KOLAR Document ID: 1487558

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: State: Zip: +	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.xxxxx) (e.gxxx.xxxxx)			
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)				
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	Drilling Fluid Management Plan			
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)			
Described	Chloride content: ppm Fluid volume: bbls			
☐ Commingled Permit #:	Dewatering method used:			
SWD Permit #:	Location of fluid disposal if hauled offsite:			
EOR Permit #:	Location of fluid disposal if flauled offsite.			
GSW Permit #:	Operator Name:			
	Lease Name: License #:			
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R			
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: 1487558

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	RJM Company			
Well Name	KRUG G 2			
Doc ID	1487558			

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	20	421	Common	60/40 4% CC 2% GEL
Production	7.875	5.50	17	3326	Common	10% Salt 5% Gilsonite



Uploading recovery &

pressures

Company: RJM Oil Company, Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API #: 15-167-24099-00-00

DATE

11 2019

Formation: Lansing "A-C"

Test Interval: 3071 - 3114'

Total Depth: 3114'

Time On: 03:40 12/11

Time Off: 11:32 12/11

Time On Bottom: 06:20 12/11 Time Off Bottom: 09:50 12/11

Electronic Volume Estimate:

55'

1st Open Minutes: 45 Current Reading: 2.7" at 45 min

Max Reading: 2.7"

DST #1

0" at 45 min

Max Reading: 0"

2nd Open Minutes: 60 Current Reading:

4.1" at 60 min Max Reading: 4.1" Minutes: 60
Current Reading:

2nd Close

0" at 60 min

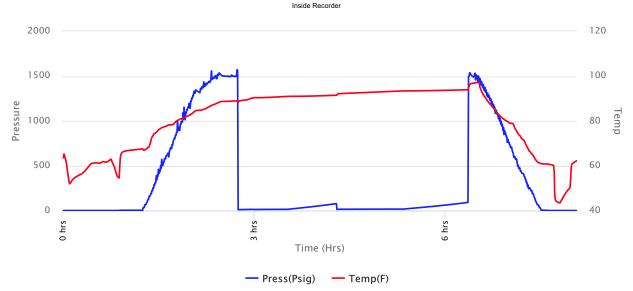
Max Reading: 0"

. .. _ .

1st Close

Minutes: 45

Current Reading:





Uploading recovery &

pressures

Company: RJM Oil Company, Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

December
11
2019

DST #1 Formation: Lansing "A-C"

Test Interval: 3071 - 3114'

Total Depth: 3114'

"A-C"

Time On: 03:40 12/11

Time Off: 11:32 12/11

Time On Bottom: 06:20 12/11 Time Off Bottom: 09:50 12/11

Recovered

Foot BBLS 50 0.7115 15 0.21345 Description of Fluid G SLOCM
 Gas %
 Oil %
 Water %
 Mud %

 100
 0
 0
 0

 0
 4
 0
 96

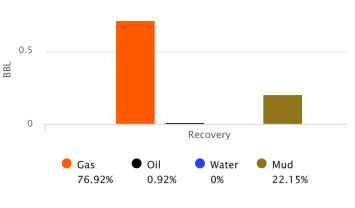
Total Recovered: 65 ft

Total Barrels Recovered: 0.92495

Reversed Out NO

Initial Hydrostatic Pressure	1495	PSI
Initial Flow	12 to 15	PSI
Initial Closed in Pressure	78	PSI
Final Flow Pressure	13 to 18	PSI
Final Closed in Pressure	92	PSI
Final Hydrostatic Pressure	1494	PSI
Temperature	94	°F
Pressure Change Initial	0.0	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 3.99472



Uploading recovery &

pressures

Company: RJM Oil Company,

Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

December **11** 2019

DST #1 Formation: Lansing "A-C"

Test Interval: 3071 -

Total Depth: 3114'

3114'

Time On: 03:40 12/11 Time Off: 11:32 12/11
Time On Bottom: 06:20 12/11 Time Off Bottom: 09:50 12/11

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: Surface blow building to 3 1/4"

1st Close: No BB

2nd Open: 1 1/2" blow building to 4 3/4"

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 19% Oil 0% Water 81% Mud



SEC: 13 TWN: 15S RNG: 14W County: RUSSELL State: Kansas Drilling Contractor: Southwind Drilling, Inc - Rig 3 Elevation: 1879 GL Operation:
Uploading recovery & pressures

Lease: Krug "G" #2

Field Name: Trapp Pool: Infield Job Number: 425

API #: 15-167-24099-00-00

DATE
December

2019

DST #1 Formation: Lansing Test Interval: 3071 - Total Depth: 3114'

Time On: 03:40 12/11 Time Off: 11:32 12/11 Time On Bottom: 06:20 12/11 Time Off Bottom: 09:50 12/11

Down Hole Makeup

Heads Up: 20.73 FT **Packer 1:** 3066 FT

Drill Pipe: 3066.57 FT **Packer 2:** 3071 FT

ID-3 1/2 **Top Recorder:** 3058 FT

Weight Pipe: 0 FT

Bottom Recorder: 3079 FT

ID-2 7/8

Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 26.16 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Collars:

0 FT

Total Anchor: 43

Anchor Makeup
Packer Sub: 1 FT

Perforations: (top): 6 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): 36 FT

4 1/2-FH

PESTING WILL

Company: RJM Oil Company,

Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1879 GL Field Name: Trapp Pool: Infield

Operation:



Job Number: 425 API #: 15-167-24099-00-00

DATE
December
11
2019

DST #1 Formation: Lansing Test Interval: 3071 - Total Depth: 3114'

Time On: 03:40 12/11 Time Off: 11:32 12/11
Time On Bottom: 06:20 12/11 Time Off Bottom: 09:50 12/11

Mud Properties

Mud Type: Chemical Weight: 9.0 Viscosity: 46 Filtrate: 8.8 Chlorides: 4,000 ppm



Company: RJM Oil Company,

Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API #: 15-167-24099-00-00

Operation:
Uploading recovery & pressures

DATE
December
11
2019

DST #1 Formation: Lansing Test Interval: 3071 - Total Depth: 3114'

MCF/D

Time On: 03:40 12/11 Time Off: 11:32 12/11
Time On Bottom: 06:20 12/11 Time Off Bottom: 09:50 12/11

Gas Volume Report

1st Open					2nd O _l	pen
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI



Uploading recovery &

pressures

Company: RJM Oil Company, Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

December 12

2019

DST #2

Formation: L/KC "H-

Test Interval: 3200 -

Total Depth: 3290'

3290'

Time On: 04:29 12/12

Time Off: 11:33 12/12

Time On Bottom: 06:33 12/12 Time Off Bottom: 09:33 12/12

Electronic Volume Estimate:

77'

1st Open Minutes: 45 Current Reading:

3.7" at 45 min

Max Reading: 3.7"

1st Close Minutes: 45 **Current Reading:** 0" at 45 min

Max Reading: 0"

2nd Open Minutes: 45 Current Reading:

5.5" at 45 min

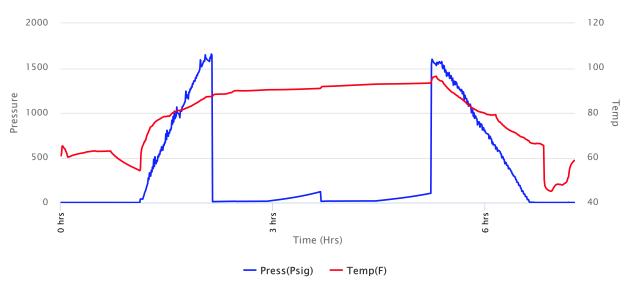
Max Reading: 5.5"

2nd Close Minutes: 45 **Current Reading:**

0" at 45 min

Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: RJM Oil Company,

Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

December 12 2019

Formation: L/KC "H-

Test Interval: 3200 -3290'

Total Depth: 3290'

Time On: 04:29 12/12

Time Off: 11:33 12/12

Time On Bottom: 06:33 12/12 Time Off Bottom: 09:33 12/12

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid
45	0.64035	G
20	0.2846	SLOCM

DST #2

Gas % Oil % Water % Mud % 0 100 0 0 0 1 99 0

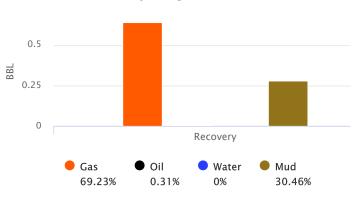
Total Recovered: 65 ft

Total Barrels Recovered: 0.92495

Reversed	Out
NO	

Initial Hydrostatic Pressure	1612	PSI
Initial Flow	12 to 16	PSI
Initial Closed in Pressure	121	PSI
Final Flow Pressure	15 to 21	PSI
Final Closed in Pressure	105	PSI
Final Hydrostatic Pressure	1600	PSI
Temperature	94	°F
Pressure Change Initial	12.9	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 3.59525



Uploading recovery &

pressures

Company: RJM Oil Company,

Inc

DST #2

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

December 12 2019 Formation: L/KC "H- Test

Test Interval: 3200 - Tota

Total Depth: 3290'

)

Time On: 04:29 12/12 Time Off: 11:33 12/12
Time On Bottom: 06:33 12/12 Time Off Bottom: 09:33 12/12

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1/4" blow building to 4"

1st Close: No BB

2nd Open: 2" blow building to 6 1/4"

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 25% Oil 0% Water 75% Mud



SEC: 13 TWN: 15S RNG: 14W County: RUSSELL State: Kansas Drilling Contractor: Southwind Drilling, Inc - Rig 3 Elevation: 1879 GL Operation:
Uploading recovery & pressures

Lease: Krug "G" #2

Field Name: Trapp Pool: Infield Job Number: 425

API #: 15-167-24099-00-00

Total Depth: 3290'

DATE
December
12

2019

DST #2 Formation: L/KC "H- Test Interval: 3200 - K" 3290'

Time On: 04:29 12/12 Time Off: 11:33 12/12
Time On Bottom: 06:33 12/12 Time Off Bottom: 09:33 12/12

Down Hole Makeup

Heads Up: 19.09 FT **Packer 1:** 3195.3 FT

Drill Pipe: 3194.23 FT **Packer 2:** 3200.3 FT

ID-3 1/2 **Top Recorder:** 3187.3 FT

Weight Pipe: 0 FT

Bottom Recorder: 3272 FT

ID-2 7/8

Well Bore Size: 7 7/8

Collars: 0 FT

ID-2 1/4

Surface Choke: 1"

Test Tool: 26.16 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Total Anchor: 89.7

Anchor Makeup
Packer Sub: 1 FT

Perforations: (top): 5 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 62.70 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 19 FT

4 1/2-FH

PESTING INC

Operation:

Company: RJM Oil Company,

Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1879 GL Field Name: Trapp

Pool: Infield



Job Number: 425 API #: 15-167-24099-00-00

DATE December

12 2019 DST #2 Formation: L/KC "H-Test Interval: 3200 -Total Depth: 3290' 3290'

Time On: 04:29 12/12 Time Off: 11:33 12/12 Time On Bottom: 06:33 12/12 Time Off Bottom: 09:33 12/12

Mud Properties

Mud Type: Chemical Weight: 9.4 Viscosity: 51 Filtrate: 8.8 Chlorides: 5,000 ppm



Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

Operation: Uploading recovery & pressures

DATE
December
12
2019

DST #2 Formation: L/KC "H- Test Interval: 3200 - Total Depth: 3290' K" 3290'

Time On: 04:29 12/12 Time Off: 11:33 12/12 Time On Bottom: 06:33 12/12 Time Off Bottom: 09:33 12/12

Gas Volume Report

1st Open					
Time	Orifice	PSI	MCF/D		Time

2nd Open							
Time Orifice PSI MCF/D							



Uploading recovery &

pressures

Company: RJM Oil Company, Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

12 2019

DST #3 Formation: Arbuckle

Test Interval: 3298 -

Total Depth: 3331'

3331'

Time On: 21:10 12/12

Time Off: 03:47 12/13

Time On Bottom: 22:54 12/12 Time Off Bottom: 01:54 12/13

Electronic Volume Estimate:

11'

1st Open Minutes: 45 Current Reading: 1.2" at 45 min

Max Reading: 1.3"

1st Close Minutes: 45 Current Reading: 0" at 45 min

Max Reading: 0"

Current Reading: 0" at 45 min

2nd Open

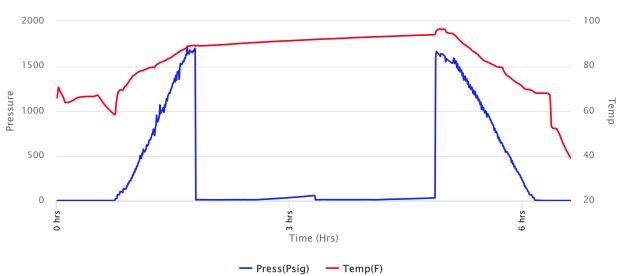
Minutes: 45

Max Reading: 0"

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

Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: RJM Oil Company, Inc

Formation: Arbuckle

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

December 12

2019

DST #3

Test Interval: 3298 -

Total Depth: 3331'

3331'

Time On: 21:10 12/12 Time Off: 03:47 12/13

Time On Bottom: 22:54 12/12 Time Off Bottom: 01:54 12/13

Recovered

<u>Foot</u> **BBLS** 3 0.04269 **Description of Fluid HMCO**

Gas % 0

Oil % 63

Water % 0

Mud % 37

Total Recovered: 3 ft

Total Barrels Recovered: 0.04269

NO

%

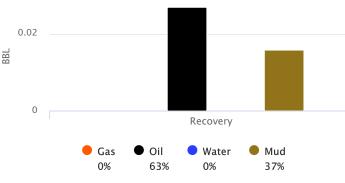
Initial Hydrostatic Pressure	1666	PSI
Initial Flow	10 to 10	PSI
Initial Closed in Pressure	58	PSI
Final Flow Pressure	10 to 11	PSI
Final Closed in Pressure	31	PSI
Final Hydrostatic Pressure	1663	PSI
Temperature	95	°F

48.0

Pressure Change Initial Close / Final Close

Reversed Out

Recovery at a glance



GIP cubic foot volume: 0



Uploading recovery &

pressures

Company: RJM Oil Company,

Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

December 12 2019

DST #3 Formation: Arbuckle Test Interval: 3298 - Total Depth: 3331'

3331'

Time On: 21:10 12/12 Time Off: 03:47 12/13
Time On Bottom: 22:54 12/12 Time Off Bottom: 01:54 12/13

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: Surface blow building to 1 1/4"

1st Close: No BB

2nd Open: Very weak surface blow lasting 8 min.

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 28% Oil 0% Water 72% Mud



SEC: 13 TWN: 15S RNG: 14W County: RUSSELL State: Kansas Drilling Contractor: Southwind Drilling, Inc - Rig 3 Elevation: 1879 GL

Operation: Uploading recovery & pressures

Lease: Krug "G" #2

Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE December

12 2019

DST #3 Total Depth: 3331' Formation: Arbuckle Test Interval: 3298 -3331'

Time Off: 03:47 12/13 Time On: 21:10 12/12 Time On Bottom: 22:54 12/12 Time Off Bottom: 01:54 12/13

Down Hole Makeup

Heads Up: 16.45 FT Packer 1: 3293 FT

Drill Pipe: 3289.29 FT Packer 2: 3298 FT

ID-3 1/2 Top Recorder: 3285 FT

Weight Pipe: 0 FT **Bottom Recorder:** 3300 FT ID-2 7/8

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

Surface Choke: ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 26.16 FT

ID-3 1/2-FH

Total Anchor: 33

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): 32 FT

4 1/2-FH

Operation:

Company: RJM Oil Company,

Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1879 GL Field Name: Trapp

Pool: Infield



Job Number: 425 API #: 15-167-24099-00-00

DATE December 12

2019

Test Interval: 3298 -DST#3 Formation: Arbuckle Total Depth: 3331' 3331'

Time On: 21:10 12/12 Time Off: 03:47 12/13 Time On Bottom: 22:54 12/12 Time Off Bottom: 01:54 12/13

Mud Properties

Mud Type: Chemical Weight: 9.5 Viscosity: 48 Filtrate: 8.8 Chlorides: 6,000 ppm



Company: RJM Oil Company,

Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

Operation: Uploading recovery & pressures

DATE
December
12
2019

DST #3 Formation: Arbuckle Test Interval: 3298 - Total Depth: 3331'

Time On: 21:10 12/12 Time Off: 03:47 12/13
Time On Bottom: 22:54 12/12 Time Off Bottom: 01:54 12/13

Gas Volume Report

Time	Orifice	PSI	MCF/D	T

2nd Open					
Time	Orifice	PSI	MCF/D		



Uploading recovery &

pressures

Company: RJM Oil Company, Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

December 13 2019

Formation: Arbuckle

Time On: 09:48 12/13

Test Interval: 3297 -3337'

Total Depth: 3337'

Time Off: 17:43 12/13

Time On Bottom: 11:52 12/13 Time Off Bottom: 15:22 12/13

Electronic Volume Estimate:

205'

1st Open Minutes: 45 **Current Reading:** 11.4" at 45 min

DST #4

Max Reading: 11.4"

1st Close Minutes: 45 **Current Reading:**

0" at 45 min

Max Reading: 0"

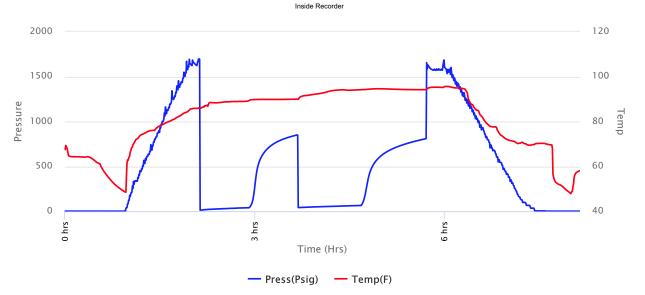
2nd Open Minutes: 60 Current Reading: 12.7" at 60 min

Max Reading: 12.7"

2nd Close Minutes: 60 Current Reading:

0" at 60 min

Max Reading: 0"





Uploading recovery &

pressures

Company: RJM Oil Company, Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE

13 2019

DST #4 Formation: Arbuckle

Test Interval: 3297 - 3337'

Total Depth: 3337'

Time On: 09:48 12/13

Time Off: 17:43 12/13

Time On Bottom: 11:52 12/13 Time Off Bottom: 15:22 12/13

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid
120	1.7076	G
95	1.35185	0
40	0.5692	HOCM

Gas %	<u>Oil %</u>	<u>Water %</u>	Mud %
100	0	0	0
0	100	0	0
0	43	0	57

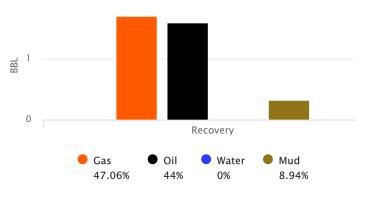
Total Recovered: 255 ft

Total Barrels Recovered: 3.62865

eversed Out	ı
NO	ı

Initial Hydrostatic Pressure	1623	PSI
Initial Flow	12 to 43	PSI
Initial Closed in Pressure	851	PSI
Final Flow Pressure	41 to 64	PSI
Final Closed in Pressure	809	PSI
Final Hydrostatic Pressure	1622	PSI
Temperature	95	°F
Pressure Change Initial	4.9	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 9.58732



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pressures

Company: RJM Oil Company,

Inc Lease: Krug "G" #2 SEC: 13 TWN: 15S RNG: 14W

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13 2019

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3337'

Time On: 09:48 12/13 Time Off: 17:43 12/13 Time On Bottom: 11:52 12/13 Time Off Bottom: 15:22 12/13

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1/4" blow building to BOB 41 1/2 min.

1st Close: Surface BB

2nd Open: 1" blow building to BOB 43 1/2 min.

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 63% Oil 0% Water 37% Mud

Gravity: 35.6 @ 60 °F



SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL

Operation:
Uploading recovery &
pressures

Lease: Krug "G" #2

Field Name: Trapp Pool: Infield Job Number: 425

API#: 15-167-24099-00-00

DATE December

13 2019

DST #4 Formation: Arbuckle Test Interval: 3297 - Total Depth: 3337'

Time On: 09:48 12/13 Time Off: 17:43 12/13 Time On Bottom: 11:52 12/13 Time Off Bottom: 15:22 12/13

Down Hole Makeup

Heads Up: 17.55 FT **Packer 1:** 3292 FT

Drill Pipe: 3289.39 FT **Packer 2:** 3297 FT

ID-3 1/2 **Top Recorder:** 3284 FT

Weight Pipe: 0 FT Bottom Recorder: 3303 FT

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

ID-2 1/4 Surface Choke: 1"

Test Tool: 26.16 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Total Anchor: 40

Anchor Makeup
Packer Sub: 1 FT

Perforations: (top): 4 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): 35 FT

4 1/2-FH

PESTING WE

Operation:

Company: RJM Oil Company, Inc

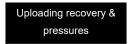
Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1879 GL Field Name: Trapp Pool: Infield



Job Number: 425 API #: 15-167-24099-00-00

DATEDecember

13 2019

DST #4 Formation: Arbuckle Test Interval: 3297 - Total Depth: 3337'

Time On: 09:48 12/13 Time Off: 17:43 12/13 Time On Bottom: 11:52 12/13 Time Off Bottom: 15:22 12/13

Mud Properties

Mud Type: Chemical Weight: 9.5 Viscosity: 52 Filtrate: 10.8 Chlorides: 8,000 ppm



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Company: RJM Oil Company, Inc

Lease: Krug "G" #2

SEC: 13 TWN: 15S RNG: 14W

County: RUSSELL State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1879 GL Field Name: Trapp Pool: Infield Job Number: 425

API #: 15-167-24099-00-00

DATE
December
13
2019

DST #4 Formation: Arbuckle Test Interval: 3297 - Total Depth: 3337'

Time On: 09:48 12/13 Time Off: 17:43 12/13

Time On Bottom: 11:52 12/13 Time Off Bottom: 15:22 12/13

Gas Volume Report

	1st Op	en			
Time	Orifice	PSI	MCF/D	Time	Or

2nd Open					
Time	Orifice	PSI	MCF/D		

NOTES

Company: RJM COMPANY

Lease: KRUG G #2

Field:Trapp

Location: NW-SW--NE(2250'FNL & 1170'FEL)

Sec:<u>13</u> Twsp:<u>15S</u> Rge:<u>14W</u>

County: Russell State: Kansas

KB:1888' GL:1879'

Contractor: Southwind Drilling, Inc. (Rig #3)

Spud:<u>12-4-2019</u> Comp:<u>12-13-2019</u>

RTD:3337'

Mud Up: 2200' Type Mud: Chemical

Samples Saved From: <u>2300' to RTD</u>
Drilling Time Kept From: <u>2300' to RTD</u>
Samples Examined From: <u>2300' to RTD</u>
Geological Supervision from: <u>2300' to RTD</u>

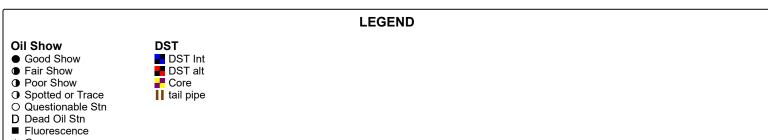
Geologist on Well: Jim musgrove (2300 -3300) & Wyatt Urban (3300-RTD)

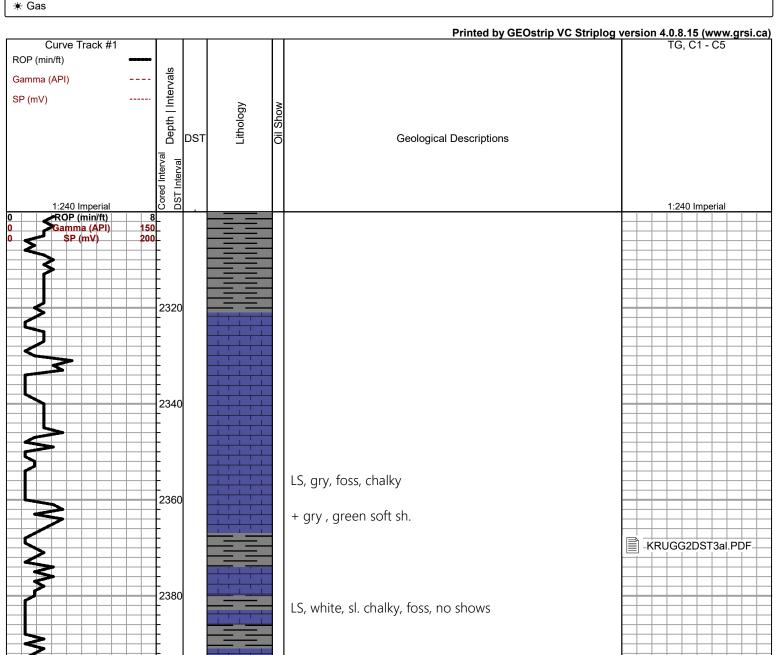
Surface Casing: <u>8 5/8@ 400'</u> Production Casing: <u>5 1/2" @ 3335'</u>

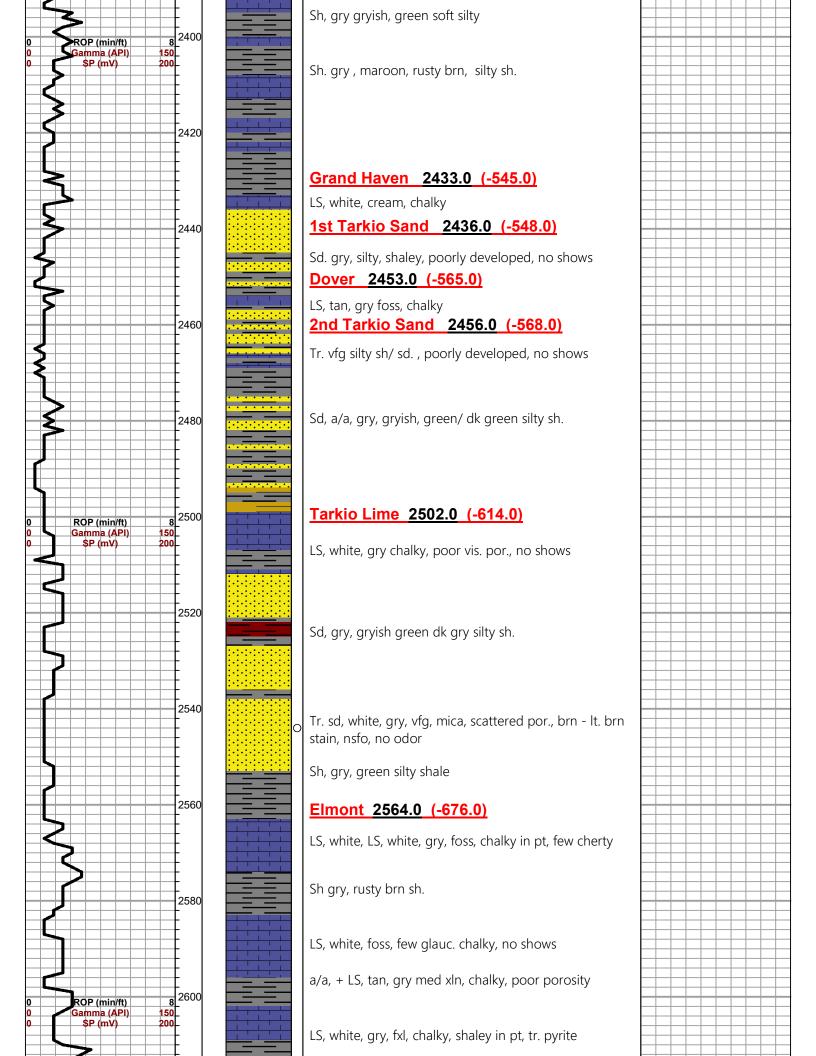
Electronic Surveys: None

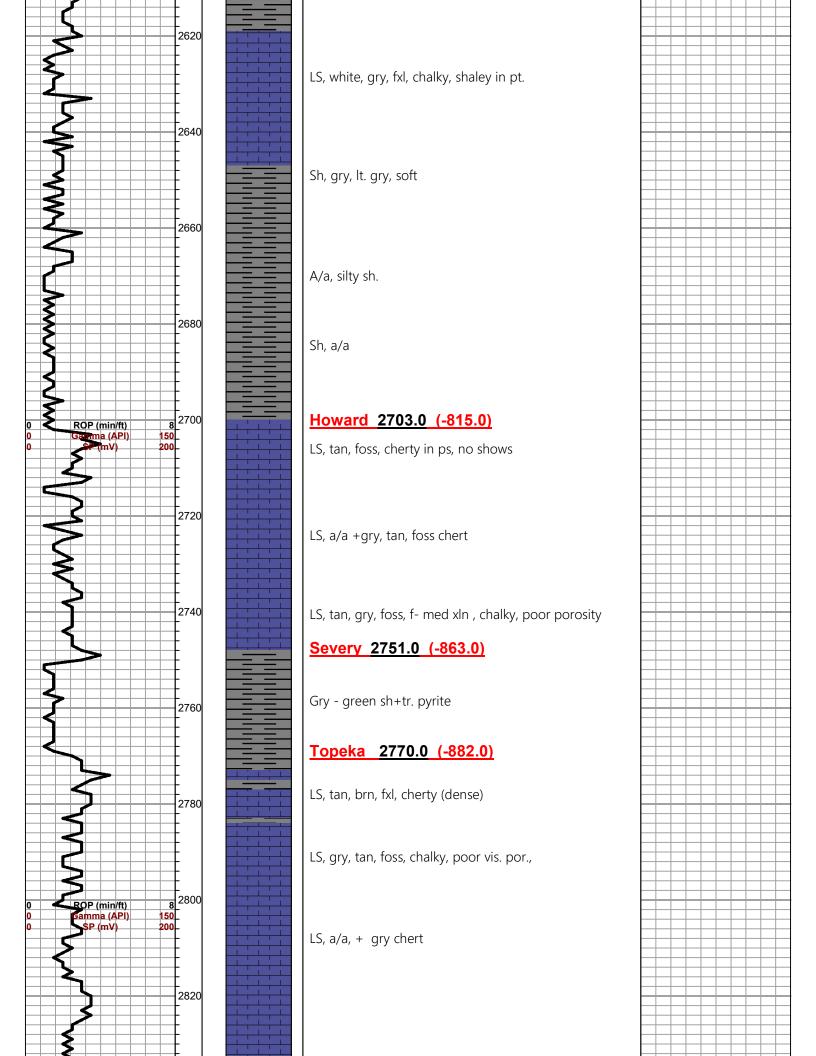
1	E.						
A STATE OF THE STA		DRILLING	OIL				
		RJM CO.		CITIES	SERVIC	E OIL	co.
		KRUG 'G' #2			KRUG 'F'#5	į.	
A THE WAY	13-1	S-14W (2290 FNL &1170	D FEL)	13-155-	14W (760' FNL	& 1420' F	EL)
OIL COMPANY THE	кв 1888	GL	1879	КВ		1886	
	LOG	SAMPL	.E	LO	G	S	MPL.
FORMATION	DEPTH DATUM	1 DEPTH 2	DATUM3	DEPTH	DATUM4	<u>0</u>	structure
ANHYDRITE TOP		865	1023	862	1024	1,000	1
ANHYDRITE BASE		891	997	884	1002	-5	5
GRAND HAVEN		2433	-545	2432	-546	**	1
TARKIO SD. 1st		2436	-548	2438	-552	+	4
DOVER		2453	-565	2451	-565	+	0
TARKIO SD. 2nd		2456	-568	2458	-572	*	4
TARKIO LIME		2502	-614	2501	-615	+	1
ELMONT		2564	-676	2564	-678	+	2
HOWARD		2703	-815	2704	-818	+	3
SEVERY Sh.		2751	-863	2754	-868	+	5
TOPEKA		2770	-882	2773	-887	+	5
parties that it esti-		(page 15 th a page 1	(A)	(I) See to delive to the control of	Agray and the		322

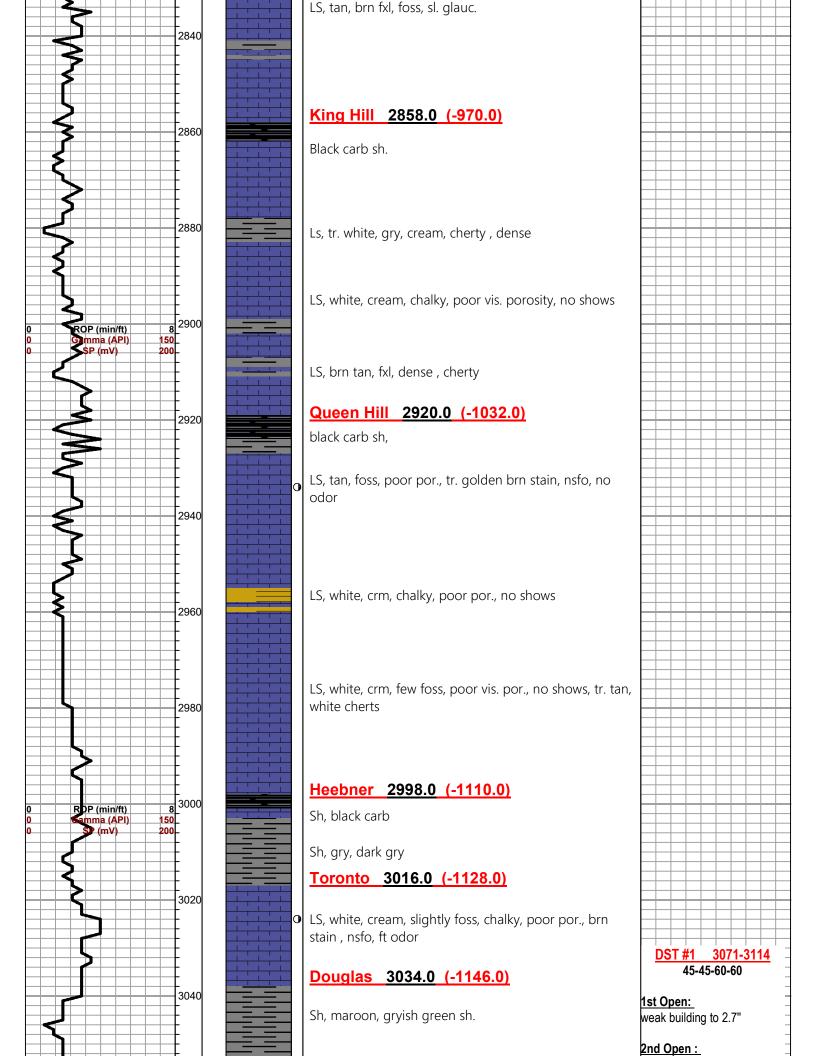
KING HILL Sh.	2858	-970	2858	-972	+	2
QUEEN HILL Sh.	2920	-1032	2922	-1036	+	4
PLATTSMOUTH	2939	-1051	2940	-1054	+	3
HEEBNER	2998	-1110	3004	-1118	+	8
TORONTO	3016	-1128	3019	-1133		5
DOUGLAS	3034	-1146	3035	-1149	-2 .	3
LANSING	3066	-1178	3070	-1184	: 4)	6
BASE KC.	3316	-1428	3320	-1434	5 + 3	6
ARBUCKLE	3320	-1432	3324	-1438	+	6
RTD	3337	-1449	3345	-1459	+	10

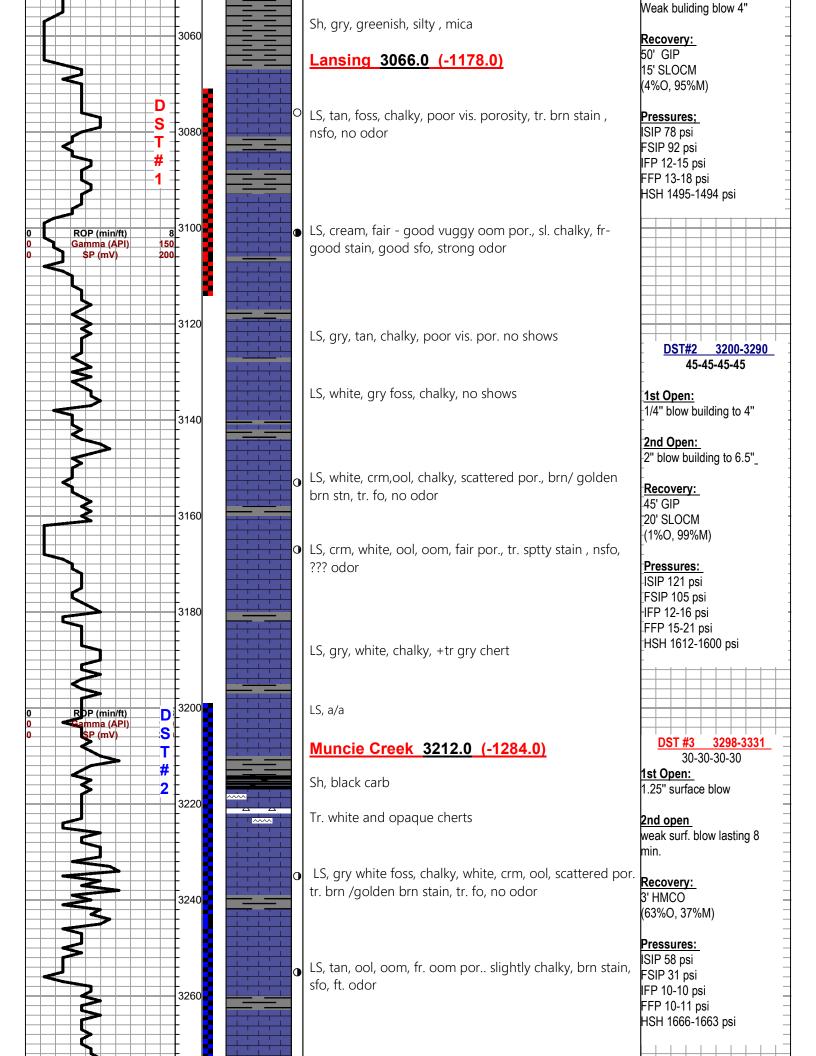


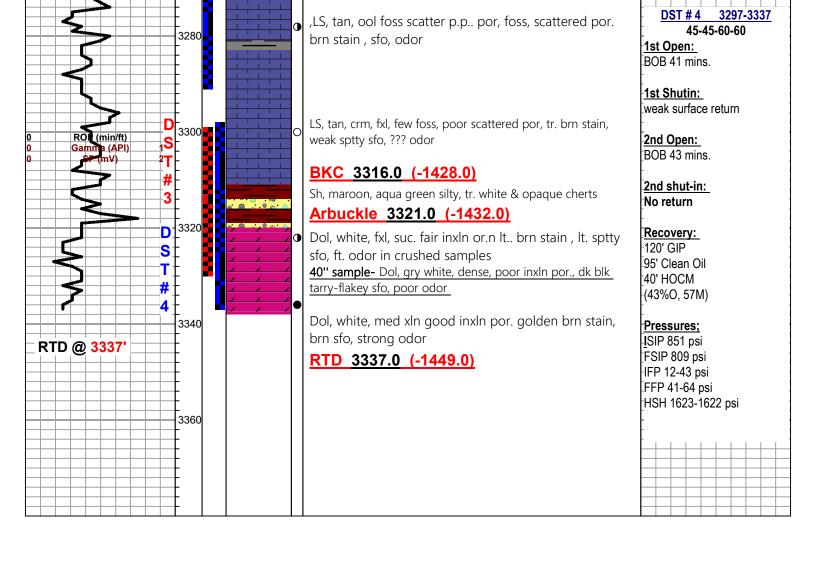












QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Cell 785-324-1041 Home Office P.O. Box 32 Russell, KS 67665

No. 1905

Sec.	Twp.	Range	~	County	State	On Location	Finish
Date /2-12)-19 13	15	14)	N/	53 811	K5		5. Copins
			Location	on 188511	5 Winterset A	1/20 Y	WWW WIN
Lease Krua G.		Well No. 2		Owner	·		
Contractor Southwind # 3				To Quality O	ilwell Cementing, Inc. by requested to rent of	cementina equipmo	ent and furnish
Type Job Production String				cementer an	d helper to assist own		
Hole Size > 7/8	T.D.	3337		Charge K	, J. m.		· · · · · · · · · · · · · · · · · · ·
Csg. 5 /Z	Depth	3326		Street			
Tbg. Size	Depth	-		City		State	
Tool	Depth			The above wa	s done to satisfaction ar	nd supervision of owr	ter agent or contractor.
Cement Left in Csg. 21.13	Shoe J	loint 21, 13	*	Cement Amo	ount Ordered 180 2	on 10/50/	<u>'+ - </u>
Meas Line	Displac	ce 76'bB		5/4/8	with 500 gal	med Allar	1
EQUIP				Common /	30		:
Pumptrk / / Helper	0'J			Poz. Mix			
Buiktrk No. Driver Day				Gel.			:
Bulktrk / No. Driver / Driver / Cry	2			Calcium		· · · · · · · · · · · · · · · · · · ·	
JOB SERVICES	& REMA	ARKS		Hulls			
Remarks:	· · · · · · · · · · · · · · · · · · ·			Salt /6			
Rat Hole 30 SIC				Flowseal	//		·
Mouse Hole				Kol-Seal 9	00 #		
Centralizers				Mud CLR 48	500 0	L .	
Baskets				CFL-117 or (CD110 CAF 38		
D/V or Port Collar	7		· · · · ·	Sand			
5/2 Set 0 3324 7	Salf (7 3304.	, č.	Handling	7		
Est Considerion Pin	A 500	200 mod C	lear :	Mileage		and the state of t	
Dha Rattole york	305K	Cement	1 10 2 12 2		FLOAT EQUIPMI	<u>ENT</u>	34,
5 1/2 with 150sk	Clear	lines to	4.5.2	Guide Shoe	The second second		
Displace Phy to	#		• •	Centralizer	9		
Plus Jan 200 - 150	A			Baskets 2			
Litt Pressure - 700	At .	The second	1357	AFU Inserts		graden i	
	,			Float-Shoe			
The second section of the second seco		13 1989	H	Latch Down	1 64 84 87		_ #18
		· .	•		2)2		
	e disting		0.000 S#	to profit			
Section 2				Pumptrk Cha	arge Proust	ring	
			,	Mileage / 3		- U	
			·			Ta	ax
A	·					Discou	nt
Signature ()	7 0					Total Charg	ie

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 antiounts invoiced at a rate of 18 percent per annum until paid, Notwith-standing 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, with be charged to and paid by CUSTOMER.
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- 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 furfishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross fiegligence 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 landing 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 resulfs 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, of 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.

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

Phone 785-483-1071 Cell 785-324-1041

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

No. 1900

		!	Sec.	Twp.	Range	0	County	State	On Location	Finish
Date	/2・シー/	9/	13	15	14	Kus	501	KS		3:15Am
						Location	on Rissell	S Winterset	A) 11/25 4	20
Lease	Krua	<u> </u>	5		Well No. 2		Owner			
Contractor Southy (W) #3							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish			
Type Job Synface							cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 12/4 T.D. 422							Charge R. 5-M			
Csg. 8 9/8 Depth 4/2/							Street			
Tbg. S	Гbg. Size Depth						City State			
Tool Depth							The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. /5 Shoe Joint							Cement Amount Ordered 90 6/46 4/.CL 3-1-CEL			
Meas Line Displace 25 1/2 BZ							۰. و			
EQUIPMENT							Common	75		
Pumpt	rk 20	Cement Helper		119			Poz. Mix	75	18181	
Bulktrk	(Driver Driver	lin	1			Gelخ			
Bulktrk	3 No.	Driver Z	anc	6			Calcium 9	?		
JOB SERVICES & REMARKS							Hulls	· · · · · · · · · · · · · · · · · · ·		
Remarks:							Salt			
Rat Hole							Flowseal			
Mouse Hole							Kol-Seal	· •	***	·
Centralizers							Mud CLR 48			
Baskets							CFL-117 or CD110 CAF 38			
D/V or Port Collar							Sand			
85/8 on bortom. Est. Circulation						и	Handling 202			
MIX 1905K & DISPLACE							Mileage			
							FLOAT EQUIPMENT \$ 5/8 Surage			
Coment instance							Guide Shoe	The second s		
							Centralizer			
							Baskets			
							AFU Inserts			
							Float Shoe		uu yhene ee 2	
1 210							Latch Down		The second secon	
11/4"										
		-		7	* * *** * * * * * * * * * * * * * * *					
							Pumptrk Charge Surface			
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A									Discount	
Signature Wy Mico							,		Total Charge	
	00	,					•			

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- (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 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.
- 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 landing 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.