012.03.05 @ 10:30:34

 End Date:
 2012.03.05 @ 18:49:28

 Job Ticket #:
 46260
 DST #: 1

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

ORIGINAL Printed: 2012.03.09 @ 15:35:16

		DRIL	L STE	M TEST	REPOR	RT	TOOL DIAGE
RILO		IA Opera	ating Inc	<u></u>		18-14s-19w Elli	s,KS
EST	TING , INC	9915 W	21st Street N	lorth		Virginia K #18-	-1
		Ste B				Job Ticket: 46260	DST#:1
	1		KS 67205 Jeff Mow ry			Test Start: 2012.0	3.05 @ 10:30:34
		ATTN.					and a second
Tool Information							
Drill Pipe: Length:				ches Volume:	49.31 bb		2200.00 lb
Heavy Wt. Pipe: Length:		Diameter:		ches Volume:	0.00 bb		Packer: 25000.00 lb .oose: 95000.00 lb
Drill Collar: Length:	30.00 ft	Diameter:	-	ches Volume:	0.00 bb	-	0.00 ft
Drill Pipe Above KB:	31.00 ft			Total Volume:	49.31 bb	String Weight:	
Depth to Top Packer:	3535.00 ft					2	Final 61000.00 lb
Depth to Bottom Packer:	ft				2		
Interval between Packers						۰. ۱	
Tool Length:	62.00 ft			•			
Number of Packers:	2	Diameter:	6.75 in	ches			
Tool Comments:							
Tool Description	Le	angth (ft)	Serial No.	Position	Denth (ft)	Accum. Lengths	
Change Over Sub	LC	1.00	Senariu.		3515.00	/loodin Longino	······································
Shut In Tool		5.00			3520.00		
Hydraulic tool		5.00			3525.00		
Packer		5.00			3530.00	21.00	Bottom Of Top Pa
Packer	an anna an an ta an an an aire dha dhaan 1944 a ta ta ta ta ta	5.00			3535.00		
Stubb		1.00			3536.00		
Perforations		5.00			3541.00		
Recorder		0.00	6625	Inside	3541.00		
Recorder		0.00	8700	Outside	3541.00		
Blank Spacing		32.00	0/00	Outside	3573.00		
Bullnose		3.00			3576.00	41.00	Pottom Dockora & Ano
• · · · · · · · · · · · · · · · · · · ·	ol Length:	62.00			3378.00	41.00	Bottom Packers & Anc
Total To	or Length.	02.00					

Trilobite Testing, Inc

(ONT	RILOBITE	DR	DRILL STEM TEST REPORT							
施		IA Ope	erating Inc	<u>.</u>		18-14s-19	v Ellis,KS	FLUID SUMMAR		
	ESTING , INC	9915 \	N 21st Street Nor	th		Virginia K #18-1 Job Ticket: 46260 DST#:1				
		Ste B	a KS 67205							
			Jeff Mow ry							
						Test Start. 2	2012.03.05 @ 10	J:30:34		
	hion Information							12		
	Chem		Cushion				Oil API:	40 deg APi		
/lud Weight:	9.00 lb/gal		Cushion			ft	Water Salinity:	126000 ppm		
iscosity:	48.00 sec/qt		Cushion			bbl				
later Loss:	7.74 in ³			hion Type:		`•				
lesistivity: alinity:	ohm.m		Gas Cus	hion Pressure	<b>:</b>	psig				
anniy: ilter Cake:	3000.00 ppm 1.00 inches									
ecovery Info	ormation		Pasara	n: Toble						
	Leng	nth		ry Table			T			
	ft		Desc	ription	e a	Volume bbl				
		0.00	Gas to surface			0.000				
		1280.00	CO			17.534				
		120.00	SOCMW 4%010	)%M86%W		1.683				
	Total Length:	1400	.00 ft Total Y	Volume:	19.217 bbl					
	Num Fluid Sam	oles: 0	Num C	Gas Bombs:	0	Serial #:				
	Laboratory Nar		Labor	atory Locatior	1:					
127	Recovery Com	ments: RV	V.06@65F							
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Trilobite Testing, Inc

Ref. No: 46260

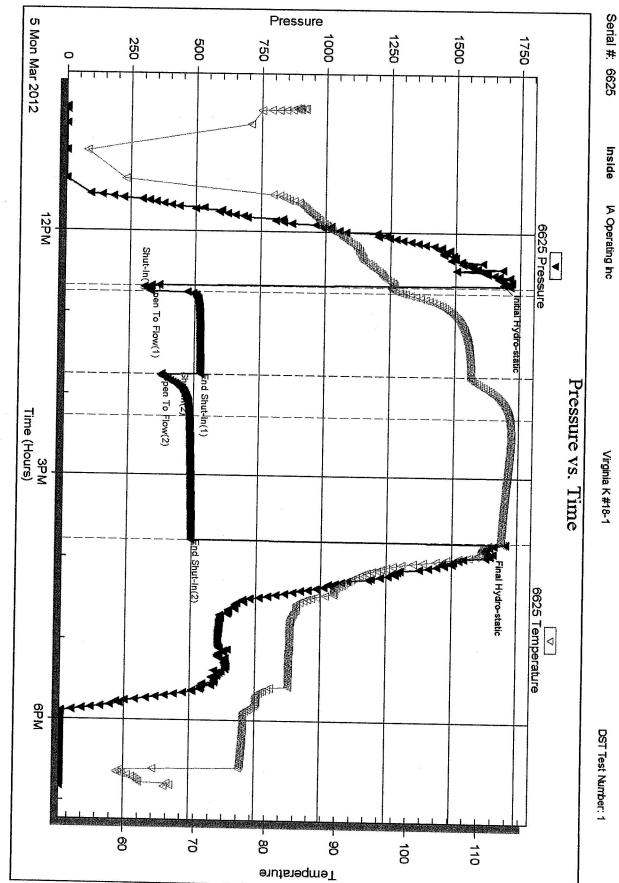
Printed: 2012.03.09 @ 15:35:17

RILOBITE		ST REP				7	
TESTING, INC	A Operating Inc		18	8-14s-19v	v Ellis,KS		
	9915 W 21st Street North		Vi	rginia K	#18-1		
	Ste B Wichita KS 67205		Jol	b Ticket: 4	6260	DST#: 1	
	ATTN: Jeff Mow ry		Te	st Start: 2	012.03.05 @ ·	10:30:34	
GENERAL INFORMATION:							
Formation: LKC C-D							
Deviated: No Whipstock: Time Tool Opened: 12:40:29	ft (KB)				Conventional		e (Initial)
Time Test Ended: 18:49:28					Ray Schwage 42	ər	
Interval: 3535.00 ft (KB) To 35	76.00 ft (KB) (TVD)			ference El		2223.00	ft (KB)
Total Depth: 3576.00 ft (KB) (TV	'D)					2215.00	
Hole Diameter: 7.88 inchesHole	Condition: Fair			KB	to GR/CF:	8.00	
Serial #: 6625 Inside				÷			
Press@RunDepth: 484.25 psig ( Start Date: 2012 03 05	- , ,		Capacity			8000.00	psig
Start Date:         2012.03.05           Start Time:         10:30:34	End Date:	2012.03.05	Last Cal			012.03.05	
10.50/34	End Time:	18:49:28	Time On Time Off		2012.03.05 @ 2012.03.05 @		
90-FSIP-strg bl bk Pressure vs. Tin	me		P	RESSUF	RE SUMMA	RY	
0025 Pressure	0625 Temperature	Time	Pressure	Temp	Annotation	10 H 1	
	Plas Hydro-1 855	(Min.)	(psig)	(deg F)			
*500	105	0	1686.93	97.35			
F 14 14		2	224 00		Open To Flow	N(1)	
1250	- 100	3	331.98 329.94	97.17 98.60		• •	
	6	3 7 67	331.98 329.94 522.86	97.17 98.60 108.49	Shut-In(1)		
	06 00 06	7 67 68	329.94 522.86 374.91	98.60 108.49 108.46	Shut-In(1) End Shut-In( Open To Flow	1)	
	06 00 06	7 67 68 98	329.94 522.86 374.91 484.25	98.60 108.49 108.46 114.07	Shut-In(1) End Shut-In( Open To Flov Shut-In(2)	1) v (2)	
	06 00 06	7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2)	1) w (2) 2)	
		7 67 68 98	329.94 522.86 374.91 484.25	98.60 108.49 108.46 114.07	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2)	1) w (2) 2)	
		7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2)	1) w (2) 2)	
		7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2)	1) w (2) 2)	
		7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2)	1) w (2) 2)	
200 700 200 200 200 200 200 200 200 200		7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05 110.38	Shut-In(1) End Shut-In( Open To Flov Shut-In(2) End Shut-In(2 Final Hydro-s	1) w (2) 2)	
100 70 60 60 60 60 60 60 60 60 60 6		7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05 110.38	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-s	1) v (2) 2) static	Rate (Mct/d)
ACCOUNT OF THE ACTION OF THE A	06 00 00 00 00 75 70 00 00 75 00 00 00 00 00 00 00 00 00 00 00 00 00	7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05 110.38	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-s	1) v (2) 2) static	Rate (Mct/d)
Ann Mar 2012 Length (ft) 0.00 1280.00 CO CO CO CO CO CO CO CO CO CO	ос ос ос ос ос ос ос ос ос ос	7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05 110.38	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-s	1) v (2) 2) static	Rate (Mcf/d)
ACCOUNT OF THE ACTION OF THE A	се со со со со со со со со со со	7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05 110.38	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-s	1) v (2) 2) static	Rate (Mcf/d)
200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200 <td>ос ос ос ос ос ос ос ос ос ос</td> <td>7 67 68 98 189</td> <td>329.94 522.86 374.91 484.25 496.05</td> <td>98.60 108.49 108.46 114.07 113.05 110.38</td> <td>Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-s</td> <td>1) v (2) 2) static</td> <td>Rate (Mct/d)</td>	ос ос ос ос ос ос ос ос ос ос	7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05 110.38	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-s	1) v (2) 2) static	Rate (Mct/d)
200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200 <td>ос ос ос ос ос ос ос ос ос ос</td> <td>7 67 68 98 189</td> <td>329.94 522.86 374.91 484.25 496.05</td> <td>98.60 108.49 108.46 114.07 113.05 110.38</td> <td>Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-s</td> <td>1) v (2) 2) static</td> <td>Rate (Mcf/d)</td>	ос ос ос ос ос ос ос ос ос ос	7 67 68 98 189	329.94 522.86 374.91 484.25 496.05	98.60 108.49 108.46 114.07 113.05 110.38	Shut-In(1) End Shut-In( Open To Flow Shut-In(2) End Shut-In(2) Final Hydro-s	1) v (2) 2) static	Rate (Mcf/d)



Ref. No: 46260

Trilobite Testing, Inc



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# DRILL STEM TEST REPORT

# Prepared For: IA Operating Inc

9915 W 21st Street North Ste B Wichita KS 67205

ATTN: Jeff Mowry

### Virginia K #18-1

### 18-14s-19w Ellis,KS

Start Date: 2012.03.06 @ 02:45:37 End Date: 2012.03.06 @ 11:09:01 Job Ticket #: 46261 DST#: 2

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

Printed: 2012.03.09 @ 15:35:44

	BITE	A Operat	ing Inc			18-14s-19w Ellis,KS	TOOL DIAGRA
ES ES	TING , INC	9915 W 2		NI			
		Ste B	ist Street	North		Virginia K #18-1	
		Wichita K	S 67205			Job Ticket: 46261	DST#: 2
		ATTN: Je	eff Mowry			Test Start: 2012.03.06 @	02:45:37
Tool Information		• • • • • • • • • • • • • • • • • • •					0/
Drill Pipe: Length:			3.80 ir	iches Volume:	49.80 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe: Length:	0.00 ft		0.00 ir	iches Volume:	0.00 bbl	Weight set on Packer	
Drill Collar: Length:	30.00 ft	Diameter:	0.00 ir	ches Volume:	0.00 bbl	Weight to Pull Loose:	
Drill Pipe Above KB:	25.00 ft			Total Volume:	49.80 bbl	Tool Chased	0.00 ft
Depth to Top Packer:	3576.00 ft					String Weight: Initial	54000.00 lb
Depth to Bottom Packer:	ft					Final	60000.00 lb
Interval between Packers:	54.00 ft						
Tool Length:	75.00 ft						
Number of Packers:	2	Diameter:	6.75 in	ches			
Tool Comments:							
Change Over Sub Shut In Tool		1.00 5.00			3556.00 3561.00		
Hydraulic tool		5.00					
Packer		5.00			3566.00 3571.00	04.00	_
Packer		5.00			3576.00	21.00	Bottom Of Top Packer
Stubb		1.00			3577.00		
Perforations		1.00			3578.00		
Recorder		0.00	6625	Inside	3578.00		
Recorder		0.00	8700	Outside	3578.00		
Blank Spacing		33.00			3611.00		
Perforations		16.00			3627.00		
Bullnose		3.00			3630.00	54.00 Bott	tom Packers & Anchor
Total Tool	Length:	75.00		*	· · · · · · · · · · · · · · · · · · ·		and dokers & Anchor
							-
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Printed: 2012.03.09 @ 15:35:45

RILOBITE		DR	ILL STEM TEST REPOR	۲T	FLUID SUMMAR				
正明		IA Ope	erating Inc	18-14s-19	w Ellis,KS				
	ESTING , INC	9915 \	N 21st Street North		Virginia K #18-1 Job Ticket: 46261 DST#:2				
		Ste B	a KS 67205						
	1		Jeff Mow ry		2012.03.06 @ 02				
Mud and C	ushion Information				2012.03.06@02	:45:37			
		5 2							
Vlud Type: G Vlud Weight:	el Chem 9.00 lb/gal		Cushion Type:		Oil API:	40 deg API			
/iscosity:	60.00 sec/qt		Cushion Length:	ft	Water Salinity:	126000 ppm			
Vater Loss:	7.75 in ³		Cushion Volume:	bbl					
Resistivity:	ohm.m		Gas Cushion Type: Gas Cushion Pressure:						
Salinity:	3000.00 ppm		Gas Cushion Pressure:	psig					
ilter Cake:	1.00 inches								
ecovery In	formation				······································				
			Recovery Table						
	Leng	th	Description	Volume	1				
	ft			bbl					
		0.00	520'GIP	0.000					
		75.00 535.00	CO	0.631					
		190.00	O&GCMW 10%G4%O10%M76%W Water	7.505	1				
	Total Length:			2.665	4				
			10.001 00	ł					
	Num Fluid Samp Laboratory Nam		Num Gas Bombs: 0	Serial #:					
	Recovery Comm		Laboratory Location:						
			, ,						
			, , , ,						
			, , , ,						

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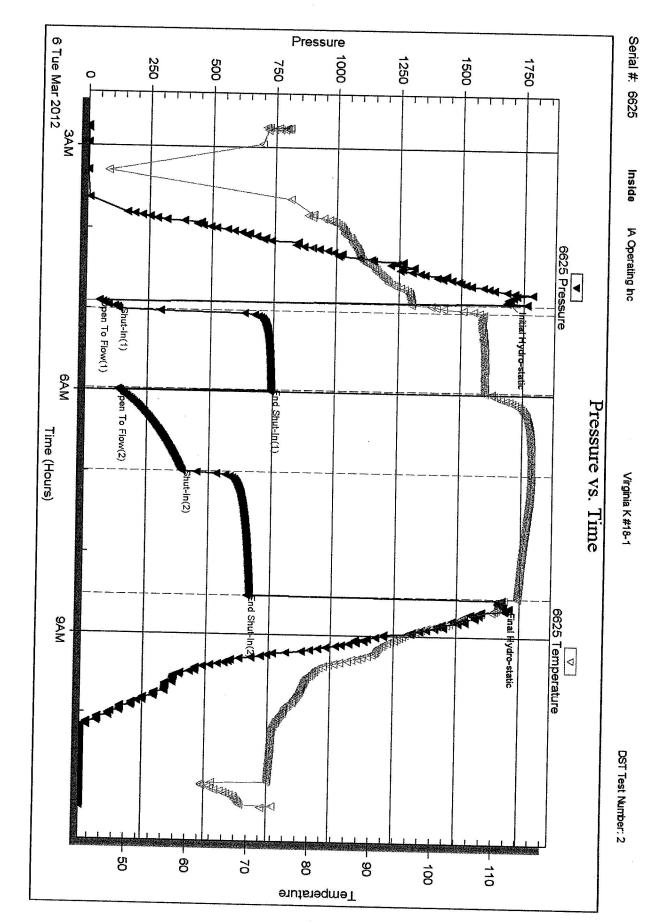
RILOBITE	DRILL STEM TE	ST REF	ORT				
	A Operating Inc		18	-14s-19w	Ellis,KS		
ESTING , INC	9915 W 21st Street North Ste B Wichita KS 67205 ATTN: Jeff Mow ry		Vi	<b>rginia K</b> D Ticket: 46	#18-1	DST	
GENERAL INFORMATION:			·······				
Formation:LKC F-GDeviated:NoWhipstock:Time Tool Opened:04:54:02Time Test Ended:11:09:01	ft (KB)		Tes	ster: F	Conventiona Ray Schwa 12		Hole (Reset)
Interval:         3576.00 ft (KB) To         363           Total Depth:         3630.00 ft (KB) (TV           Hole Diameter:         7.88 inchesHole	D)		Ref	erence Ele		2215.0	00 ft (KB) 00 ft (CF)
Serial #: 6625 Inside			······		OGR/CF:	8.0	00 ft
Press@RunDepth:       393.83 psig @         Start Date:       2012.03.06         Start Time:       02:45:37         TEST COMMENT:       5-IFP-strg bl in 3 n	End Date: End Time:	2012.03.06 11:09:01	Capacity Last Cali Time On Time Off	b.: Btm: 2	012.03.06 012.03.06	2012.03.0 @ 04:51:0	)2
60-ISIP-no bi 60-FFP-strg bl in 7 90-FSIP-strg bl bk	min				а 		
0025 Pressure	0025 Temperature	Time	Pressure		E SUMM		
770 500 500 500 500 500 500 500		(Min.) 0 3 9 68 69 129	(psig) 1689.74 54.83 133.75 745.08 132.64 393.83 659.15 1664.21	95.71 106.81 107.92 109.05 115.73 113.73	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-In Open To Fl Shut-In(2) End Shut-In Final Hydro	-static ow (1) (1) ow (2) (2)	
Recovery	· · · · · · · · · · · · · · · · · · ·	I		Gas	Rates		
Length (ft) Description	Volume (bbl)			Choke (incl		(psig) G	Bas Rate (Mcf/d)
0.00 520'GIP 75.00 CO 535.00 O&GCMW 10%G4%O10%N 190.00 Water	0.00 0.63 176%W 7.50 2.67	e g		E F	- <b>I</b>		
Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 46261				)12 03 09 @		

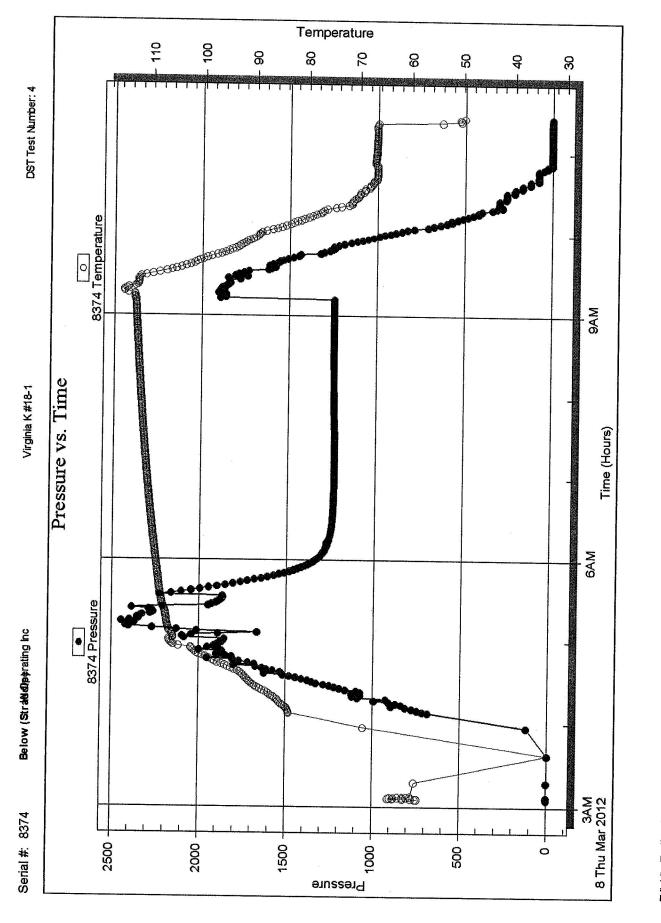
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Ref. No: 46261



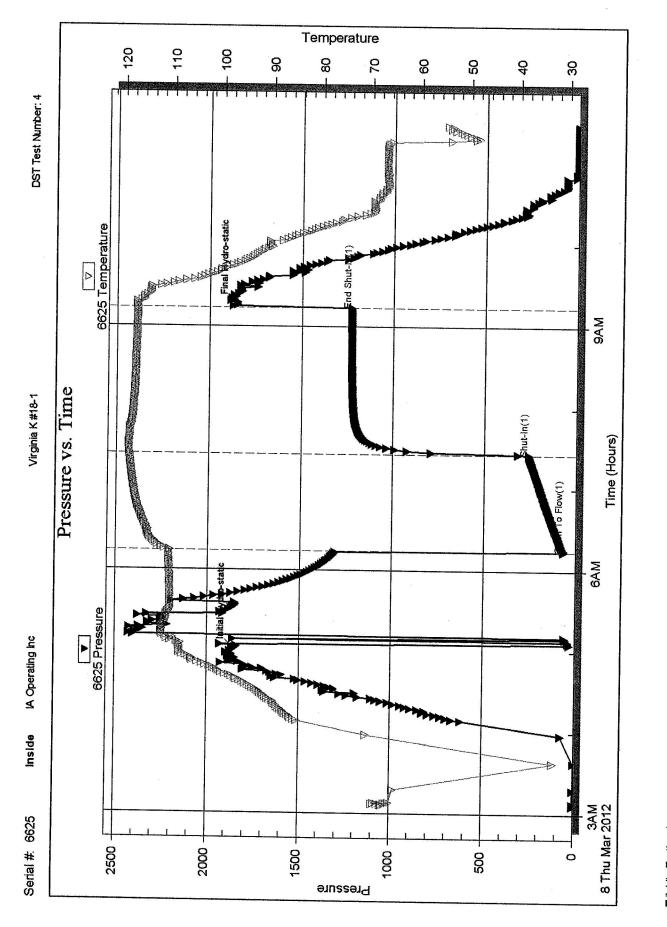




Printed: 2012.03.09 @ 15:38:17

Ref. No: 46263

Trilobite Testing, Inc



Printed: 2012.03.09 @ 15:38:16

Ref. No: 46263

Trilobite Testing, Inc



# DRILL STEM TEST REPORT

# Prepared For: IA Operating Inc

9915 W 21st Street North Ste B Wichita KS 67205

#### ATTN: Jeff Mowry

# Virginia K #18-1

#### 18-14s-19w Ellis,KS

Start Date: 2012.03.07 @ 01:05:28 End Date: 2012.03.07 @ 09:12:52 Job Ticket #: 46262 DST #: 3

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

Printed: 2012.03.09 @ 15:37:15

() TRIC	BITE	DRI	LL STE	EM TEST	REPO	RT	TOOL DIAGRA
		IA Ope	rating Inc			18-14s-19w Ellis,KS	3
	TING , INC	00101	V 21st Street	North		Virginia K #18-1	
		Ste B	KS 67205			Job Ticket: 46262	DST#: 3
			Jeff Mow ry			Test Start: 2012.03.07 (	
Tool Information		·L					an an ann an
Drill Pipe: Length	: 3615.00 ft	Diameter:	: 3.80 ir	nches Volume:	50.71 bb	I Tool Weight:	2200.00 lb
Heavy Wt. Pipe: Length	0.00 ft	Diameter:		ches Volume:			
Drill Collar: Length:	30.00 ft	Diameter:	0.00 ir	nches Volume:	0.00 bb		
Drill Pipe Above KB:	25.00 4			Total Volume:	50.71 bb		0.00 ft
Depth to Top Packer:	25.00 ft 3641.00 ft					String Weight: Initial	56000.00 lb
Depth to Bottom Packer:	5041.00 ft					Final	56000.00 lb
Interval between Packers							
Tool Length:	150.00 ft						
Number of Packers:	2	Diameter:	6.75 in	iches			
Tool Comments:	_	2.0.1.0.001.	0.70 #	iones			
Change Over Sub Shut In Tool		1.00 5.00			3621.00		
Shut in Tool Hydraulic tool		5.00			3626.00		
Packer		5.00 5.00			3631.00	24.02	
Packer		5.00			3636.00	21.00	Bottom Of Top Packer
Stubb		1.00			3642.00		
Perforations		5.00			3647.00		
Recorder		0.00	6625	Inside	3647.00		
Recorder		0.00	8700	Outside			
Blank Spacing		96.00	8700	Outside	3647.00		
Perforations		24.00			3743.00		
Bulinose		3.00			3767.00 3770.00	100.00	
Total Toc	ol Length:	150.00				129.00 Bo	ttom Packers & Anchor
ei.							
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Trilobite Testing, Inc

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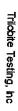
RILOB		DRILL STEM TEST REPORT FLUID SUMMARY							
	A	A Operating Inc				w Ellis,KS			
ESTING , INC						( #18-1			
		Ste B Wichita KS 67205 ATTN: Jeff Mow ry			Job Ticket: 4		DST#: 3		
						2012.03.07 @ 0			
						.012.03.07 @ 0			
Mud and Cushion Info	ormation								
Mud Type: Gel Chem			Cushion Type:			Oil A PI:		deg API	
Mud Weight: 9.00 lk			Cushion Length:		ft	Water Salinity:		ppm	
Viscosity: 60.00 s			Cushion Volume:		bbl				
Water Loss: 7.74 in			Gas Cushion Type:						
-	hm.m		Gas Cushion Pressure:		psig				
Salinity: 3200.00 p Filter Cake: 1.00 in	<ul> <li></li></ul>								
				·····					
Recovery Information									
г			Recovery Table			-			
	Length ft		Description		Volume bbl				
	0.0	0 270'G	IP		0.000	-			
	90.0	0 MGO	35%G35%O30%M		0.842	+			
ļ	2.0	0 00	·		0.028	I			
Tota	al Length:	92.00 ft	Total Volume:	0.870 bbl					
N.L									
NUT	n Fluid Samples: 0		Num Gas Bombs:	0	Serial #				
	oratory Name:		Num Gas Bombs: Laboratory Location:	0	Serial #:				
Lab					Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:				Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name:		Laboratory Location:		Serial #:				
Lab	oratory Name: overy Comments:		Laboratory Location:		Serial #:				
Lab	oratory Name: overy Comments:		Laboratory Location:		Serial #:				
Lab	oratory Name: overy Comments:		Laboratory Location:		Serial #:				
Lab Rec	oratory Name: overy Comments:		Laboratory Location:		Serial #:				
Lab Rec	oratory Name: overy Comments:		Laboratory Location:						

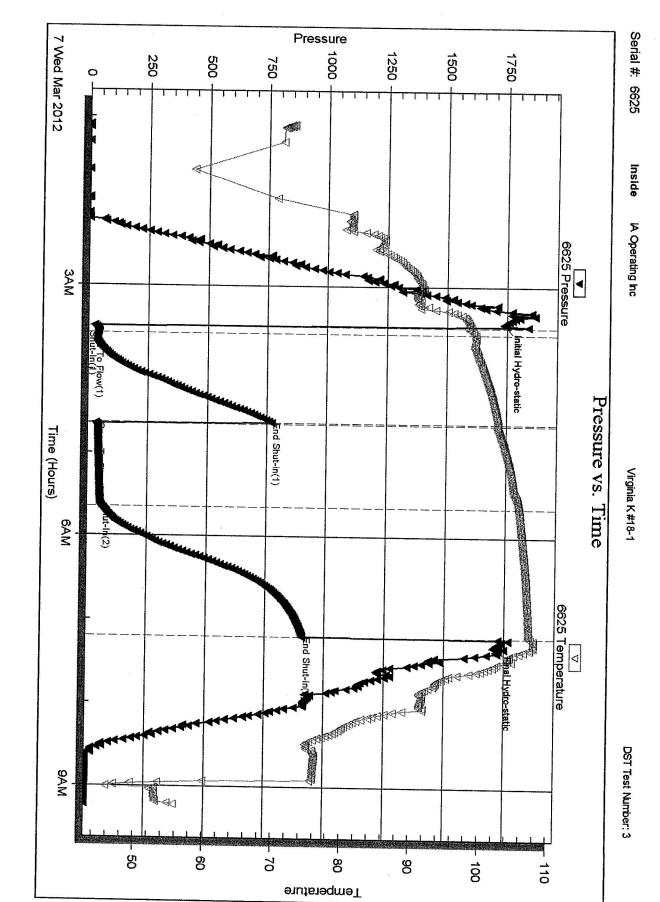
Printed: 2012.03.09 @ 15:37:17

RILOBITE	A Operating Inc	18-14s-19w Ellis,KS						
ESTING , INC	9915 W 21st Street North			rginia K				
	Ste B Wichita KS 67205			Ticket: 4		DST#:3		
	ATTN: Jeff Mow ry				012.03.07 @			
GENERAL INFORMATION:								
Formation: LKC H-L								
Deviated: No Whipstock:	ft (KB)		Tes	st Type:	Conventiona	al Bottom Hole	e (Reset)	
Time Tool Opened: 03:28:53 Time Test Ended: 09:12:52				Tester:		Ray Schwager		
					42			
Interval:         3641.00 ft (KB) To         377           Total Depth:         3770.00 ft (KB) (TV	<b>'0.00 ft (KB) (TVD)</b> D)	Ξ.	Ref	erence Ele	evations:	2223.00		
Hole Diameter: 7.88 inchesHole				2215.00 KB to GR/CF: 8.00				
Serial #: 6625 Inside								
Press@RunDepth: 60.82 psig @	3647.00 ft (KB)		Capacity	:		8000.00	neia	
Start Date: 2012.03.07	End Date:	2012.03.07	Last Cali		:	2012.03.07	မာမ	
Start Time: 01:05:28	End Time:	09:12:52	Time On		2012.03.07 (			
			Time Off	Btm:	2012.03.07 (	@ 07:16:52		
TEST COMMENT: 5-IFP-w k bl 1/2" to 60-ISIP-no bl	93" bl							
60-FFP-strg bl thru	ı-out							
90-FSIP-no bl								
Pressure vs. Tin			PF	RESSUE				
6625 Pressure	0625 Temperature	Time	Pressure	Temp	Annotatio	545 6550		
1750		(Min.)	(psig)	(deg F)				
1500	100	0	1737.15 27.08	98.22 98.08	Initial Hydro Open To Fk			
		8	41.43	99.13	Shut-In(1)	ow(1)		
		72	768.96	102.51	End Shut-In			
		100	34.80		Open To Flo	ow (2)		
750	Helline Land	133 225	60.82 904.75	105.64 107.25	Shut-In(2) End Shut-In	(2)		
		231	1710.52	107.88	Final Hydro			
	0				,			
20								
Wed Mar 2012 Time (Hours)	QASA QASA							
						· ·····		
Recovery		1	-	Gas Choke (in	ches) Pressure	(osia) Gas i	Rate (Mcf/d)	
Length (ft) Description	Volume (bbl)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ļ		(F***) Gast		
	Volume (bbl) 0.00							
Length (ft)         Description           0.00         270'GIP           90.00         MGO 35%G35%O30%M			nas ²					
Length (ft)         Description           0.00         270'GIP           90.00         MGO 35%G35%O30%M	0.00		ра ⁶			2		
Length (ft)         Description           0.00         270'GIP           90.00         MGO 35%G35%O30%M	0.00 0.84	5	ja. ²	•,		n.		
Length (ft)         Description           0.00         270'GIP           90.00         MGO 35%G35%O30%M	0.00 0.84		in T	•				











# DRILL STEM TEST REPORT

# Prepared For: IA Operating Inc

9915 W 21st Street North Ste B Wichita KS 67205

ATTN: Jeff Mowry

#### Virginia K #18-1

### 18-14s-19w Ellis,KS

Start Date: 2012.03.08 @ 03:06:01 End Date: 2012.03.08 @ 11:27:25 Job Ticket #: 46263 DST #: 4

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

Printed: 2012.03.09 @ 15:38:14

A Operating Inc		18-14s-19w Ellis,KS				
9915 W 21st Street North						
Ste B		_		DST#:4		
Wichita KS 67205 ATTN: Jeff Mow ry						
	·····	······				
ft (KB)		Test Type: Tester: Unit No:		nal Straddle (Reset) ager		
856.00 ft (KB) (TVD)		Reference I	Elevations:	2223.00 ft (KB)		
VD)				2215.00 ft (CF)		
e Condition: Fair		KE	B to GR/CF:	8.00 ft		
idle)						
@ 3864.00 ft (KB)	0040.00.00	Capacity:		8000.00 psig		
End Time:				2012.03.08		
		Time Off Btm:				
	(Min.)					
	Ten					
	91 I					
- 60	u l					
QAM .						
		Ga	as Rates	2		
Volume (bbl)				ure (psig) Gas Rate (Mcf/d)		
6.45				·····		
N 2.10						
	1					
1 1						
	A Operating Inc 9915 W 21st Street North Ste B Wichita KS 67205 ATTN: Jeff Mow ry ft (KB) 856.00 ft (KB) (TVD) VD) e Condition: Fair fdle) @ 3864.00 ft (KB) End Date: End Time: bl 1/2" to 5" bl rg in 45 min me PTT Tempurater 0 0 0 0 0 0 0 0 0 0 0 0 0	A Operating Inc 9915 W 21st Street North Ste B Wichita KS 67205 ATTN: Jeff Mow ry ft (KB) 856.00 ft (KB) (TVD) VD) e Condition: Fair Idle) @ 3864.00 ft (KB) End Date: 2012.03.08 End Time: 11:25:33 bl 1/2" to 5" bl rg in 45 min Time Volume (bb) 6.45	9915 W 21st Street North Ste B Wichita KS 67205 ATTN: Jeff Mow ry ft (KB) ft (KB) Test Type: Tester: Unit No: 856.00 ft (KB) (TVD) VD) e Condition: Fair KE End Date: End Time: 11:25:33 Time On Btm: Time Off Btm: bl 1/2" to 5" bl rg in 45 min Time Value Volume (bb) Volume (bb) KE KE KE KE KE KE KE KE KE KE	A Operating Inc       18-14s-19w Ellis,K:         9915 W 21st Street North Ste B       Virginia K #18-1 Job Ticket: 46263         ATTN: Jeff Mow ry       Test Start: 2012.03.08         ft (KB)       Test Type: Convention Tester: Ray Schw Unit No: 42         886.00 ft (KB) (TVD)       Reference Elevations:         VD)       e Condition: Fair         @ 3864.00 ft (KB)       2012.03.08         End Date:       2012.03.08         Last Callib.:         End Time:       11:25:33         Time On Btm:         Time Off Btm         bl 1/2" to 5" bl         rg in 45 min         Image:       Time On Btm:         Image:       Time On Btm:         Image:       Time On Btm:         Image:       Gas Rates         Volume (tbi)       Chole (inches) Press		

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	BITE	DRILL	. STE	MTEST	REPOR	T	TOOL DIAGRA
	1	IA Operatir	ng Inc			18-14s-19w Ellis,KS	
ES I ES	TING , INC	9915 W 21	st Street	North		Virginia K #18-1	
	17	Ste B					DOT // /
1953		Wichita KS				Job Ticket: 46263	DST#:4
		ATTN: Je	ft INIOW ry			Test Start: 2012.03.08 @	2 03:06:01
Tool Information							
Drill Pipe: Length:			3.80 ir	iches Volume:	53.30 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe: Length:			0.00 ir	iches Volume:	0.00 bbl	Weight set on Packer	
Drill Collar: Length:	30.00 ft I	Diameter:	0.00 ir	ches Volume:	0.00 bbl	Weight to Pull Loose:	
Drill Pipe Above KB:	31.00 ft			Total Volume:	53.30 bbl	Tool Chased	15.00 ft
Depth to Top Packer:	3820.00 ft					String Weight: Initial	56000.00 lb
Depth to Bottom Packer:	3856.00 ft					Final	61000.00 lb
Interval between Packers:	36.00 ft						·
Tool Length:	129.00 ft						
Number of Packers:	3 [	Diameter:	6.75 in	ches			
Tool Comments:							
Change Over Sub Shut In Tool		1.00 5.00			3800.00 3805.00		
Shut In Tool		5.00			3805.00		
Hydraulic tool		5.00			3810.00		
Packer Packer		5.00			3815.00	21.00	Bottom Of Top Packer
Stubb		5.00			3820.00		7.1M2
Perforations		1.00			3821.00		
		7.00					
Recorder		0.00	CCOF	h	3828.00		
		0.00	6625 8700	Inside	3828.00		
Recorder		0.00	6625 8700	Inside Outside	3828.00 3828.00		
Recorder Perforations	2	0.00 4.00			3828.00 3828.00 3852.00		
Recorder Perforations Blank Spacing	2	0.00 4.00 3.00			3828.00 3828.00 3852.00 3855.00	26.00	Tullion
Recorder Perforations Blank Spacing Blank Off Sub	2	0.00 4.00			3828.00 3828.00 3852.00 3855.00 3856.00	36.00	Tool Interval
Recorder Perforations Blank Spacing Blank Off Sub Packer	2	0.00 4.00 3.00 1.00			3828.00 3828.00 3852.00 3855.00	36.00	Tool Interval
Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb	2	0.00 4.00 3.00 1.00 5.00			3828.00 3828.00 3852.00 3855.00 3856.00 3861.00	36.00	Tool Interval
Recorder Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb Perforations Recorder	2	0.00 4.00 3.00 1.00 5.00 1.00			3828.00 3828.00 3852.00 3855.00 3856.00 3861.00 3862.00	36.00	Tool Interval
Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb Perforations Recorder	2	0.00 4.00 3.00 1.00 5.00 1.00 2.00	8700	Outside	3828.00 3828.00 3852.00 3855.00 3856.00 3861.00 3862.00 3864.00		Tool Interval
Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb Perforations Recorder	2	0.00 4.00 3.00 1.00 5.00 1.00 2.00 0.00	8700	Outside	3828.00 3828.00 3852.00 3855.00 3856.00 3861.00 3862.00 3864.00 3864.00		
Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb Perforations Recorder Blank Spacing	2	0.00 4.00 3.00 1.00 5.00 1.00 2.00 0.00 4.00	8700	Outside	3828.00 3828.00 3852.00 3855.00 3856.00 3861.00 3862.00 3864.00 3864.00		
Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb Perforations Recorder Blank Spacing	2	0.00 4.00 3.00 1.00 5.00 1.00 2.00 0.00 4.00	8700	Outside	3828.00 3828.00 3852.00 3855.00 3856.00 3861.00 3862.00 3864.00 3864.00		
Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb Perforations Recorder Blank Spacing	2	0.00 4.00 3.00 1.00 5.00 1.00 2.00 0.00 4.00	8700	Outside	3828.00 3828.00 3852.00 3855.00 3856.00 3861.00 3862.00 3864.00 3864.00		
Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb Perforations Recorder Blank Spacing	2	0.00 4.00 3.00 1.00 5.00 1.00 2.00 0.00 4.00	8700	Outside	3828.00 3828.00 3852.00 3855.00 3856.00 3861.00 3862.00 3864.00 3864.00		
Recorder Perforations Blank Spacing Blank Off Sub Packer Stubb Perforations Recorder Blank Spacing	2	0.00 4.00 3.00 1.00 5.00 1.00 2.00 0.00 4.00	8700	Outside	3828.00 3828.00 3852.00 3855.00 3856.00 3861.00 3862.00 3864.00 3864.00		

Printed: 2012.03.09 @ 15:38:15

	RILOB		IA Ope	erating Inc	18-14s	-19w Ellis,KS	LUID SUMM
	ESTI	ING , INC	9915 <b>\</b>	W 21st Street North		ia K #18-1	
			Ste B			et: 46263	DST#:4
				: Jeff Mow ry	Test Sta	art: 2012.03.08 @ 03:	
Mud and C	ushion Info	ormation					
Mud Type: O				Cushion Type:		Oil API:	deg
Mud Weight: Viscosity:	9.00 lk			Cushion Length:	ft	Water Salinity:	33000 ppm
Water Loss:	66.00 s 8.74 ir			Cushion Volume: Gas Cushion Type:	bbl		
Resistivity:		hm.m		Gas Cushion Pressure:	psig		
Salinity: Filter Cake:	8000.00 p 1.00 ir			X	1.0		
Recovery I	nformation						<b></b>
	1			Recovery Table			
		Lengti ft	n	Description	Volun bbl		
			190.00	Water RW .24@60F	6	6.453	
		1	150.00	SOCMW 2%O30%M68%W	2	2.104	
	Lab	oratory Name		Laboratory Location:			
			ents: sli too	id tool approx 15' to bottom on 1st shul ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli too	id tool approx 15' to bottom on 1st shui ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli too	id tool approx 15' to bottom on 1st shu ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli too	id tool approx 15' to bottom on 1st shui ol loose to add Jt of pipe, reset tool	t-in pulled		
			ients: sli too	id tool approx 15' to bottom on 1st shu ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli too	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli to	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli to	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli to	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		
			ents: sli to	id tool approx 15' to bottom on 1st shut ol loose to add Jt of pipe, reset tool	t-in pulled		

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RILOBITE	DRILL STEM TE				
ESTING, INC	9915 W 21st Street North				w Ellis,KS
	Ste B			rginia k	
	Wichita KS 67205 ATTN: Jeff Mow ry			b Ticket: 4	Delimit
GENERAL INFORMATION:					2012.03.08 @ 03:06:01
Formation: Arbuckle					
Deviated: No Whipstock:	ft (KB)		Tes	st Type:	Conventional Straddle (Reset)
Time Tool Opened: 06:13:56				ster:	Ray Schwager
Time Test Ended: 11:27:25				it No:	42
Interval: 3820.00 ft (KB) To 384 Total Depth: 3924.00 ft (KB) (TV	56.00 ft (KB) (TVD) ⁽ D)		Ret	ference E	levations: 2223.00 ft (KB) 2215.00 ft (CF)
Hole Diameter: 7.88 inches Hole				KB	to GR/CF: 8.00 ft
Serial #: 6625 Inside					
Press@RunDepth: 259.86 psig @ Start Date: 2012 03 08			Capacity	/:	8000.00 psig
Start Date: 2012.03.08 Start Time: 03:06:01	End Date: End Time:	2012.03.08 11:27:25	Last Cali Time On		2012.03.08
		11.27.25	Time Off		2012.03.08 @ 05:01:26 2012.03.08 @ 09:16:25
TEST COMMENT: 5-IFP-wktoafrb	1 1/2" to 5" bl				_
60-ISIP-no bl				i	
60-FFP-w k to strg 90-FSIP-no bl	) in 45 min				
Pressure vs. Tir		<u> </u>			
6525 Pressure	Elec CV CV CV CV CV CV CV CV CV CV CV CV CV	Time	Pressure	RESSUI Temp	RE SUMMARY
		(Min.)	(psig)	(deg F)	Annotation
200	110	0 73	1853.34 66.45	108.44	(i) Construction (Construction) (Construction)
	And	145	259.86	118.81	Open To Flow (1) Shut-In(1)
		252	1225.83	117.30	End Shut-In(1)
	- 80	* 1	1851.31	117.38	Final Hydro-static
	70	erature			
	60				
500					
3AM GAM	9AM				
nu Mar 2012 Time (Hours)		_			
Recovery				Ga	s Rates
Length (ft) Description	Volume (bbl)			Choke (i	nches) Pressure (psig) Gas Rate (Mcf/d
490.00         Water         RW .24@60F           150.00         SOCMW 2%O30%M68%W	6.45			3	
	2.10				i."
Recovery from multiple tests					

Jall Kilian	Corporation	
Geologist		RECEIVED
		SEP 1 2 2012
	Certified Petroleum	KCC WICHITA
	Geologist *3351 License *224	P.O. Box 26
		Hays, Kansas 67601-0026 Phone: 785-628-6061
		Cell: 785-635-1349
		2
8		. DEDORT
	GEOLOGIST'S WEL	L REPORT
COMPA	NY IA OPERATING, INC. (	33335)
	ELL <u>Virginia K.</u> #18-1	
FI	LD_Pleasant SE (Wildcat	<u>per seismi</u> c)
LOCAT	ION (legal) <u>AD. SE SE NW</u> (2180' FNL & Section <u>18</u> TWP <u>1</u> 2	2100' FWL) +5 RGE 19W
	(Map) 63 mi W & 13	<u>mi S of Hav</u> s Golf
COU		Coarse TE <u>Kansas</u>
	ELEVATION: _2223' K.B.,	<u>2215 G.L.</u>
	Depths measured from K	elly Bushing
А.	P. I. NUMBER 15-051-2626	8
	GEOLOGY BY Randall Kil	ian
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## PERTINENT WELL DATA

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CONTRACTOR DISCOVERY DRILLING CO., INC. (31548)
RIG $\frac{#3}{(Galen Gaschler TP)}$ HYDRAULICS <u>D-375 6x14x60</u> (5261)
DRILL PIPE 43" X-H COLLARS 62 17 (526')
CASING: SURFACE 8 5/8" @ 221' w/ 150 sx Common_
PRODUCTION <u>5 ½" @ 3923' w/ 155 sx Common</u> PC in Anhydrite
PRODUCTION 5 ¹ / ₂ " [@] 3923' w/ 155 sx Common PC in Anhydrite DRILLING FLUID: COMPANY Andy's Mud & Chemical Co. (Kirk Werth)
TYPE: <u>Chemical &amp; Drispac</u>
REMARKS: <u>Full</u> service
DRILL STEM TESTS: COMPANY <u>Trilobite Testing Inc.</u> (Ray Schwager)
NUMBER OF TESTS Four (4)
ELECTIC LOGS: COMPANY <u>Superior Well Services</u>
DETAIL (5") 3150' - RTD
TYPE DI, Comp N-D, Micro
DRILLING TIME FROM <u>3150'</u> TO <u>RTD</u>
SAMPLE TIME FROM <u>3150</u> TO <u>RTD</u>
SUPERVISION FROM <u>3150</u> TO <u>RTD</u>
VERTICAL DEVIATION $\frac{3/4^{\circ}@221'}{2\frac{1}{2}^{\circ}@3925'}$ PLUGGING REPORT $\frac{30 \text{ sx Rat}}{15 \text{ sx Mouse}}$
PLUGGING REPORT 30 sx Rat, 15 sx Mouse
RESERVE PIT 400 bbls., Chl. 67,000 Ca. 2100

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## DAILY REPORT

DATE:	7 a.m. Depth	RIG ACTIVITY
3-1-12	ананананананананананананананананананан	MIRU, Spud 😹
3-2-12	505'	Drilling under surface
3-3-12	2300'	Drilling shale & sand
3-4-12	3060'	Drilling shale & lime
3-5-12	3576'	DST #1 LKc C-D
3-6-12	3630'	DST #2 LKc F-G
3-7-12	3770'	DST #3 LKc H-L
3-8-12	3925'	TD, Logged, DST #4, Run p
	an a	
		·
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		·

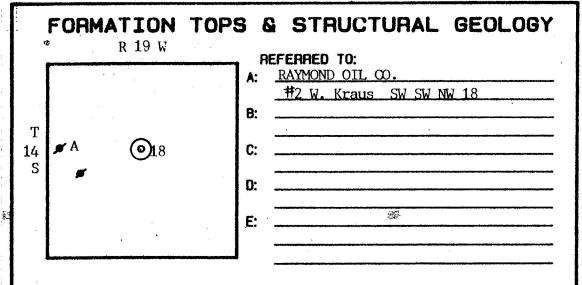
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								STS	rc	M	TC		)11 1	00		an y chant			
	n an		RY	WE	MECO	I		P/FH							ME	FP/1	N. 11	TERV	Ö
	)°	40		2n il 1,0	10" ' 0 ' S	TS 280	T.	1686# 1631#	F 1 1	496† 90'	74#F 34#F 30''	37		52	1# 9# 5"	33 32		Kc C 535- 576	1
	)°	40		IP 11 &G,		520 75 535		1689# 1664#	<b>F</b> 1	659 90	32# 93# 60#	1.3	5# 0"	74	潮	13	-G	Kc F 576-	2
				IP ,G,		27( 92	-	1737 1710	<b>F</b>	904 [*] 90	34 <b>#</b> 60 <b>#</b> 60''		8#F 0''		7	ž	-L	Kc H 641- 770'	3
r	Wtr	,M,V	),C,	51,0 Vtr	0' 9 0' V	15 49	F	1853 1851	₩	1225 105	66# 59# 75"	ି 2	- 50''		- 5"		;	Arb. 3820- 3856	4
				<u></u>															5
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-										-									8
- <b>T</b> -1				T						. 1									
					77 ද	2 3/4	HOURS		#	1뇊 \$76	井	1 3/年				井	Displaced		
					3704	221'	FEET	0	δ		ГG	ĘĞ				ГŒ	Disp		
					39251	221'	LEBINO IL	RECOR		8k 24	.2k 12	3k 14	+		-	8k 15		LYP	5
+	-				GC20C	WA417GC			_	8.8 8	7.8 3.	7.8 3			-	8.0 1.		FIL CHL	Cac
+						MA		E H	8 67	2 60				7 53		46			
					HTCo	TZ	NAKE		8.8	o o	50	$\infty$	0.7		∞	8.7		TW -	
			×		7 7/8"	12 %"	5175		3880'	37931	36301	3576'	10445	3250'	3170'	3133'	3038	HLASO	
	v	2	4	e	N	-	5		=	, <u>p</u>	00 0	~	n lo	*   u	-	2		Ĭ	

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STRATIGRAPHIC	SUB	JECT WELL	STRUCTURAL POSITION						
MARKERS	SAMPLE	E. LOG	DATUM	<u>A</u> . <u>B</u>	<u> </u>	Ď	E		
Anhydrite	1486'	1488'	+ 735	+ 730					
Base	1530'	1532'	+ 691	+ 693					
Topeka	3227'	3231'	-1008	-1006					
Heeb. Sh.	3474'	3480'	-1257	-1254					
Toronto	3498'	3501'	-1278	-1278					
Lansing	3520'	3523'	-1300	-1300					
BKc.	3768'	3774'	-1551	-1554					
Marmaton	3802'	3808'	-1585	-1588			•		
Arbuckle	3839'	<u>3845'</u>	-1622	-1619					
TD	<u>3925'</u>	3924'	-1701	-1623			······		
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question the electric log tops.

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*Structural position of subject well as compared to referred well.

## SUMMARY

The Virginia K. #18-1 well was drilled by Discovery Drilling tools rig #3 beginning 3-1-12 and drilling was completed 3-8-12.

The drill site was located via a 3-D seismic survey. The well ran high structurally to nearby wells.

Oil shows were encountered in numerous zones. DST #1 LKc C-D was a positive test. DST #2 LKc F-G may con= tribute to ultimate reserves. DST #3 LKc H-L was also a positive test.

The Arbuckle was encountered a bit lower than expected therefore DST #4 was a negative test.

Based upon all data, casing was set and cemented to further test and produce the well.

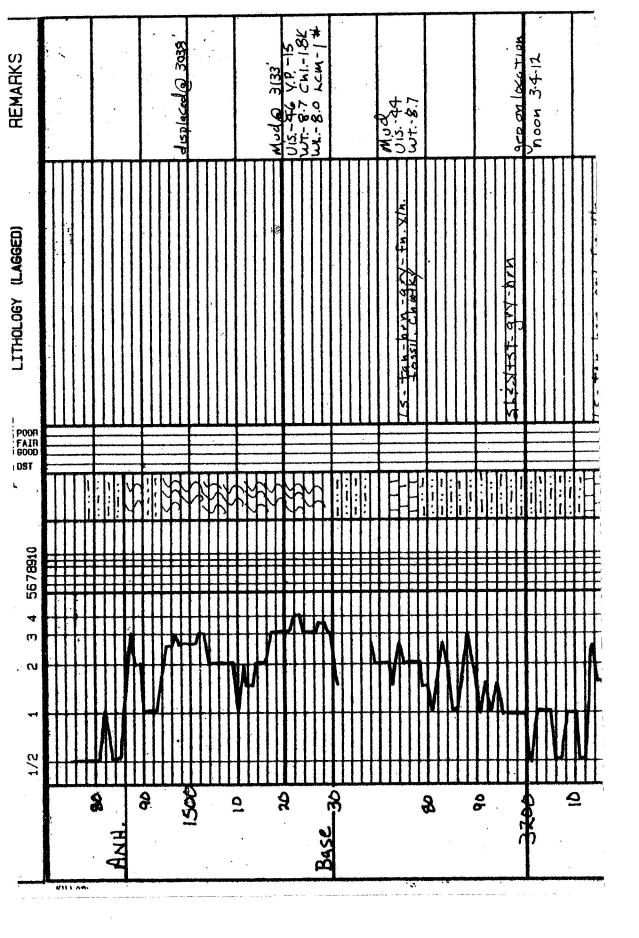
Recommended perfs; LKc K 3727-32', E 3591-95' & C 3550-55'.

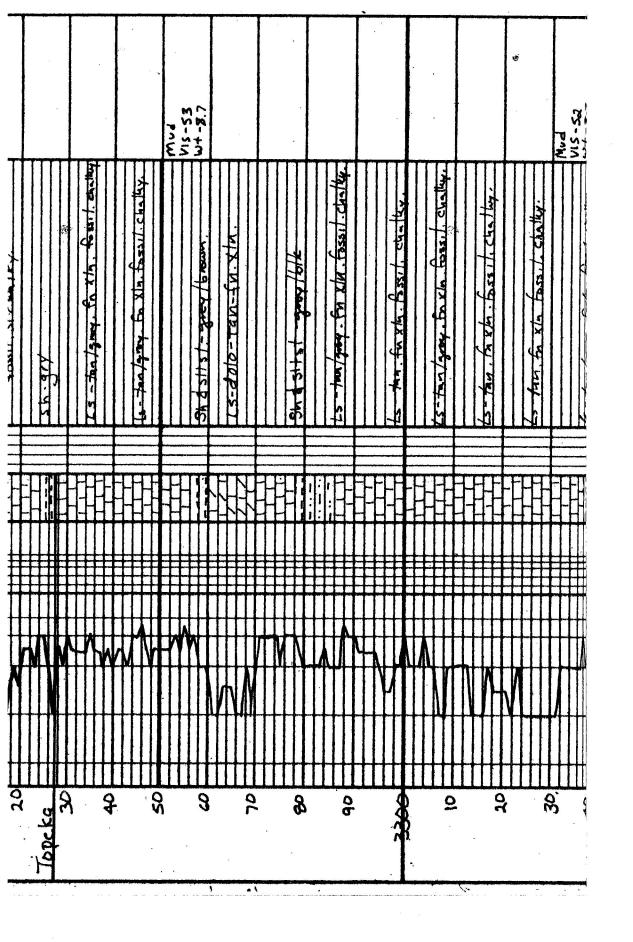
Respectfully.

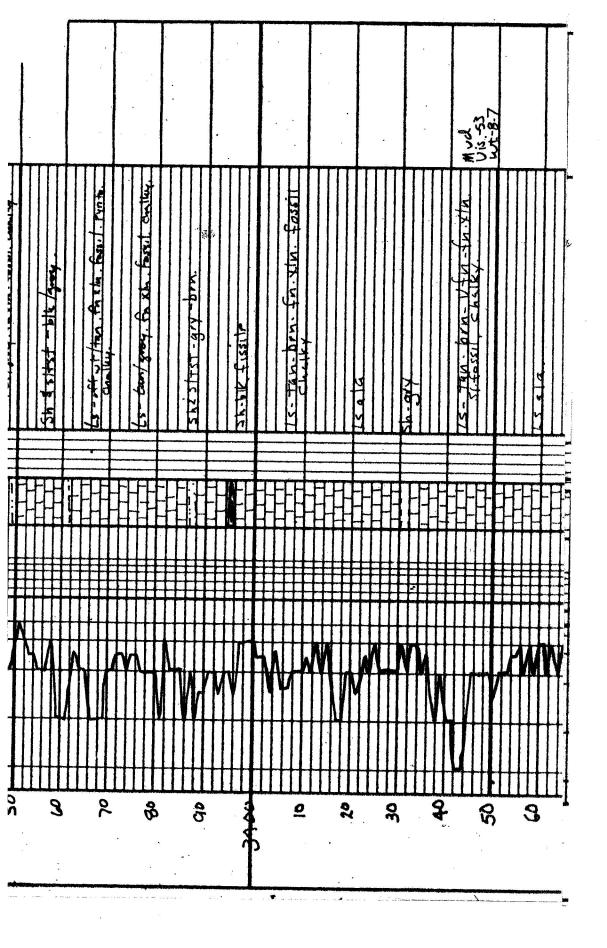
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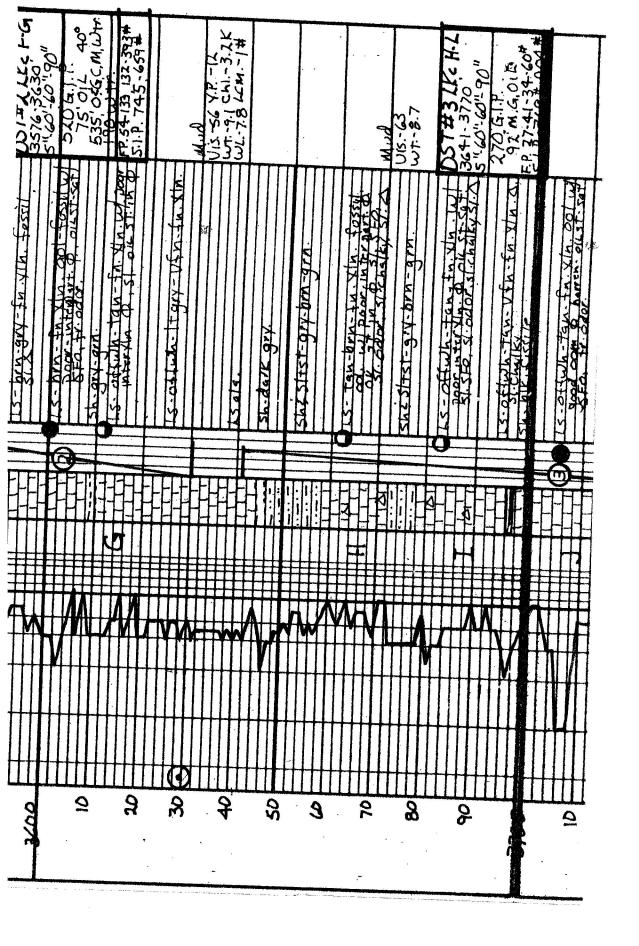




	DS/#14/C C-D 3535-76 5"20":30"90" 6.TS. 10".2nd 1280 01L 90" 1280 01L 90" 1280 01L 90" 1280 01L 90" 1280 01L 90" 1280 01L 90" 5-1.P.522-496# den 2 24	Mud Vis-53 Vis-53 Vis-48 Y.P14 Vis-48 Y.P14 WI-89 CMI-3K
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Mud Vis63 wt:-8.8	M.d Y.P-24 M.GO Y.P-24	DST#4-Hrb. 3820-56' 3820-56' 5.60-75-108" 150 20,40-10 490 WHC. FP , 66.259#	
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