KOLAR Document ID: 1457882

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from
City: State: Zip:+	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.axxx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD ☐ Gas ☐ DH ☐ EOR	Producing Formation: Kelly Bushing:
☐ OG ☐ GSW	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?
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 EOR □ Conv. to SWD □ Plug Back □ Liner □ Conv. to GSW □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commission Powert #1	Chloride content:ppm Fluid volume: bbls
☐ Commingled Permit #: ☐ Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	•
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
Recompletion Date Recompletion Date	Countv: Permit #:

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I I II Approved by: Date:

KOLAR Document ID: 1457882

Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Jaspar Co.
Well Name	STATES 1
Doc ID	1457882

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	237	80/20	150	3%CC, 2% GEL, 500# HULLS
Surface	12.25	8.625	23	237	60/40	150	4%CC,2% GEL, 800# HULLS
Production	7.875	5.5	15.5	3600	COMMON	150	10% SALT, 5% GIL
Production	7.875	5.5	15.5	3600	QMDC	430	80/20
Surface	12.25	8.625	23	237	COMMON	40	500# hulls

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

Phone 785-483-2025 Cell 785-324-1041

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

No. 1204

Sec.	Twp. Range	Cou	inty	State		On Location	1 _	Finish
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Lease 5-tates	Well No.		wner	• . •		.,		<u> </u>
Contractor WW #8				well Cementin		entina equipi	ment and f	urnish
Type Job Swace		се	menter and	helper to ass	sist owner	or contractor	to do work	as listed.
Hole Size 12/4	T.D. 23>		harge	Saspar	Oil)		
Csg. 859	Depth 236	St	reet			•	. •	*
Tbg. Size	Depth	Ci	ty	î	S	tate		
Tool	Depth	Th	ne above was	done to satisfa	action and s	upervision of o	wner agent	or contractor.
Cement Left in Csg.	Shoe Joint	C	ement Amo	unt Ordered	50 8%	10 3/4	21.0	22
Meas Line	Displace 14BL	. 1	50094	10 44-66	- 24-61	40	WH #O	15
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Pumptrk Helper	<u> </u>	Po	oz. Mix	<u>)</u>				
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Bulktrk 9 No. Driver Driver	W .	c	alcium /	}	<i></i>		· · · · · ·	26 (2) .
JOB SERVICES	& REMARKS	H	ulls 🐉	0#/	16)			
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Mouse Hole		K	ol-Seal					The Bode Ma
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D/V or Port Collar	***	S	and				• 7 • •	
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Signature / Aff	ond	* ** *	er for the second			Total Cha	arge	* · · · · · · · · · · · · · · · · · · ·

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.
- -ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.
- PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.
- TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.
- PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.
- DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.
- SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or turnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.
- 2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well-or damaged when performing or attempting to perform the job or, in the case of marine operations are lost or damaged at any time after delivery to the tanding for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.
- 3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.
- WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
 - 2. More specifically:
- (A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
- (B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

LWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107 **QUALITY OILWEL**

Phone 785-483-2025 Cell 785-324-1041

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

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- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.
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- WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
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Scale 1:240 Imperial

Well Name: STATES #1

Surface Location: NW SW NE NW Sec. 12 - 7S - 20W

Bottom Location:

API: 15-163-24379

License Number: 34903

Spud Date: 1/11/2019 Time: 5:00 PM

Region: **ROOKS COUNTY**

Drilling Completed: 1/17/2019 12:00 AM Time:

Surface Coordinates: 890' FNL & 1545' FWL

Bottom Hole Coordinates:

Ground Elevation: 2098.00ft K.B. Elevation: 2103.00ft

Logged Interval: 2800.00ft To: 3605.00ft

Total Depth: 3605.00ft

Formation: LANSING - KANSAS CITY; ARBUCKLE **Drilling Fluid Type:** FRESH WATER / CHEMICAL GEL

OPERATOR

JASPAR CO Company: Address: P.O. BOX 1120 HAYS, KS 67601

Contact Geologist: SHANE VEHIGE Contact Phone Nbr: (785) 23-6982

Well Name: STATES #1

> NW SW NE NW Sec. 12 - 7S - 20W Location:

API: 15-163-24379

Pool: Field: WILDCAT State: **KANSAS** Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical Longitude: -99.5038996 Latitude: 39.4639735 N/S Co-ord: 890' FNL E/W Co-ord: 1545' FWL

LOGGED BY



BIG CREEK CONSULTING, INC. Company:

Address: 1909 MAPLE

FILIS KS 67637

LLLIO, 110 07 0

Phone Nbr: (785) 259-3737

Logged By: GEOLOGIST Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC

Rig #: 8

Rig Type: MUD ROTARY

 Spud Date:
 1/11/2019
 Time:
 5:00 PM

 TD Date:
 1/17/2019
 Time:
 12:00 AM

 Rig Release:
 1/19/2019
 Time:
 12:00 PM

ELEVATIONS

K.B. Elevation: 2103.00ft Ground Elevation: 2098.00ft

K.B. to Ground: 5.00ft

NOTES

DUE TO ECONOMICAL DST RECOVERY DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING AND FURTHER EVALUATE ZONES OF INTEREST UPON COMPLETION.

RESPECTFULLY SUBMITTED, JEFF LAWLER

						WELL	CC	ΟM	IP/	٩RI	SON	I SHI	EΕ	T													
						•							Ħ					Д							•		
					В	RINKER ENTE	RPRIS	ES LL	С		- 1	MURFIN D	RILLI	NG CC	o.		BRI	NKER ENTE	RPRIS	ES LL	С			BACH	OIL PR	OD.	
						STICE #	12-1					TIMMC	NS#	16-1		- 2	î	RIFFE #	1-1					SAMI	VIONS	#1	
		STAT	ES #1			NESE NW N	E 12-7	7-20		j.		SW SE	SE 1-	7-20				SW NE SE S	N 1-7	-20				NE SE SW	/ SE 1:	l-7-20	K.
	KB	2103	GL	2098	KB		209	5			KB		2:	16			KB		21	33			KB		21	16	
9	LOG	TOPS	SAMPL	ETOPS	L	OG	LC	G	SM	IPL.	COMP	.CARD	LC	OG	SM	L.	LO	GS	L	OG	SM	IPL.	COM	P. CARD	LC)G	SMPL.
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CO	RR.	co	RR.	DEPTH	DATUM	co	RR.	CO	RR.	DEPTH	DATUM	CC	RR.	co	RR.	DEPTH	DATUM	co	RR.	CORR.
ANHYDRITE TOP	1665	438	1667	436	1651	444	1070	6	-	8	1687	429	+	9	+	7	1689	444	-	6	-	8	1666	450		12	- 14
BASE	1697	406	1699	404	1683	412	3.53	6	-	8	1728	388	+	18	+	16	1723	410	100	4	9	6	1701	415	1,700	9	- 11
TOPEKA	3082	-979	3082	-979	3072	-977	-	2	-	2	3085	-969	-	10	-	10	3111	-978	-	1	1	1	3083	-967	-	12	- 12
HEEBNER SHALE	3280	-1177	3282	-1179	3269	-1174	-	3	+	5	3307	-1191	*	14	+	12	3311	-1178	+	1	-	1	3284	-1168	(*)	9	- 11
TORONTO	3304	-1201	3307	-1204	3291	-1196	-	5	-	8	3333	-1217	+	16	+	13	3333	-1200	-	1	0	4	3308	-1192	-	9	- 12
LKC	3320	-1217	3324	-1221	3309	-1214	-	3	-	7	3348	-1232	+	15	+	11	3350	-1217	+	0	-	4	3322	-1206	[2]	11	- 15
BKC	3529	-1426	3531	-1428	3519	-1424	14.00	2	-	4	3552	-1436	+	10	+	8	3559	-1426	+	0		2	3532	-1416	-	10	- 12
ARBUCKLE	3570	-1467	3568	-1465	3558	-1463		4	-	2	3598	-1482	+	15	+	17	3602	-1469	+	2	+	4	3571	-1455	1.00	12	- 10
REAGAN SAND																							3629	-1513			
TOTAL DEPTH	3603	-1500	3605	-1502	3652	-1557	+	57	+	55	3680	-1564	+	64	+	62	3700	-1567	+	67	+	65	3651	-1535	+	35	+ 38

DST #1 ARBUCKLE 3559' - 3579'

1/16/2010 RITTORO

Company: Jaspar Company

Lease: States #1

SEC: 12 TWN: 7S RNG: 20W

County: ROOKS State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2100 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 303

Operation:
Uploading recovery &
pressures

DATE

January

16

2019

DST #1 Formation: Arbuckle Test Interval: 3559 - Total Depth: 3579'

Time On: 10:02 01/16 Time Off: 16:34 01/16
Time On Bottom: 12:15 01/16 Time Off Bottom: 14:45 01/16

Recovered

 Foot
 BBLS
 Description of Fluid
 Gas %
 Oil %
 Water %
 Mud %

 30
 0.1476
 OCM
 0
 23
 0
 77

Total Recovered: 30 ft

Total Barrels Recovered: 0.1476

Reversed Out

Recovery at a glance

Initial Hydrostatic Pressure 1737 PSI

Initial Flow 23 to 24 PSI

麗 0.05

0.1

L 21 Final Flow Pressure 26 to 28 PSI **Final Closed in Pressure** 933 PSI Recovery **PSI** Final Hydrostatic Pressure 1713 Temperature 103 °F Gas OIL Water Mud 77% 0% 23% 0% Pressure Change Initial 4.7 GIP cubic foot volume: 0 Close / Final Close

http://www.diamonddst.com/queue/view/776/?print=1

2/6

DST #1 ARBUCKLE 3559' - 3579'



Company: Jaspar Company Lease: States #1

Operation: Uploading recovery & pressures

SEC: 12 TWN: 7S RNG: 20W

County: ROOKS State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2100 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 303

DATE January 16 2019

Formation: Arbuckle

Test Interval: 3559 -Total Depth: 3579' 3579"

Time On: 10:02 01/16 Time Off: 16:34 01/16 Time On Bottom: 12:15 01/16 Time Off Bottom: 14:45 01/16

Electronic Volume Estimate: 90'

1500

1st Open Minutes: 30 Current Reading: 2.2" at 30 min Max Reading: 2.2"

DST #1

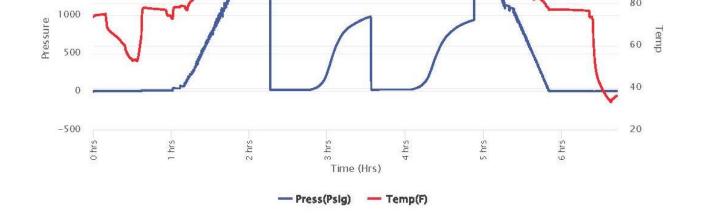
1st Close Minutes: 45 **Current Reading:** .1" at 45 min Max Reading: .1"

2nd Open Minutes: 30 Current Reading: 1" at 30 min Max Reading: 1"

2nd Close Minutes: 45 Current Reading: 0" at 45 min Max Reading: .1"

100

Inside Recorder



http 1/6

DST #2 ARBUCKLE 3580' - 3605'



Company: Jaspar Company Lease: States #1

Operation: Uploading recovery & pressures SEC: 12 TWN: 7S RNG: 20W

County: ROOKS State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2100 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 303

<u>DATE</u> January **16** 2019 DST #2 Formation: Arbuckle Test Interval: 3580 - Total Depth: 3605'

Time On: 22:50 01/16 Time Off: 06:36 01/17
Time On Bottom: 01:12 01/17 Time Off Bottom: 04:42 01/17

Recovered

Gas % Description of Fluid Oil % Water % Mud % Foot **BBLS** 85 0.6987103 SLGCO 10 90 0 0 62 0.30504 SLWCHOCM 5 65

Total Recovered: 147 ft

Total Barrels Recovered: 1.0037503

Reversed Out NO Recovery at a glance

Initial Hydrostatic Pressure 1722 PSI
Initial Flow 23 to 54 PSI
Initial Closed in Pressure 975 PSI

0.5 BBI

Fillal Flow Flessule JO 10 / 2 r OI 0 **Final Closed in Pressure** 884 PSI Recovery Final Hydrostatic Pressure 1720 PSI 103 °F Temperature Gas OII Water Mud 6.96% 71.77% 1.52% 19.75% Pressure Change Initial 9.4 % GIP cubic foot volume: 0.39229 Close / Final Close

DST #2 ARBUCKLE 3580' - 3605'



Company: Jaspar Company

Operation: Uploading recovery & pressures

Lease: States #1

Elevation: 2100 EGL Field Name: Wildcat

Rig 8

County: ROOKS State: Kansas

Pool: WILDCAT Job Number: 303

SEC: 12 TWN: 7S RNG: 20W

Drilling Contractor: WW Drilling, LLC -

DATE January 16 2019

Test Interval: 3580 -**DST #2** Formation: Arbuckle Total Depth: 3605' 3605

> Time Off: 06:36 01/17 Time On: 22:50 01/16

Time On Bottom: 01:12 01/17 Time Off Bottom: 04:42 01/17

Electronic Volume Estimate: 216'

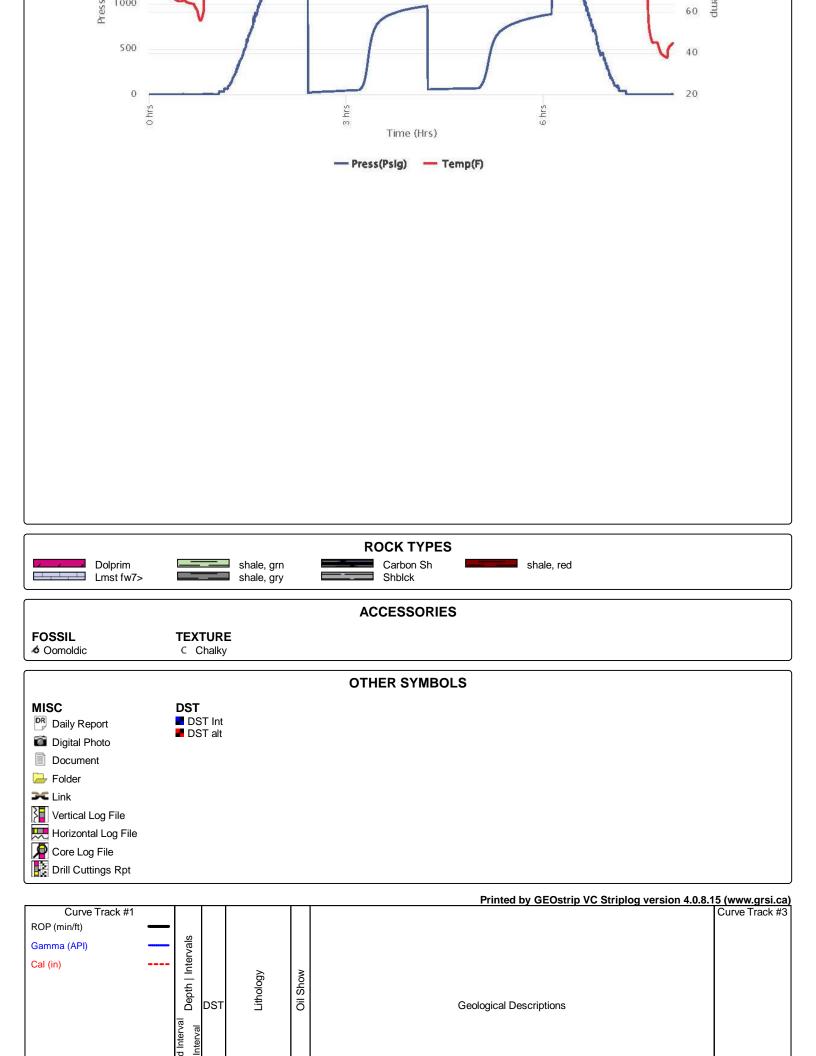
1st Open Minutes: 45 Current Reading: 6.7" at 45 min Max Reading: 6.7"

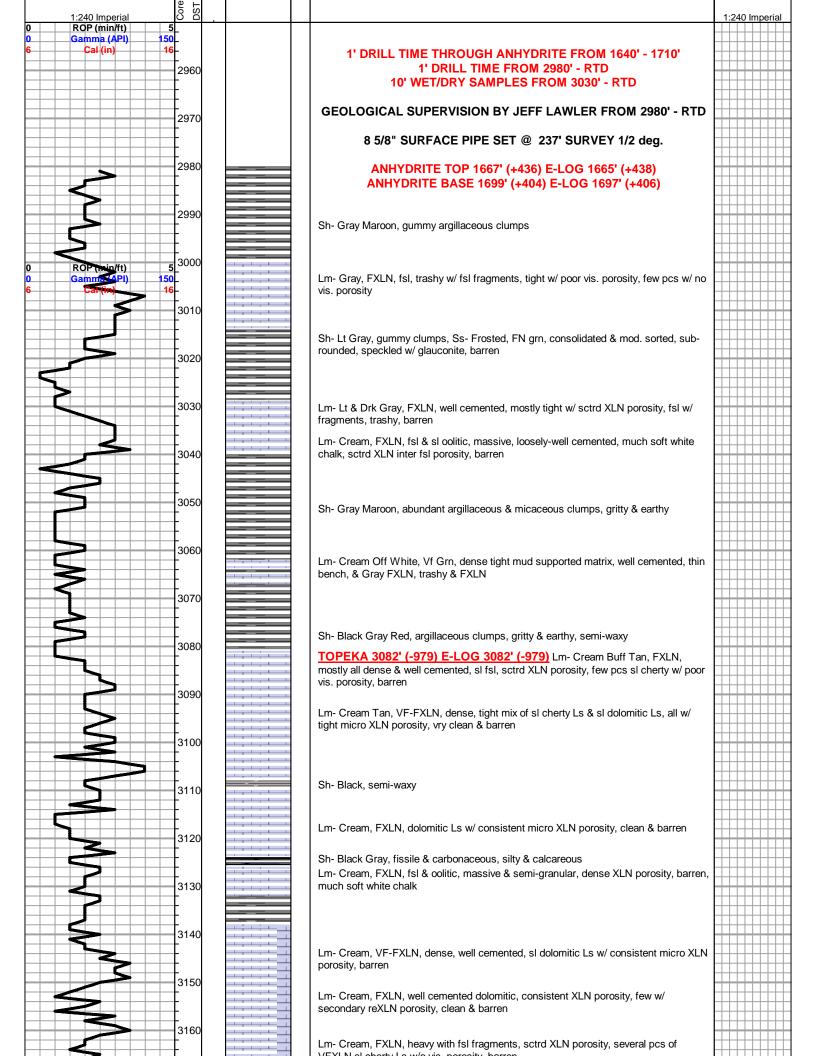
1st Close Minutes: 60 **Current Reading:** .1" at 60 min Max Reading: .1"

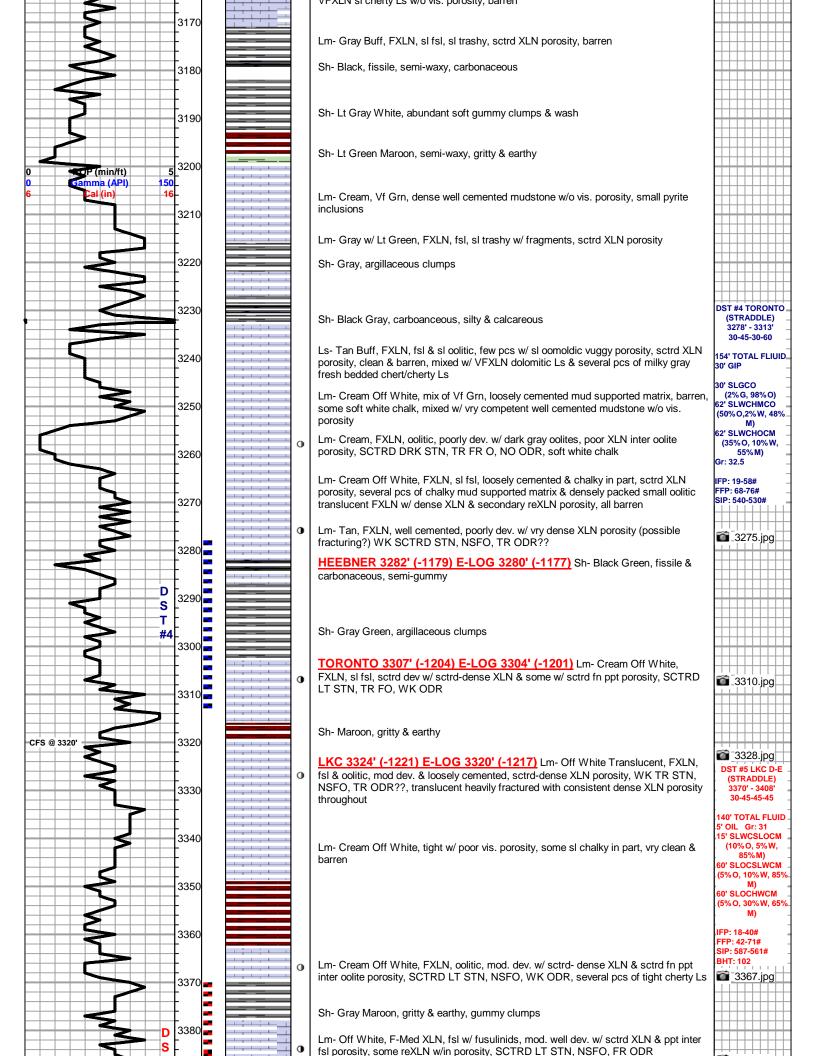
2nd Open Minutes: 45 Current Reading: 7.9" at 45 min Max Reading: 7.9"

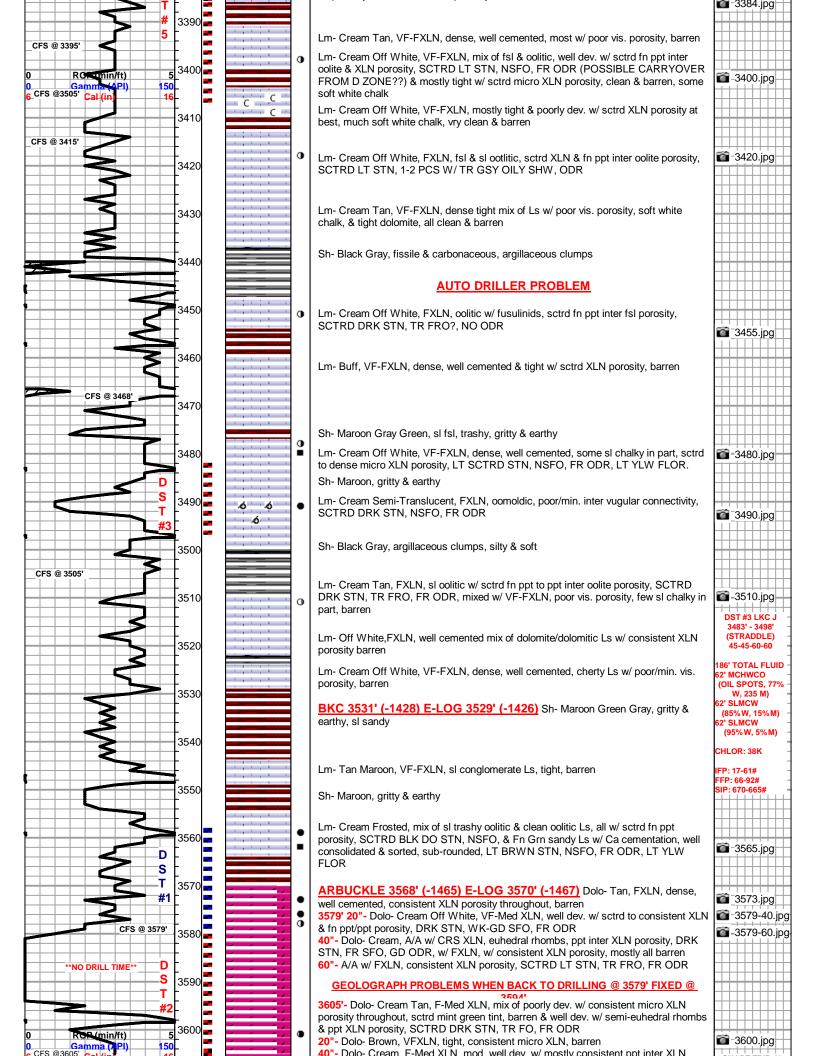
2nd Close Minutes: 60 Current Reading: .5" at 60 min Max Reading: .5"

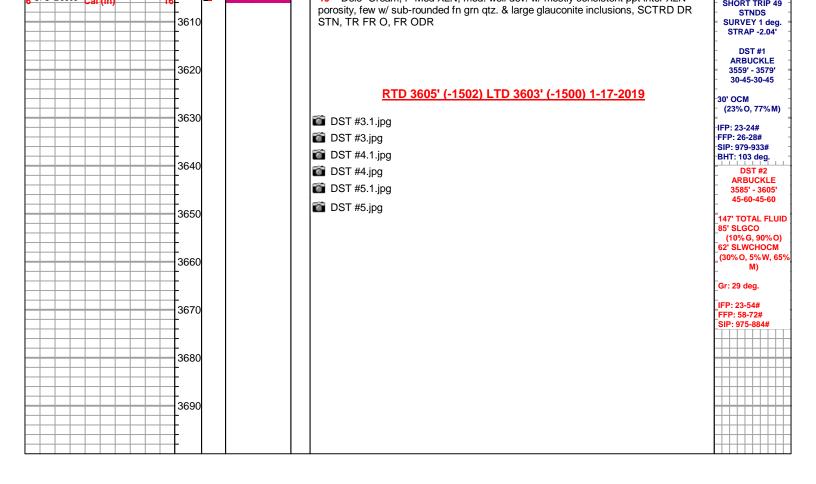




















3367'



3384'



3420.jpg





3455'









3573.jpg













DST #3.1.jpg



Company: Jaspar Company Lease: States #1

Operation:

SEC: 12 TWN: 7S RNG: 20W County: ROOKS State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 8 Elevation: 2100 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 303

Gas OII Water Mud 0% 0% 82.43% 17.57%

DATE	
January	
17	
2019	

Pressure Change Initial Close / Final Close

0.6

DST #3	Formation: LKC "J"	Test Interval: 3483 - 3498'	Total Depth: 3605
Tin	ne On: 15:28 01/17	Time Off: 22:29 01/17	
-	- O . D . W 40 FF 04/47	T 000 0-11 00 00	04147

2019			lottom: 16:55		Bottom: 20:25		
Reco	vered						
Foot	BBLS	Description	of Fluid	Gas %	Oil %	Water %	Mud %
62	0.88226	MCHW	co	0	spots	77	23
62	0.3714203	SLMC	W	0	0	85	15
62	0.30504	SLMC	W	0	0	95	5
otal Barrels	Recovered:	1.5587203	Reversed Out NO			12	
otal Barrels	Recovered:	1.5587203	NO NO	1			
	Recovered:	1.5587203	NO PSI	,		2	
			2000 C	188		2	
Initial Hydros	tatic Pressure	1717	PSI	1 ————————————————————————————————————			
Initial Hydros	tatic Pressure Initial Flow	1717 17 to 61	PSI PSI	0.5			
Initial Hydrosi Initial Closed Final F	tatic Pressure Initial Flow d in Pressure	1717 17 to 61 670	PSI PSI PSI			Becove	
Initial Hydros Initial Closed Final F	tatic Pressure Initial Flow d in Pressure Flow Pressure	1717 17 to 61 670 66 to 92	PSI PSI PSI	0.5		Recove	ery

GIP cubic foot volume: 0

DST #3.jpg

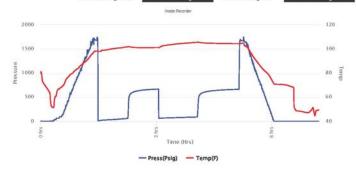


Company: Jaspar Company Lease: States #1

Operation: Uploading recovery & pressures SEC: 12 TWN: 7S RNG: 20W County: ROOKS State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 8 Elevation: 2100 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 303

DATE January 17 DST #3 Formation: LKC "J" Test Interval: 3483 - Total Depth: 3605' 3498'

Electronic Volume Estimate: 157' 1st Open Minutes: 45 Current Reading: 3.75" at 45 min Max Reading: 3.75" 1st Close Minutes: 45 Current Reading: 0" at 45 min Max Reading: 0" 2nd Open Minutes: 60 Current Reading: 5.1" at 60 min Max Reading: 5.1" 2nd Close Minutes: 60 Current Reading: 0" at 60 min



DST #4.1.jpg



Company: Jaspar Company Lease: States #1

Lease. States #1

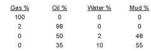
SEC: 12 TWN: 7S RNG: 20W County: ROOKS State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 8 Elevation: 2100 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 303

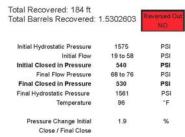
	Operation:
U	ploading recovery &
	pressures
_	78

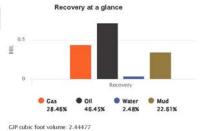
_		_
	DATE	
l	January	
	18	
l	2019	

DST #4	Formation: Toronto	Test Interval: 3278 - 3313'	Total Depth: 3605
Т	ime On: 02:42 01/18	Time Off: 09:21 01/18	
Т	ime On Bottom: 04:49 01/18	Time Off Bottom: 07:34	01/18

1464	Overed	
Foot	BBLS	Description of Fluid
30	0.4269	G
30	0.4269	SLGCO
62	0.3714203	SLWCHMCO
62	0.30504	SLWCHOCM







DST #4.jpg

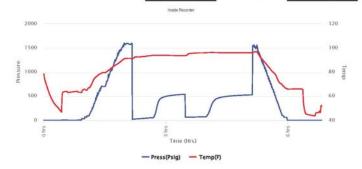


Company: Jaspar Company Lease: States #1

Operation: Uploading recovery & pressures SEC: 12 TWN: 7S RNG: 20W County: ROOKS State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 8 Elevation: 2100 EGL Field Name: Wildcat Pool: WLIDCAT Job Number: 303

DATE January 18 DST #4 Formation: Toronto Test Interval: 3278 - Total Depth: 3605'

Electronic Volume Estimate: 199' 1st Open Minutes: 30 Current Reading: 7" at 30 min Max Reading: 7" 1st Close Minutes: 45 Current Reading: ,1" at 45 min Max Reading: ,1" 2nd Open Minutes: 30 Current Reading: 6.9" at 30 min Max Reading: 6.9" 2nd Close Minutes: 60 Current Reading: .5" at 60 min



DST #5.1.jpg



Company: Jaspar Company Lease: States #1

Operation:

SEC: 12 TWN: 7S RNG: 20W County: ROOKS State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 8 Elevation: 2100 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 303

DATE	
January	
18	
2019	

60

7	DST #5	Formation: LKC "D- E"	Test Interval: 3370 - 3408'	Total Depth: 360
П	Tir	me On: 10:02 01/18	Time Off: 17:40 01/18	
1	Tir	ne On Bottom: 12:15 01/18	Time Off Bottom: 15:00	01/18

Recovered			
Foot	BBLS	Description of Fluid	
5	0.07115	0	
15	0.21345	SLWCSLOCM	
60	0.3243403	SLOCSLWCM	

0.2952

Gas %	Oil %	Water %	Mud 9
0	100	0	0
0	10	5	85
0	5	10	85
0	5	30	65

Recovery at a glance

Total Recovered: 140 ft Total Barrels Recovered: 0.9041403 Initial Hydrostatic Pressure PSI PSI 1600 18 to 40 Initial Flow PSI PSI Initial Closed in Pressure 587 42 to 71 561 Final Flow Pressure Final Closed in Pressure PSI °F Final Hydrostatic Pressure 1587 Temperature 102

0.5 BBL ● Gas ● OII 0% 13.66% Water
 Mud
 14.56%
 71.78%

Pressure Change Initial GIP cubic foot volume: 0 Close / Final Close

SLOCHWCM

DST #5.jpg



Company: Jaspar Company Lease: States #1

Operation: Uploading recovery & pressures SEC: 12 TWN: 7S RNG: 20W County: ROOKS State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 8 Elevation: 2100 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 303

DATE January 18 DST #5 Formation: LKC "D- Test Interval: 3370 - Total Depth: 3605' 3408'

Time On; 10:02 01/18 Time Off: 17:40 01/18 Time On Bottom: 12:15 01/18 Time Off Bottom: 15:00 01/18

Electronic Volume Estimate: 139' 1st Open Minutes: 30 Current Reading: 3.7" at 30 min Max Reading: 3.7" 1st Close Minutes: 45 Current Reading: 0* at 45 min Max Reading: 0* 2nd Open Minutes: 45 Current Reading: 3.5" at 45 min Max Reading: 3.5" 2nd Close Minutes: 45 Current Reading: 0" at 45 min Max Reading: 0"

