KOLAR Document ID: 1401207

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 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
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
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: sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
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 #:	Location of fluid disposal if fladica offsite.
GSW Permit #:	Operator Name:
_	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. 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 Approved by: Date:

KOLAR Document ID: 1401207

#### 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	e of Cement # Sacks Used 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	Black Rock Resources, LLC
Well Name	WRIGHT 1-25
Doc ID	1401207

# All Electric Logs Run

DIL	
CDN	
MICRO	
SONIC	

Form	ACO1 - Well Completion
Operator	Black Rock Resources, LLC
Well Name	WRIGHT 1-25
Doc ID	1401207

# Tops

Name	Тор	Datum
STONE CORAL	2541	668
TOPEKA	3656	-447
HEEBNER	3897	-688
LANSING	3943	-734
ВКС	4260	-1051
PLEASANTON	4271	-1062
PAWNEE	4386	-1177
FT SCOTT	4450	-1241

Form	ACO1 - Well Completion
Operator	Black Rock Resources, LLC
Well Name	WRIGHT 1-25
Doc ID	1401207

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	334	pozmix		80/20 poz, 2% gel, 3% cc
Production	7.875	5.5	17	4819	common	240	10% salt, 5% gilsonite

# 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. 567

Range County State On Location Finish Sec. Twp. 15 A.M Well No. 1-25 Owner 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. Stage Hole Size Depth Street Tbg. Size Depth City Tool Dil Tool Depth The above was done to satisfaction and supervision of owner agent or contractor. Cement Amount Ordered Z Cement Left in Csg. Shoe Joint Displace Meas Line EQUIPMENT Common Cementer Helper Poz. Mix Pumptrk No. Driver 9 Gel. Bulktrk No. Calcium Bulktrk On JOB SERVICES'& REMARKS Hulls Salt Remarks: Flowseal Rat Hole Mouse Hole Kol-Seal Centralizers Mud CLR 48 Baskets CFL-117 or CD110 CAF 38 D/V or Port Collar Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU Inserts Float Shoe Latch Down Pumptrk Charge Mileage Tax Discount Total Charge

# 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

Ño. 566

Twp. Range County State Finish Sec. On Location 30 Am ogan Location (Dinona Owner 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. Charge To Depth 481 Street Depth Tbg. Size City State Tool DU Depth 2519 The above was done to satisfaction and supervision of owner agent or contractor. Cement Amount Ordered 240 27.95 27.95 Cement Left in Csg. Shoe Joint Meas Line Displace 112BL 500gal MYD Clear & 30BLKCE EQUIPMENT Common 290 ementer Helper Poz. Mix Pumptrk Driver KICK No. Bulktrk Gel. Driver Calcium **JOB SERVICES & REMARKS** Hulls Salt 2 Remarks: Rat Hole Flowseal Mouse Hole Kol-Seal Centralizers Mud CLR 48 Baskets CFL-117 or CD110 CAF 38 D/V or Port Collar Sand Handling Mileage FLOAT EQUIPMENT Guide & Centralizer Baskets AFU Inserts Float Shoe Latch Down Pumptrk Charge Mileage Tax Discount Total Charge



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

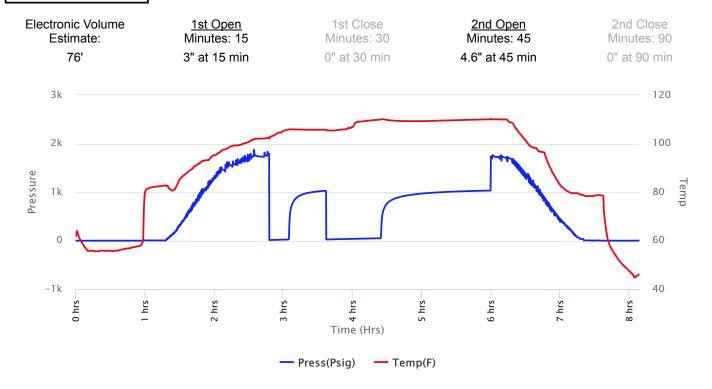
Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
01
2017

DST #1 Formation: Topeka Test Interval: 3648 - Total Depth: 3685'

Time On: 11:30 12/01 Time Off: 19:24 12/01

Time On Bottom: 14:12 12/01 Time Off Bottom: 17:12 12/01





**DST #1** 

SEC: 25 TWN: 12S RNG: 37W

County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE December 01 2017

Formation: Topeka

Test Interval: 3648 -Total Depth: 3685'

3685'

Time On: 11:30 12/01

Time Off: 19:24 12/01

Time On Bottom: 14:12 12/01 Time Off Bottom: 17:12 12/01

Recovered

<u>Foot</u> **BBLS** 78 1.10994 **Description of Fluid** SLOCSLWCM

<u>Gas %</u>

0

<u>Oil %</u> 1

Water % 5

Mud % 94

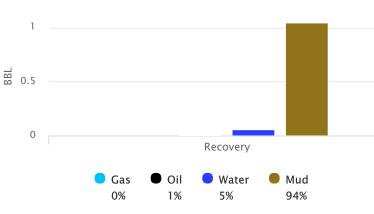
Total Recovered: 78 ft

Total Barrels Recovered: 1.10994

Reversed Out NO

		•
Initial Hydrostatic Pressure	1731	PSI
Initial Flow	12 to 23	PSI
<b>Initial Closed in Pressure</b>	1029	PSI
Final Flow Pressure	24 to 49	PSI
Final Closed in Pressure	1033	PSI
Final Hydrostatic Pressure	1740	PSI
Temperature	111	°F
Pressure Change Initial	0.0	%
Close / Final Close		

Recovery at a glance





**DST #1** 

SEC: 25 TWN: 12S RNG: 37W

County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

**DATE** 

December

01 2017

Test Interval: 3648 -3685'

Total Depth: 3685'

Time On: 11:30 12/01 Time Off: 19:24 12/01

Formation: Topeka

Time On Bottom: 14:12 12/01 Time Off Bottom: 17:12 12/01

#### REMARKS:

10. WSB. Built to 3 inches.

1C. NOBB

20. WSB. BUILT to 4 1/2 inches

2C. NOBB

TOOL Sample: 4% W. 96% M



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
01
2017

DST #1 Formation: Topeka Test Interval: 3648 - Total Depth: 3685'

3685'

Time On: 11:30 12/01 Time Off: 19:24 12/01

Time On Bottom: 14:12 12/01 Time Off Bottom: 17:12 12/01

## **Down Hole Makeup**

**Heads Up:** 6.64 FT **Packer 1:** 3642.5 FT

**Drill Pipe:** 3621.57 FT **Packer 2:** 3648 FT

ID-3 1/2 Top Recorder: 3631.92 FT

Weight Pipe: 0 FT

ID-2 7/8 Bottom Recorder: 0 FT

Collars: 0 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 34.07 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

**Total Anchor:** 37

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 0 FT

**Drill Pipe: (in anchor):** 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 33 FT

4 1/2-FH



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
01
2017

DST #1 Formation: Topeka Test Interval: 3648 - Total Depth: 3685'

3685'

Time On: 11:30 12/01 Time Off: 19:24 12/01

Time On Bottom: 14:12 12/01 Time Off Bottom: 17:12 12/01

## **Mud Properties**

Mud Type: Chem Weight: 8.9 Viscosity: 50 Filtrate: 7.7 Chlorides: 5800 ppm



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
01
2017

DST #1 Formation: Topeka Tes

Test Interval: 3648 -

Total Depth: 3685'

3685'

Time On: 11:30 12/01 Time Off: 19:24 12/01

Time On Bottom: 14:12 12/01 Time Off Bottom: 17:12 12/01

## **Gas Volume Report**

1st Open 2nd Open

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



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

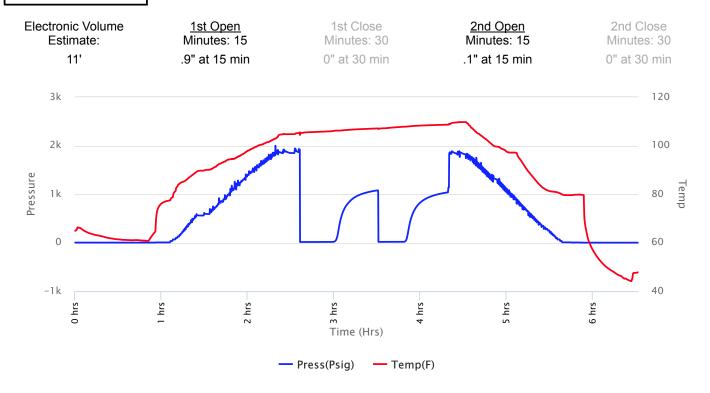
Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
02
2017

DST #2 Formation: Oread Test Interval: 3843 - Total Depth: 3909' 3873'

Time On: 13:13 12/02 Time Off: 19:33 12/02

Time On Bottom: 15:44 12/02 Time Off Bottom: 17:14 12/02





County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE December 02

2017

DST #2 Formation: Oread

Time On: 13:13 12/02

Test Interval: 3843 - 3873'

Total Depth: 3909'

3.

Time Off: 19:33 12/02

Time On Bottom: 15:44 12/02 Time Off Bottom: 17:14 12/02

Recovered

Foot BBLS 10 0.1423

Description of Fluid SLOCM

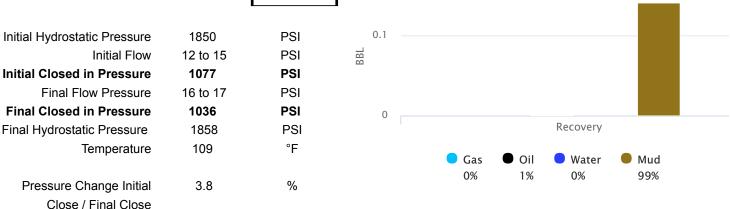
<u>Gas %</u> 0

Oil % 1 Water % 0 Mud % 99

Total Recovered: 10 ft

Total Barrels Recovered: 0.1423

Reversed Out NO Recovery at a glance





County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
02
2017

DST #2 Formation: Oread Test Interval: 3843 - Total Depth: 3909' 3873'

Time On: 13:13 12/02 Time Off: 19:33 12/02

Time On Bottom: 15:44 12/02 Time Off Bottom: 17:14 12/02

#### REMARKS:

10. WSB. Built to 3/4 of an Inch

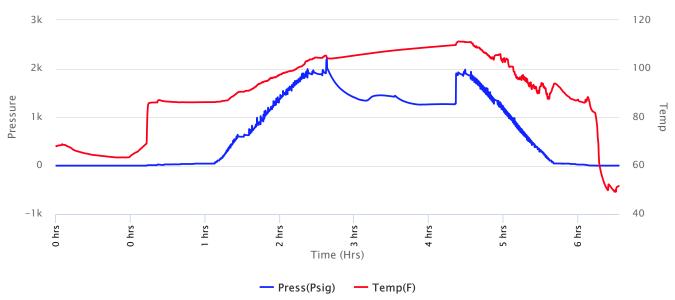
1C. NOBB

20. NO Blow/ Built to WSB

2C. NOBB

Tool Sample: 1% O 99% M

#### **Below Straddle Recorder**





County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
02
2017

DST #2 Formation: Oread Test Interval: 3843 - Total Depth: 3909'

3873'

Time On: 13:13 12/02 Time Off: 19:33 12/02

Time On Bottom: 15:44 12/02 Time Off Bottom: 17:14 12/02

## **Down Hole Makeup**

Heads Up: 4.7 FT Packer 1: 3838 FT

**Drill Pipe:** 3815.13 FT **Packer 2:** 3843 FT

ID-3 1/2 Packer 3: 3873 FT

Collars: 0 FT Bottom Recorder: 3845 FT

ID-2 1/4 Below Straddle Recorder: 3907 FT

Test Tool: 33.57 FT Well Bore Size: 7 7/8

ID-3 1/2-FH Surface Choke: 1"

Jars
Safety Joint Bottom Choke: 5/8"

Total Anchor: 30

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

**Drill Pipe: (in anchor):** 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 29 FT

4 1/2-FH

**STRADDLE** 

Straddle Packer(s): 1 FT

Change Over: .5 FT

Drill Pipe: 31.2 FT

ID-3 1/2"

Change Over: .5 FT

Perforations (in tail pipe): 3 FT

4 1/2-FH



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
02
2017

DST #2 Formation: Oread

Test Interval: 3843 -

Total Depth: 3909'

3873'

Time On: 13:13 12/02 Time Off: 19:33 12/02

Time On Bottom: 15:44 12/02 Time Off Bottom: 17:14 12/02

## **Mud Properties**

Mud Type: Chem Weight: 9.1 Viscosity: 46 Filtrate: 8.2 Chlorides: 7900 ppm



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
02
2017

DST #2 Formation: Oread

Test Interval: 3843 -

Total Depth: 3909'

3873'

Time On: 13:13 12/02 Time Off: 19:33 12/02

Time On Bottom: 15:44 12/02 Time Off Bottom: 17:14 12/02

## **Gas Volume Report**

1st Open 2nd Open

Time Orifice PSI MCF/D	Time	Orifice	PSI MCF/D
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County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

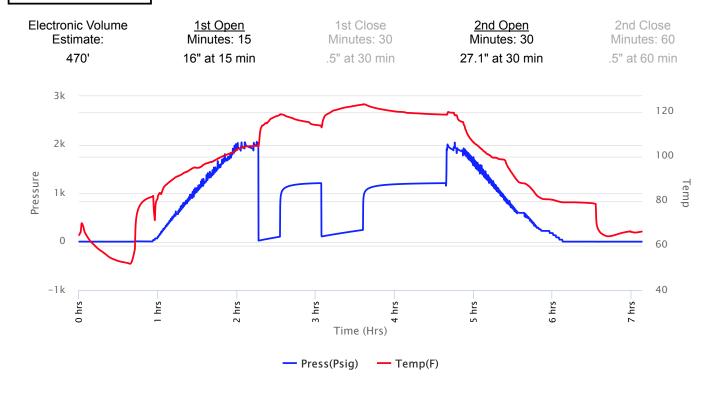
Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
03
2017

DST #3 Formation: Lans C/D Test Interval: 3982 - Total Depth: 4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03





**Company: Black Rock** 

Lease: Wright #1-25

SEC: 25 TWN: 12S RNG: 37W

County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE December 03 2017

**DST #3** Formation: Lans C/D Test Interval: 3982 -Total Depth: 4028' 4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	Gas %	Oil %	Water %	<u>Mud %</u>
63	0.89649	SLOCSLWCM	0	2	10	88
441	6.27543	SLOCHWCM	0	2	43	55

Total Recovered: 504 ft

Total Barrels Recovered: 7.17192

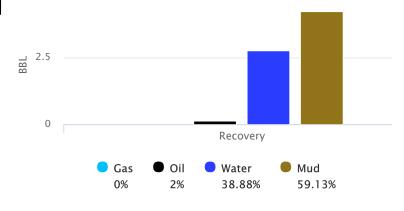
Reversed Out
NO

Initial Hydrostatic Pressure	1918	PSI
Initial Flow	21 to 103	PSI
Initial Closed in Pressure	1204	PSI
Final Flow Pressure	107 to 242	PSI
Final Closed in Pressure	1207	PSI
Final Hydrostatic Pressure	1955	PSI
Temperature	124	°F

0.0

Pressure Change Initial Close / Final Close

## Recovery at a glance





County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
03
2017

DST #3 Formation: Lans C/D Test Interval: 3982 - Total Depth: 4028' 4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

#### REMARKS:

10. 1/4' blow. BOB in 10 1/2 mins

1C. 1/2 BE

20. 1/4' Blow. BOB in 12 1/2 mins.

2C. 1/4 BB

Tool Sample: 3% O 52% W 35% M

Ph: 8

RW: .41 @ 54 degrees F

Chlorides: 18000 ppm



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

4020 FT

5/8"

DATE December 03 2017 DST #3 Formation: Lans C/D Test Interval: 3982 - Total Depth: 4028'

4028'

**Bottom Recorder:** 

**Bottom Choke:** 

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

## **Down Hole Makeup**

Heads Up: 23.66 FT Packer 1: 3977 FT

**Drill Pipe:** 3973.09 FT **Packer 2:** 3982 FT

ID-3 1/2 **Top Recorder:** 3966.42 FT

Weight Pipe: 0 FT

ID-2 7/8 Well Bore Size: 7 7/8

Collars: 0 FT

ID-2 1/4 Surface Choke: 1"

**Test Tool:** 33.57 FT *ID-3 1/2-FH* 

Jars

Safety Joint

Total Anchor: 46

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

**Drill Pipe: (in anchor):** 31.5 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 9 FT

4 1/2-FH



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
03
2017

DST #3 Formation: Lans C/D Test Interval: 3982 -

- Total Depth: 4028'

4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

#### **Mud Properties**

Mud Type: Chem Weight: 9.2 Viscosity: 49 Filtrate: 9.8 Chlorides: 9550 ppm



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
03
2017

DST #3 Formation: Lans C/D Test

Test Interval: 3982 -

Total Depth: 4028'

4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

## **Gas Volume Report**

1st Open 2nd Open

Orifice PSI MCF/[	Time Orifice	PSI MCF/D
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County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

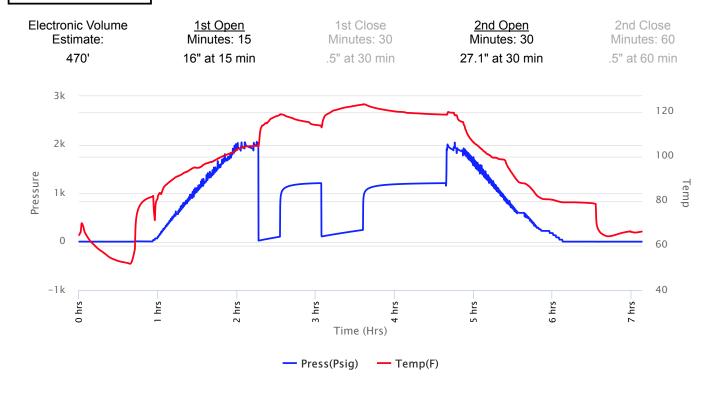
Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
03
2017

DST #3 Formation: Lans C/D Test Interval: 3982 - Total Depth: 4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03





**Company: Black Rock** 

Lease: Wright #1-25

SEC: 25 TWN: 12S RNG: 37W

County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE December 03 2017

**DST #3** Formation: Lans C/D Test Interval: 3982 -Total Depth: 4028' 4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	Gas %	Oil %	Water %	<u>Mud %</u>
63	0.89649	SLOCSLWCM	0	2	10	88
441	6.27543	SLOCHWCM	0	2	43	55

Total Recovered: 504 ft

Total Barrels Recovered: 7.17192

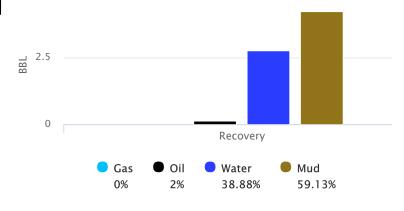
Reversed Out
NO

Initial Hydrostatic Pressure	1918	PSI
Initial Flow	21 to 103	PSI
Initial Closed in Pressure	1204	PSI
Final Flow Pressure	107 to 242	PSI
Final Closed in Pressure	1207	PSI
Final Hydrostatic Pressure	1955	PSI
Temperature	124	°F

0.0

Pressure Change Initial Close / Final Close

## Recovery at a glance





County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
03
2017

DST #3 Formation: Lans C/D Test Interval: 3982 - Total Depth: 4028' 4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

#### REMARKS:

10. 1/4' blow. BOB in 10 1/2 mins

1C. 1/2 BE

20. 1/4' Blow. BOB in 12 1/2 mins.

2C. 1/4 BB

Tool Sample: 3% O 52% W 35% M

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RW: .41 @ 54 degrees F

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County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

4020 FT

5/8"

DATE December 03 2017 DST #3 Formation: Lans C/D Test Interval: 3982 - Total Depth: 4028'

4028'

**Bottom Recorder:** 

**Bottom Choke:** 

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

## **Down Hole Makeup**

Heads Up: 23.66 FT Packer 1: 3977 FT

**Drill Pipe:** 3973.09 FT **Packer 2:** 3982 FT

ID-3 1/2 **Top Recorder:** 3966.42 FT

Weight Pipe: 0 FT

ID-2 7/8 Well Bore Size: 7 7/8

Collars: 0 FT

ID-2 1/4 Surface Choke: 1"

**Test Tool:** 33.57 FT *ID-3 1/2-FH* 

Jars

Safety Joint

Total Anchor: 46

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

**Drill Pipe: (in anchor):** 31.5 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 9 FT

4 1/2-FH



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
03
2017

DST #3 Formation: Lans C/D Test Interval: 3982 -

- Total Depth: 4028'

4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

#### **Mud Properties**

Mud Type: Chem Weight: 9.2 Viscosity: 49 Filtrate: 9.8 Chlorides: 9550 ppm



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
03
2017

DST #3 Formation: Lans C/D Test

Test Interval: 3982 -

Total Depth: 4028'

4028'

Time On: 09:12 12/03 Time Off: 16:08 12/03

Time On Bottom: 11:24 12/03 Time Off Bottom: 13:39 12/03

## **Gas Volume Report**

1st Open 2nd Open

Orifice PSI MCF/[	Time Orifice	PSI MCF/D
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County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

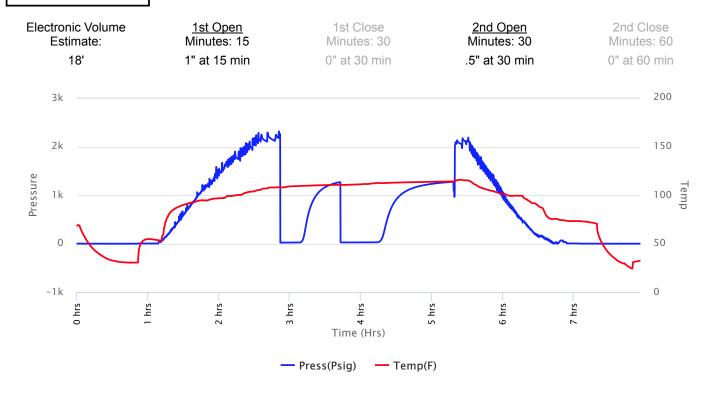
Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
04
2017

DST #4 Formation: Test Interval: 4275 - Total Depth: 4318' Pleasanton 4318'

Time On: 19:32 12/04 Time Off: 03:15 12/05

Time On Bottom: 22:19 12/04 Time Off Bottom: 00:34 12/05





County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE December 04 2017

**DST #4** Formation: **Pleasanton**  Test Interval: 4275 -

Total Depth: 4318'

4318'

Time On: 19:32 12/04

Time Off: 03:15 12/05

1

Time On Bottom: 22:19 12/04 Time Off Bottom: 00:34 12/05

Recovered

<u>Foot</u> **BBLS** 34 0.48382

Initial Hydrostatic Pressure

Description of Fluid **SLOCM** 

<u>Oil %</u> Gas % 0

Water % 0

Mud % 99

Total Recovered: 34 ft

Total Barrels Recovered: 0.48382

Reversed Out NO PSI

Recovery at a glance 0.5 쿄 0.25 0 Recovery Gas Oil Water Mud 0% 1% 0% 99%

Initial Flow	21 to 24	PSI
Initial Closed in Pressure	1265	PSI
Final Flow Pressure	25 to 28	PSI
Final Closed in Pressure	1276	PSI
Final Hydrostatic Pressure	2095	PSI
Temperature	115	°F
Pressure Change Initial	0.0	%
Close / Final Close		

2121



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

**DATE** December

04 2017 **DST #4** Formation: **Pleasanton**  Test Interval: 4275 -

Total Depth: 4318'

4318'

Time On: 19:32 12/04

Time Off: 03:15 12/05

Time On Bottom: 22:19 12/04 Time Off Bottom: 00:34 12/05

#### REMARKS:

10. WSB. Built to 1 inch in 15 mins.

1C. NOBB

20. WSB. Built to 1/2 in 30 mins.

2C. NOBB

Tool Sample: 1% O. 99% M



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE December 04 2017

DST #4 Formation: Test Interval: 4275 -Total Depth: 4318' **Pleasanton** 4318'

Time On: 19:32 12/04 Time Off: 03:15 12/05

Time On Bottom: 22:19 12/04 Time Off Bottom: 00:34 12/05

## **Down Hole Makeup**

Heads Up: 17.4 FT Packer 1: 4269.5 FT

**Drill Pipe:** 4259.33 FT Packer 2: 4275 FT

ID-3 1/2 Top Recorder: 4258.92 FT

Weight Pipe: 0 FT

**Bottom Recorder:** 0 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 0 FT

**Surface Choke:** 1" ID-2 1/4

**Test Tool:** 34.07 FT **Bottom Choke:** 5/8"

ID-3 1/2-FH Jars

Safety Joint

**Total Anchor:** 43

**Anchor Makeup** 

1 FT

Packer Sub:

Perforations: (top): 3 FT

4 1/2-FH

**Change Over:** 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 39 FT

4 1/2-FH



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE December 04 2017 DST #4 Formation: Pleasanton

Test Interval: 4275 -

Total Depth: 4318'

4318'

Time On: 19:32 12/04

Time Off: 03:15 12/05

Time On Bottom: 22:19 12/04 Time Off Bottom: 00:34 12/05

## **Mud Properties**

Mud Type: Chem Weight: 9.1 Viscosity: 52 Filtrate: 8.9 Chlorides: 8750 ppm



County: LOGAN State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8 Elevation: 3201 GL Field Name: Wildcat Pool: WILDCAT Job Number: 87

DATE
December
04
2017

DST #4 Formation: Pleasanton

Test Interval: 4275 -

Total Depth: 4318'

4318'

Time On: 19:32 12/04

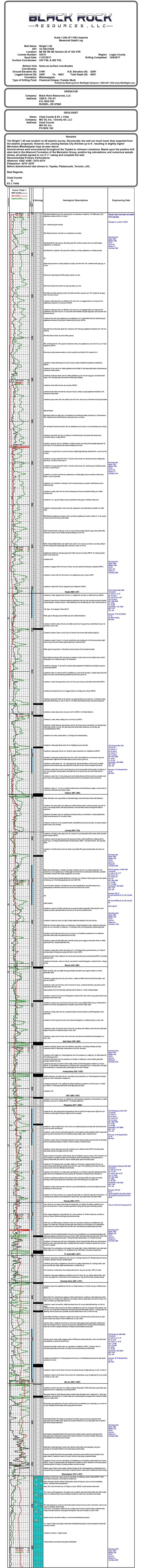
Time Off: 03:15 12/05

Time On Bottom: 22:19 12/04 Time Off Bottom: 00:34 12/05

## **Gas Volume Report**

1st Open 2nd Open

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



QUALITY OILWELL CEMENTING, INC. PO BOX 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665 PHONE:785-324-1041 FAX:785-483-1087 EMAIL: cementing@ruraltel.net

Date: 11/28/2017

Invoice # 553

P.O.#:

Due Date: 12/28/2017 Division: Russell

# Invoice

Contact:

Address/Job Location:

Black Rock Resources

Quantity

Price

601.97

Taxable

No

Paid # 2874

Quantity

Price

Taxable

Reference:

WRIGHT 1-25 SEC 25-12-37

Services / Items Included:

Description of Work: SURFACE JOB

Common-Class A	180	\$	2,501.78	Yes			
Calcium Chloride	8	\$	302.27	Yes			
POZ Mix-Standard	45	\$	212.53	Yes			
Bulk Truck Matl-Material Service Charge	237	\$	159.90	No			
Pump Truck Mileage-Job to Nearest Camp	31	\$	94.12	No			
Premium Gel (Bentonite)	4	\$	78.27	Yes			
Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$	73.20	No			
Invoice Terms:						SubTotal:	\$ 4,024.04
Net 30			Discou	ınt Availabl		ce is Paid & Received sted terms of invoice:	\$ (100.60)
		·			Su	bTotal for Taxable Items:	\$ 3,017.47
					SubTot	al for Non-Taxable Items:	\$ 905.97
						Total:	\$ 3,923.44
				8.00% Logan	County Sales Tax	Tax:	\$ 241.40
Thank You For Your Business!						Amount Due:	\$ 4,164.84
						<b>Applied Payments:</b>	
						Balance Due:	\$ 4.164.84

Past Due Invoices are subject to a service charge (annual rate of 24%) This does not include any applicable taxes unless it is listed.  $\hbox{@2008-2013 Straker Investments, LLC. All rights reserved.}$ 

# 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. 553

0011.000									
S	ec. Twp.	Range	(	County	State	On Location	Finish		
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Tbg. Size	Depth			City		State			
Tool	Depth			The above wa	s done to satisfaction	and supervision of owner	agent or contractor.		
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JOB SERV	ICES & REMA	RKS		Hulis					
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Mouse Hole	et. : :		h *	Kol-Seal					
Centralizers				Mud CLR 48					
Baskets				CFL-117 or (	CD110 CAF 38				
D/V or Port Collar		A		Sand					
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