

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



**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:**  
 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'

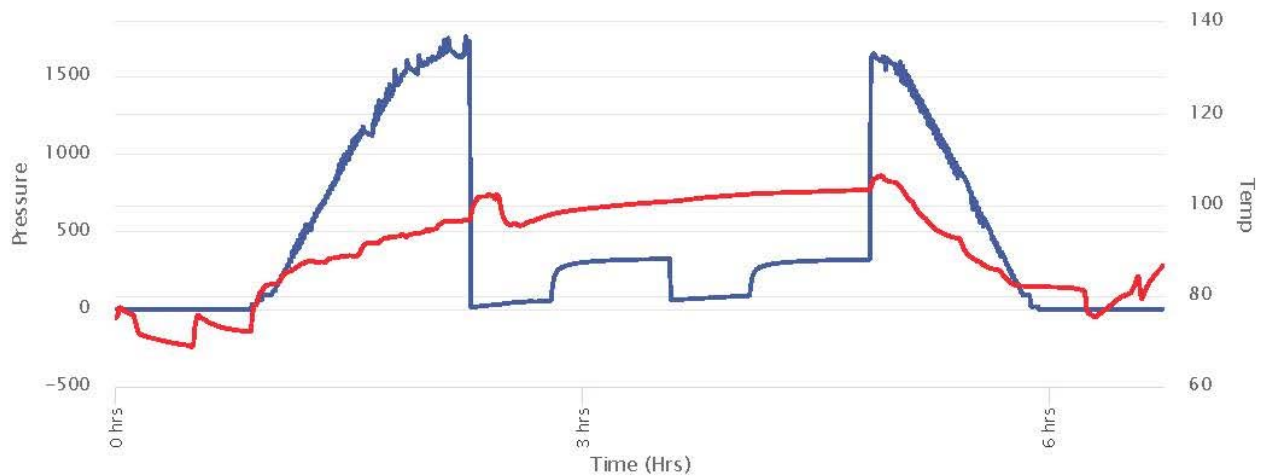
**1st Open**  
 Minutes: 30  
 Current Reading:  
 3.2" at 30 min  
 Max Reading: 3.2"

**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



**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

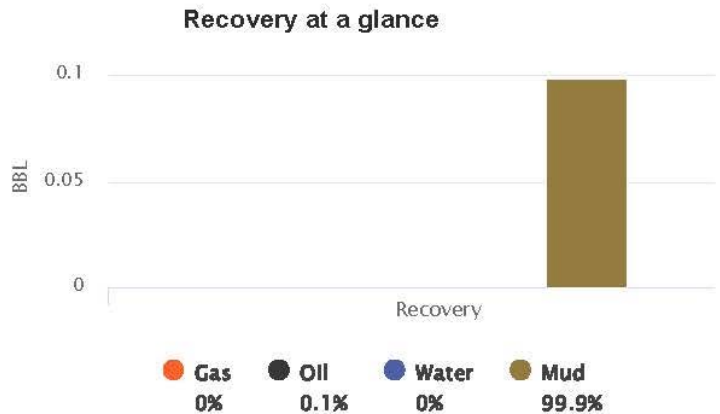
**DST #2**      **Formation: LKC "H-I"**      **Test Interval: 3592 - 3630'**      **Total Depth: 3630'**  
 Time On: 04:47 04/18      Time Off: 11:11 04/18  
 Time On Bottom: 07:23 04/18      Time Off Bottom: 09:23 04/18

<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>	M (trace O)	0	.1	0	99.9
20	0.0984					

Total Recovered: 20 ft  
 Total Barrels Recovered: 0.0984

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1708	PSI
Initial Flow	11 to 16	PSI
<b>Initial Closed in Pressure</b>	<b>52</b>	<b>PSI</b>
Final Flow Pressure	16 to 27	PSI
<b>Final Closed in Pressure</b>	<b>40</b>	<b>PSI</b>
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'

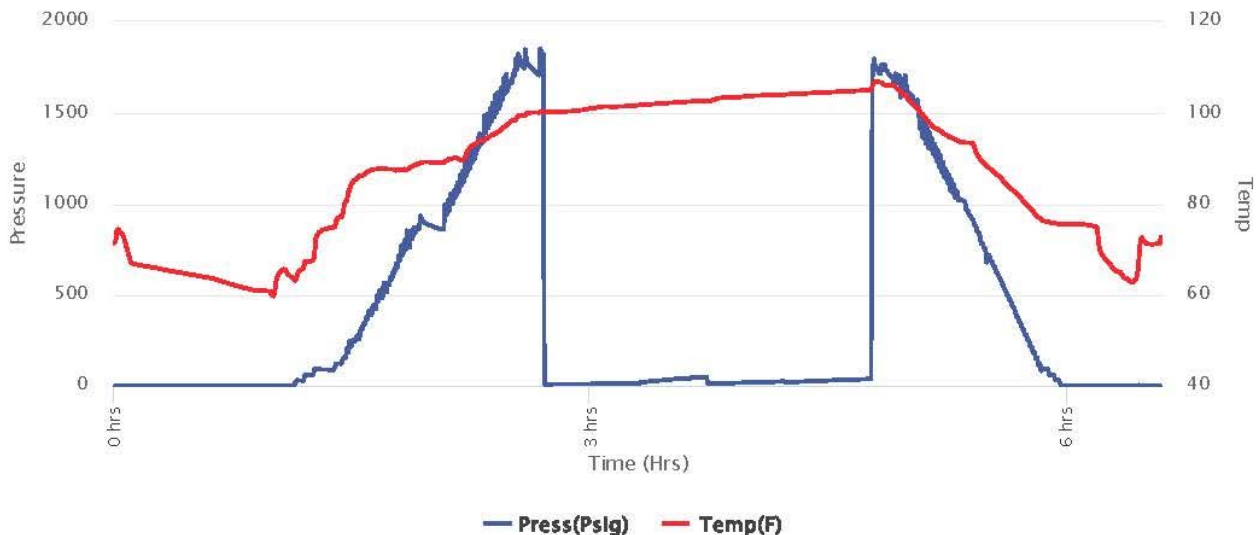
1st Open  
 Minutes: 30  
 Current Reading: .6" at 30 min  
 Max Reading: .6"

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

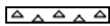










2nd Open  
 Minutes: 30  
 Current Reading: 0" at 30 min  
 Max Reading: 0"

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

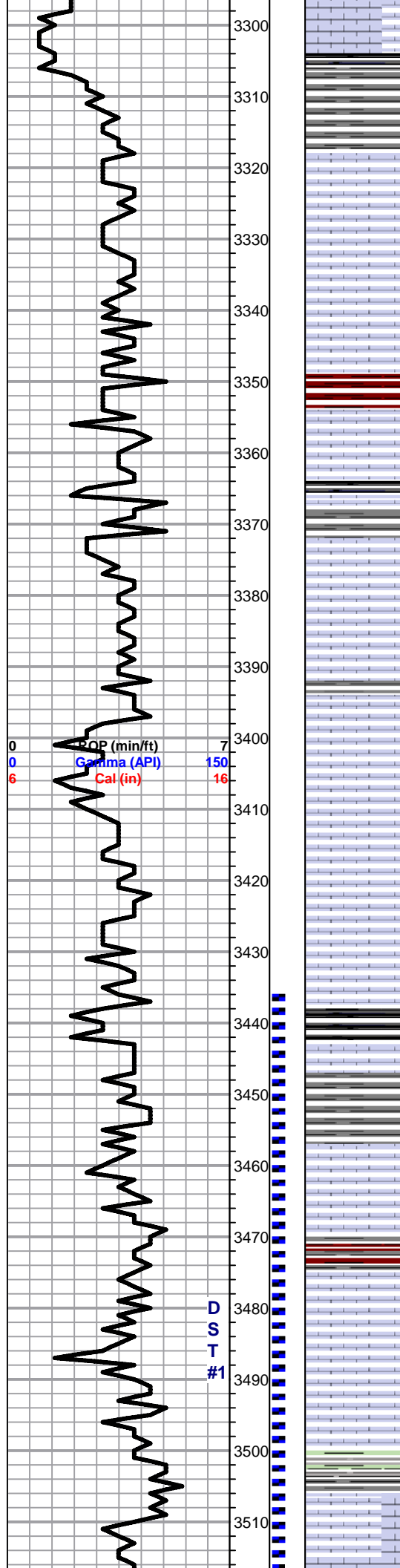
#### DST

-  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) 						
1:240 Imperial						1:240 Imperial
0 ROP (min/ft) 7						
0 Gamma (API) 150						
6 Cal (in) 16						
	3060				<b><u>1' DRILL TIME THROUGH ANHYDRITE FROM 1490' - 1570'</u></b>	
					<b><u>1' DRILL TIME FROM 3100' - RTD</u></b>	
					<b><u>10' WET/DRY SAMPLES FROM 3150' - RTD</u></b>	
	3070				<b>GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 3100' - RTD</b>	
					<b>8 5/8" SURFACE PIPE SET @ 256' SURVEY 1/2 deg</b>	





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

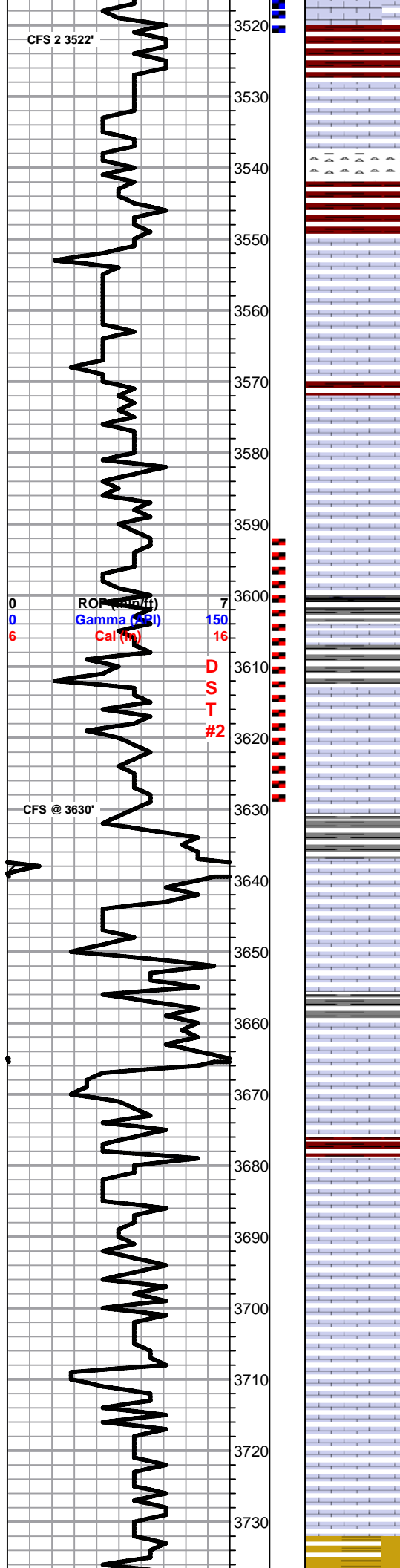
155' TOTAL FLUID 30' MUD 125' HWCM (33%W, 67# M)

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

POP (min/ft) 7  
Gamma (API) 150  
Cal (in) 16

DST #1





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

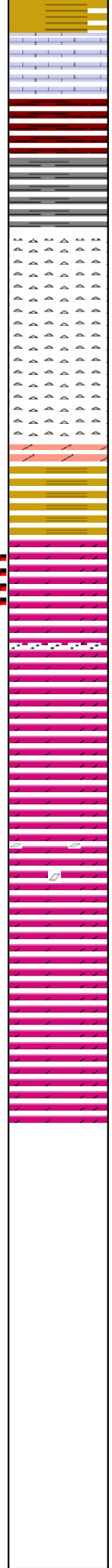
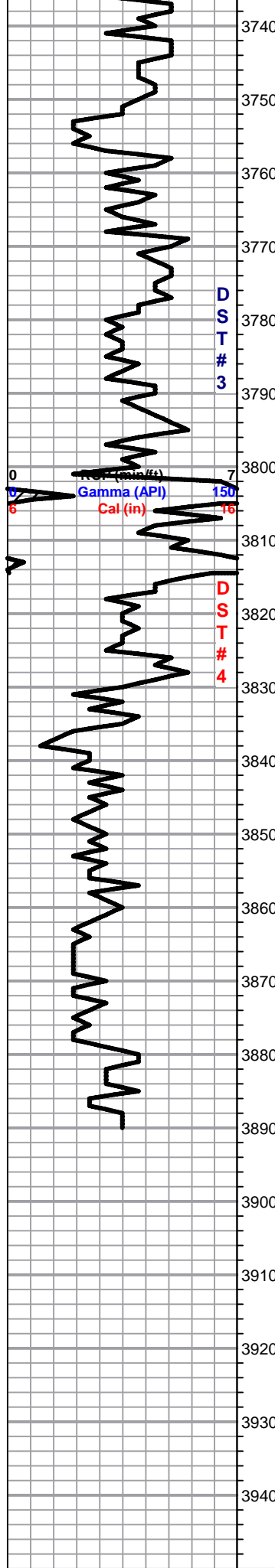
**BKC 3729' (-1539) E-LOG 3732' (-1542)** Sh- Gray Brown Maroon, dense & waxy, gritty & earthy, gummy wash/clumps

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 SCTRDR 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 SCTRDR 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 SCTRDR 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, SCTRDR 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.j...  
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.j...  
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**

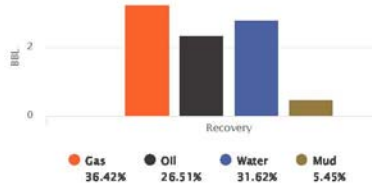
Foot	BEELS	Description of Fluid	Gas %	Oil %	Water %	Mud %
225	3.20176	G	100	0	0	0
110	1.5653	SLMCO	0	98	0	2
40	0.5692	SLMCSLWCO	0	94	4	2
185	2.620447	SLOCSLMCW	0	9	78	13
185	0.9102	SLGCSLOCSLMCW	3	5	81	11

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**

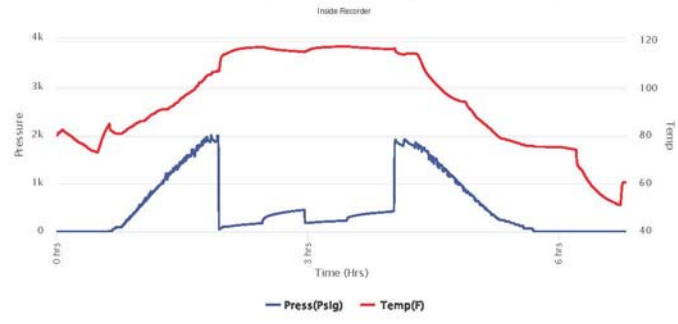
SEC: 26 TWN: 13S RNG: 20W  
 County: ELLIS  
 State: Kansas  
 Drilling Contractor: WW Drilling, LLC - Rig 12  
 Elevation: 2183 EGL  
 Field Name: Irvin  
 Pool: Infield  
 Job Number: 330

**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

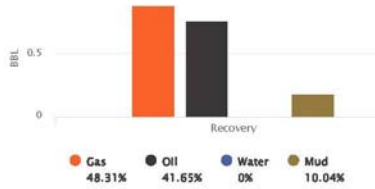
**Recovered**

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°

