

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 1408

785-483-2025
785-324-1041

Date	4-12-19	Sec.	26	Twp.	13	Range	20	County	Ellis	State	KS	On Location		Finish	8:30
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Location Ellis 35 150 20 3 1/2 W 117

Lease	<u>Kraus B</u>	Well No.	<u>2</u>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<u>W/W #12</u>				Charge To <u>Jason Oil</u>
Type Job	<u>Surface</u>				Street
Hole Size	<u>12 1/4</u>	T.D.	<u>258</u>	City	State
Csg.	<u>8 5/8</u>	Depth	<u>257</u>	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered <u>150 80/24 3/11 2/10/2</u>	
Tool		Depth		Cement Left in Csg. <u>10</u> Shoe Joint	
Meas Line		Displace	<u>15 1/2 B.C.</u>		

EQUIPMENT

Pumptrk	<u>20</u>	No.	Cementer	Common	<u>120</u>
			Helper	Poz. Mix	<u>30</u>
Bulktrk		No.	Driver	Gel.	<u>3</u>
Bulktrk	<u>14</u>	No.	Driver	Calcium	<u>1</u>
			Driver		

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar
8-5/8 centralizers
11 1/2 x 150 SR 1 Displace

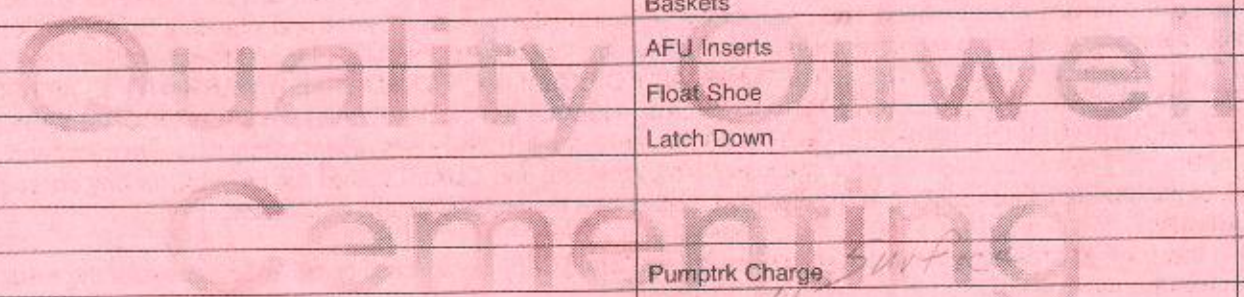
FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge 500.00
Mileage 10

Tax
Discount
Total Charge

X Signature [Handwritten Signature]



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1417

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-20-19	26	13	20	Ellis	KS		7.45

Location Ellis 3E 1500 33 W1410

Lease	Well No.	Owner	
<u>Kraus B</u>	<u>2</u>	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Type Job	Charge To	
<u>W #12</u>	<u>Production String</u>	<u>Jason O. I</u>	
Hole Size	T.D.	Street	
<u>7 7/8</u>	<u>3890</u>		
Csg.	Depth	City	
<u>5 1/2 14"</u>	<u>3892</u>	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	Depth	Cement Amount Ordered	
<u>Port Collar</u>	<u>1464</u>	<u>200 Q-Pro-C</u>	<u>500gal</u>
Cement Left in Csg.	Shoe Joint		<u>Mod Cle</u>
<u>14.93</u>	<u>14.93</u>		
Meas Line	Displace		
	<u>94 1/2 R/L</u>	<u>10/ Salt 5/ Gilsonite</u>	

EQUIPMENT

Pumptrk	No.	Cement Helper	Common
<u>17</u>		<u>Graig</u>	Poz. Mix
Bulktrk	No.	Driver	Gel.
		<u>Tom</u>	
Bulktrk	No.	Driver	Calcium
<u>3</u>		<u>Tom</u>	

JOB SERVICES & REMARKS

Remarks:	Hulls
	Salt
Rat Hole	Flowseal
<u>305K</u>	
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand

5 1/2 set @ 3892. Buffer @ 3877
Est. Circulation Pump 500 gal Mod
Clear of 108L water spacer
Plug Retrol. Cement 5 1/2 with 170K
Clear lines & Displace Plug
Plug handle @ 1500'

FLOAT EQUIPMENT

Guide Shoe	<u>Port Collar</u>
Centralizer	<u>7</u>
Baskets	<u>1</u>
AFU Inserts	
Float Shoe	<u>1</u>
Latch Down	<u>1</u>

Pumptrk Charge	
Mileage	

Tax
Discount
Total Charge

X Signature Tom Blair



Company: Jason Oil Company, LLC

Lease: Kraus B #2

SEC: 26 TWN: 13S RNG: 20W
County: ELLIS
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 2183 EGL
Field Name: Irvin
Pool: Infield
Job Number: 330

Operation:
Uploading recovery & pressures

DATE
April
17
2019

DST #1 **Formation: LKC "A-C"** **Test Interval: 3436 - 3522'** **Total Depth: 3522'**
Time On: 08:12 04/17 Time Off: 14:45 04/17
Time On Bottom: 10:24 04/17 Time Off Bottom: 12:54 04/17

Electronic Volume Estimate:
142'

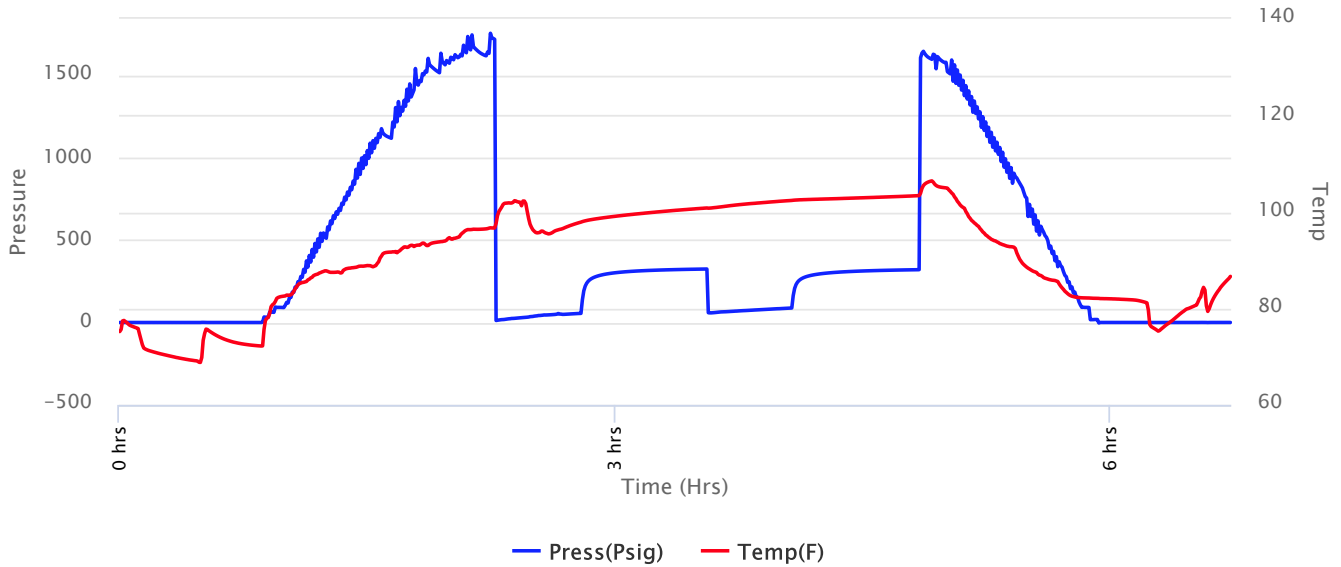
1st Open
Minutes: 30
Current Reading: 3.2" at 30 min
Max Reading: 3.2"

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

2nd Open
Minutes: 30
Current Reading: 2.4" at 30 min
Max Reading: 2.4"

2nd Close
N/A

Inside Recorder





Company: Jason Oil Company, LLC

Lease: Kraus B #2

SEC: 26 TWN: 13S RNG: 20W
 County: ELLIS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 2183 EGL
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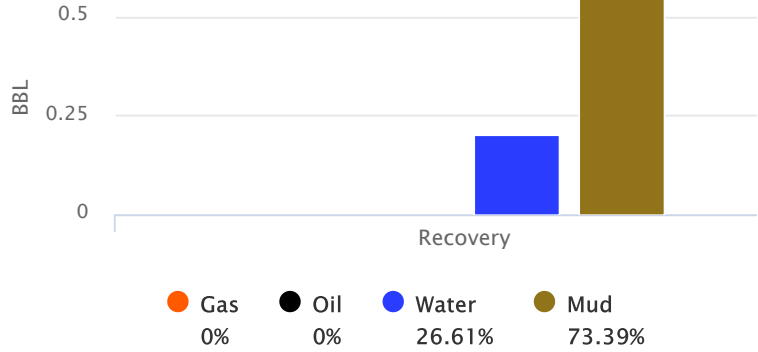
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 Time On: 08:12 04/17 Time Off: 14:45 04/17
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Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
30	0.1476	M	0	0	0	100
125	0.615	HWCM	0	0	33	67

Total Recovered: 155 ft
 Total Barrels Recovered: 0.7626

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1621	PSI
Initial Flow	13 to 56	PSI
Initial Closed in Pressure	326	PSI
Final Flow Pressure	60 to 89	PSI
Final Closed in Pressure	322	PSI
Final Hydrostatic Pressure	1615	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	1.3	%

GIP cubic foot volume: 0



**Company: Jason Oil Company,
LLC**

Lease: Kraus B #2

SEC: 26 TWN: 13S RNG: 20W
County: ELLIS
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2183 EGL
Field Name: Irvin
Pool: Infield
Job Number: 330

Operation:
Uploading recovery &
pressures

DATE
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17
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**DST #1 Formation: LKC "A-
C" Test Interval: 3436 - Total Depth: 3522'**
Time On: 08:12 04/17 Time Off: 14:45 04/17
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BUCKET MEASUREMENT:

1st Open: Surface blow building to 3"
1st Close: No BB
2nd Open: Surface blow building to 2"
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .5% Oil 35.5% Water 64% Mud

Ph: 7.5

Measured RW: .25 @ 79 degrees °F

RW at Formation Temp: 0.194 @ 104 °F

Chlorides: 29,000 ppm



Company: Jason Oil Company, LLC

Lease: Kraus B #2

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County: ELLIS
State: Kansas
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Elevation: 2183 EGL
Field Name: Irvin
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Time On: 08:12 04/17 Time Off: 14:45 04/17
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Down Hole Makeup

Heads Up: 7.47 FT	Packer 1: 3431.28 FT
Drill Pipe: 3232.29 FT <i>ID-3 1/2</i>	Packer 2: 3436.28 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3423.28 FT
Collars: 186.30 FT <i>ID-2 1/4</i>	Bottom Recorder: 3505 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 85.72	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 62.72 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 18 FT <i>4 1/2-FH</i>	



**Company: Jason Oil Company,
LLC**

Lease: Kraus B #2

SEC: 26 TWN: 13S RNG: 20W
County: ELLIS
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Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2183 EGL
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3522'** **Total Depth: 3522'**
Time On: 08:12 04/17 Time Off: 14:45 04/17
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Mud Properties

Mud Type: Chemical **Weight:** 9.0 **Viscosity:** 48 **Filtrate:** 8.8 **Chlorides:** 4,000 ppm



Company: Jason Oil Company, LLC

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Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D

Scale 1:240 Imperial

Well Name: KRAUS B #2
Surface Location: N2 SE NE SW Sec. 26 - 13S - 20W
Bottom Location:
API: 15-051-26947
License Number: 33813
Spud Date: 4/12/2019 Time: 4:00 PM
Region: ELLIS COUNTY KANSAS
Drilling Completed: 4/19/2019 Time: 8:57 AM
Surface Coordinates: 1820' FSL & 2310' FWL
Bottom Hole Coordinates:
Ground Elevation: 2182.00ft
K.B. Elevation: 2190.00ft
Logged Interval: 3000.00ft To: 3888.00ft
Total Depth: 3890.00ft
Formation: LANSING-KANSAS CITY; ARBUCKLE
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: JASON OIL COMPANY, LLC
Address: 3718 183rd RD
P.O. BOX 701
RUSSELL, KS 67665
Contact Geologist: SHELDON BENNETT
Contact Phone Nbr: (785) 483-4204
Well Name: KRAUS B #2
Location: N2 SE NE SW Sec. 26 - 13S - 20W
API: 15-051-26947
Pool: State: KANSAS Field: IRVIN Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.5128391
Latitude: 38.8901131
N/S Co-ord: 1820' FSL
E/W Co-ord: 2310' FWL

LOGGED BY



Company: BIG CREEK CONSULTING, INC.
Address: 1909 MAPLE
ELLIS, KS 67637
Phone Nbr: (785) 259-3737
Logged By: GEOLOGIST Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING
Rig #: 8
Rig Type: MUD ROTARY
Spud Date: 4/12/2019 Time: 4:00 PM
TD Date: 4/19/2019 Time: 8:57 AM
Rig Release: 4/20/2019 Time: 8:00 PM

ELEVATIONS

K.B. Elevation: 2190.00ft
 K.B. to Ground: 8.00ft

Ground Elevation: 2182.00ft

NOTES

DUE TO ECONOMICAL RECOVERY ON DST #4 DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING & FURTHER EVALUATE UPON COMPLETION.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	KRAUS B #1								P&A 5-2015								P&A 7-12							
	KRAUS B #1				KRAUS B #1				YOUNGER C #1				KRAUS A #7				KRAUS B #2							
	NW NESW 26-13-20				SE SE NW 26-13-20				C E2 NW SE 26-13-20				NE NW SW 26-13-20											
	KB	2190	GL	2182	KB	2192	KB	2191	KB	2184	KB	2191	KB	2191										
LOG TOPS	SAMPLE TOPS			LOGS	LOG	SMPL.	LOGS	LOG	SMPL.	LOGS	LOG	SMPL.	LOGS	LOG	SMPL.									
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.					
ANHYDRITE TOP	1499	691	1503	687	1508	684	+ 7	+ 3	1495	696	- 5	- 9	1493	691	+ 0	- 4	1510	681	+ 10	+ 6				
BASE	1536	654	1539	651	1552	640	+ 14	+ 11	1537	654	+ 0	- 3	1530	654	+ 0	- 3	1548	643	+ 11	+ 8				
TOPEKA	3202	-1012	3206	-1016	3218	-1026	+ 14	+ 10	3204	-1013	+ 1	- 3	3193	-1009	- 3	- 7	3210	-1019	+ 7	+ 3				
HEERNER SHALE	3435	-1245	3438	-1248	3454	-1262	+ 17	+ 14	3440	-1249	+ 4	+ 1	3430	-1246	+ 1	- 2	3446	-1255	+ 10	+ 7				
TORONTO	3457	-1267	3459	-1269	3475	-1283	+ 16	+ 14	3461	-1270	+ 3	+ 1	3451	-1267	+ 0	- 2	3467	-1276	+ 9	+ 7				
LKC	3477	-1287	3480	-1290	3495	-1303	+ 16	+ 13	3481	-1290	+ 3	+ 0	3470	-1286	- 1	- 4	3487	-1296	+ 9	+ 6				
BKC	3732	-1542	3729	-1539	3754	-1562	+ 20	+ 23	3730	-1539	- 3	+ 0	3719	-1535	- 7	- 4	3740	-1549	+ 7	+ 10				
MARMATON	3769	-1579	3771	-1581	3795	-1603	+ 24	+ 22					3765	-1581	+ 2	+ 0	3782	-1591	+ 12	+ 10				
ARBuckle	3810	-1620	3815	-1625					3822	-1631	+ 11	+ 6	3834	-1650	+ 30	+ 25								
TOTAL DEPTH	3888	-1698	3890	-1700	3864	-1672	- 26	- 28	3890	-1699	+ 1	- 1	3863	-1679	- 19	- 21	3860	-1669	- 29	- 31				

DST #1 TORONTO - LKC C 3436' - 3522'



Company: Jason Oil Company, LLC
Lease: Kraus B #2

SEC: 26 TWN: 13S RNG: 20W
 County: ELLIS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 2183 EGL
 Field Name: Irvin
 Pool: Infield
 Job Number: 330

Operation:
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DATE
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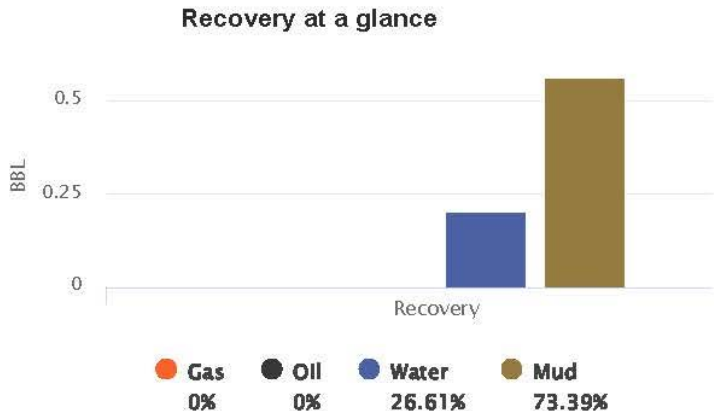
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 Time On: 08:12 04/17 Time Off: 14:45 04/17
 Time On Bottom: 10:24 04/17 Time Off Bottom: 12:54 04/17

Recovered	Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
	30	0.1476	M	0	0	0	100
	125	0.615	HWCM	0	0	33	67

Total Recovered: 155 ft
 Total Barrels Recovered: 0.7626

Reversed Out
 NO

Initial Hydrostatic Pressure	1621	PSI
Initial Flow	13 to 56	PSI
Initial Closed in Pressure	326	PSI
Final Flow Pressure	60 to 89	PSI
Final Closed in Pressure	322	PSI
Final Hydrostatic Pressure	1615	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	1.3	%



GIP cubic foot volume: 0

DST #1 TORONTO - LKC C 3436' - 3522'



Company: Jason Oil Company, LLC
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SEC: 26 TWN: 13S RNG: 20W
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Electronic Volume Estimate:
 142'

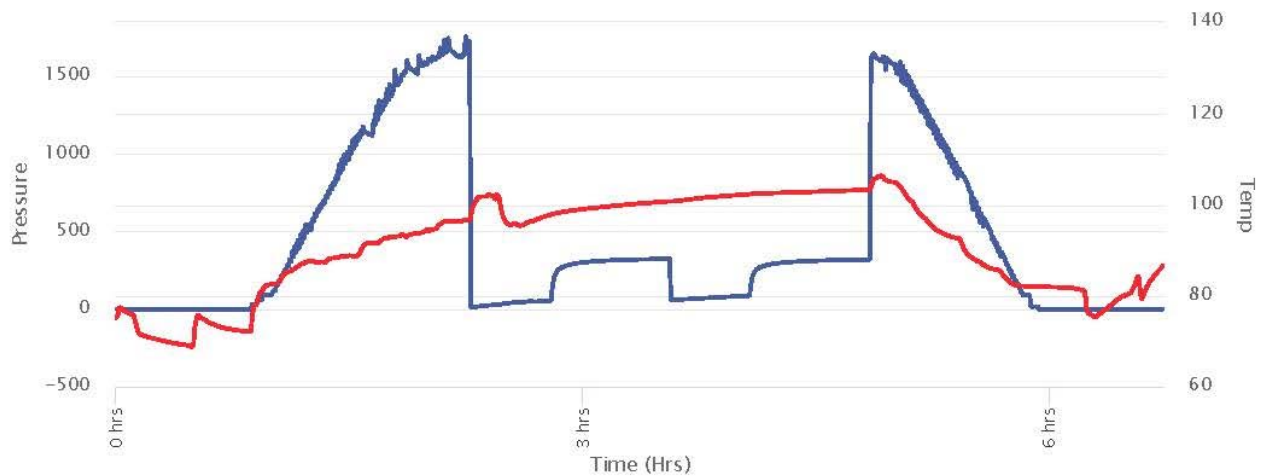
1st Open
 Minutes: 30
 Current Reading: 3.2" at 30 min
 Max Reading: 3.2"

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

2nd Open
 Minutes: 30
 Current Reading: 2.4" at 30 min
 Max Reading: 2.4"

2nd Close
 N/A

Inside Recorder



DST #2 LKC H - I 3592' - 3630'



Company: Jason Oil Company, LLC
Lease: Kraus "B" #2

SEC: 26 TWN: 13S RNG: 20W
 County: ELLIS
 State: Kansas
 Drilling Contractor: VVV Drilling, LLC - Rig 12
 Elevation: 2183 EGL
 Field Name: Irvin
 Pool: Infield
 Job Number: 330

Operation:
 Uploading recovery & pressures

DATE
 April
18
 2019

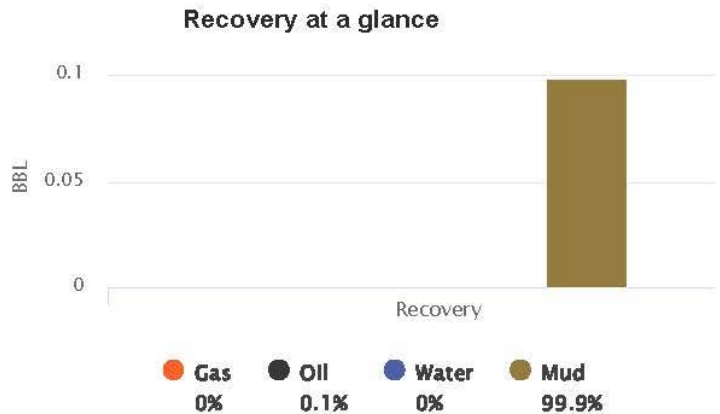
DST #2 **Formation: LKC "H-I"** **Test Interval: 3592 - 3630'** **Total Depth: 3630'**
 Time On: 04:47 04/18 Time Off: 11:11 04/18
 Time On Bottom: 07:23 04/18 Time Off Bottom: 09:23 04/18

<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
20	0.0984	M (trace O)	0	.1	0	99.9

Total Recovered: 20 ft
 Total Barrels Recovered: 0.0984

Reversed Out
NO

Initial Hydrostatic Pressure	1708	PSI
Initial Flow	11 to 16	PSI
Initial Closed in Pressure	52	PSI
Final Flow Pressure	16 to 27	PSI
Final Closed in Pressure	40	PSI
Final Hydrostatic Pressure	1708	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	23.1	%



GIP cubic foot volume: 0

DST #2 LKC H - I 3592' - 3630'



Company: Jason Oil Company, LLC

Lease: Kraus "B" #2

SEC: 26 TWN: 13S RNG: 20W
 County: ELLIS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 2183 EGL
 Field Name: Irvin
 Pool: Infield
 Job Number: 330

Operation:
 Uploading recovery & pressures

DATE
 April
18
 2019

DST #2 **Formation: LKC "H-I"** **Test Interval: 3592 - 3630'** **Total Depth: 3630'**
 Time On: 04:47 04/18 Time Off: 11:11 04/18
 Time On Bottom: 07:23 04/18 Time Off Bottom: 09:23 04/18

Electronic Volume Estimate:
 16'

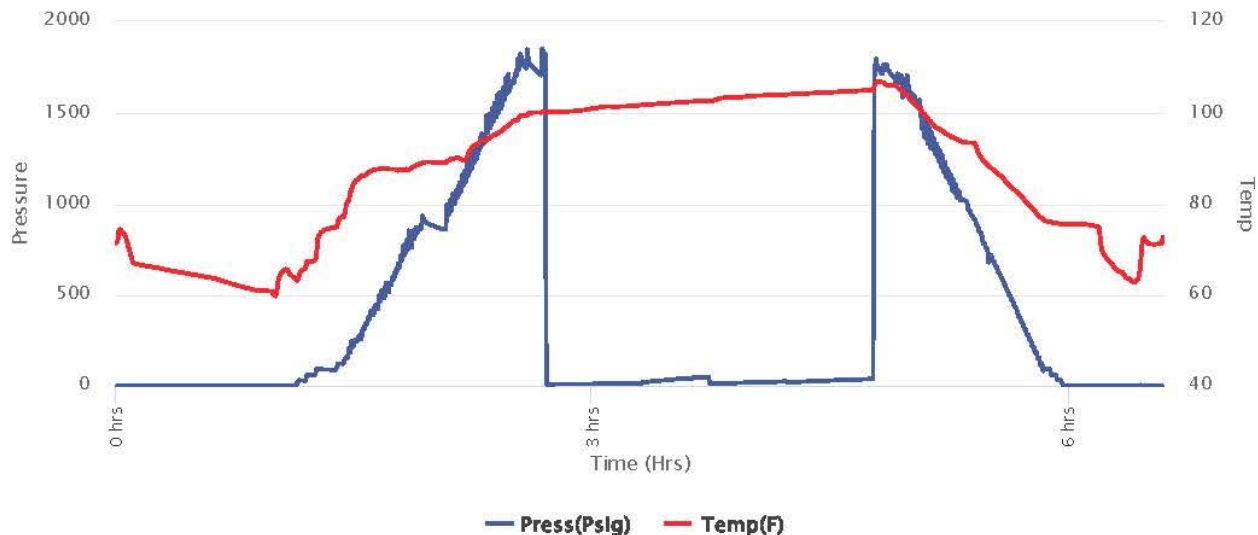
1st Open
 Minutes: 30
 Current Reading: .6" at 30 min
 Max Reading: .6"

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

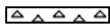










2nd Open
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: 0"

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

Inside Recorder



ROCK TYPES

 Cht	 Lmst fw7>	 Carbon Sh	 Shcol
 Dolprim	 shale, grn	 Shblk	 Ss
 Dolsec	 shale, gry	 shale, red	










ACCESSORIES

MINERAL

- * Sandy
- / Euhed rhombs of dol or c

OTHER SYMBOLS




MISC

-  Daily Report
-  Digital Photo
-  Document
-  Folder
-  Link
-  Vertical Log File
-  Horizontal Log File
-  Core Log File
-  Drill Cuttings Rpt

DST

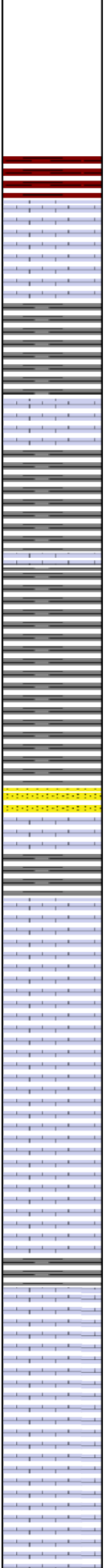
-  DST Int
-  DST alt

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

Curve Track #1	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3
ROP (min/ft)  Gamma (API)  Cal (in) 	Cored Interval DST Interval					
1:240 Imperial 0 ROP (min/ft) 7 0 Gamma (API) 150 6 Cal (in) 16	3060 3070				<p><u>1' DRILL TIME THROUGH ANHYDRITE FROM 1490' - 1570'</u> <u>1' DRILL TIME FROM 3100' - RTD</u> <u>10' WET/DRY SAMPLES FROM 3150' - RTD</u></p> <p>GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 3100' - RTD</p> <p>8 5/8" SURFACE PIPE SET @ 256' SURVEY 1/2 deg</p>	1:240 Imperial

ANHYDRITE TOP 1503' (+687) E-LOG 1499' (+691)
ANHYDRITE BOTTOM 1539' (+651) E-LOG 1536' (+654)

3080
3090
3100
3110
3120
3130
3140
3150
3160
3170
3180
3190
3200
3210
3220
3230
3240
3250
3260
3270
3280
3290



Sh- Gray, silty & calcareous, semi-gummy

Lm- Cream Buff, FXLN, dense, well cemented, sctrd XLN porosity, sl fsl, some w/ fsl fragments, barren

Sh- Gray, abundant argillaceous clumps, dense & waxy

Sh- Gray, semi sandy shale/shaley Ss, gummy clumps/wash

Ss- Dove Gray, Vf Grn, micaceous shaley Ss, barren

Sh- Gray, argillaceous wash & clumps

TOPEKA 3206' (-1016) E-LOG 3202' (-1012) Lm- Cream Off White, FXLN, fsl & oolitic, sctrd XLN & fn ppt inter oolite porosity, clean & barren

Lm- Buff Gray, VF-FXLN, dense, well cemented & tight w/ poor vis. porosity, sl fsl, barren

Lm- Off White Cream, FXLN, sl fsl, poorly dev. w/ sctrd XLN porosity, some loosely cemented & chalky in part, all barren

Lm- Cream Off White, FXLN, fsl & sl oolitic,sctrd fn ppt & XLN porosity, SCTRD LT STN, TR GSY FO, FR ODR

Lm- Tan Gray, VF-FXLN, dense, well cemented & tight w/ sctrd XLN porosity, barren

Sh- Gray, argillaceous clumps & wash

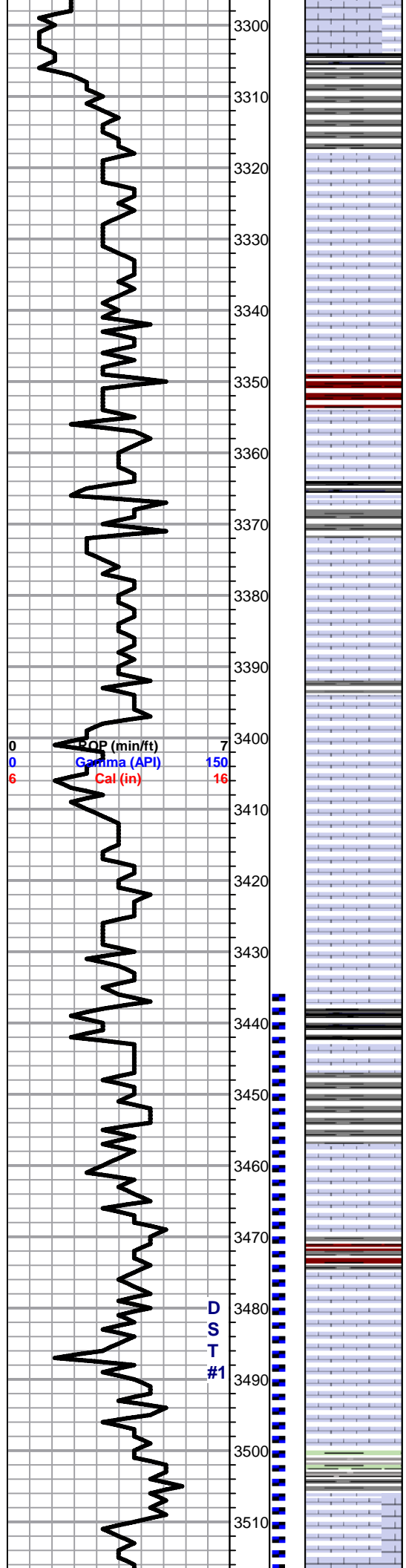
Lm- Tan Buff, VF-FXLN, dense, well cemented, sl fsl, sctrd to dense XLN porosity, few w/ secondary reXLN porosity, barren

Lm- Cream Off White, FXLN, sl fsl, chalky in part, sctrd mottling, poor vis. porosity, barren

Lm- Tan Cream, FXLN, fsl, massive, semi-granular, mod. well dev. w/ sctrd fn ppt &

0
0
6

ROP (m) 7
Gamma (API) 150
Cal (in) 16



dense XLN porosity, barren, sctrd mottling, LT SCTRD STN, NSFO, WK ODR

Sh- Black Gray, fissile & carbonaceous, argillaceous clumps

Lm- Off White Cream Buff, VF-FXLN, dense, few pcs of sl cherty Ls, all mostly tight w/ poor vis. porosity, vry cln & barren, few pcs sl dolomitic

A/A w/ some soft white chalk, few pcs of chert & fsl dolomitic chert, barren

Lm- White Gray, FXLN, well cemented, trashy & fsl, sl chalky in part

Sh- Black Green Gray, fissile & carbonaceous, gummy wash

Lm- Cream Off White Tan, FXLN, dense & well cemented, mostly all tight, some sl fsl w/ fragments, some poorly dev., all clean & barren

Lm- Gray Buff, VF-FXLN, dense, well cemented, tight w/ sctrd XLN porosity & clear replcement cementation, barren

Lm- Tan, VF-FXLN, dense fsl, well cemented, mostly tight w/ dense XLN porosity, some clear replacement cementation, heavily mottled, barren, SL TR ODR???

Lm- A/A w/ less cementation, chalky in part, crumbly, influx of mottling, SL STN APPEARANCE, NO ODR, NO FLOR??

HEEBNER 3438' (-1248) E-LOG 3435' (-1245) Sh- Black Gray Green, fissile & carbonaceous, argillaceous clumps, silty

TORONTO 3459' (-1269) E-LOG 3457' (-1267) Lm- Cream Off White, FXLN, sl fsl, sctrd dev w/ fn ppt & sctrd to semi-dense XLN porosity, mostly well cemented, few sl chalky in part, SCTRD LT STN, SFO, NO ODR

Lm- Off White, VF-FXLN, lessening porosity development & sl influx of chalk, barren

LKC 3480' (-1290) E-LOG 3477' (-1287) Lm- Cream Off White, FXLN, fsl, mod. well dev. w/ sctrd ppt inter fsl porosity, SCTRD LT STN, NSFO, WK ODR

Lm- Buff Tan, VF-FXLN, dense, well cemented, sl fsl, micro XLN porosity, barren

Sh- Black Gray Green Maroon, platy, dense & waxy, gummy clumps & wash, gritty & earthy

Lm- Off White, FXLN, oolitic, mod. dev. w/ mostly consistent ppt inter oolite porosity, LT SCTRD STN, NSFO, TR ODR, several pcs of sl fsl fresh bedded chert w/o vis. porosity

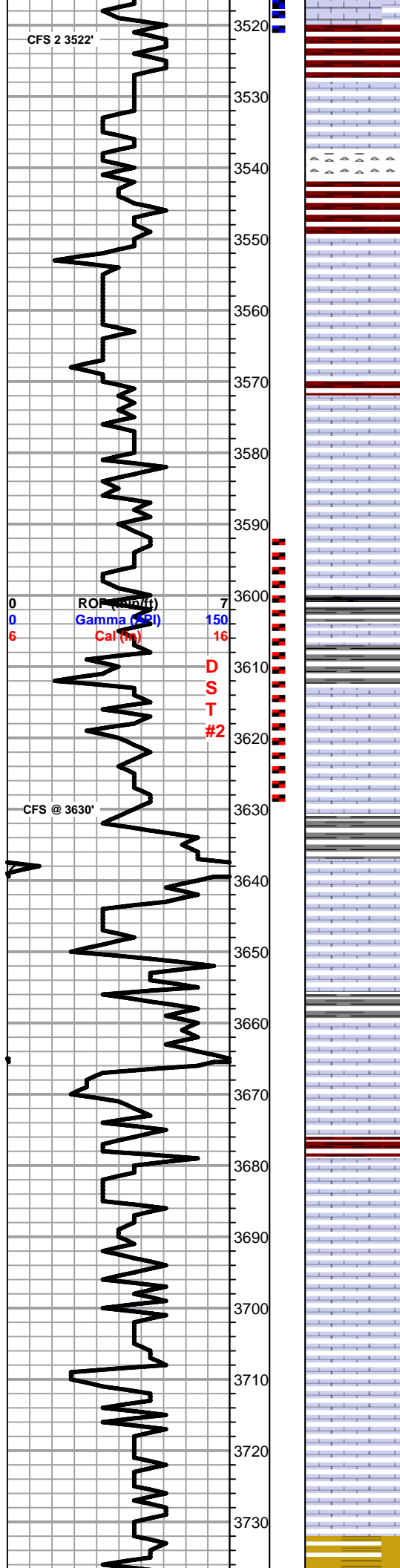
Lm- Cream Buff, VF-FXLN, dense, well cemented, mostly tight w/ poor vis. porosity

SHORT TRIP SURVEY 3/4 deg. STRAP +0.68'

DST #1 TORONTO - LKC C 3436' - 3522' 30-45-30-45

155' TOTAL FLUID 30' MUD 125' HWCM (33%W, 67# M)

IFP: 13-56# FFP: 60-89# SIP: 326-322# BHT: 104 deg.



Lm- Cream Buff, VF-XLN, dense, well cemented, mostly tight w/ poor vis. porosity, barren

Sh- Gray Maroon, dense & waxy, gritty & earthy

Lm- Cream Off White, FXLN, not consistently developed w/ sctrd XLN & vry fn ppt porosity, FEW PCS W/ LT TR OF STN, NSFO, WK ODR

Chert- Translucent White, fresh bedded chert w/o vis. porosity, barren

Lm- Cream Off White, FXLN, fsl, sctrd XLN & fn ppt inter fsl porosity, LT SCTRD STN, NSFO, TR ODR

Lm- Off White, FXLN, densely packed w/ fsl, clear replacement cementation, poor matrix porosity, barren

Lm- Cream Off White, VF-XLN, dense, well cemented, sl cherty Ls w/ min.-poor vis. porosity, vry clean & barren

Lm- Tan Off White, VF-XLN, tight cherty Ls, mostly w/o vis. porosity, few tan pcs w/ sctrd ppt porosity, LT SCTRD STN, NSFO, NO ODR

Sh- Black Maroon, fissile & carbonaceous, gritty & earthy

Lm- Cream Tan, FXLN, fsl & sl oolitic, mostly well dev. w/ consistent fn ppt inter oolite & fsl porosity, LT EVEN STN, TR FO, FR ODR

Lm- Cream Off White, FXLN, sl fsl, poorly dev., some chalky in part, sctrd XLN porosity, barren

Sh- Gray Black Maroon, dense & waxy, gritty & earthy

Lm- Cream Off White, FXLN, fsl, few pcs sl oolitic, well cemented sl dolomitic Ls w/ sctrd-consistent micro XLN porosity, SCTRD DRK STN, NSFO, TR ODR

Lm- Cream Off White, VF-FXLN, some sl fsl, all mostly tight w/ poor vis. porosity, barren & clean

Lm- Cream Off White, FXLN, sl fsl, poorly dev. w/ sctrd XLN porosity, barren

Lm- Cream Off White, FXLN, fsl & oolitic, mod. well dev. w/ mostly consistent fn ppt inter oolite porosity, some w/ sctrd to dense XLN porosity, LT SCTRD STN, TR SFO, TR ODR

Lm- Cream Off White, FXLN, sl less dev. w/ sctrd XLN porosity, barren

Lm- Cream Off White, VF-FXLN, A/A w/ less development & visible porosity, few pcs sl chalky in part & some soft white chalk, clean & barren

Lm- Gray Buff, VF-FXLN, dense, well cemented, mostly tight w/ sctrd XLN & poor vis. porosity, barren

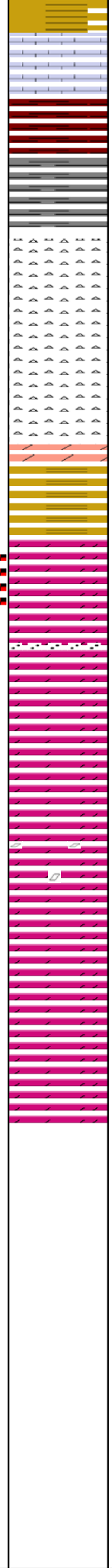
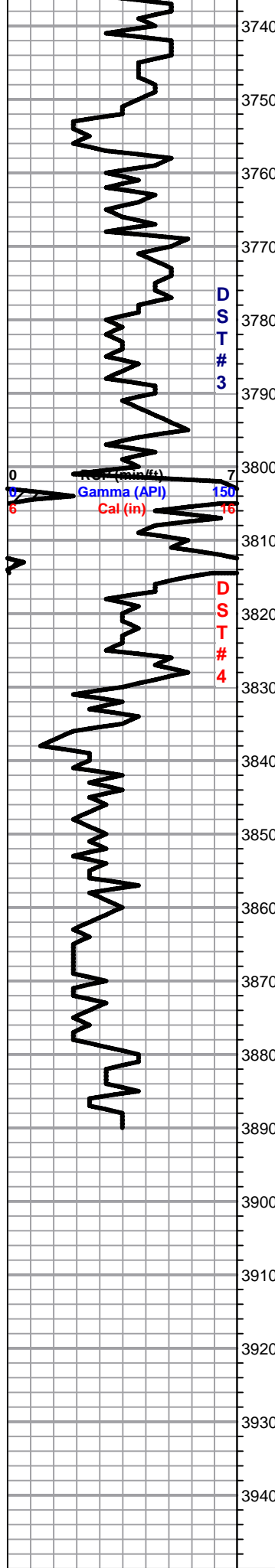
BKC 3729' (-1539) E-LOG 3732' (-1542) Sh- Gray Brown Maroon, dense & waxy, gritty & earthy, gummy wash/clumps

10 STND SHORT TRIP CTCH

DST #2 LKC H-I 3592' - 3630' 30-30-30-30

20' MUD W/ TR OIL (0.1% O)

JFP: 11-16#
 FFP: 16-27#
 SIP: 52-40



Lm- Gray, FXLN, well cemented, sl fsl, sl trashy, sctrd XLN porosity, barren

Sh- Maroon, argillaceous clumps

Sh- Gray Green Maroon, dense & waxy, some sl fsl, gritty & earthy

MARMATON 3771' (-1581) E-LOG 3769' (-1579) Chert- Cream Tan Off White Translucent Slamon, mix of fresh bedded chert w/o vis. porosity, sl fsl dolomitic chert w/ dense XLN porosity, LT SCTRD STN, FEW W/ TR FO, ALL W/ WK-FR ODR

Chert- A/A w/ influx of Cream & Tan, some semi-sucrosic, FEW PCS W/ LT SCTRD STN, NSFO, NODR

Dolomite- Cream Buff, FXLN, dense, well cemented, consistent micro XLN porosity throughout, clean & barren

Sh- Brown Maroon, gritty & earthy

ARBUCKLE 3815' (-1625) E-LOG 3810' (-1620) Dolo- Off White, F-Med XLN, mostly well dev. w/ consistent XLN porosity, some w/ less dev. & micro XLN throughout, ALL W/ FR DRK STN, SOME W/ GSY FRO, FR ODR

Dolo- Off White Cream, VF-Med XLN, mix of tight & poorly dev & sucrosic & well dev. w/ consistent ppt porosity, better dev. w/ LT SCTRD STN, TR FRO, WK ODR, several pcs of sub-rounded, fn grn, sandy dolomite & some w/ qtz (A/A) inclusions

Dolo- Cream, FXLN, well dev. loosely cemented & friable, consistent fn ppt porosity throughout, SAT DRK STN, BLEEDING FREE OIL, GD ODR

Dolo- Cream, FXLN, mix of well cemented & loosely cemented, consistent XLN porosity throughout, SAT DRK STN, NSFO, WK ODR

Dolo- Off White, Med XLN, sucrosic w/ visible euhedral rhombs, ppt inter XLN porosity, SCTRD BLK RESIDUAL STN, NSFO, WK ODR

A/A, STAIN WEAKENING, TR PUNGENT ODR

Dolo- Off White, Med XLN, vry well dev. w/ consistent fn ppt porosity throughout, fn grn sub-angular qtz inclusions, friable, LT STN, VRY GD SFO, GD ODR

Dolo- Off White Cream, VF-FXLN, loosely cemented, consistent micro XLN porosity, barren

Dolo- Bone White, VFXLN, tight cherty dolomite w/ poor vis. porosity, clean & barren

RTD 3890' (-1700) LTD 3888' (-1698) @ 08:57 4/19/2019

DST #3
ARBUCKLE (STRADDLE)
3775' - 3822'
30-30-30-30

520' TOTAL FLUID
225' GIP
110' SLMCO (98%O, 2%M)
40' SLMWCO (94%O, 4%W, 2%M)
185' SLOMCW (9%O, 78%W, 14%M)
185' SL GOMCW (3%G, 5%O, 81%W, 11%M)

IFP: 49-478#
FFP: 183-233#
SIP: 452-434#
BHT: 118 deg.

DST 3_1.jpg
DST 3.jpg

DST #4
ARBUCKLE (STRADDLE)
3812' - 3820'
30-45-30-45

250' TOTAL FLUID
60' GIP
130' SLGCO (4%G, 96%O)
60' HOCM (38%O, 63%M)

Gr: 39.6

IFP: 15-46#
FFP: 59-81#
SIP: 1143-1128#
BHT: 119 deg.

DST 4_1.jpg
DST 4.jpg

CFS 20-40-60
10 STND SHORT TRIP
CTCH 1 HR
SURVEY 3/4 deg
TOH FOR LOG

DST 3_1.jpg



Company: Jason Oil Company, LLC
 Lease: Kraus "B" #2

SEC: 26 TWN: 13S RNG: 20W
 County: ELLIS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 2183 EGL
 Field Name: Irvin
 Pool: Infield
 Job Number: 330

Operation:
 Uploading recovery & pressures

DATE
 April
19
 2019

DST #3 Formation: Arbuckle Test Interval: 3775 - 3822' Total Depth: 3890'
 Time On: 16:57 04/19 Time Off: 23:53 04/19
 Time On Bottom: 18:50 04/19 Time Off Bottom: 20:50 04/19

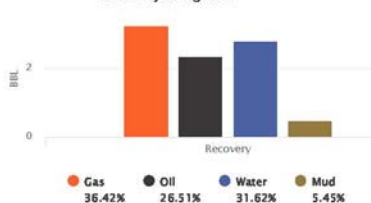
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BEELS					
225	3.20176	G	100	0	0	0
110	1.5653	SLMCO	0	98	0	2
40	0.5692	SLMCSLWCO	0	94	4	2
185	2.620447	SLOCSLMCW	0	9	78	13
185	0.9102	SLGCSLOCSLMCW	3	5	81	11

Total Recovered: 745 ft
 Total Barrels Recovered: 8.866897

Reversed Out
 NO

Initial Hydrostatic Pressure	1870	PSI
Initial Flow	49 to 178	PSI
Initial Closed in Pressure	452	PSI
Final Flow Pressure	183 to 233	PSI
Final Closed in Pressure	434	PSI
Final Hydrostatic Pressure	1866	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	4.0	%

Recovery at a glance



GIP cubic foot volume: 18.12953

DST 3.jpg



Company: Jason Oil Company, LLC
Lease: Kraus "B" #2

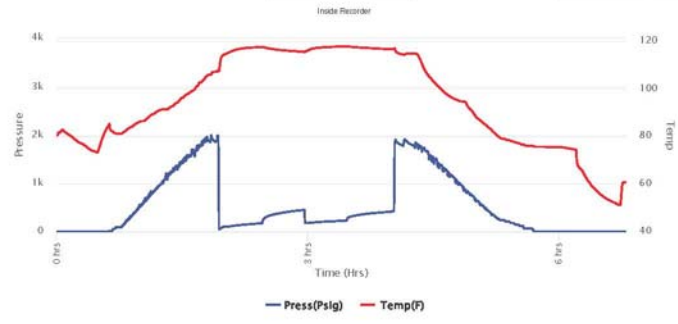
SEC: 26 TWN: 13S RNG: 20W
 County: ELLIS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 2183 EGL
 Field Name: Irvin
 Pool: Infield
 Job Number: 330

Operation:
 Uploading recovery & pressures

DATE
 April
19
 2019

DST #3 **Formation: Arbuckle** **Test Interval: 3775 - 3822'** **Total Depth: 3890'**
 Time On: 16:57 04/19 Time Off: 23:53 04/19
 Time On Bottom: 18:50 04/19 Time Off Bottom: 20:50 04/19

Electronic Volume Estimate:	1st Open	1st Close	2nd Open	2nd Close
666"	Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
	Current Reading: 34.6" at 30 min	Current Reading: .9" at 30 min	Current Reading: 19.3" at 30 min	Current Reading: 3.8" at 30 min
	Max Reading: 34.6"	Max Reading: .9"	Max Reading: 19.3"	Max Reading: 3.8"



DST 4_1.jpg



Company: Jason Oil Company, LLC
 Lease: Kraus "B" #2

SEC: 26 TWN: 13S RNG: 20W
 County: ELLIS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 2183 EGL
 Field Name: Irvin
 Pool: Infield
 Job Number: 330

Operation:
 Uploading recovery & pressures

DATE
 April
20
 2019

DST #4 **Formation:** Arbuckle **Test Interval:** 3812 - 3820' **Total Depth:** 3890'
 Time On: 01:53 04/20 Time Off: 08:33 04/20
 Time On Bottom: 03:52 04/20 Time Off Bottom: 06:22 04/20

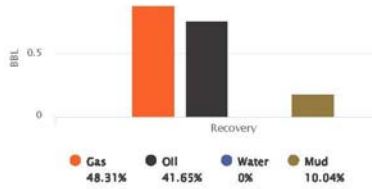
Recovered

Foot	BELS	Description of Fluid	Gas %	Oil %	Water %	Mud %
60	0.8538	G	100	0	0	0
130	0.674047	SLGCO	4	96	0	0
60	0.2952	HOCM	0	38	0	62

Total Recovered: 250 ft
 Total Barrels Recovered: 1.823047

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1833	PSI
Initial Flow	15 to 46	PSI
Initial Closed in Pressure	1143	PSI
Final Flow Pressure	59 to 81	PSI
Final Closed in Pressure	1128	PSI
Final Hydrostatic Pressure	1830	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	1.3	%

GIP cubic foot volume: 4.94504

DST 4.jpg



Company: Jason Oil Company, LLC
Lease: Kraus "B" #2

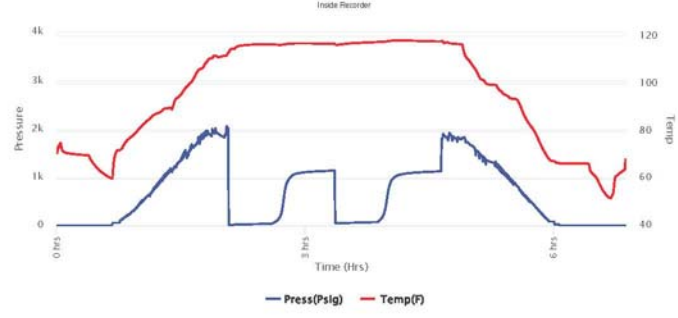
SEC: 26 TWN: 13S RNG: 20W
 County: ELLIS
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 12
 Elevation: 2183 EGL
 Field Name: Irvin
 Pool: Infield
 Job Number: 330

Operation:
 Uploading recovery & pressures

DATE
 April
20
 2019

DST #4 **Formation: Arbuckle** **Test Interval: 3812 - 3820'** **Total Depth: 3890'**
 Time On: 01:53 04/20 Time Off: 08:33 04/20
 Time On Bottom: 03:52 04/20 Time Off Bottom: 06:22 04/20

Electronic Volume Estimate: 256'	1st Open Minutes: 30 Current Reading: 7.5" at 30 min Max Reading: 7.5"	1st Close Minutes: 45 Current Reading: 0" at 45 min Max Reading: 0"	2nd Open Minutes: 30 Current Reading: 6.3" at 30 min Max Reading: 6.3"	2nd Close Minutes: 45 Current Reading: 0" at 45 min Max Reading: 0"
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1318

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-29-17	26	13	30	Ellis	KS		2:00
				Location Ellis 3 E to 150 AK 3 1/2 S W 1/4			

Lease	Kraus	Well No.	B-2	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor				Charge To	Jason Oil
Type Job	Boce Square	T.D.		Street	
Hole Size		Depth	3863'	City	State
Csg.	5' 2" #15.5	Depth	3865'	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size	2 7/8	Depth	3789'	Cement Amount Ordered 1005K com	
Tool	Packer	Shoe Joint		4 cc on # side	
Cement Left in Csg.		Displace		Common used 50	

EQUIPMENT

Pumptrk	5	No.	Cementor	
			Helper	
Bulktrk		No.	Driver	Craig
			Driver	
Bulktrk		No.	Driver	Doug
			Driver	

JOB SERVICES & REMARKS

Remarks: * 505K used 21 cc
 Rat Hole
 Mouse Hole
 Centralizers
 Baskets
 D/V or Port Collar
 * Back side 500
 * 1st gear 2 1/2 hrs 6th gear
 * Pump 505K 21 cc
 * Latched up @ 2500'
 * Washed up
 * Washed around long WSJ
 * 26" 100
 * sand in 2 500ps

Common	used 50
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	100
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Square
Mileage	16

Tax
Discount
Total Charge

X Signature

[Handwritten Signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1323

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-6-79				Ellis	KS		2:30 PM

Location D115 3E 150N 35 W 110

Lease	Well No.	Owner
Kroyse	B-2	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor		
505		
Type Job		
Port Collar		
Hole Size	T.D.	Charge To
7 7/8		Jasmi Oil
Csg.	Depth	Street
5 1/2		
Tbg. Size	Depth	City
7 7/8		State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
	1461	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered
		250 8 3/4 QMDE 1/4 #10
Meas Line	Displace	
	6 BBL	8 gal

EQUIPMENT

Pumptrk	No.	Cementer	Helper
5			
Bulktrk	No.	Driver	Driver
Bulktrk	No.	Driver	Driver
15			

Common	225 6 3/4 QMDE
Poz. Mix	
Gel.	
Calcium	

JOB SERVICES & REMARKS

Remarks: KCC Roy Duke

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Tape 5 1/2 to front

Spill gel + Open Tool Mix

5 gal 4 1/2 gal Circulation Mix 225 gal

Remain Circulation Close to

Pressure to 1000 Run 5 gals

Wash Area

Hulls	
Salt	
Flowseal	50 #
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	750
Mileage	

FLOAT EQUIPMENT

USED 225 gal 8 gal

Quality Oilwell Cementing

Pumptrk Charge port collar

Mileage 1/3

Signature Edly Grayson

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	port collar
Mileage	1/3
Tax	
Discount	
Total Charge	