KOLAR Document ID: 1541029

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 #			
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)		
Wellsite Geologist:			
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover	Field Name:		
☐ Oil ☐ WSW ☐ SWD	Producing Formation:		
Gas DH EOR	Elevation: Ground: Kelly Bushing:		
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:		
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet		
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No		
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet		
Operator:	If Alternate II completion, cement circulated from:		
Well Name:	feet depth to:w/sx cmt.		
Original Comp. Date: Original Total Depth:	_		
□ Deepening       □ Re-perf.       □ Conv. to EOR       □ Conv. to SWD         □ Plug Back       □ Liner       □ Conv. to GSW       □ Conv. to Produce	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)		
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls		
☐ Commingled     Permit #:	Dewatering method used:		
SWD Permit #:	Location of fluid disposal if hauled offsite:		
EOR Permit #:			
GSW Permit #:	Operator Name:		
	Lease Name: License #:		
Spud Date or Date Reached TD Completion Date or	- 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 Approved by: Date:			

KOLAR Document ID: 1541029

#### 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	Hoffman, Chris dba C & K Oil Company
Well Name	HELLER 10
Doc ID	1541029

### 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	390	60/40	180	4%cc2%g el



Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

Operation:

Uploading recovery & pressures

DATE

November

**24** 2020

DST #1 Formation: Lan A-F

Test Interval: 2986 -

Total Depth: 3088'

3088'

Time On: 13:33 11/24 Time Off: 20:10 11/24

Time On Bottom: 15:05 11/24 Time Off Bottom: 17:50 11/24

Electronic Volume Estimate:

N/A

1st Open Minutes: 30 Current Reading:

380" at 30 min

Max Reading: 380"

1st Close Minutes: 45 Current Reading:

2" at 45 min

Max Reading: 4"

2nd Open Minutes: 45 Current Reading:

380" at 45 min

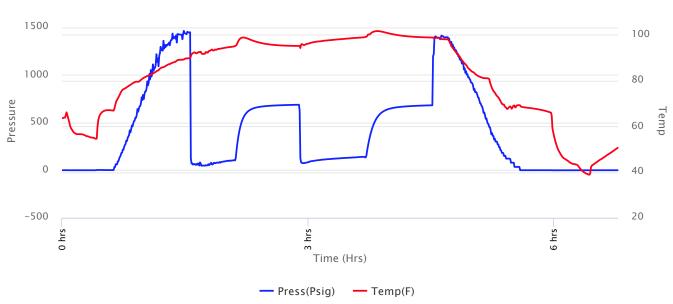
Max Reading: 380"

2nd Close Minutes: 45 Current Reading:

17" at 45 min

Max Reading: 34"

Inside Recorder





Uploading recovery &

pressures

# Company: C & K Oil Company

Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

DATE

November

**24** 2020

DST #1 Formation: Lan A-F

Test Interval: 2986 -

Total Depth: 3088'

3088'

Time On: 13:33 11/24 Time Off: 20:10 11/24

Time On Bottom: 15:05 11/24 Time Off Bottom: 17:50 11/24

#### Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid
2668	37.96564	G
50	0.7115	SLOCSLGCM
126	1.79298	SLWCSLGCM
126	1.79298	SLGCSLWCM

<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
100	0	0	0
10	1	0	89
10	0	5	85
15	0	15	70

Recovery at a glance

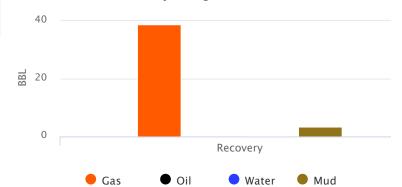
Total Recovered: 2970 ft

Total Barrels Recovered: 42.2631

Reversed Out
NO

Initial Hydrostatic Pressure	1429	PSI
Initial Flow	47 to 102	PSI
Initial Closed in Pressure	688	PSI
Final Flow Pressure	74 to 134	PSI
Final Closed in Pressure	682	PSI
Final Hydrostatic Pressure	1415	PSI
Temperature	102	°F
Pressure Change Initial	0.9	%
Close / Final Close		

	91.06%	0.02%
GIP cubic foot v	olume: 216	.07423



0.85%

8.07%



Lease: Heller #10

DST #1

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1834 GL

Field Name: Kraft-Prusa Pool: Infield Job Number: 462 API #: 15-009-26288

Operation:

Uploading recovery & pressures

**DATE** 

November

**24** 2020

Formation: Lan A-F

Test Interval: 2986 -

Total Depth: 3088'

3088'

Time On: 13:33 11/24 Time Off: 20:10 11/24

Time On Bottom: 15:05 11/24 Time Off Bottom: 17:50 11/24

#### **BUCKET MEASUREMENT:**

1st Open: 6" Blow. BOB in 45 secs

1st Close: 4" Blow Back 2nd Open: BOB Instantly

2nd Close: Bottom Bucket Blow Back

**REMARKS:** 

Ph: 7

Measured RW: .62 @ .47 degrees °F

RW at Formation Temp: 0.041 @ 102 °F

Chlorides: 12000 ppm



Uploading recovery &

pressures

## Company: C & K Oil Company

Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

DATE

November

24

2020

DST #1 Formation: Lan A-F

Test Interval: 2986 -

Total Depth: 3088'

3088'

Time On: 13:33 11/24 Time Off: 20:10 11/24

Time On Bottom: 15:05 11/24 Time Off Bottom: 17:50 11/24

### **Down Hole Makeup**

**Heads Up:** 10.09 FT **Packer 1:** 2980.96 FT

**Drill Pipe:** 2970.89 FT **Packer 2:** 2985.96 FT

ID-3 1/2 Top Recorder: 2972.96 FT

Weight Pipe: FT Bottom Recorder: 1 FT

ID-2 7/8

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:** 102.04

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: .5 FT

**Drill Pipe: (in anchor):** 63.54 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 33 FT

4 1/2-FH



Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

pressures

Operation:

Uploading recovery &

<u>DATE</u> November

24

2020

DST #1 Formation: Lan A-F

Test Interval: 2986 -

Total Depth: 3088'

3088'

Time On: 13:33 11/24 Time Off: 20:10 11/24

Time On Bottom: 15:05 11/24 Time Off Bottom: 17:50 11/24

### **Mud Properties**

Mud Type: Chem Weight: 9.2 Viscosity: 48 Filtrate: 8.8 Chlorides: 2000 ppm



Uploading recovery &

pressures

Time

20

45

### Company: C & K Oil Company

Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

**DATE** November 24 2020

Formation: Lan A-F **DST #1** 

Test Interval: 2986 -

Total Depth: 3088'

3088'

Time On: 13:33 11/24 Time Off: 20:10 11/24

Time On Bottom: 15:05 11/24 Time Off Bottom: 17:50 11/24

### **Gas Volume Report**

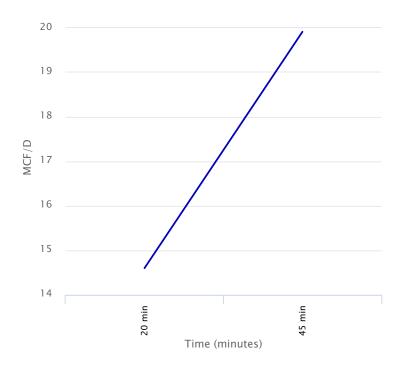
Remarks: Gas to surface 7 mins Caught gas sample 20 mins into first opening.

1st Open

Orifice **PSI** MCF/D 0.125 20 14.6 0.125 32 19.9

2nd Open

Time	Orifice	PSI	MCF/D
14	0.25	11	Weak
25	0.25	17	42.4
35	0.25	17	42.4
45	0.25	16	40.9



MCF/D



Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API#: 15-009-26288

Operation:

Uploading recovery & pressures

> **DATE** November

> > 25 2020

**DST #2** Formation: Lans H-K Test Interval: 3120 -

Total Depth: 3250'

3250'

Time On: 12:54 11/25 Time Off: 19:10 11/25

Time On Bottom: 14:42 11/25 Time Off Bottom: 17:12 11/25

Electronic Volume Estimate:

70'

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

5.5" at 45 min

Max Reading: 5.5"

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

Max Reading: 0"

0" at 45 min

2nd Open Minutes: 30 **Current Reading:** 

3" at 30 min

Max Reading: 3"

2nd Close Minutes: 30 **Current Reading:** 

0" at 30 min

Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

### Company: C & K Oil Company

Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

**DATE** 

November

25 2020 DST #2 Formation: Lans H-K

Test Interval: 3120 -

Total Depth: 3250'

0

3250'

Time On: 12:54 11/25 Time Off: 19:10 11/25

Time On Bottom: 14:42 11/25 Time Off Bottom: 17:12 11/25

0

Recovered

**BBLS Foot** 136 1.93528 **Description of Fluid** Μ

Gas % <u>Oil %</u>

Mud % Water % 100

Total Recovered: 136 ft

Total Barrels Recovered: 1.93528

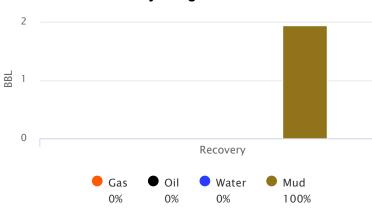
Reversed Out NO

Initial Hydrostatic Pressure	1488	PSI
Initial Flow	11 to 50	PSI
Initial Closed in Pressure	597	PSI
Final Flow Pressure	53 to 77	PSI
Final Closed in Pressure	580	PSI
Final Hydrostatic Pressure	1487	PSI
Temperature	99	°F
Pressure Change Initial	2.9	%

Close / Final Close

Recovery at a glance

0



GIP cubic foot volume: 0



Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1834 GL

Field Name: Kraft-Prusa Pool: Infield Job Number: 462 API #: 15-009-26288

Operation:

Uploading recovery & pressures

<u>DATE</u>

November **25** 

2020

DST #2 Formation: Lans H-K Test Interval: 3120 - Total Depth: 3250'

Time On: 12:54 11/25 Time Off: 19:10 11/25

Time On Bottom: 14:42 11/25 Time Off Bottom: 17:12 11/25

#### **BUCKET MEASUREMENT:**

1st Open: WSB. Built to 5 1/2 inches in 45 mins

1st Close: NOBB

2nd Open: WSB. Built to 3 inches in 30 mins

2nd Close: NOBB

**REMARKS:** 

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

Uploading recovery & pressures

Operation:

**DATE** November

**25** 2020

DST #2 Formation: Lans H-K Tes

Test Interval: 3120 -

Total Depth: 3250'

3250'

Time On: 12:54 11/25 Time Off: 19:10 11/25

Time On Bottom: 14:42 11/25 Time Off Bottom: 17:12 11/25

### **Down Hole Makeup**

**Heads Up:** 33.93 FT **Packer 1:** 3115.16 FT

**Drill Pipe:** 3128.93 FT **Packer 2:** 3120.16 FT

ID-3 1/2

**Top Recorder:** 3107.16 FT

Weight Pipe: FT Bottom Recorder: 3220 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:** 129.84

**Anchor Makeup** 

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: .5 FT

**Drill Pipe: (in anchor):** 95.34 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 32 FT

4 1/2-FH



Uploading recovery &

pressures

# Company: C & K Oil Company

Lease: Heller #10

DST #2

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

Total Depth: 3250'

DATE

November

**25** 2020

Formation: Lans H-K Test Interval: 3120 -

3250'

Time On: 12:54 11/25 Time Off: 19:10 11/25

Time On Bottom: 14:42 11/25 Time Off Bottom: 17:12 11/25

### **Mud Properties**

Mud Type: Chem Weight: 9.2 Viscosity: 46 Filtrate: 8.8 Chlorides: 2500 ppm



Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1834 GL

Field Name: Kraft-Prusa Pool: Infield Job Number: 462 API #: 15-009-26288

2nd Open

Operation:

Uploading recovery & pressures

**DATE** 

November **25** 

2020

DST #2 Formation: Lans H-K

Test Interval: 3120 -

Total Depth: 3250'

3250'

Time On: 12:54 11/25 Time Off: 19:10 11/25

Time On Bottom: 14:42 11/25 Time Off Bottom: 17:12 11/25

### **Gas Volume Report**

1st Open

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



Lease: Heller #10

County: BARTON State: Kansas

SEC: 22 TWN: 17S RNG: 11W

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API#: 15-009-26288

Operation:

Uploading recovery & pressures

> **DATE** November

> > 26 2020

**DST #3** Formation: Arbuckle Test Interval: 3238 -3288'

Total Depth: 3288'

DANGER **H2S Present 200 PPM** 

Time On: 02:37 11/26

Time Off: 09:27 11/26

Time On Bottom: 04:07 11/26 Time Off Bottom: 06:37 11/26

Electronic Volume Estimate: 1926'

1st Open Minutes: 30 **Current Reading:** 202" at 30 min

Max Reading: 202"

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

Max Reading: 0"

2nd Open Minutes: 30 **Current Reading:** 

53.7" at 30 min

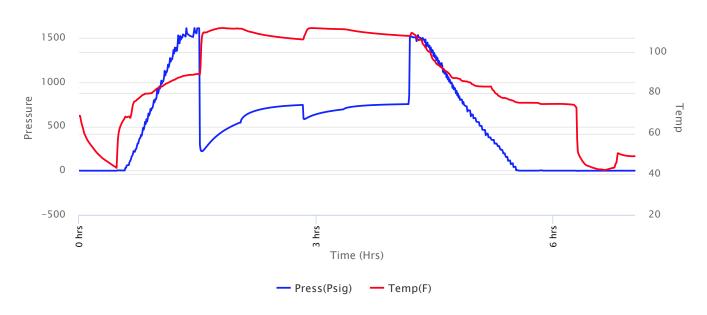
Max Reading: 53.7"

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

0" at 45 min

Max Reading: 0"







Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288

Uploading recovery & pressures

Operation:

DATE November 26 2020 DST #3 Formation: Arbuckle

Test Interval: 3238 - 3288'

Total Depth: 3288'

DANGER
H2S Present
200 PPM

Time On: 02:37 11/26

Time Off: 09:27 11/26

Time On Bottom: 04:07 11/26 Time Off Bottom: 06:37 11/26

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid
31	0.44113	G
283	4.02709	HMCW
945	13.44735	MCW
315	4.48245	SLMCW

Gas %	<u>OII %</u>	<u>vvater %</u>	<u>Mua %</u>
100	0	0	0
0	0	50	50
0	0	80	20
0	0	99	1

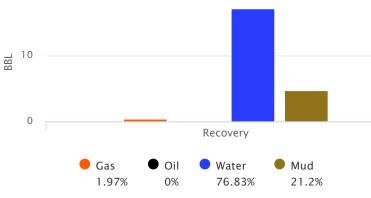
Recovery at a glance

Total Recovered: 1574 ft

Total Barrels Recovered: 22.39802

Reversed Out
NO

Initial Hydrostatic Pressure	1554	PSI
Initial Flow	222 to 544	PSI
Initial Closed in Pressure	745	PSI
Final Flow Pressure	584 to 696	PSI
Final Closed in Pressure	754	PSI
Final Hydrostatic Pressure	1536	PSI
Temperature	112	°F
Pressure Change Initial	0.0	%
Close / Final Close		



GIP cubic foot volume: 2.47672



Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1834 GL

Field Name: Kraft-Prusa Pool: Infield

Pool: Infield Job Number: 462 API #: 15-009-26288

Operation: oading recover

Uploading recovery & pressures

**DATE** November

26

2020

DST #3 Formation: Arbuckle

Test Interval: 3238 -

val: 3238 - Total Depth: 3288'

3288'

Time On: 02:37 11/26 Time Off: 09:27 11/26

Time On Bottom: 04:07 11/26 Time Off Bottom: 06:37 11/26



#### **BUCKET MEASUREMENT:**

Diesel in Bucket

1st Open: 1" Blow. BOB in 1 1/4 mins

1st Close: NOBB

2nd Open: 1 1/4". BOB in 1 1/4 mins

2nd Close: NOBB

**REMARKS:** 

Spilt my water sample

Tool Sample: 0% Gas 0% Oil 98% Water 2% Mud

Max H2S Reading: 200 ppm



Uploading recovery &

### Company: C & K Oil Company

Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API#: 15-009-26288



pressures

**DATE** 

November

26

2020

**DST #3** 

Formation: Arbuckle

Time On: 02:37 11/26

Test Interval: 3238 -

Time Off: 09:27 11/26

3288'

Time On Bottom: 04:07 11/26 Time Off Bottom: 06:37 11/26

### **Down Hole Makeup**

**Heads Up:** 12.3 FT Packer 1: 3232.5 FT

**Drill Pipe:** 3224.64 FT Packer 2: 3237.5 FT

ID-3 1/2

ID-2 7/8

Top Recorder: 3224.5 FT

Weight Pipe: FT **Bottom Recorder:** 3275 FT

Well Bore Size: 7 7/8

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

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

ID-3 1/2-FH

**Total Anchor:** 50.5

**Anchor Makeup** 

0 FT

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 31 75 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 14 FT

4 1/2-FH



Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462

API #: 15-009-26288

Total Depth: 3288'

DANGER **H2S Present** 

200 PPM

Operation: Uploading recovery & pressures

> **DATE** November

26 2020 **DST #3** Formation: Arbuckle

Time On: 02:37 11/26

Test Interval: 3238 -

3288'

Time Off: 09:27 11/26

Time On Bottom: 04:07 11/26 Time Off Bottom: 06:37 11/26

### **Mud Properties**

Chlorides: 2500 ppm Mud Type: Chem Weight: 9.2 Viscosity: 46 Filtrate: 8.8



Uploading recovery &

pressures

### Company: C & K Oil Company

Lease: Heller #10

SEC: 22 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3 Elevation: 1834 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 462 API #: 15-009-26288



**DATE** November

**26** 2020

DST #3 Formation: Arbuckle Test Interval: 3238 - Total Depth: 3288'

3288'

Time On: 02:37 11/26 Time Off: 09:27 11/26

Time On Bottom: 04:07 11/26 Time Off Bottom: 06:37 11/26

### **Gas Volume Report**

1st Open 2nd Open

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



Scale 1:240 Imperial

Time:

Time:

3:34 PM

4:00 AM

Well Name: HELLER #10 Surface Location: 22-17S-11W

**Bottom Location:** 2270' FSL / 800' FEL API: 15-009-26288-00-00

License Number: 31561

> Spud Date: 2/23/2020

> > **BARTON** Region:

Drilling Completed: 11/26/2020

Surface Coordinates:

**Bottom Hole Coordinates:** 

Ground Elevation: 1834.00ft K.B. Elevation: 1843.00ft

Logged Interval: 2650.00ft To: 3500.00ft

Total Depth: 3288.00ft Formation: LANSING

Drilling Fluid Type: Chemical/Fresh Water Gel

#### LOGGED BY



Company: Musgrove Petroleum, LLC

Address: 212 Main Street

Claflin, KS 67525

Phone Nbr: 620-639-1948

Logged By: Geologist Wyatt Urban Name:

#### **OPERATOR**

Company: C\_K OIL CO. Address: 410 B ST. P.O. BOX 531

**Contact Geologist:** CHRIS HOFFMAN Contact Phone Nbr: 620-587-0150 Well Name: HELLER #10

Location: 22-17S-11W API: 15-009-26288-00-00

Pool:

Field: **KRAFT - PRUSA** 

State: Country: USA Kansas

#### **TOTAL DEPTH**

Measurement Type: Measurement Depth: TVD: **RTD** 3288.00 -1445.00

#### **CONTRACTOR**

Contractor: SOUTHWIND DRILLING, INC.

Rig #:

Rig Type: **MUD ROTARY** 

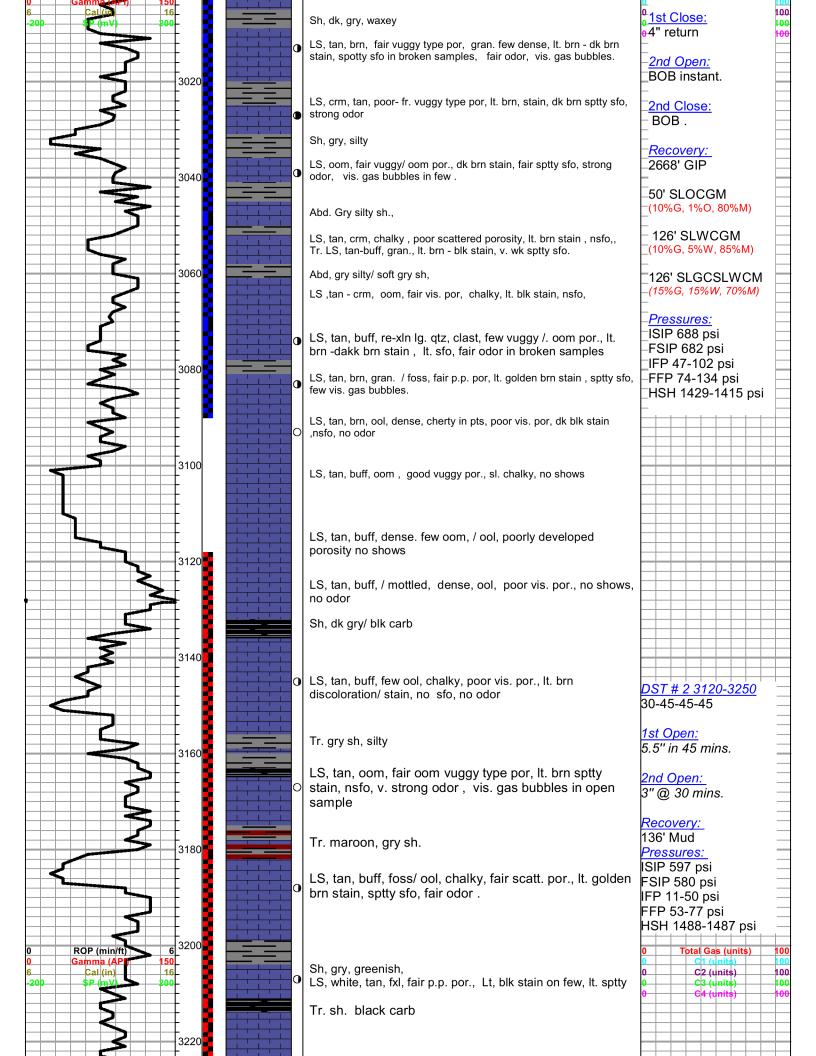
Spud Date: 2/23/2020 Time: 3:34 PM 4:00 AM TD Date: 11/26/2020 Time: Rig Release: 11/30/2020 Time: 12:00 AM

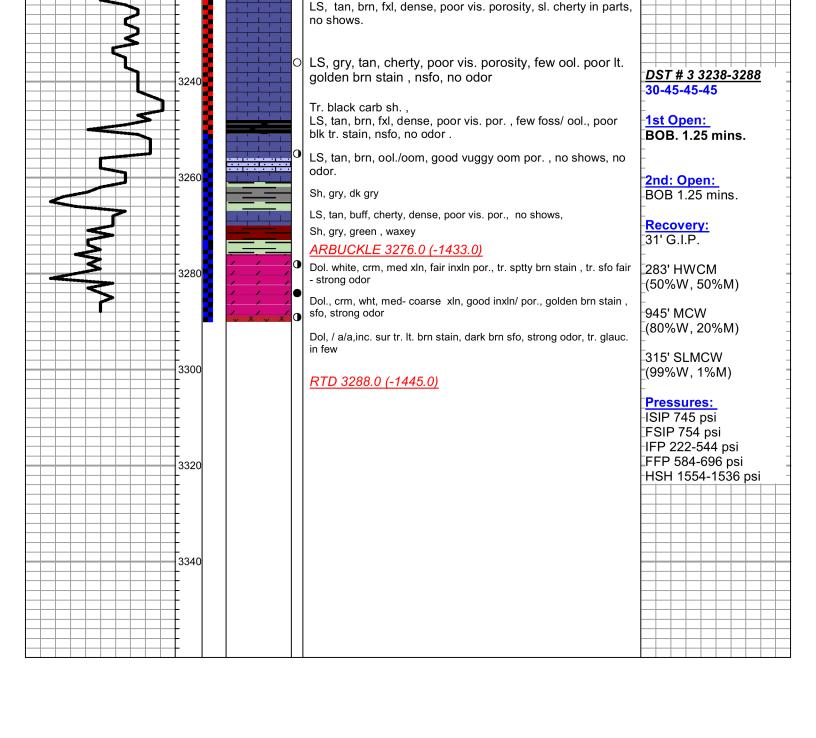
#### **ROCK TYPES** Dolprim Lmst fw<7 shale, gry shale, red sdy Imst shale, grn Carbon Sh Ss **OTHER SYMBOLS** Oil Show DST B DST Int Good Show DST alt Fair Show Core Poor Show O Spotted or Trace II tail pipe O Questionable Stn D Dead Oil Stn ■ Fluorescence **☀** Gas Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca) Curve Track #1 TG, C1 - C5 ROP (min/ft) Total Gas (units) Depth | Intervals Gamma (API) C1 (units) Cal (in) C2 (units) Lithology SP (mV) C3 (units) DST **Geological Descriptions** C4 (units) Cored Interval DST Interval 1:240 Imperial 1:240 Imperial (min/ft) Total Gas (units) C2 (units) 100 C3 (units) 100 2660 LS, tan, gry, few foss, dense .poor vis. porosity, dark brn - blk stain/ discoloration, nsfo, no odor 2680 LS, gry, tan, few foss, poor vis. por., dense, nsfo, no odor, tr. abd, gry, waxey, sh. 2700 LS, tan, brn, fxl, dense, poor vis. por., tr. white foss, LS, gran. fair vis. por, nsfo, no odor 2720 LS, brn, fxl, cherty poor vis. porosity, no shows + tr. vfg sd. KINGHILL 2730.0 (-887.0) Sh, black carb 2740 LS, white, gran. fair scatt por, few chalky, no shows no odor 2760 LS, gry, foss/ ool, fair por., tr. dk blk stain on few, no shows,

LS, white, foss, poorly developed por, dense, tr. brn sptty stain, nsfo,

2780

	-		tr. pyrite, & rew orange chert	
	+			
	İ			
	+ 1			
	İ l			
	+		QUEEN HILL 2799.0 (-956.0)	
0 ROP (min/ft) 6	2800			0 Total Gas (units) 100
0 Gamma (API) 150				0 C1 (units) 100
6 (in) 16			Sh, black carb	0 C2 (units) 100 0 C3 (units) 100
	Ŧ			0 C4 (units) 100
	† l		LS, gry, tan, foss, dense, poor vis. por., dense no shows	
	Į l		Lo, gry, tarr, ross, derise, poor vis. por., derise no snows	
	12020		10 to any for each way it has authorize wafe as adam	
	2820		LS, tan, gry, foss, scatt. por., It. brn, sptty stain , nsfo, no odor	
	+			
	Į l			
	+		PLATTSMOUTH 2829.0 (-986.0)	
	Į l			
	+ 1	0	LS, tan,/ brn, few foss, scatt. p.p. por., sl. chalky, tr. brn/ dk brn stain	
	2840		(dead in app.) / flakey , nsfo, no odor	
	+ 1			
	Į l			
	t l		LS, gry, dense, poor p.p. type/ scatt. por, sl. chalky in pts, no	
	Į l		shows+ white & opaque chert	
	t l			
	Į l			
	2860		LS, tan, gry, gran, good vuggy por, chalky in pts, no shows no odor	
	Į			
	+		LS, tan, buff, mottled, fair p.p scatt. por, nsfo, tr. pyrite,	
	Į	0	LS, a/a tr. dk blk sfo floating in sample	
	+		LS, a/a tr. dk bik sio iloating in sample	
	‡			
	+		LS, buff, tan, dense/ cherty in part, no shows no odor	
	2880			
	+		HEEBNER 2883.0 (-1040.0)	
	‡		Sh., black carb	
	+			
	‡		TORONTO 2894.0 (-1056.0)	
	+ 1		LS, white, tan, foss, dense, poor vis. por. tr. lt. brn stain, nsfo, no	
	2900		odor	
	+	*	(1) LS, white chalky, p.p scatt. por., dk blk stain , heavy dark sfo ,	
	İ		no odor	
	+			
	‡			
	+		DOUGLAS 2910.0 (-1071.0)	
	‡			
	2920		Sh, gry, maroon, greenish gry, silty	
	‡			
	+	· · · · · · · · · · ·		
	Į l	<u>· · <u>· · · · ·</u> · ·</u>		
	+	· · · · · · · · · · · · · · · · · · ·		
	Į l			
	12040	O	ASh, a/a, Tr. sd,. white, clr, med grain, poorly sorted, dk brn sptty	
	2940		stain , nsfo, no odor	
	+			
	Į l			
	+	1-1-1-1-1-1-1-1-1		
	Į l	· . · . · . · . · . · . · . ·		
	+	<u> </u>	Sh, gry, dk gry- blk , silty soft, tr. sd. white, clr, sub rounded, fair	
	2960		sorted, friable, dk blk stain, nsfo, no odor	
<b>                                     </b>	+ 1			
	Į l			
	+		Sh, a/a	
	Į l			
	+			
<b>&gt;</b>	Į			
	2980		DDOM/N I IME 2000 0 / 4440 0)	
	‡		<u>BROWN LIME 2983.0 (-1140.0)</u>	
	+		LS, brn, fxl, dense, poor vis. por. cherty in pt./,	DOT#4 0000 0000
	Į 🥫			<u>DST#1 2986-3088</u>
	+ 📙			<u>30-45-45-45</u>
	ļ 📕		LANSING 2998.0 (-1155.0)	E
	+			_ <u>1st Open:</u>
0 ROP (1931)(11) 6	3000	0	LS, brn ,tan, mottled poor vis. por, lt. sptty stain nsfo, no odor	oBOB 45 sec.
0 0 450				100





# 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. 2078

	Sec.	Twp.	Range		County	State	On Loc	ation	Finish		
Date 11/21/2020	22	17	11	Box	ton	Kansas			121,45an		
		_	•		on Claffi	n 2Nto 1301	Rd (E	13N			
Lease Heller			Well No. 10		Owner						
Contractor Southwill	nol 1	Rig 3			To Quality Oilwell Cementing, Inc.						
Type Job Surface	)				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size 121/4		T.D.	390,2		Charge 6 4 16 0 1						
Csg. 8 5/8		Depth	390'		Street						
Tbg. Size		Depth			City		State				
Tool		Depth				s done to satisfaction an					
Cement Left in Csg. 15	mayap sh	Shoe J	oint 15		Cement Amo	unt Ordered 180 6	240 4%	CC 2'	10901		
Meas Line		Displac	e 23.5								
	EQUIPM	IENT			Common//	0					
Pumptrk / 6 Helpe		m			Poz. Mix 2	70					
Bulktrk 15 No. Driver	100	n			Gel. 3						
Bulktrk Pu No. Driver	Davi	d			Calcium 8						
JOB SE	RVICES	& REMA	RKS		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						
				, in	Handling 191						
Ran 85/8	6950	ine.	and		Mileage						
Ran 85/8 est. Circ	ulati	00				FLOAT EQUIPME	NT	19 mm			
Cementeo	Lw	th	180 sks		Guide Shoe	THE STATE OF THE S					
					Centralizer						
					Baskets						
	W .a	er Ale.	N or clear or	89	AFU Inserts						
					Float Shoe						
		all and the second			Latch Down						
							,				
		A TOTAL		S. Little							
					Pumptrk Charge Surface						
Cement 1	Did	Circ	ulare		Mileage 30						
								Tax			
	1 0	^			i	165		Discount			
X Signature	1	Ra	eco		Th	aNKS	Total	Charge	r		
CV CV	0	1									

# 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. 2138

		wyer .		T			1	T .			
- 1/ - /	Sec.	Twp.	Range	D	County	State	On Location	Finish			
Date //-26-20	82	117	) )	Dar	ton	KS	3/	3,45			
				Locati	on Catlin	20 /E	120 Winto	1			
Lease Hell	15		Well No. 10		Owner						
Contractor Southwa	404	3			To Quality Oil  You are hereb	well Cementing, Ind	c. t cementing equipment	t and furnish			
Type Job Kotary P	lug				cementer and	helper to assist ow	ner or contractor to do	work as listed.			
Hole Size >7/8		T.D.	3288		Charge To + K O: 1 company						
Csg.		Depth			Street						
Tbg. Size		Depth			City		State				
Tool		Depth			The above was	done to satisfaction a	and supervision of owner	agent or contractor.			
Cement Left in Csg.	PORTE VI	Shoe J	oint	Later Sales	Cement Amou	int Ordered 220	100/40 41.4EZ	1/4#170			
Meas Line		Displac	e								
	EQUIPA				Common /3	2	:				
Pumptrk 20 No. Ceme Helpe	r	aig.			Poz. Mix &	8					
Bulktrk Driver		12			Gel.						
Bulktrk / 4 No. Driver	Tony	/			Calcium						
	RVICES		RKS		Hulls						
Remarks:					Salt						
Rat Hole 305K					Flowseal 50#						
Mouse Hole					Kol-Seal						
Centralizers					Mud CLR 48						
Baskets					CFL-117 or CD110 CAF 38						
D/V or Port Collar		- Wales			Sand						
	57	TSK		1	Handling 22	Ø					
15 3255 200 250	50	SK			Mileage						
3ª 425	THE REAL PROPERTY.				TVIIICago	FLOAT EQUIPM	IENT 65/61)	1 Holopha			
4 HD'	1051	,	A THE STATE OF THE	9,	Guide Shoe	TEORI EGON N	0 /8 11)	Marchia			
7	1000			ALC: N	Centralizer						
					Baskets						
		amaning			AFU Inserts						
	44	E LOS			Float Shoe						
			100		Latch Down						
		September 1									
	34										
		View of the last			Pumptrk Charg	ge plug					
					Mileage 30		Tax				
		<del> </del>				11 6					
X A	11				/h an	KJ	Discount				
Signature May	· Na	11			7/10		Total Charge				
					6						