KOLAR Document ID: 1391598

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:	SecTwpS. R East _ West
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	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
,	If Alternate II completion, cement circulated from:
Operator:	feet depth to:w/sx cmt.
Well Name:	leet depth to w/ Sx chit.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Plug Back Liner Conv. to GSW Conv. to Producer	
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Occupation Name
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. 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 Drill Stem Tests Received				
Geologist Report / Mud Logs Received				
UIC Distribution				
ALT I II III Approved by: Date:				

KOLAR Document ID: 1391598

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	d Type and 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	IA Operating, Inc.
Well Name	SAWYER #15-1
Doc ID	1391598

All Electric Logs Run

CDN	
DIL	
MICRO	
SONIC	

Form	ACO1 - Well Completion
Operator	IA Operating, Inc.
Well Name	SAWYER #15-1
Doc ID	1391598

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Conductor	17.75	13.375	48	212	80/20 Poz	2% gel, 3% CC
Surface	12.25	8.625	23	602	80/20 Poz	2% gel, 3% CC



Lease: Sawyer #15-1

SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

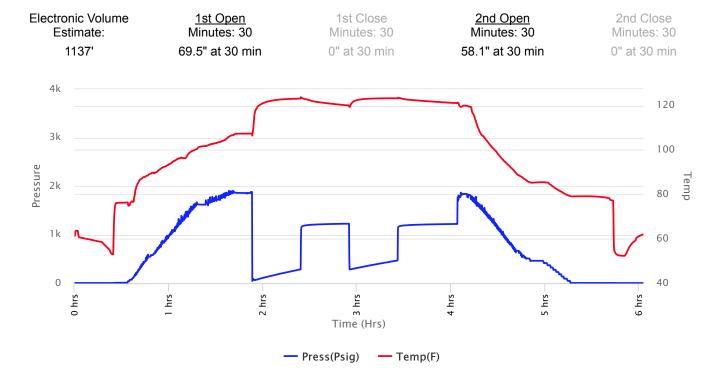
Pool: Ext

Job Number: 108

DATE February 08 2018 DST #1 Formation: VIOLA Test Interval: 3740 - Total Depth: 3759'

Time On: 08:25 02/08 Time Off: 14:22 02/08

Time On Bottom: 10:15 02/08 Time Off Bottom: 12:15 02/08





SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1480 GL

Field Name: Groveland South Pool: Ext

Job Number: 108

DATE	
February	
80	
2018	

DST #1 Formation: VIOLA Test Interval: 3740 -Total Depth: 3759' 3759'

Time On: 08:25 02/08 Time Off: 14:22 02/08

Time On Bottom: 10:15 02/08 Time Off Bottom: 12:15 02/08

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	Gas %	Oil %	Water %	<u>Mud %</u>
428	6.09044	SLOCSLMCW	0	2	80	18
800	11.384	SLOCSLMCW	0	1	96	3

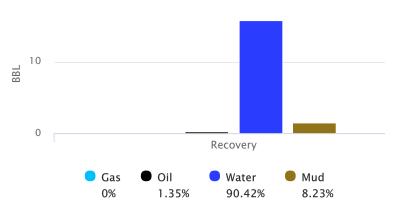
Total Recovered: 1228 ft

Total Barrels Recovered: 17.47444

Reversed Out
NO

Initial Hydrostatic Pressure	1859	PSI
Initial Flow	43 to 283	PSI
Initial Closed in Pressure	1226	PSI
Final Flow Pressure	282 to 480	PSI
Final Closed in Pressure	1221	PSI
Final Hydrostatic Pressure	1834	PSI
Temperature	124	°F
Pressure Change Initial	0.5	%
Close / Final Close		

Recovery at a glance





SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE February 80 2018

DST #1 Formation: VIOLA

Test Interval: 3740 -

Total Depth: 3759'

3759'

Time On: 08:25 02/08 Time Off: 14:22 02/08

Time On Bottom: 10:15 02/08 Time Off Bottom: 12:15 02/08

REMARKS:

TOOL SAMPLE:8% OIL 90% WATER 2% MUD

IFP:3/4"BLOW-INCREASING TO BOB IN 4 MINUTES 35 SECONDS ISIP:NO BLOW BACK FFP:1/4"BLOW-INCREASING TO BOB IN 6 MINUTES 5 SECONDS

Ph: 7

RW: .56 @ 60 degrees F

FSIP:NO BLOW BACK

Chlorides: 16000 ppm



SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE February 08 2018 DST #1 Formation: VIOLA

Test Interval: 3740 -

Total Depth: 3759'

3759'

Time On: 08:25 02/08

Time Off: 14:22 02/08

Time On Bottom: 10:15 02/08 Time Off Bottom: 12:15 02/08

Down Hole Makeup

Heads Up: 34.77 FT

Packer 1: 3734.5 FT

Drill Pipe: 3741.7 FT

Packer 2: 3740 FT

5/8"

ID-3 1/2

Top Recorder: 3723.92 FT

Weight Pipe: FT

Bottom Recorder: 3742 FT

ID-2 7/8

... .. _ _ _ _

Collars: FT

Well Bore Size: 7 7/8

ID-2 1/4

Surface Choke: 1"

Test Tool: 34.07 FT

Carrage Cricker

Bottom Choke:

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 19

19

Anchor Makeup
Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 18 FT

4 1/2-FH



, Inc. SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE February 08 2018 DST #1 Formation: VIOLA

Test Interval: 3740 -

Total Depth: 3759'

3759'

Time On: 08:25 02/08 Time Off: 14:22 02/08

Time On Bottom: 10:15 02/08 Time Off Bottom: 12:15 02/08

Mud Properties

Mud Type: CHEMICAL Weight: 9.6 Viscosity: 48 Filtrate: 8.8 Chlorides: 1300 ppm



Lease: Sawyer #15-1

SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE February 08 2018 DST #1 Formation: VIOLA

Test Interval: 3740 -

Total Depth: 3759'

3759'

Time On: 08:25 02/08 Time Off: 14:22 02/08

Time On Bottom: 10:15 02/08 Time Off Bottom: 12:15 02/08

Gas Volume Report

1st Open 2nd Open

Time Orifice PSI MCF/D	Time	Orifice PSI	MCF/D
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Lease: Sawyer #15-1

SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE February 80 2018

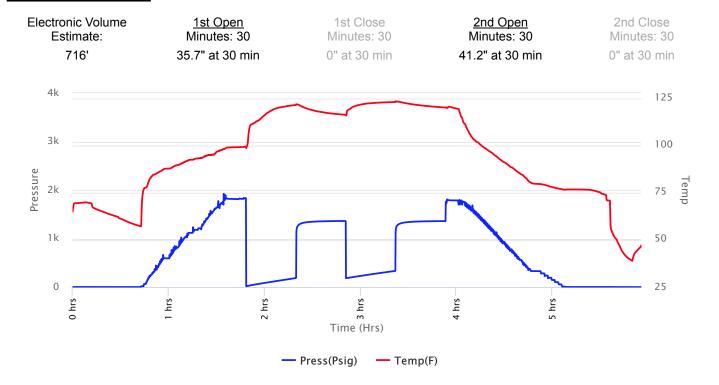
DST #2 Formation: **SIMPSON SAND**

Test Interval: 3775 -3792'

Total Depth: 3792'

Time On: 22:50 02/08 Time Off: 04:35 02/09

Time On Bottom: 00:32 02/09 Time Off Bottom: 02:32 02/09





Lease: Sawyer #15-1

SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1480 GL Field Name: Groveland South

Job Number: 108

Pool: Ext

DATE February 80 2018

DST #2 Formation: SIMPSON SAND Test Interval: 3775 -

Total Depth: 3792'

3792'

Time On: 22:50 02/08

Time Off: 04:35 02/09

Time On Bottom: 00:32 02/09 Time Off Bottom: 02:32 02/09

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid
210	2.9883	HMCW
100	1.423	SLMCW
440	6.2612	SLMCW

<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
0	0	65	35
0	0	84	16
0	0	96	4

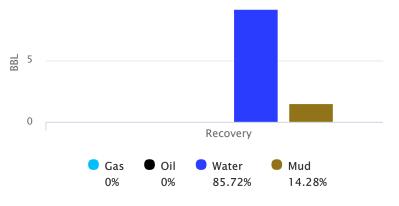
Total Recovered: 750 ft

Total Barrels Recovered: 10.6725

Reversed Out
NO

		NO
Initial Hydrostatic Pressure	1821	PSI
Initial Flow	19 to 187	PSI
Initial Closed in Pressure	1358	PSI
Final Flow Pressure	185 to 335	PSI
Final Closed in Pressure	1360	PSI
Final Hydrostatic Pressure	1790	PSI
Temperature	124	°F
Pressure Change Initial	0.0	%
Close / Final Close		

Recovery at a glance





SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE
February
08
2018

DST #2 Formation: SIMPSON SAND

Test Interval: 3775 - 3792'

Total Depth: 3792'

Time On: 22:50 02/08

Time Off: 04:35 02/09

Time On Bottom: 00:32 02/09 Time Off Bottom: 02:32 02/09

REMARKS:

TOOL SAMPLE:100% WATER

IFP:1/2"BLOW-INCREASING TO BOB IN 11 MINUTES

ISIP:NO BLOW BACK

FFP:1/4"BLOW-INCREASING TO BOB IN 9 MINUTES 15 SECONDS

FSIP:NO BLOW BACK

TRACE OF OIL IN TOP 210' OF RERCOVERY

Ph: 7

RW: .68 @ 50 degrees F

Chlorides: 12000 ppm



SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE February 80 2018

DST #2 Formation: SIMPSON SAND Test Interval: 3775 -

Total Depth: 3792'

3792'

Time On: 22:50 02/08 Time Off: 04:35 02/09

Time On Bottom: 00:32 02/09 Time Off Bottom: 02:32 02/09

Down Hole Makeup

26.61 FT **Heads Up:**

Packer 1: 3770 FT

Drill Pipe: 3773.37 FT Packer 2: 3775 FT

ID-3 1/2

Top Recorder: 3758.92 FT

Weight Pipe: FT **Bottom Recorder:** 3776 FT

ID-2 7/8

Collars: FT Well Bore Size: 7 7/8

ID-2 1/4

Surface Choke: 1"

Test Tool: 29.24 FT **Bottom Choke:** 5/8"

ID-3 1/2-FH Safety Joint

Total Anchor:

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 16 FT

4 1/2-FH



SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE February 80 2018

DST #2 Formation: **SIMPSON SAND** Test Interval: 3775 -

Total Depth: 3792'

3792'

Time On: 22:50 02/08 Time Off: 04:35 02/09

Time On Bottom: 00:32 02/09 Time Off Bottom: 02:32 02/09

Mud Properties

Mud Type: CHEMICAL Weight: 9.5 Viscosity: 54 Filtrate: 7.2 Chlorides: 1200 ppm



Lease: Sawyer #15-1

SEC: 15 TWN: 20S RNG: 4W County: MCPHERSON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 1480 GL

Field Name: Groveland South

Pool: Ext

Job Number: 108

DATE February 08 2018 DST #2 Formation: SIMPSON SAND

Test Interval: 3775 -

Total Depth: 3792'

3792'

Time On: 22:50 02/08 Time Off: 04:35 02/09

Time On Bottom: 00:32 02/09 Time Off Bottom: 02:32 02/09

Gas Volume Report

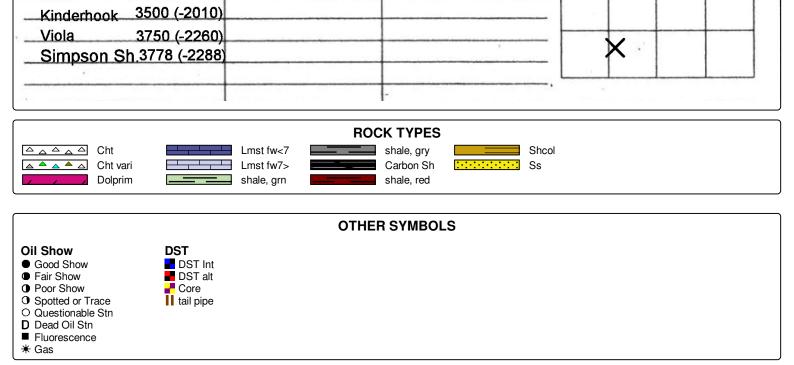
1st Open 2nd Open

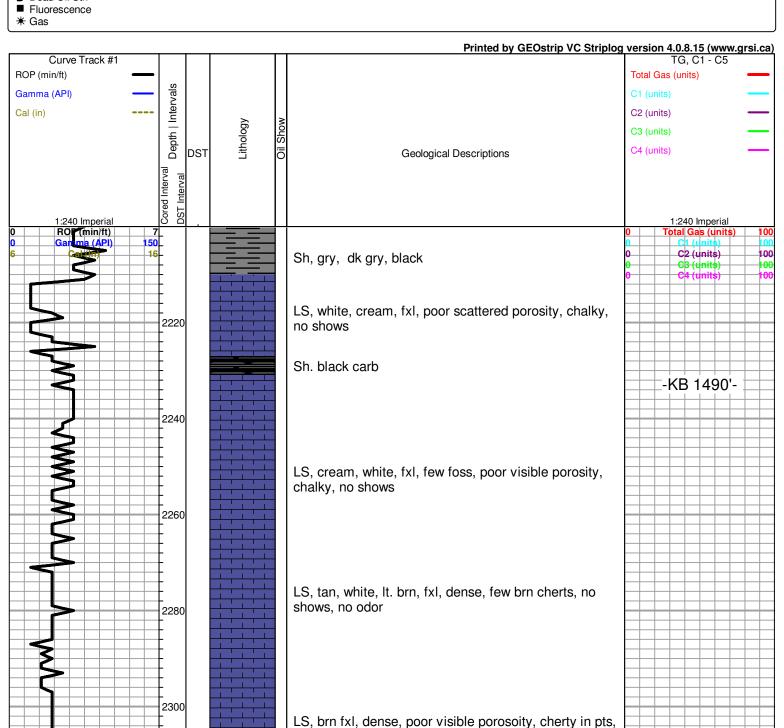
Time Orifice PSI MCF/D	Time	Orifice	PSI	MCF/D
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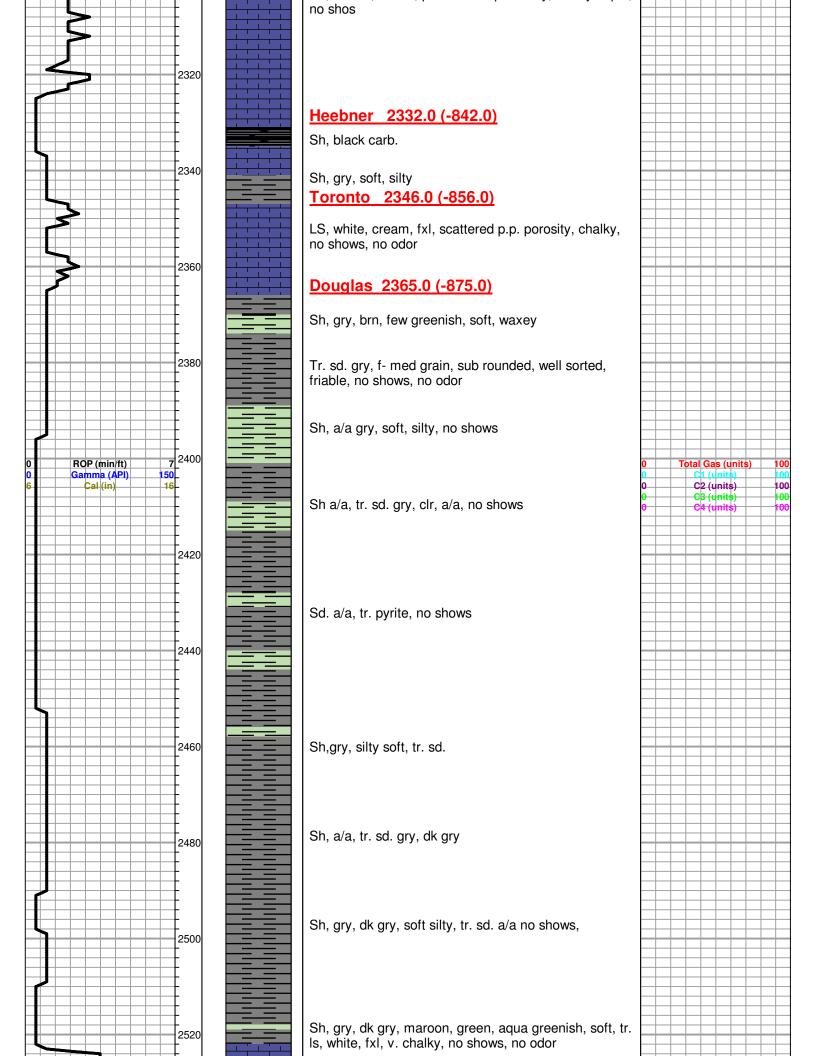


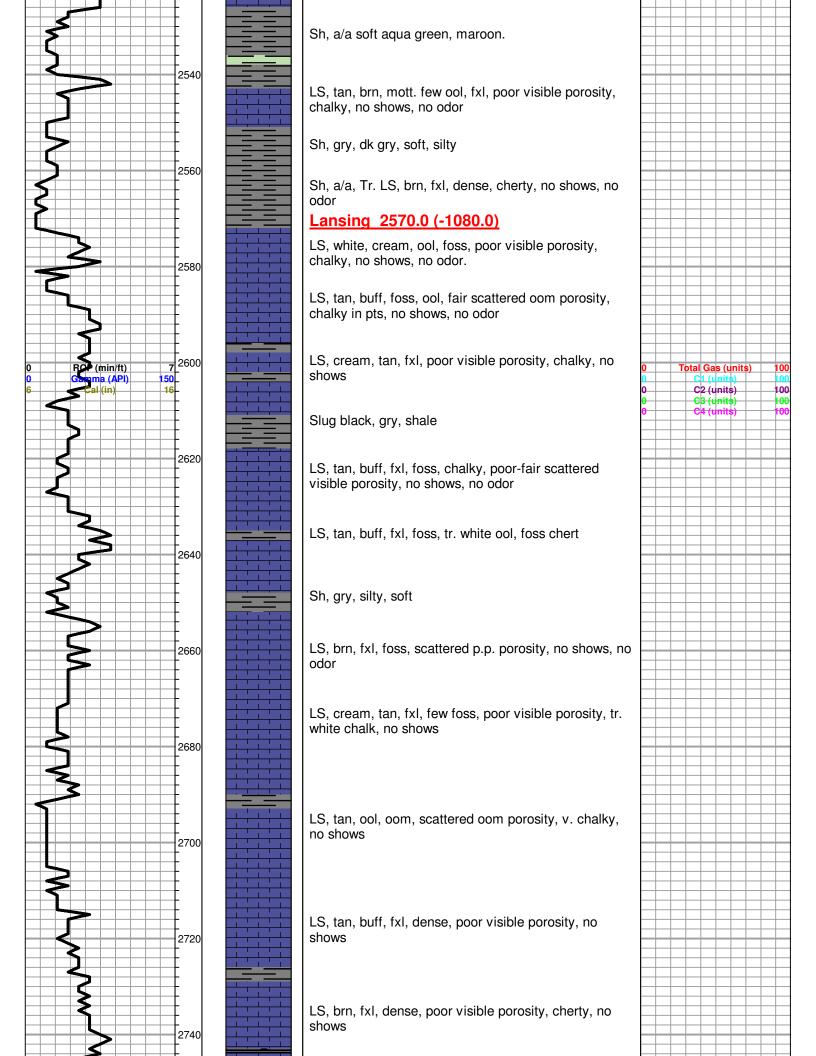
GEOLOGIST' REPORT

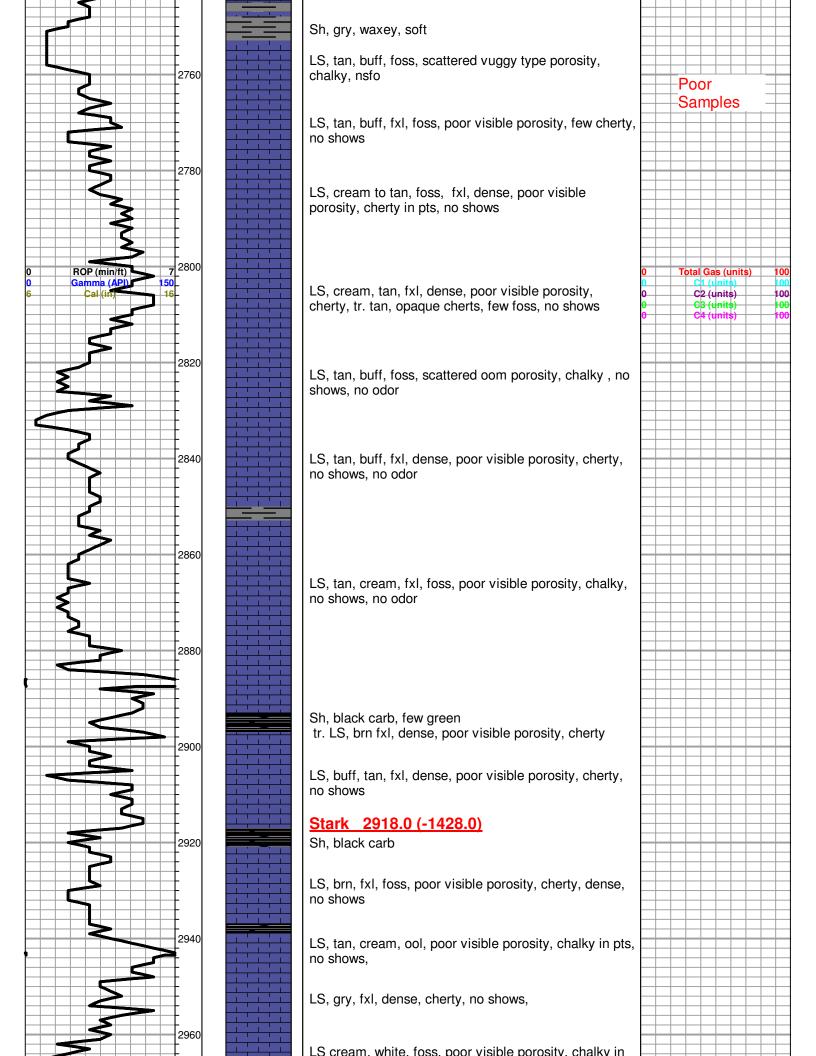
DRILLING TIME	AND SAMPLE	LUG			
COMPANY IA Operations, Inc.	ELEV	ATIONS			
LEASESawyer #15-1 FIELDGroveland South (Ext.) LOCATION _NW-SW-SE-SW (473' FSL &	KB_1490'				
SEC15TWSP20SRGE_ COUNTYMcPhersonSTATEKan	Measureme	ents Are All			
CONTRACTOR <u>Southwind Drilling</u> , Inc. SPUD <u>01/30/2018</u> COMP <u>02/09/202</u> RTD <u>3865'</u> LTD <u>3865'</u>	SING B''@ 602' None AL SURVEYS				
MUD UP_2100' TYPE MUD_Chemical MEL/SONIC					
SAMPLES SAVED FROM					
FORMATION TOPS LOG	SAMPLES	-			
Toronto 2354 (-864) Douglas 2371 (-881)	Simpson Sd 3786 (-22 Arbuckle 3854 (-23 RTD 3865 (-23 LTD 3865 (-23	364) 375)	15		

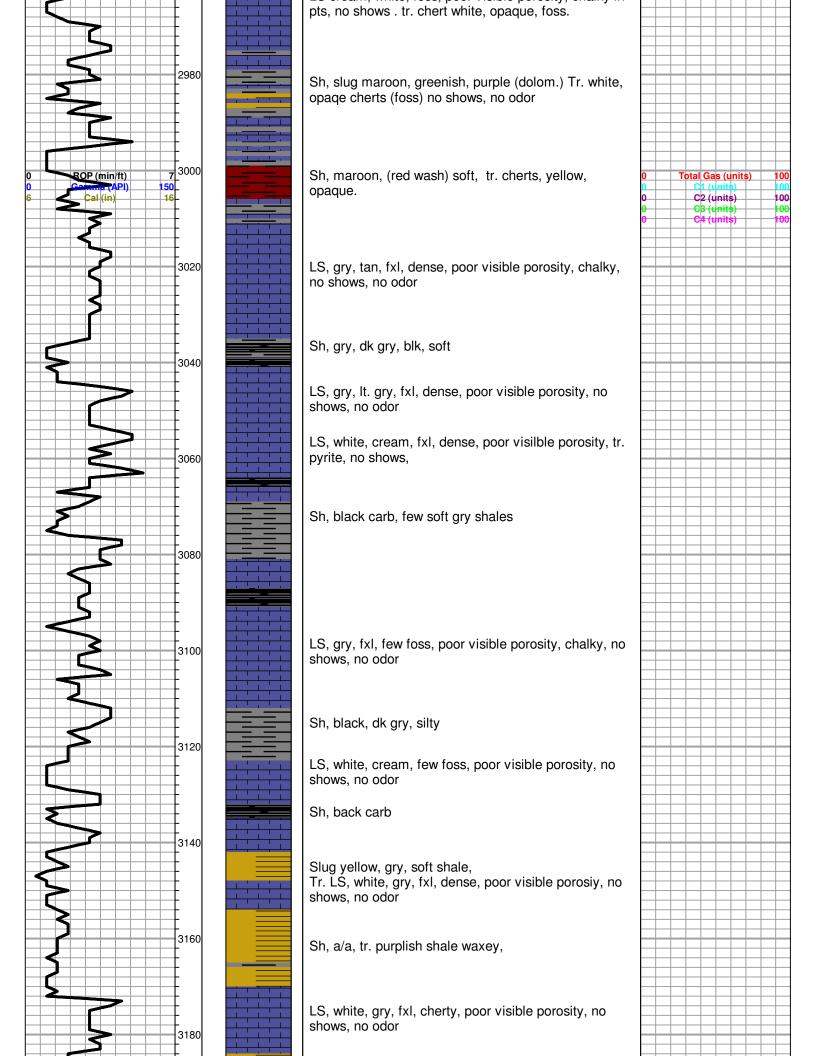


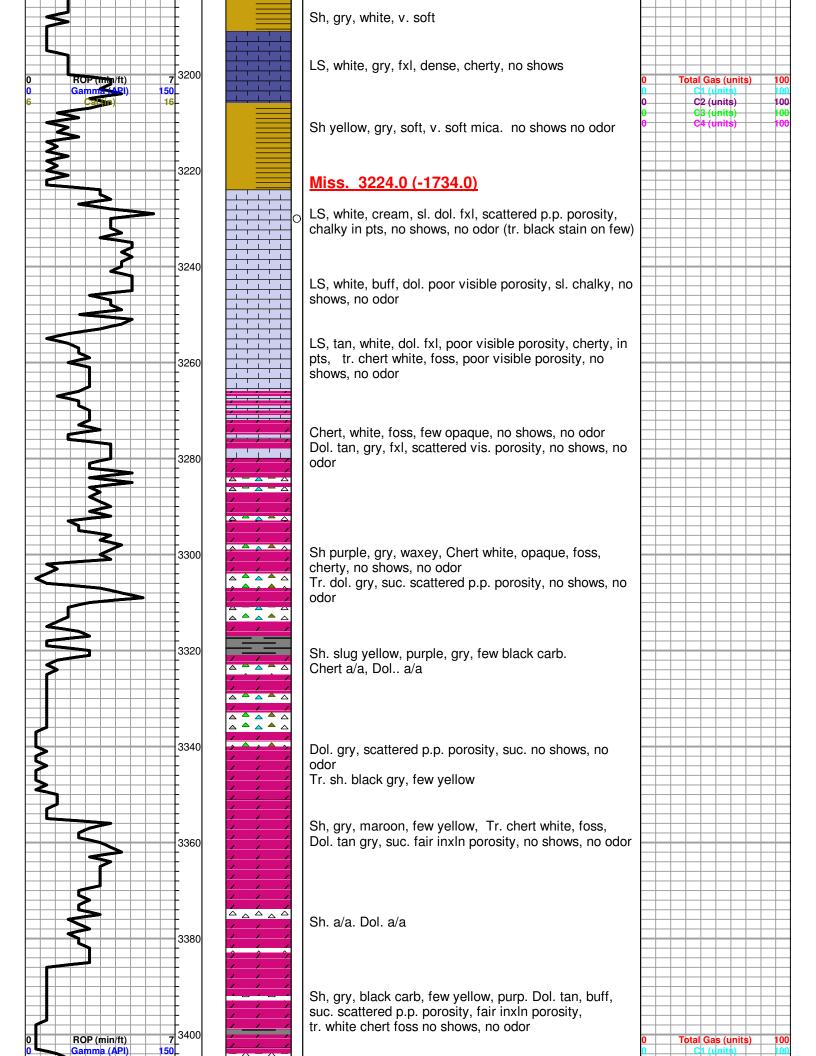


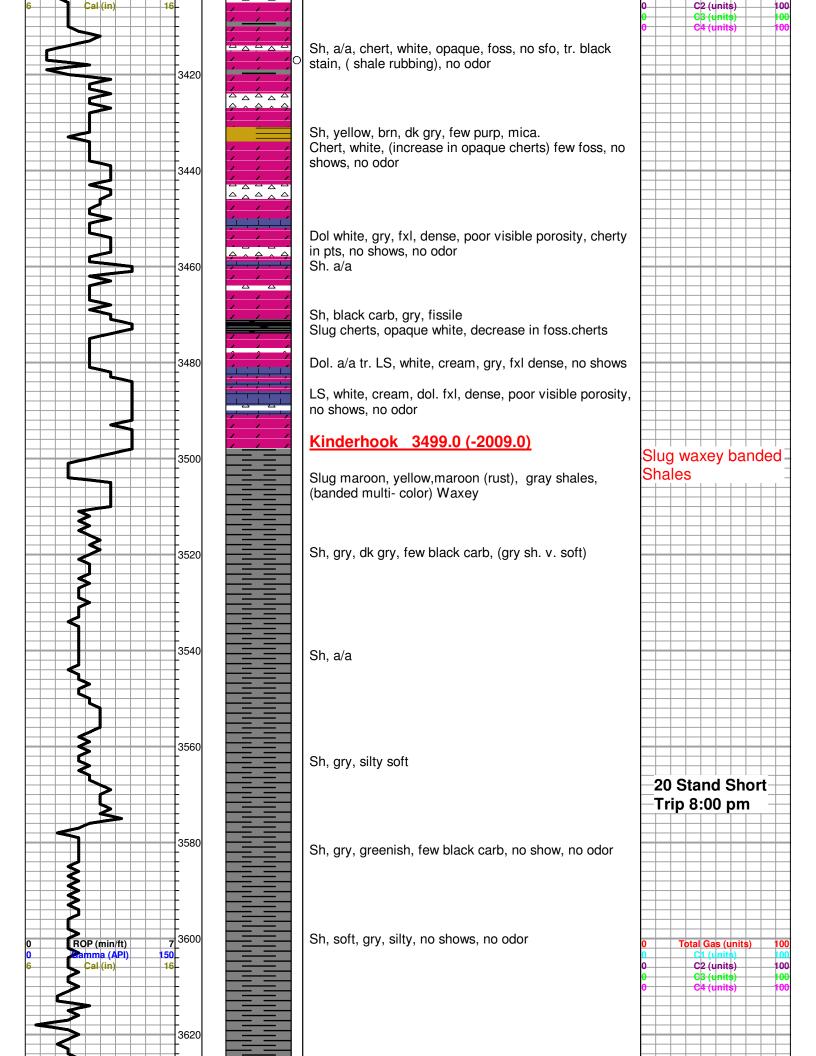


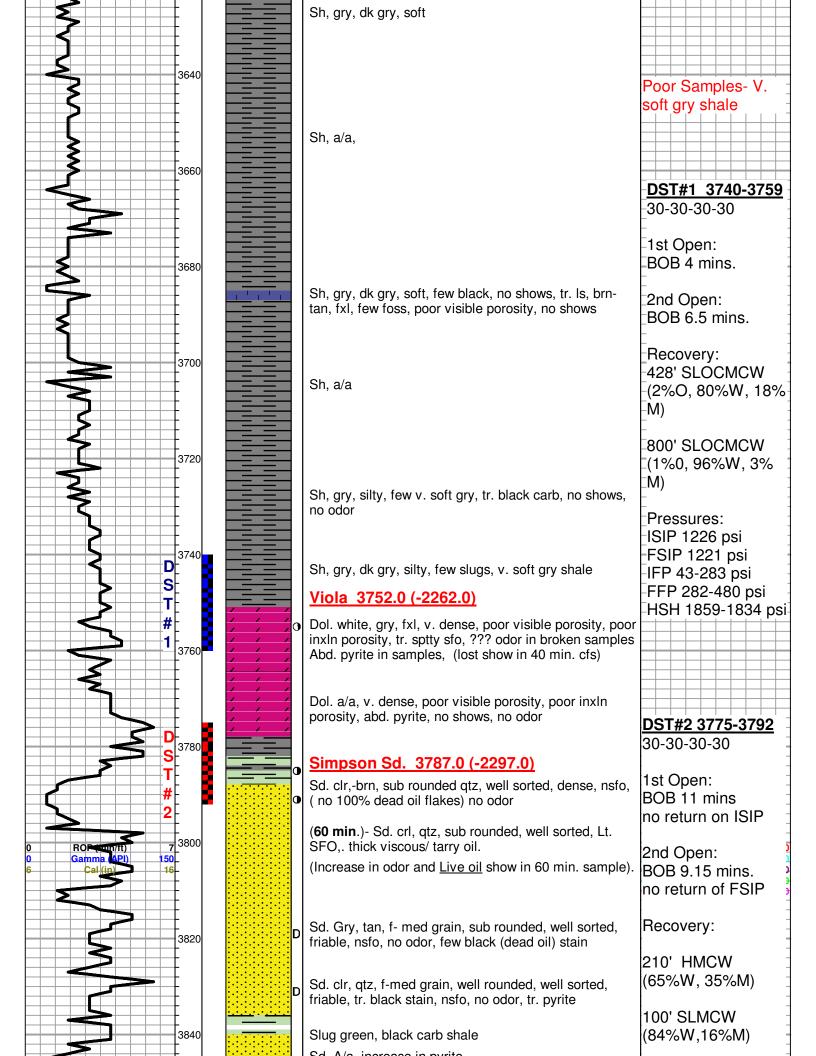


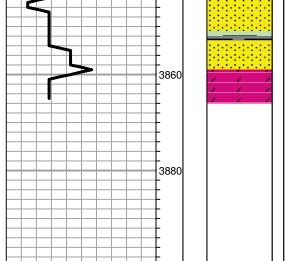












So. A/a, increase in pyrite

Sh, gry, greenish, few black carb

Arbuckle 3858.0 (-2368.0)

Dol. gry, f. grain, scattered visible porosity, suc. nsfo,

LTD 3865.0 (-2375.0) RTD 3865.0 (-2375.0) 440' SLMCW (96%W, 4%M)

Pressures
ISIP 1358 psi
FSIP 1360 psi
IFP 19-187 psi
FFP 185-335 psi
HSH 1821-1790 psi

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

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

No. 642

Date 1-31-18 Sec.	Twp. Range		County Phe Son	State KS	On Location	on 3	Finish	Am
€'		Locatio	11	15 - E to	C.L.E	to 84	n Rd	14:
Lease Sawye	Well No. 15-	Ì	Owner +	Dakota Rd	14 E	NIS		1
Contractor Southward	31 /		To Quality Oi	ilwell Cementing, I	nc. ent cementing equi	inment an	d furnish	
Type Job Conductor					owner or contracto			ed.
Hole Size 17 %	T.D. 000 313	5'	Charge T	A. OR	satina		DOMESTIC OF THE OWNER	
Csg. 133/8" 48#	Depth 2141	-	Street	-	0			
Tbg. Size	Depth		City		State			
Tool	Depth		The above wa	s done to satisfactio	n and supervision of	owner age	nt or contra	actor.
Cement Left in Csg. 15	Shoe Joint) S)	Cement Amo	ount Ordered $2 5$	50 80/20	3% CC	2%6	<u>,el</u>
Meas Line	Displace う)	Bis	るまたり	sed per so	Jan Jan			
EQUIPN	IENT		Common 2	00	-			***
Pumptrk No. Cementer Helper	เลงเร็		Poz. Mix	50				
	dan		Gel. <u>5</u>					
Bulktrk D. U. No. Driver R. Driver	X.		Calcium 9					
JOB SERVICES	& REMARKS		Hulls					
Remarks: Coment did	Circulate		Salt	· · · ·				
Rat Hole			Flowseal	15#				
Mouse Hole			Kol-Seal					:.
Centralizers			Mud CLR 48		-			
Baskets			CFL-117 or 0	CD110 CAF-38	· · · · · · · · · · · · · · · · · · ·			
D/V or Port Collar	·***		Sand					
			Handling 2/	64				
			Mileage					100
				FLOAT EQUI	PMENT			
			Guide Shoe					
			Centralizer					
		·	Baskets					
			AFU Inserts				·	
			Float Shoe					
			Latch Down				. ,	
		. :						
			4.2					
			Pumptrk Cha	arge Conda	etov Sia	rfac	د ـــ	
			Mileage	49				
		.1 1			X * *	Tax		
					Disc	count	······································	
X Signature	/ · · · · · · · · · · · · · · · · · · ·				Total Ch	harge		

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

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

No. 644

OCII 705-024-1041								
Date 2-1-18 Sec. 15	Twp.	Range I	1000	County	State K.S	On Location	Finish 415 PM	
Date 0 1-10 13	30	V 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	YIICS	Mileton Description of the Control		E to 8th	Rd, 45 to	
Lease Sawyer	Well	No. 15	Location	Owner Dal	- E to C.L.	1 44 1 1	na, 90 to	
Contractor Southwind	41			To Quality Oi You are here	Iwell Cementing, Inc. by requested to rent	cementing equipmen	t and furnish	
Type Job Surface				cementer and	d helper to assist owr			
Hole Size 121/4"	T.D.	605'		Charge I	A. OPESA	ting		
Csg. 85/811	Depth	602.5	001	Street		1		
Tbg. Size	Depth			City		State		
Tool	Depth			The above wa	s done to satisfaction ar			
Cement Left in Csg. 201	Shoe Joint	201		Cement Amo	100	80/20 3º/CC	2% Gel 1/2# Flo	
Meas Line	Displace	37	BUS	200	3% CC:	Ph 60		
EQUIPI	MENT	1 118, 11.	·	Common	DQ 472			
	ik .			Poz. Mix	118		0.0000000000000000000000000000000000000	
	Jid #14	Da	Vid	Gel.			(AFA	
Bulktrk D.U. No. Driver R.	d			Calcium 3	3	Y malenal cu s	110000000000000000000000000000000000000	
JOB SERVICES	& REMARKS		******	Hulls	olivera (15) es eti genyde	. S Seggerio ad lav	A. 30 ·	
Remarks: DUMP 456	SX Ce	ment o	Λ	Salt				
Rat Hole Boffom Shut	- down	Rolea	sed	Flowseal 125 H				
Mouse Hole Dlug + Diss	placed u	1 37	BLS	Kol-Seal	uge sediosi i	FataX(1+0) o na notic		
Centralizers Shut in)	torseas w		Mud CLR 48	er en		* 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Baskets / 8 300 - 1	125	60'		CFL-117 or C	D110 CAF 38		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
D/V or Port Collar Run 100'	of 1	Dip	L	Sand				
down annulus + pu	mo 146	' 5x (ement	Handling 6	45			
· · · · · · · · · · · · · · · · · · ·	10.			Mileage				
Cement did (Zirculate				FLOAT EQUIPM	ENT		
Subject to the Millery				Guide Shoe	Rubber p	lvev		
			100	Centralizer	1. 13881 70 1. 171	A STATE OF STATE		
				Baskets	2			
USCO TOTAL		70	jan (1905)	AFU Inserts				
				Float Shoe				
				Latch Down				
	\$ 1 - p = 1			0 × 2 2 2 2 2 1 1 1 1	TS0)(0.5)(9.5)			
	- 20-		T an	7 / A		.n 200 ty (+- √g) ≤	ar francisco	
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· interest in the construction of	Y X 7	,		Walter to the state	- Part Even William	Tax		
	4				o kojeku kantinami. Berun kundan ka ma	Discount	• • • • • • • • • • • • • • • • • • • •	
X Signature					waren fill eroundreie	Total Charge	· · · · · · · · · · · · · · · · · · ·	
				and the second second	CLARGE COLLEGE TO SERVICE TO SERV			

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

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

Ño. 645

Date 2-2-19 Sec. 15	Twp. Rang	ge Mc	Dhe Jov	K 5 State	On Location	Finish 2100 PM
ASTROCOVÍCTICO DE LO COMO ESTADO E	10 36	Locati	on Lbons	- E to C.L.	E + 8th	Rd, 45 to
Lease Sawues	Well No.	15-1	Owner Dal	Lota Rd, 11/2	E NS	
Contractor Southwind			To Quality O	lwell Cementing, Inc.	omenting equipmen	t and furnish
Type Job Pluor Pack			cementer an	d helper to assist owr	er or contractor to de	o work as listed.
Hole Size	T.D.		Charge I	A. OPer	atinov	I Ar Jugar Land Care
Csg. \$5/8"	Depth 6	2,50	Street			
Tbg. Size 41/3" D.P.	Depth E	20°	City		State	
Tool	Depth		The above wa	s done to satisfaction ar	nd supervision of owner	agent or contractor.
Cement Left in Csg.	Shoe Joint	ove VII. Tay	Cement Amo	ount Ordered \50	Q-Pro-C	Thixatropic
Meas Line	Displace	2 315	500 H	Hulls /2	floseol	Cally/dST -
EQUIP	MENT	Sucres have the	Common /	30	en umagdicen is all a	
Pumptrk 6 No. Cementer Teleper Teleper	cauis		Poz. Mix			
Bulktrk 9 No. Driver Down			Gel.	revins a sism sign	s tu 85 pri vHO etc	CARAGARI -
Bulktrik D.U. No. Driver Driver	Rick		Calcium 6		THEOLOGOWNON .	
JOB SERVICES	& REMARKS		Hulls 300	OH (6)	kans incressión de Es	g of grade a first
Remarks:	nang it, greenjeen, ke		Salt		J (14), - 6, 01, 127 1.24 1.1	
Rat Hole			Flowseal	75H	serie accidente	
Mouse Hole	te en la	t i na yan	Kol-Seal	Sup Soal	16	0.500 (0.000.50)
Centralizers		and the second	Mud CLR 48			
Baskets			CFL-117 or (CD110 CAF 38		
D/V or Port Collar			Sand		o y diamento artico	
Run 60' Dill	pipe m	1/2 /505	Handling /	153		
Cement w/ 300# +	lalls in f.	13+ 758x	Mileage			
+ Displaced w/ Bes				FLOAT EQUIPME	ENT	
			Guide Shoe			•
Rigged dow	~ ************************************	tury il patie	Centralizer		4 10.00327 1077 6643	
J		T	Baskets			ONE TO SEED !
a word SYMA Comment			AFU Inserts			
to Asia Cortor (galacia)			Float Shoe			
CONTRACTOR			Latch Down		S. Percentico	
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AST 1/1/10 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	- 10h 10h		//22	Lost Circ	ulation	
		1.0	Pumptrk Cha	irgA Pluo	back	Carlos Company
Always and the state of the sta	AND DESCRIPTION		Mileage 🛩			
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			ansko stojena Remonistrati		Discount	
X Signature		Coding	els etigette de		Total Charge	
			the state of the s			

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No. 649

Date 2 10 - 18 15 20 4 Mc	County State On Location 6 CO AM
Locati	T C V 01 01 /s
Lease Sawys Well No. 15-1	Owner to Dakota Rd 1/4 E 1/5
Contractor South wind # 1	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish
Type Job Plucx	cementer and helper to assist owner or contractor to do work as listed.
Hole Size 7716 11 T.D. 3865	Charge I.A. Organization
Csg. Depth	Street
Tbg. Size 45" D.P. Depth 38431	City
Tool Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. Shoe Joint	Cement Amount Ordered 210 5x 60/46 4% get 14# Hos
Meas Line Displace 10 / Mucl	3
EQUIPMENT	Common 126
Pumptrk No. Cementer Helper Helper	Poz. Mix Suf
Bulktrk 9 No. Driver Tolder	Gel. 8
Bulktrk D. U. No. Driver R. C.	Calcium
JOB SERVICES & REMARKS	Hulls *
Remarks: 38431 - 355X	Salt
Rat Hole 69 5 - 35 5 x	Flowseal 50#
Mouse Hole 3411 355x	Kol-Seal
Centralizers 186 - 355x	Mud CLR 48
Baskets 62 - 20 5x	CFL-117 or CD110 CAF 38
D/V or Port Collar Rathole - W 30 5X	Sand
Ynousehole w/ 20sx	Handling 2/8
	Mileage
Cement did Circulate	FLOAT EQUIPMENT
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge O/Wg
	Mileage Tax
<i>D</i> .	Discount
X 1 1 1 M	Total Charge
X Signature	Julia Ollarye