KOLAR Document ID: 1613028

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: 1613028

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery, Digital electronic log
	Drill Stem Tests Taken (Attach Additional Sheets) Log Formation (Top), Depth and Datum Sample									
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia reicent Additives	
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Hoffman, Chris dba C & K Oil Company
Well Name	RIEMANN B 4
Doc ID	1613028

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	383	60/40 POZ		4%CC2% gel
Production	7.875	5.5	14	3270	Common	135	10%Salt5 %Gilsonite

OPERATOR

Company: Hoffman, Chris dba CK Oil Company

Address: 410 B Street PO Box 531

Claflin, Kansas 67525

Contact Geologist: Jim Musgrove Contact Phone Nbr: 620-786-0839 Well Name: Riemann B #4

Location: 10-17s-11w SE-NW-SW-SW

API: 15-009-26321-00-00

Pool: Field: Kraft Prusa

State: Kansas Country: USA

Scale 1:240 Imperial

Well Name: Riemann B #4

Surface Location: 10-17s-11w SE-NW-SW-SW

Bottom Location:

API: 15-009-26321-00-00

License Number: 31561

Spud Date: 11/11/2021 Time: 12:00 AM

Region: Barton

Drilling Completed: 11/17/2021 Time: 12:00 AM

Surface Coordinates: 750' FSL & 550' FWL

Bottom Hole Coordinates:

Ground Elevation: 1842.00ft K.B. Elevation: 1852.00ft Logged Interval: 2700.00ft

Logged Interval: 2700.00ft To: 3277.00ft

Total Depth: 0.00ft Formation: Arbuckle

Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude:

Latitude:

N/S Co-ord: 750' FSL E/W Co-ord: 550' FWL

LOGGED BY



Company: James C Musgrove Petroleum LLC

Address: 212 Main Street/PO Box 215

Claflin, KS 67525

Phone Nbr: 620-588-4250 620-786-0839

Logged By: KLG #307 Name: James C Musgrove

CONTRACTOR

Contractor: Southwind Drilling

Rig #: 1

Rig Type: mud rotary

 Spud Date:
 11/11/2021
 Time:
 12:00 AM

 TD Date:
 11/17/2021
 Time:
 12:00 AM

Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1852.00ft Ground Elevation: 1842.00ft

K.B. to Ground: 10.00ft

NOTES

5 1/2" casing was set and cemented on the C&K Oil Company, Riemann 'B' #4.

Respectfully submitted,

well comparison sheet

	RIBMANN 'B' #4 C&K OIL COMPANY SE-NW-SW-SW 10-17S-11W			RIEMANN #1 SIERRA PETROLEUM CO. SW-SW-SW- 10-17s-11w				
	1852	кв			1842	2 KB	Struct Relatio	0.00
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Anhydrite		111	680	1172	679	1163	1	9
Base Anhydrite			708	1144		\$ 1 may 2 - 5		
Heebner		8	2893	-1041	2885	-1043		2
Toronto			2909	-1057	2903	-1061		4
Douglas			2921	-1069	2914	-1072		3
Brown Lime			2992	-1140	2987	-1145		5
Lansing			3006	-1154	3001	-1159		5
Base Kansas City			3243	-1391	3240	-1398		7
Conglomerate			3260	-1408				
Arbuckle			3268	-1416	3266	-1424		8
Rotary Total Depth	-		3277	-1425	3275	-1433		8



Company: C & K Oil Company Lease: Riemann B #4

Operation: Test Complete

SEC: 10 TWN: 17S RNG: 11W

County: BARTON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 Sur Field Name: Kraft-Prusa

Pool: Infield

Job Number: 533

API#: 15-009-26321-00-00

DATE November

16 2021 Formation: Lans A/F

Test Interval: 2996 -

Total Depth: 3091'

3091

Time Off: 09:06 11/16 Time On: 02:31 11/16 Time On Bottom: 04:28 11/16 Time Off Bottom: 07:13 11/16

Electronic Volume Estimate: 2787

1st Open Minutes: 45 Current Reading: 313" at 45 min

DST#1

5.3" at 30 min Max Reading: 5.3"

2nd Open Minutes: 45 Current Reading:

2nd Close Minutes: 45 Current Reading:

Current Reading:

1st Close

Minutes: 30

238" at 45 min

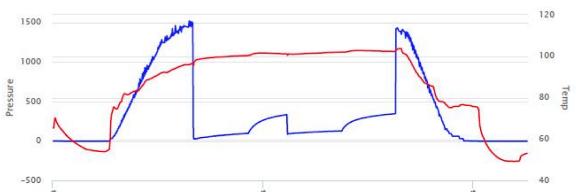
3.9" at 45 min

Max Reading: 313"

Max Reading: 238"

Max Reading: 3.9"









0 hr

Company: C & K Oil Company Lease: Riemann B #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 Sur Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API#: 15-009-26321-00-00

Operation: Test Complete

DATE

November 16

2021

DST#1

Formation: Lans A/F

Test Interval: 2996 -

Total Depth: 3091'

3091

Time On: 02:31 11/16 Time Off: 09:06 11/16

Time On Bottom: 04:28 11/16 Time Off Bottom: 07:13 11/16

Recovered

Foot BBLS 116 1.65068 126 1.79298 Description of Fluid SLGCM SLWCM

Gas % 10 0

Oil % n 0

Water % 0 5

Mud % 90 95

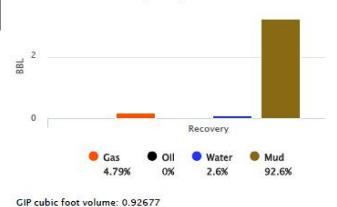
Total Recovered: 242 ft

Total Barrels Recovered: 3.44366

Reversed Out NO

Initial Hydrostatic Pressure 1443 **PSI** Initial Flow 28 to 94 PSI 336 Initial Closed in Pressure PSI Final Flow Pressure 86 to 129 **PSI** Final Closed in Pressure 349 PSI 1434 Final Hydrostatic Pressure PSI Temperature 103 °F Pressure Change Initial 0.0 Close / Final Close

Recovery at a glance





Operation:

Uploading recovery &

pressures

Company: C & K Oil Company Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W County: BARTON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa Pool: Infield

Job Number: 533

API #: 15-009-26321-00-00

DATE November 16 2021

DST#2 Formation: Lans H- Test Interval: 3160 -

Total Depth: 3195'

J-K 3195

Time Off: 22:43 11/16

Time On: 18:41 11/16 Time On Bottom: 18:41 11/16 Time Off Bottom: 20:56 11/16

Electronic Volume Estimate:

2'

1st Open Minutes: 30 Current Reading: .25" at 30 min

1st Close Minutes: 30 Current Reading: 0" at 30 min

2nd Open Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

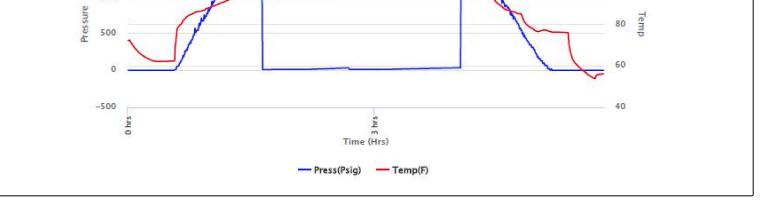
2nd Close Minutes: 45 Current Reading: 0" at 45 min

Max Reading: .25" Max Reading: 0"

Max Reading: 0"

Inside Recorder







Uploading recovery &

pressures

Company: C & K Oil Company

Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API#: 15-009-26321-00-00

DATE November DST#2 Formation: Lans H-J-K

Test Interval: 3160 -3195

Total Depth: 3195'

16 2021

Time On: 18:41 11/16 Time Off: 22:43 11/16

Time On Bottom: 18:41 11/16 Time Off Bottom: 20:56 11/16

Oil %

0

Recovered

BBLS 0.07115 Description of Fluid SLGCM

Gas % 5

Water %

Mud % 95

Total Recovered: 5 ft

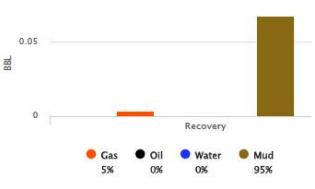
Total Barrels Recovered: 0.07115

Close / Final Close

Reversed Out NO

Initial Hydrostatic Pressure	1530	PSI
Initial Flow	9 to 11	PSI
Initial Closed in Pressure	32	PSI
Final Flow Pressure	11 to 12	PSI
Final Closed in Pressure	32	PSI
Final Hydrostatic Pressure	1526	PSI
Temperature	100	°F
Pressure Change Initial	2.1	%

Recovery at a glance



GIP cubic foot volume: 0.01997



Company: C & K Oil Company Lease: Riemann "B" #4

Operation: Uploading recovery & pressures

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1 Elevation: 1843 GL Field Name: Kraft-Prusa Pool: Infield Job Number: 533

API#: 15-009-26321-00-00

DATE November 17 2021

DST#3 Formation: Arbuckle Test Interval: 3234 -Total Depth: 3277'

Time On: 09:41 11/17 Time Off: 17:53 11/17 Time On Bottom: 11:08 11/17 Time Off Bottom: 14:08 11/17

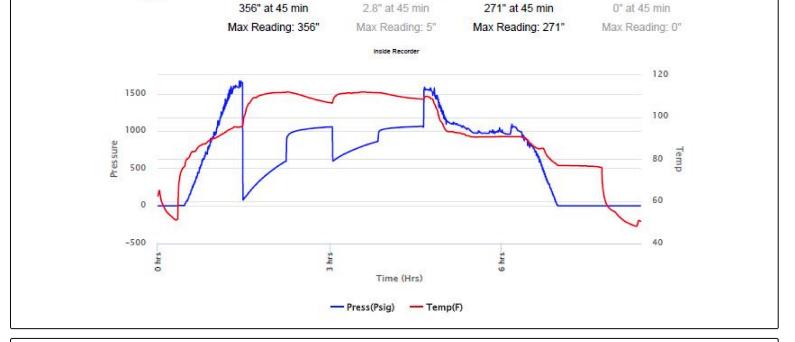
Electronic Volume Estimate: 3173"

1st Open Minutes: 45 Current Reading:

1st Close Minutes: 45 Current Reading:

2nd Open Minutes: 45 Current Reading:

2nd Close Minutes: 45 Current Reading:





Uploading recovery &

pressures

Company: C & K Oil Company Lease: Riemann "B" #4 SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1 Elevation: 1843 GL Field Name: Kraft-Prusa Pool: Infield Job Number: 533

API#: 15-009-26321-00-00

DATE November 17 2021 DST #3 Formation: Arbuckle Test Interval: 3234 - Total Depth: 3277'

Time On: 09:41 11/17 Time Off: 17:53 11/17 Time On Bottom: 11:08 11/17 Time Off Bottom: 14:08 11/17

Recovered

Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
74	1.05302	G	100	0	0	0
2111	30.03953	0	0	100	0	0
126	1.79298	SLMCW	0	0	85	15

Reversed Out

Total Recovered: 2311 ft Total Barrels Recovered: 32.88553

YES Initial Hydrostatic Pressure 1580 PSI Initial Flow 78 to 596 PSI Initial Closed in Pressure 1057 PSI Final Flow Pressure 599 to 861 **PSI** 1064 Final Closed in Pressure PSI Final Hydrostatic Pressure 1566 **PSI** Temperature 112 °F Pressure Change Initial 0.0

Recovery at a glance

20

Recovery

Gas Oil Water Mud
3.2% 91.35% 4.63% 0.82%

GIP cubic foot volume: 5.91218

Congl
Chtcongl
Dolprim

Lmst fw<7 shale, grn shale, gry

ROCK TYPES

Carbon Sh
shale, red
Shcol

Sltst

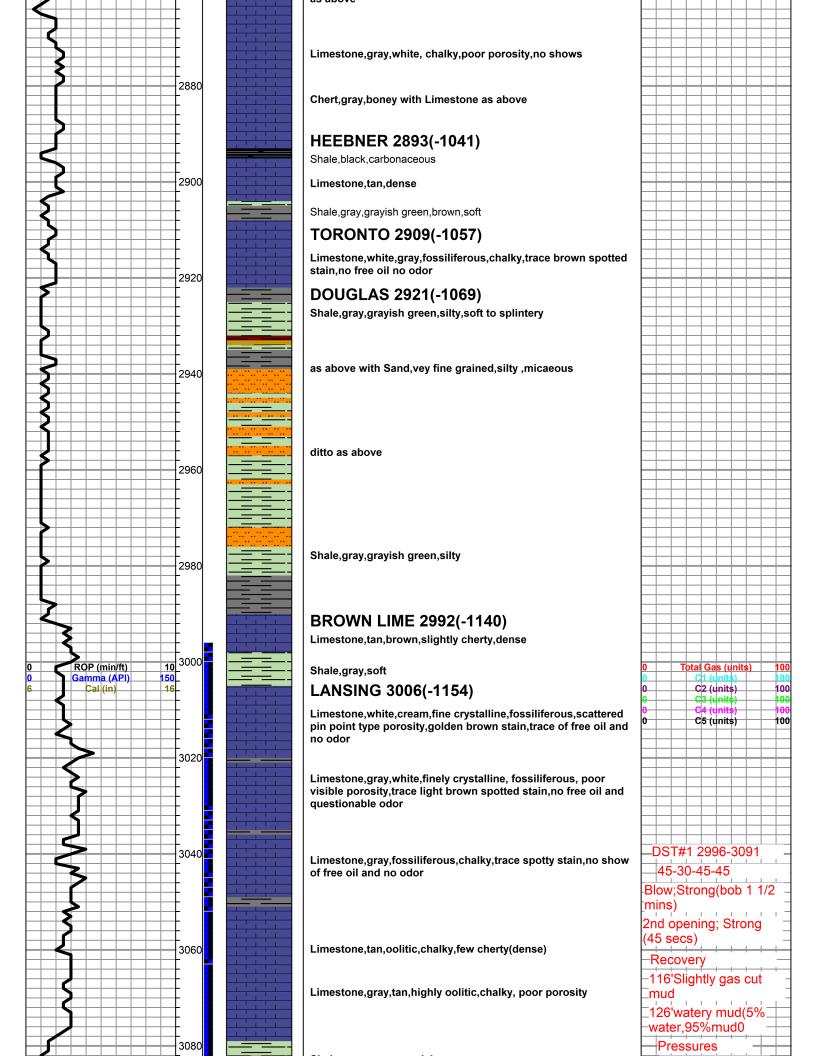
OTHER SYMBOLS

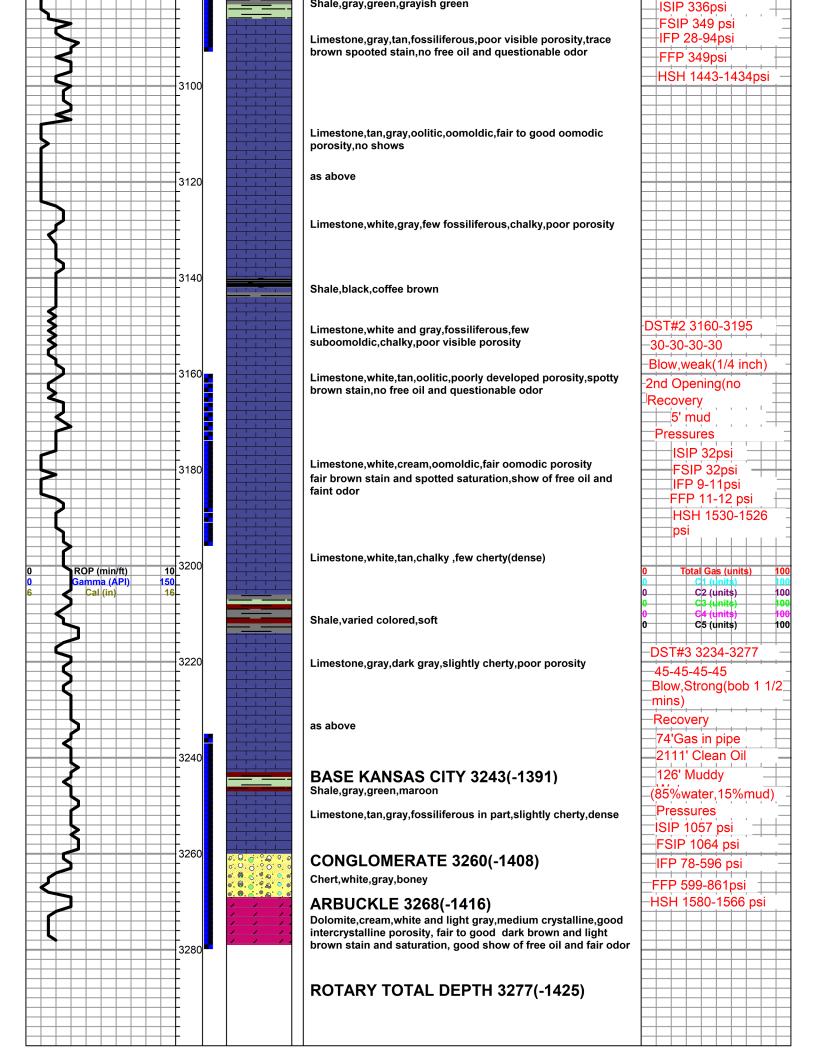
Close / Final Close

- Poor Show
 Poorted or Trace
 Questionable Stn
- D Dead Oil Stn
 Fluorescence
- **∗** Gas

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

TG, C1 - C5 Curve Track #1 ROP (min/ft) Total Gas (units) Depth | Intervals Gamma (API) C1 (units) Cal (in) C2 (units) Lithology C3 (units) DST **Geological Descriptions** C4 (units) Cored Interval C5 (units) 1:240 Imperial
ROP (min/ft) 1:240 Imperial Total Gas (units) Gamma (API) 150 16 100 Cal (in) C2 (units) C3 (units) 100 C5 (units) 100 2720 2740 2760 2780 2800 ►ROP (min/ft) Total Gas (units) Gamma (API) Cal (in) C2 (units) 100 Chert, gray, smokey gray, boney C3 (units) C5 (units) 100 Shale, black, carbonaceous, splintery 2820 Limestone,tan,gray,oolitic,fossiliferous,chalky in part,poor visible porosity,no shows 2840 Limestone,gray,white,oolitic,chalky,few suboomoldic, chalky, trace dark brown stain, trace of free oil, no odor 2860







Company: C & K Oil Company Lease: Riemann B #4

State: Kansas

County: BARTON

Drilling Contractor: Southwind Drilling,

SEC: 10 TWN: 17S RNG: 11W

Inc - Rig 1

Elevation: 1843 Sur Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

Operation:

Uploading recovery & pressures

DATE

November

2021

16

DST #1 Formation: Lans A/F Test Interval: 2996 -

Total Depth: 3091'

3091'

Time On: 02:31 11/16 Time Off: 09:06 11/16

Time On Bottom: 04:28 11/16 Time Off Bottom: 07:13 11/16

Electronic Volume Estimate:

2787'

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

313" at 45 min

Max Reading: 313"

1st Close Minutes: 30 Current Reading:

5.3" at 30 min

Max Reading: 5.3"

2nd Open Minutes: 45

Current Reading:

238" at 45 min

Max Reading: 238"

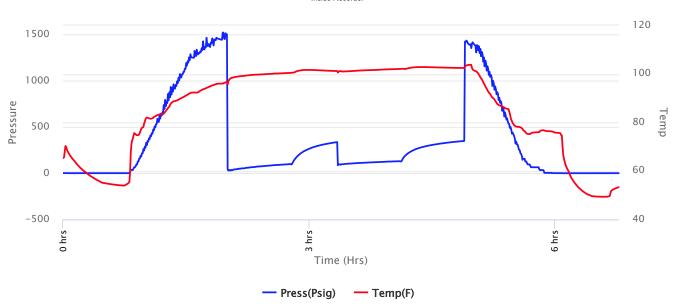
2nd Close Minutes: 30

Current Reading:

3.9" at 30 min

Max Reading: 3.9"

Inside Recorder





Company: C & K Oil Company

Lease: Riemann B #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Mud % 90

95

Inc - Rig 1

Elevation: 1843 Sur Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

pressures

Operation:

Uploading recovery &

DATE November

> 16 2021

DST #1 Formation: Lans A/F

Test Interval: 2996 -

Total Depth: 3091'

3091'

Time On: 02:31 11/16 Time Off: 09:06 11/16

Time On Bottom: 04:28 11/16 Time Off Bottom: 07:13 11/16

Recovered

<u>Foot</u>	BBLS	Description of Fluid	Gas %	<u>Oil %</u>	Water %
116	1.65068	SLGCM	10	0	0
126	1.79298	SLWCM	0	0	5

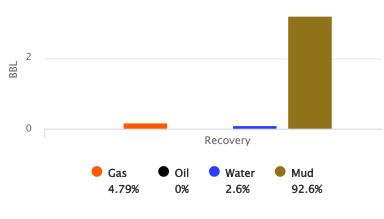
Total Recovered: 242 ft

Total Barrels Recovered: 3.44366

Reversed Out
NO

Initial Hydrostatic Pressure	1443	PSI
Initial Flow	28 to 94	PSI
Initial Closed in Pressure	336	PSI
Final Flow Pressure	86 to 129	PSI
Final Closed in Pressure	349	PSI
Final Hydrostatic Pressure	1434	PSI
Temperature	103	°F
Pressure Change Initial	0.0	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0.92677



Company: C & K Oil Company Lease: Riemann B #4

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

SEC: 10 TWN: 17S RNG: 11W

Inc - Rig 1

Elevation: 1843 Sur Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

Total Depth: 3091'

Operation:

Uploading recovery & pressures

DATE

16

November

2021

DST #1 Formation: Lans A/F Test Interval: 2996 -

3091'

Time On: 02:31 11/16 Time Off: 09:06 11/16

Time On Bottom: 04:28 11/16 Time Off Bottom: 07:13 11/16

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 1 1/2 minutes

1st Close: 5 1/4" Blow Back

2nd Open: 7" Blow. BOB in 45 seconds 2nd Close: 3 3/4 inch Blow Back

REMARKS:

The Gas in the pipe we could not detect it.

Tool Sample: 5% Gas 0% Oil 0% Water 95% Mud



Uploading recovery &

pressures

Company: C & K Oil Company

Lease: Riemann B #4

SEC: 10 TWN: 17S RNG: 11W County: BARTON

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 Sur Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

DATE

November

16

2021

DST #1 Formation: Lans A/F Test Interval: 2996 -

Total Depth: 3091'

3091'

Time On: 02:31 11/16 Time Off: 09:06 11/16

Time On Bottom: 04:28 11/16 Time Off Bottom: 07:13 11/16

Down Hole Makeup

Heads Up: Packer 1: 2991.09 FT 8.44 FT

Drill Pipe: 2979.37 FT Packer 2: 2996.09 FT

ID-3 1/2

Top Recorder: 2983.09 FT

Weight Pipe: FT **Bottom Recorder:** 3064 FT ID-2 7/8

Well Bore Size: 7 7/8

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

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

ID-3 1/2-FH

Collars:

Total Anchor: 94.91

Anchor Makeup

0 FT

Packer Sub: 1 FT

Perforations: (top): 1 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 62.91 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 28 FT

4 1/2-FH



Uploading recovery &

pressures

Company: C & K Oil Company

Lease: Riemann B #4

County: BARTON State: Kansas

SEC: 10 TWN: 17S RNG: 11W

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 Sur Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

DATE

November

16 2021 Formation: Lans A/F

DST #1

Test Interval: 2996 -

Total Depth: 3091'

3091'

Time On: 02:31 11/16 Time Off: 09:06 11/16

Time On Bottom: 04:28 11/16 Time Off Bottom: 07:13 11/16

Mud Properties

Mud Type: Chem Viscosity: 60 Filtrate: 7.6 Chlorides: 4000 ppm Weight: 8.8



Uploading recovery &

pressures

Company: C & K Oil Company

Lease: Riemann B #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 Sur Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

DATE

November

16 2021 **DST #1** Formation: Lans A/F

Test Interval: 2996 -3091'

Total Depth: 3091'

Time On: 02:31 11/16 Time Off: 09:06 11/16

Time On Bottom: 04:28 11/16 Time Off Bottom: 07:13 11/16

Gas Volume Report

1st Open 2nd Open

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



Uploading recovery &

pressures

Company: C & K Oil Company Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

DATE

November

16 2021

DST #2 Formation: Lans H-J-K

Test Interval: 3160 - 3195'

Total Depth: 3195'

Time On: 18:41 11/16 Tim

Time Off: 22:43 11/16

Time On Bottom: 18:41 11/16 Time Off Bottom: 20:56 11/16

Electronic Volume Estimate:

2'

1st Open Minutes: 30 Current Reading: .25" at 30 min

Max Reading: .25"

1st Close Minutes: 30 Current Reading:

0" at 30 min Max Reading: 0" 2nd Open Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

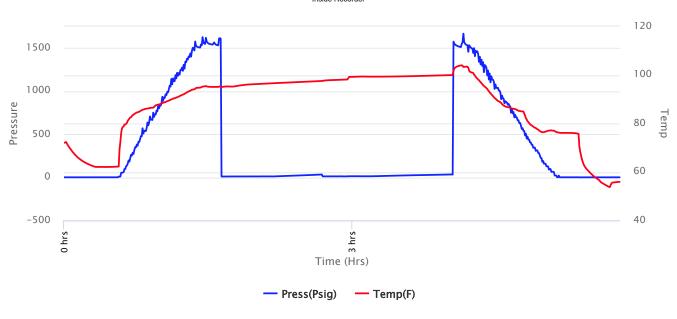
2nd Close Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: C & K Oil Company

Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

DATE

November

16 2021 DST #2 Formation: Lans H-J-K

Test Interval: 3160 -

Total Depth: 3195'

3195'

Time On: 18:41 11/16 Time Off: 22:43 11/16

Time On Bottom: 18:41 11/16 Time Off Bottom: 20:56 11/16

Recovered

BBLS <u>Foot</u> 5 0.07115 Description of Fluid **SLGCM**

Gas %

5

Oil % 0

Water % 0

Mud % 95

Total Recovered: 5 ft

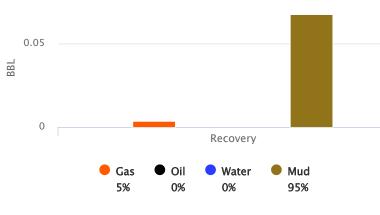
Total Barrels Recovered: 0.07115

Close / Final Close

Reversed Out NO

Initial Hydrostatic Pressure	1530	PSI
Initial Flow	9 to 11	PSI
Initial Closed in Pressure	32	PSI
Final Flow Pressure	11 to 12	PSI
Final Closed in Pressure	32	PSI
Final Hydrostatic Pressure	1526	PSI
Temperature	100	°F
Pressure Change Initial	2.1	%

Recovery at a glance



GIP cubic foot volume: 0.01997



Uploading recovery &

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BUCKET MEASUREMENT:

1st Open: WSB. Built to 1/4 inch in 30 minutes

1st Close: NOBB 2nd Open: No Blow 2nd Close: NOBB

REMARKS:

Flush Tool 15 minutes into final Flow. Good Flush

Tool Sample: 0% Gas 0% Oil 5% Water 95% Mud



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Time On: 18:41 11/16 Time Off: 22:43 11/16

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Down Hole Makeup

Heads Up: 2.259999999999 FT **Packer 1:** 3155 FT

Drill Pipe: 3137.1 FT **Packer 2:** 3160 FT

ID-3 1/2

Top Recorder: 3147 FT

Weight Pipe: FT Bottom Recorder: 3162 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: 35

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 34 FT

4 1/2-FH



Uploading recovery &

pressures

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Total Depth: 3195'

3195'

Time On: 18:41 11/16 Time Off: 22:43 11/16

Time On Bottom: 18:41 11/16 Time Off Bottom: 20:56 11/16

Mud Properties

Mud Type: Chem Weight: 9.2 Viscosity: 56 Filtrate: 8.8 Chlorides: 4500 ppm



Uploading recovery &

pressures

Company: C & K Oil Company Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W County: BARTON

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November **16** 2021

Formation: Lans H-J-K

DST #2

Test Interval: 3160 -

Total Depth: 3195'

3195'

Time On: 18:41 11/16 Time Off: 22:43 11/16

Time On Bottom: 18:41 11/16 Time Off Bottom: 20:56 11/16

Gas Volume Report

1st Open 2nd Open

Time Orifice PSI MCF/D	Time	Orifice	PSI	MCF/D
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Company: C & K Oil Company Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

Operation:

Uploading recovery & pressures

DATE

November

17 2021

DST #3 Formation: Arbuckle

Test Interval: 3234 -

Total Depth: 3277'

3277'

Time On: 09:41 11/17 Time Off: 17:53 11/17

Time On Bottom: 11:08 11/17 Time Off Bottom: 14:08 11/17

Electronic Volume Estimate:

3173'

1st Open Minutes: 45 Current Reading:

356" at 45 min

Max Reading: 356"

1st Close Minutes: 45 Current Reading:

2.8" at 45 min

Max Reading: 5"

2nd Open Minutes: 45

Current Reading:

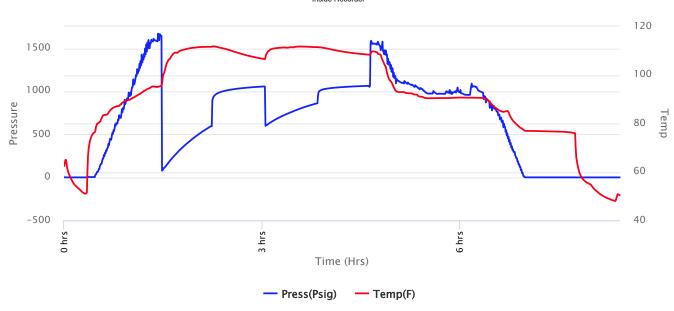
271" at 45 min Max Reading: 271" 2nd Close Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

Inside Recorder





Company: C & K Oil Company Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Mud %

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

Operation: Uploading recovery &

pressures

DATE November 17

2021

DST #3 Formation: Arbuckle Test Interval: 3234 -

Total Depth: 3277'

3277'

Time On: 09:41 11/17 Time Off: 17:53 11/17

Time On Bottom: 11:08 11/17 Time Off Bottom: 14:08 11/17

Recovered

<u>Foot</u>	BBLS	Description of Fluid	<u>Gas %</u>
74	1.05302	G	100
2111	30.03953	Ο	0
126	1 79298	SLMCW	0

0 0 0 100 0 0 0 85 15

Water %

Total Recovered: 2311 ft

Total Barrels Recovered: 32.88553

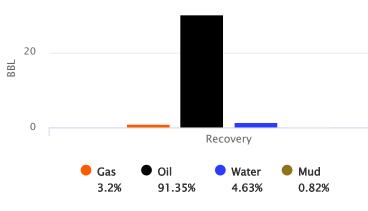
Reversed Out
YES

Initial Hydrostatic Pressure	1580	PSI
Initial Flow	78 to 596	PSI
Initial Closed in Pressure	1057	PSI
Final Flow Pressure	599 to 861	PSI
Final Closed in Pressure	1064	PSI
Final Hydrostatic Pressure	1566	PSI
Temperature	112	°F
Pressure Change Initial	0.0	%
Close / Final Close		

GIP cubic foot volume: 5.91218

Recovery at a glance

Oil %





Uploading recovery &

pressures

Company: C & K Oil Company Lease: Riemann "B" #4

Formation: Arbuckle

Time On: 09:41 11/17

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

Total Depth: 3277'

DATE

November

17

2021

3277'

Time On Bottom: 11:08 11/17 Time Off Bottom: 14:08 11/17

Test Interval: 3234 -

Time Off: 17:53 11/17

BUCKET MEASUREMENT:

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

1st Close: 5 inch Blow Back

2nd Open: 1" Blow. BOB in 1 minute

2nd Close: NOBB

REMARKS:

Dumped 288 ft of Fluid before reversing out.

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

DST #3

Gravity: 42 @ 60 °F

Ph: 7

Measured RW: 28 @ 42 degrees °F

RW at Formation Temp: 11.498 @ 112 °F

Chlorides: 140000 ppm



Uploading recovery &

pressures

Company: C & K Oil Company Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

DATE

November

17 2021

DST #3 Formation: Arbuckle

Test Interval: 3234 -

Total Depth: 3277'

3277'

Time On: 09:41 11/17 Time Off: 17:53 11/17

Time On Bottom: 11:08 11/17 Time Off Bottom: 14:08 11/17

Down Hole Makeup

Heads Up: 23.02 FT **Packer 1:** 3229 FT

Drill Pipe: 3231.86 FT **Packer 2:** 3234 FT

ID-3 1/2

Top Recorder: 3221 FT

Weight Pipe: FT Bottom Recorder: 3236 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: 43

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 42 FT

4 1/2-FH



Company: C & K Oil Company Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W County: BARTON

County: BARTON State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 1

Elevation: 1843 GL Field Name: Kraft-Prusa

Pool: Infield Job Number: 533

API #: 15-009-26321-00-00

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Mud Properties

Mud Type: Chem Weight: 9.2 Viscosity: 56 Filtrate: 8.8 Chlorides: 4500 ppm



Company: C & K Oil Company Lease: Riemann "B" #4

SEC: 10 TWN: 17S RNG: 11W

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Gas Volume Report

1st Open 2nd Open

Time Orifice PSI MCF/D	Time	Orifice	PSI	MCF/D
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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. 2478

Sec.	Twp.	Range		County	State	On Location	Finish			
Date 11/13/21 10	17	11	Ba	rton	Kansas		1:00 A1			
	_		Locati	on Claf	In 4N to 1	50 /4E N	1,40			
Lease Riemann B	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Well No. 4		Owner						
Contractor Southwind	19		To Quality O	ilwell Cementing, Inc. by requested to rent o	omonting oquinmon	t and furnish				
Type Job Sur ferce				cementer an	d helper to assist own	er or contractor to do	work as listed.			
Hole Size 1214	T.D.	384		Charge To	C+K 0:1					
Csg. 8 5/4	Depth	383		Street						
Tbg. Size	Depth			City		State				
Tool	Depth				s done to satisfaction an					
Cement Left in Csg. 20'	Shoe Jo	oint 201		Cement Amo	ount Ordered 200	2 840 4%cc	2%9e1			
Meas Line		e 23								
No Cementer A	MENT			Common /	20					
Pumptrk /6 Helper K	ck			Poz. Mix	30					
The state of the s	rdon			Gel. 4						
Bulktrk PM. No. Driver De	vid		-	Calcium 0						
JOB SERVICES	& 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						
Ran 8 1/8 and	lest.	Circular	ارمار	Handling 2/	13					
comented with	200	sks		Mileage						
And the Party of t	e tip				FLOAT EQUIPME	NT				
				Guide Shoe						
				Centralizer						
Cement Did	<u></u>	inculate		Baskets						
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	A TALL									
			1001	Pumptrk Cha	rge Surfo	ce				
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FAA	1			- V	12 5	Tax				
x March J- A	aus			The	NNK/	Discount				
X Signature				1 110		Total Charge				

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. 2612

Date // - /	18-21	Sec.	Twp.	Range	Ba	County	State	On Location	5	Finish AV
					Location	on Claf	110-4N	100 yds	E	NIEN
Lease	Riem	nanr		Well No. B	MA	Owner				
Contractor	South	ماس	1#1		1	To Quality C	Dilwell Cementing, Ir		ant and	formain la
Type Job (ongst (nt cementing equipm wner or contractor to		
Hole Size	77/8	" ()	T.D.	3277	1	Charge To	C+K 0	•		
Csg.	55%		Depth	3271	. 63	Street				
Tbg. Size			Depth			City		State		The state of the s
Tool			Depth			The above wa	as done to satisfaction	and supervision of ow	ner agen	t or contractor.
Cement Left	in Csg.	00	Shoe Jo	oint 20'		Cement Am	ount Ordered 186	com 10	3/65	alt So
Meas Line			Displace	977%	BUS	Gilso	nite -	hope doc	mud	Clear
		EQUIPN	MENT			Common /	80	0		4
Pumptrk /	6 No. Ceme Helpe	enter D	pios			Poz. Mix				
Bulktrk 9	No. Drive	100	dan			Gel.				
Butktirk P.	No. Drive	Ric	K	2.4		Calcium				
/			& REMA	RKS		Hulls				
Remarks:						Salt /5				
Rat Hole	10 2x	-60				Flowseal				
Mouse Hole	4					Kol-Seal &	200 #			
Centralizers	1-9	•				Mud CLR 48	- 2 20			
Baskets	246					CFL-117 or	CD110 CAF 38			
D/V or Port (Collar O 10	e or	pa	Hom, t	neak	Sand				
Circula	indita		ums			Handling/	93			
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t mix	1355	x Ce	mes	A. Shu	1 /	Guide Shoe				
down	was)	h Du	mo	4 lines		Centralizer	9 tust	500		
Release	of Dhas	4 1	1,50	red will	775	Baskets (2			
BU of	HZO.	Rele	ased	+ heldi	1	AFU Inserts			4	
			48			Float Shoe				
7:57	press	we	7	20 7		Latch Down			. 322	
Lift Land F	Than t	v	150	20 4		Rotart	ing head			
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						Pumptrk Cha	arge procl	String		
						Mileage 3	//			
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