

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](mailto: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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Form	ACO1 - Well Completion
Operator	C & K Operating LLC
Well Name	ALAMEDA 10-3
Doc ID	1519134

All Electric Logs Run

Sonic Bond Log
Dual Induction Log
Micro Log
Compensated Density/Neutron PE Log





# Mudgrouve

**Petroleum Geology**  
**212 Main Street, Claflin KS**

## NOTES

Company: C&K OPERATING, LLC

Lease: ALAMEDA #10-3

Field: ALAMEDA

Location: W2-SW-SE-SE (330' FSL & 1150' FEL)

Sec: 28 Twsp: 28S Rge: 7W

County: KINGMAN State: KANSAS

KB: 1611' est. GL: 1601' est.

Contractor: Murffin Drilling, Inc. (Rig #10)

Spud: 12-14-2019 Comp: 12-20-2019

RTD: 4430' LTD: 4432'

Mud Up: 2650' Type Mud: Chemical

Samples Saved From: 2700' to RTD

Drilling Time Kept From: 2700' to RTD

Samples Examined From: 2700' to RTD

Geological Supervision from: 2700' to RTD

Geologist on Well: Wyatt Urban

Surface Casing: 13 3/8"@246'

Production Casing: 5 1/2" @ 4427'

Electronic Surveys: Logged by: ELI Wireline; Micro, Sonic, DIL, DUCP

FORMATION	DRILLING				OIL/GAS				OIL				OIL				OIL											
	C&K OPERATING				KC RESOURCES				TEXACO				TEXACO, INC.				KC RESOURCES											
	ALAMEDA #10-3				#10-2 ALAMEDA OWWO				LECKLIDER #1-A				LOUISE LORD #1				ROBINSON #14-5											
	28-28S-7W				28-28-07W				28-28-7W (C-SW-SE)				28-28S7W (C-NE-SE)				33-28-7W (SE-SE-NE)											
KB		1611		GL		1601		KB		1595		KB		1614		DF		1590		KB		1623						
LOG		SAMPLE		LOG		LOG		SMPL.		LOG ADJ.		LOG		SMPL.		LOG		LOG		SMPL.		LOG						
DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.	DEPTH	S.S.					
BROWN LIME	3284	-1673	3289	-1678														3306	-1683	+	10	+	5					
LANSING	3290	-1679	3294	-1683														3305	-1682	+	3	-	1					
SWOPE	3679	-2068	3685	-2074	3668	-2073	+	6	-	1	3700	-2086	+	18	+	12	3656	-2066	-	-2	-	8	3702	-2079	+	11	+	8
HERTHA	3726	-2115	3725	-2114	3722	-2127	+	12	+	13							3696	-2106	-	-9	-	8	3745	-2122	+	7	+	8
MISS. CHERT	4000	-2389	4005	-2394	3996	-2401	+	11	+	7	4015	-2401	+	12	+	7	3972	-2382	-	-7	-	12	4026	-2403	+	14	+	9
KINDERHOOK	4244	-2633	4245	-2634																								
VIOLA	4356	-2745	4356	-2745	4341	-2746	+	1	+	1	4380	-2766	+	21	+	21	4348	-2758	+	13	+	13	4388	-2765	+	20	+	20
SIMPSON SD.	4389	-2778	4398	-2787							4412	-2798	+	20	+	11	4362	-2772	-	-6	-	15						
RTD	4430	-2819	4430	-2819	4425	-2830	+	11	+	11	4440	-2826	+	7	+	7	4420	-2830	+	11	+	11	4480	-2857	+	38	+	38
LTD	4432	-2821	4432	-2821																								



**Company: C & K Operating, LLC**

**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
 Drilling Contractor: Murffin Drilling Company, Inc - Rig 10  
 Elevation: 1601 Est

**Operation:**

Test Complete

**Lease: Alameda #10-3**

Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API#: 15-095-22332-00-00

**DATE**

December  
**18**  
 2019

**DST #1 Formation: Lans L Test Interval: 3668 - Total Depth: 3704'**  
**3704'**

Time On: 04:30 12/18 Time Off: 11:46 12/18  
 Time On Bottom: 06:54 12/18 Time Off Bottom: 09:24 12/18

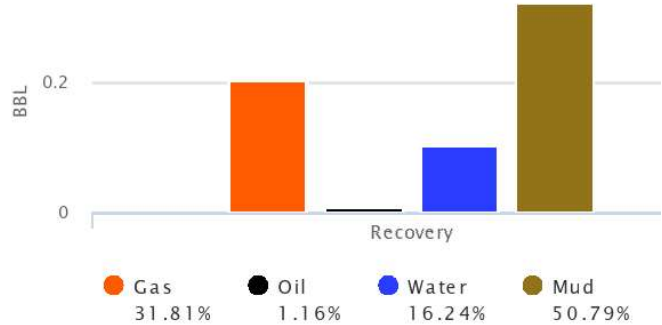
**Recovered**

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
30	0.1935914	G	100	0	0	0
30	0.1476	SLOCM	0	1	0	99
60	0.2952	SLOCSLGCHWCM	3	2	35	60

Total Recovered: 120 ft  
 Total Barrels Recovered: 0.6363914

Reversed Out  
 NO

Initial Hydrostatic Pressure	1811	PSI
Initial Flow	10 to 35	PSI
<b>Initial Closed in Pressure</b>	<b>1071</b>	<b>PSI</b>
Final Flow Pressure	41 to 53	PSI
<b>Final Closed in Pressure</b>	<b>1060</b>	<b>PSI</b>
Final Hydrostatic Pressure	1814	PSI
Temperature	111	°F
Pressure Change Initial Close / Final Close	1.0	%

**Recovery at a glance**

GIP cubic foot volume: 1.13664

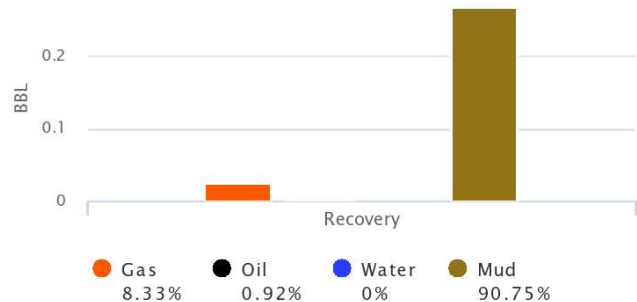
**DST#2 LANSING****Recovered**

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.0246	G	100	0	0	0
55	0.2706	SLOCM	0	1	0	99

Total Recovered: 60 ft  
 Total Barrels Recovered: 0.2952

Reversed Out  
 NO

Initial Hydrostatic Pressure	1809	PSI
Initial Flow	10 to 22	PSI
<b>Initial Closed in Pressure</b>	<b>1200</b>	<b>PSI</b>
Final Flow Pressure	26 to 35	PSI
<b>Final Closed in Pressure</b>	<b>835</b>	<b>PSI</b>
Final Hydrostatic Pressure	1809	PSI
Temperature	109	°F
Pressure Change Initial Close / Final Close	30.4	%

**Recovery at a glance**

GIP cubic foot volume: 0.13812

**BUCKET MEASUREMENT:***Diesel in Bucket*

1st Open: 1/4 in. blow building to 2 ins. in 30 mins.  
 1st Close: Weak blow back.  
 2nd Open: 1/2 in. blow building to 1 1/2 ins. in 45 mins.  
 2nd Close: Weak blow back

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



**Company: C & K Operating, LLC**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc. Fig. 10

# Lease: Alameda #10-3

Company, Inc - Rig 10  
 Elevation: 1601 EGL  
 Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API #: 15-095-22332-00-00

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 December  
**20**  
 2019

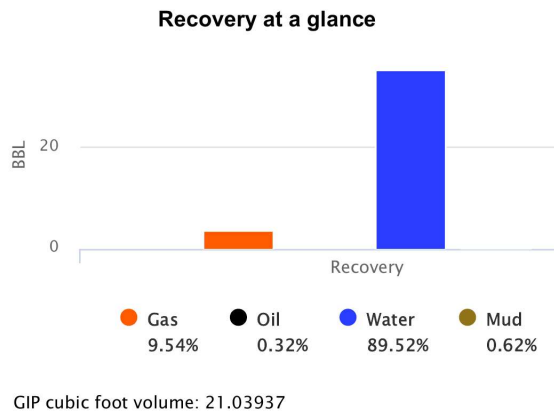
**DST # 3**    **Formation: Viola/ Simp**    **Test Interval: 4360 - 4372'**    **Total Depth: 4372'**  
 Time On: 09:19 12/20    Time Off: 15:48 12/20  
 Time On Bottom: 11:04 12/20    Time Off Bottom: 11:59 12/20

Recovered						
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
252	3.58596	G	100	0	0	0
567	8.06841	SLOCSLGCSLMCW	2	1	94	3
315	4.48245	SLOCW	0	1	99	0
1701	23.1340214	W	0	0	100	0

Total Recovered: 2835 ft  
 Total Barrels Recovered: 39.2708414

Reversed Out  
 NO

Initial Hydrostatic Pressure    2121    PSI  
 Initial Flow    134 to 760    PSI  
**Initial Closed in Pressure    1597    PSI**  
 Final Flow Pressure    1032 to 1351    PSI  
**Final Closed in Pressure    1597    PSI**  
 Final Hydrostatic Pressure    2119    PSI  
 Temperature    144    °F  
  
 Pressure Change Initial    0.0    %  
 Close / Final Close



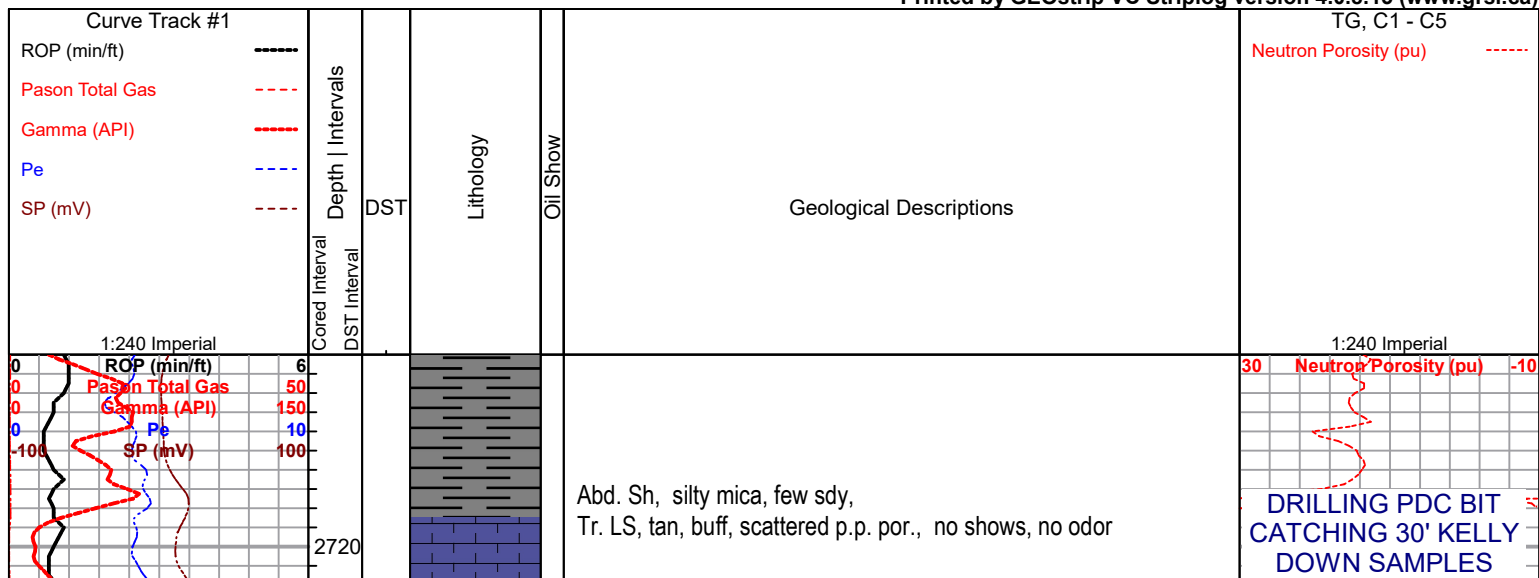
## ROCK TYPES

Cht	Dolsec	shale, gry	Ss
Coal	Lmst fw<7	Carbon Sh	
Dolprim	shale, grn	shale, red	

## OTHER SYMBOLS

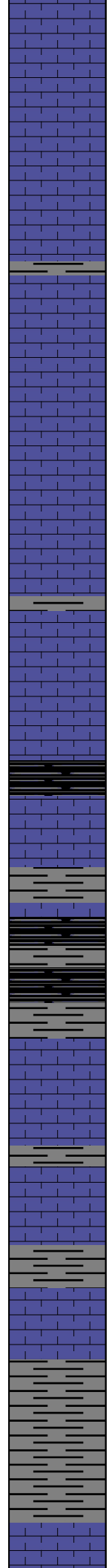
- Oil Show**
- Good Show
  - Fair Show
  - Poor Show
  - Spotted or Trace
  - Questionable Stn
  - D Dead Oil Stn
  - Fluorescence
  - \* Gas
- DST**
- DST Int
  - DST alt
  - Core
  - tail pipe

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



2740  
2760  
2780  
2800  
2820  
2840  
2860  
2880  
2900  
2920  
2940

ROP (min/ft) 6  
Pason Total Gas 50  
Gamma (API) 150  
Pe 10  
SP (mV) 100



LS cream, to tan , few foss, fair p.p. porosity, chalky, no odor no shows

LS, tan, buff, foss, scattered vuggy type porosity, no shows

LS, tan, foss, scattered- vuggy type porosity . no shows, no odor

Sh abundt gry, waxey sl. chalky, few foss, no shows, no odor

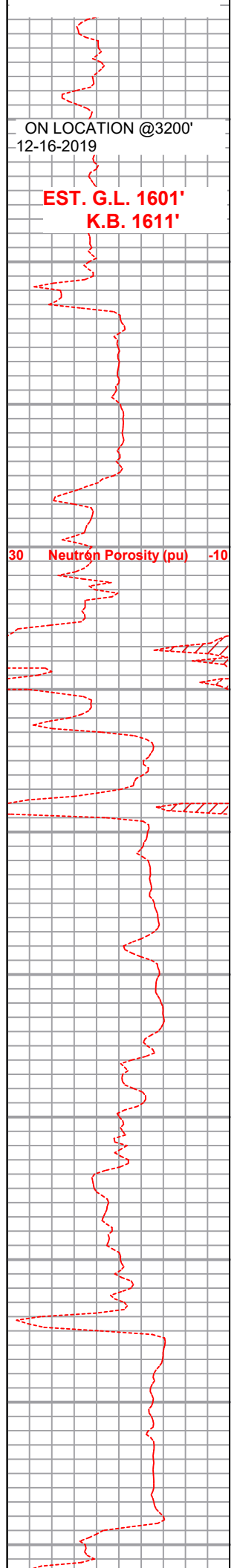
Tr. Sh, gry, slty, soft .

LS tan brn, mottled, poor scattered p.p. / vuggy type por. chalky in pts, no shows,  
Tr. blk carb Sh

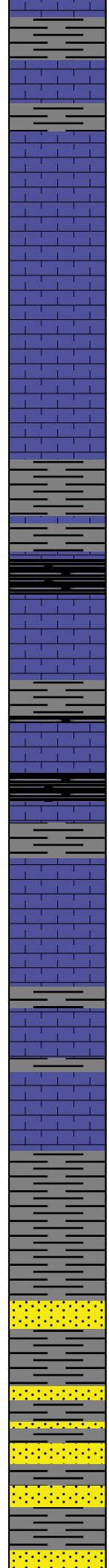
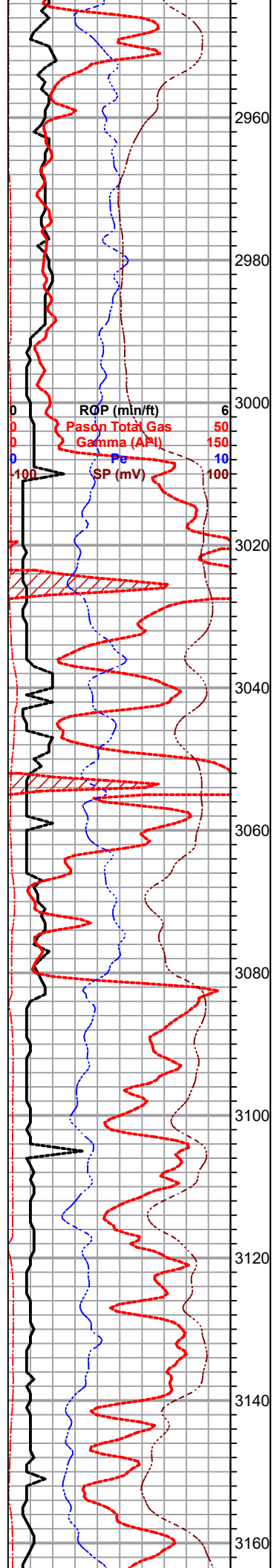
ON LOCATION @3200'  
12-16-2019

**EST. G.L. 1601'**  
**K.B. 1611'**

30 Neutron Porosity (pu) -10







LS, white, foss, scattered vuggy type por., chalky, tr. brn discoloration, nsfo, no odor

Tr black carb Sh. (3072 samp.)

Tr. Dol. white, med - coarse xln. good inxln por. tr. brn flky discoloration. no odor, nsfo, ??? caving???

**Heebner 3054.0 (-1443.0)**

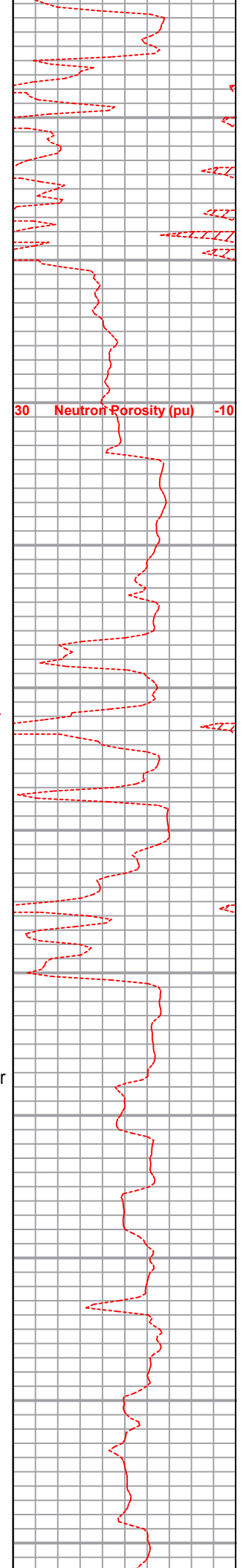
LS, cream tan dense, poor vis. por., no shows no odor  
Tr white gry chert

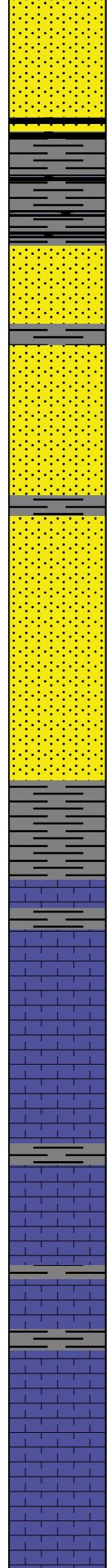
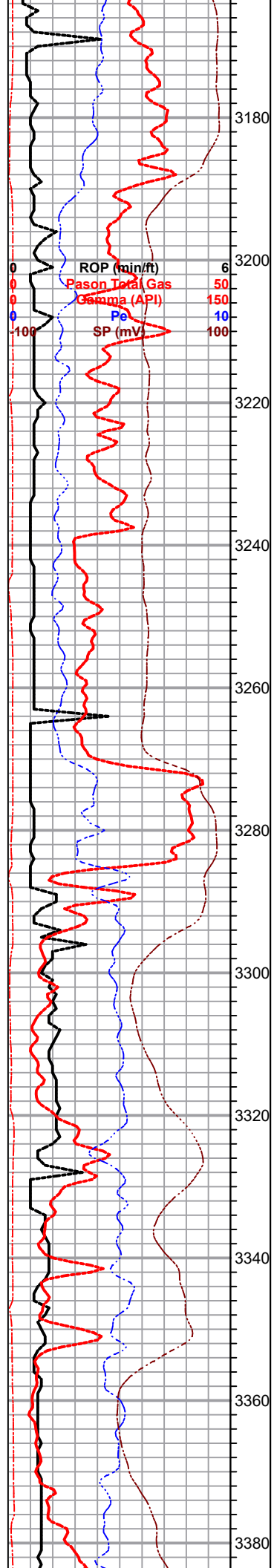
Sh, black carb

LS, white, tan, sdy, fair scattered por., sl. chalky, no shows, no odor

Sh, gry, silty- sandy, f. grain, mica., fair- good inner gran. por. no shows, no odor

Sd, a/a, inc. in dk gry silty sh.,  
Med grain, rounded, good inner gran. por., no shows, no odor





Sd, a/a, Tr. silty sh

Sd, gry, lt gry, med grain, good inner por., no shows, no odor  
Tr. gry, blk shale, silty, few soft

Sd a/a

**Brown Lime 3289.0 (-1678.0)**

Tr.LS brn fxl dense (3263 sample)

**Lansing 3294.0 (-1683.0)**

LS, tan, cream, sl chalky, poor vis. p.p. porosity, no shows, no odor

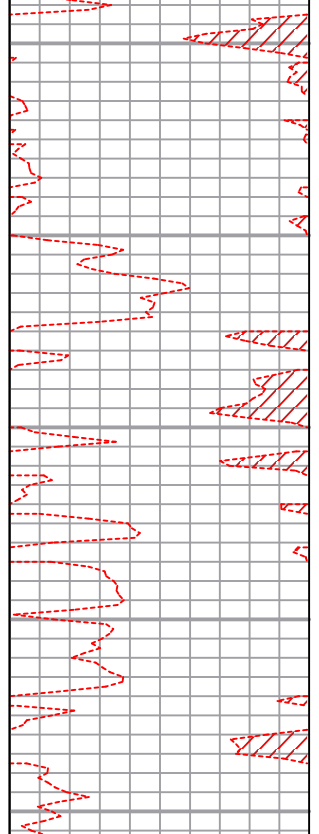
LS, cream, tan, foss, poor scattered por., dense, no shows, no odor

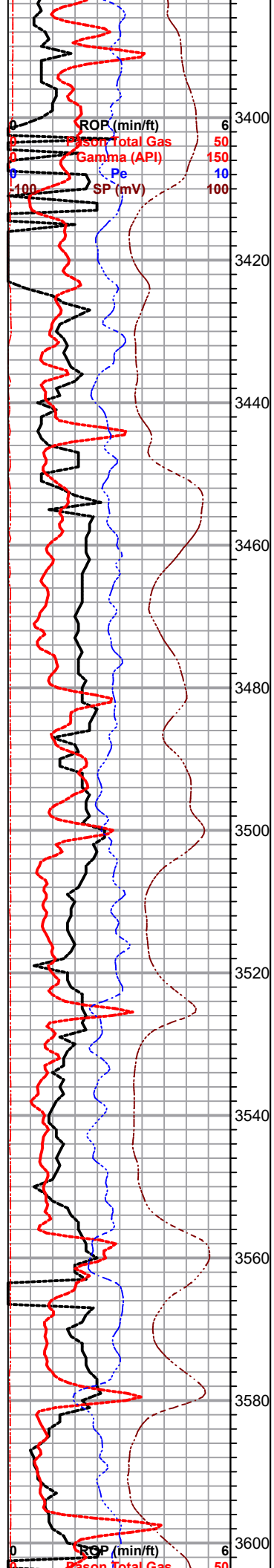
LS, tan, mottled, fxl, dense, poor vis por. no shows, no odor

LS, tan, gry, fxl, dense, poor vis por., sl. chalky, no shows no odor  
Few tan, buff cherts, tr. pyrite

30 Neutron Porosity (pu) -10

3295' sample was 90% med grain sand 10% white FXL chalky, LS,





LS, tan, buff, foss, chalky poor vis porosity, no shows, no odor (abd aqua green, dk gry sh.)

LS tan, gry, mottled, poor vis por, no shows, no odor

LS, dense, tan, buff, fxl, poor vis. por., sl. cherty, no shows, no odor tr. pyrite.

LS, cream, tan, foss, poorly developed scattered p.p.-vuggy por., (1) spot of free oil floating could not find source

LS, tan, brn, mottled, dense, slug black/ dk gry sh. no shows, no odor

LS, a/a  
Slug dk gry, blk carb sh

LS, tan, brn, fxl, dense, poor p.p. por., no shows, no odor

Slug dk black- gry shale

LS, brn, foss, scattered vuggy/oom type por., tr blk stain, nsfo, no odor, tr pyrite

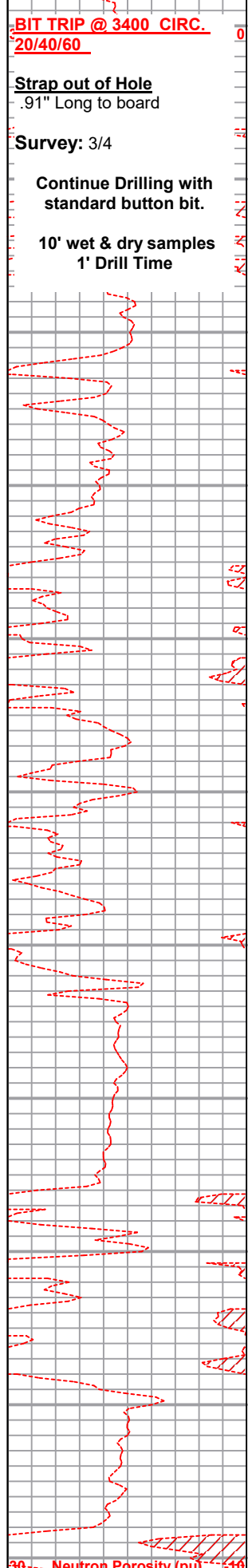
Sh, black carb

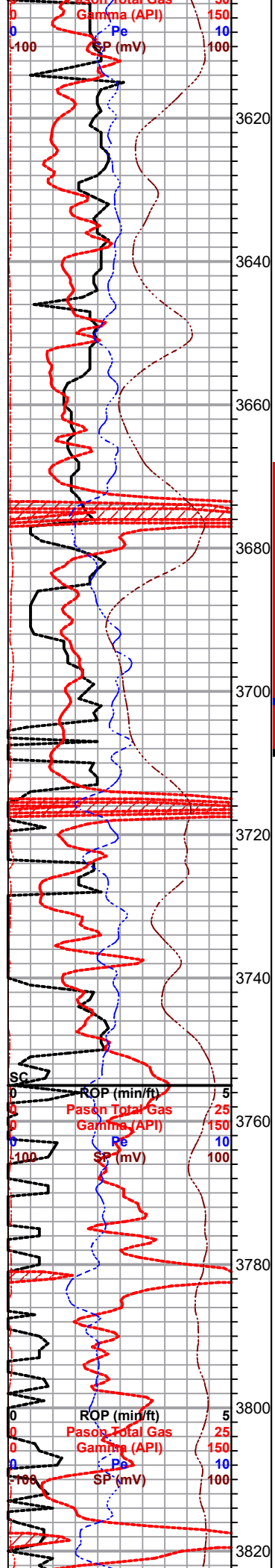
LS, foss, fair p.p por. sl. chakly tr. blk / brn discoloration, no sfo, no odor

LS, gry, dense, poor vis porosity, no shows

LS, tan, buff, gran./sdy, good inner por. , dk blk flakey stain, tr. pyrite, nsfo

LS, tan, cream, foss, fair scattered por. blk flakey stain, nsfo, no odor





Tr. dk gry- blk carb sh

LS, brn, fxl, dens, poor vis por. cherty in pts,

Abd. black carb Sh, tr. white chert

LS, tan, buff, few ool, poorly developed scattered p.p. - vuggy type por., nsfo, no odor

LS, tan, brn, fxl, dense, cherty, poor vis. porosity, nsfo, no odor, tr.tan, white cherts & pyrite,

**DST # 1 3668-3704**

○ LS, brn, dense, poor vis por. nsfo  
Tr. LS, tan, dol, fair inxln por., tr. dk gry-blk stain, nsfo, no odor

● LS, tan, dol., fair inxln por., lt. brn - dk brn stain, tarry / heavy SFO, ??? odor

Slug blocky black carb sh.

**Lansing-L (Swope) 3685.0 (-2074.0)**

● LS, tan, oom, good vuggy oom porosity, sl. chalky, dk brn stain, Lt. brn-dk brn SFO / Saturation, Faint odor when crushed, few vis gas bubbles.

**DST#2 3710 - 3750**

LS, tan, brn, fxl, dense, poor vis. porosity cherty no shows

abd. black - dk gry sh. waxy

● LS, cream, buff, few ool, poorly developed vuggy por., sl. tan- brn stain, wk. sfo, ft. odor in broken samples. no vis gas bubbles

○ LS, tan, buff dol., sl. chalky, fair - poor inxln por., lt. brn stain on few tr..ool LS, w/ poorly developed vuggy por. tr. sfo (v. lt. oil), faint odor in broken samples

abd, dk gry- blk sh.

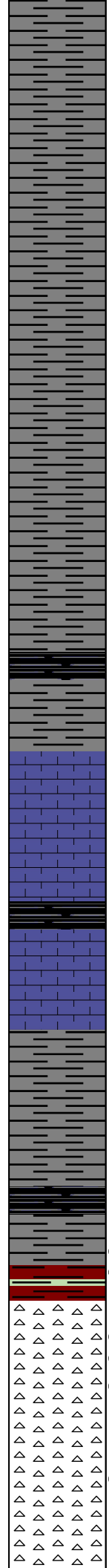
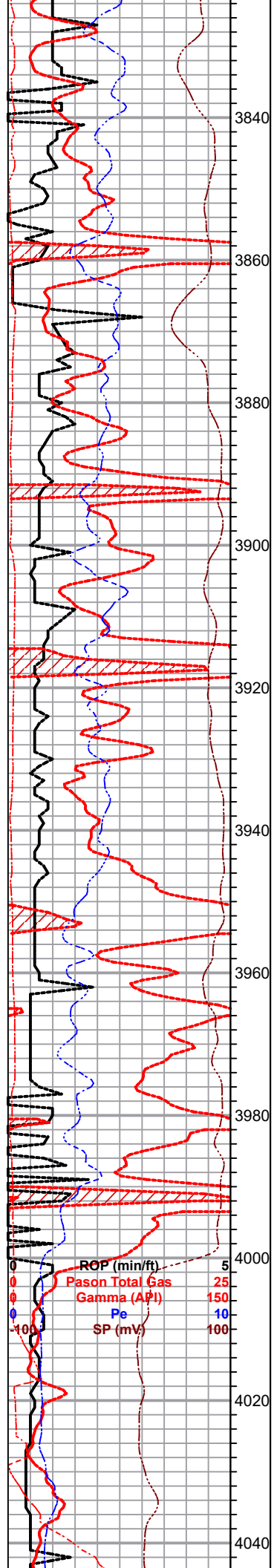
**After DST # 2 Drilled On with PDC bit. 30' SAMPLES**

Sh, maroon, purp.. dk gry & blk

Tr LS, brn, fxl, dense poor vis por.. / cherty, no shows no odor

Sh gry, maroon, slty - waxey tr. pyrite nodules no shows no odor

30 Neutron Porosity (pu) -10



Sh, dk gry, silty

Tr LS, tan, buff, few ool, poorly developed, no shows

LS, tan, buff, few foss, dense, poor vis. por., chalky, no shows, no odor tr. dk gry silty soft sh.

Sh, maroon, purp. greenish, few rust

Sh, dk gry, platey /waxey

LS, gry, fxl, dense, poor vis. porosity no shows

Sh, black carb

Sh, dk gry, purp, few aqua green few gry dol. shales . no shows no odor

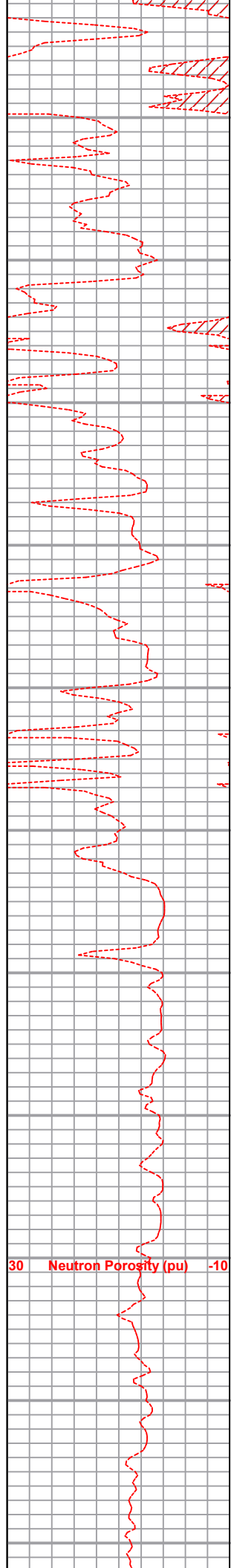
Vc dark shales, & silty dk gry sh.

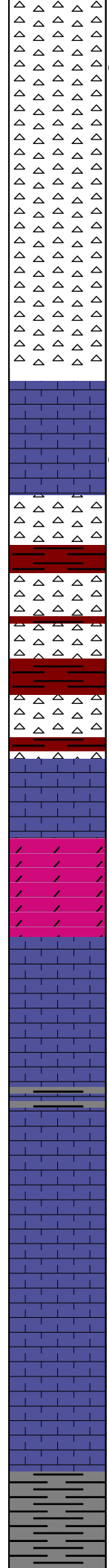
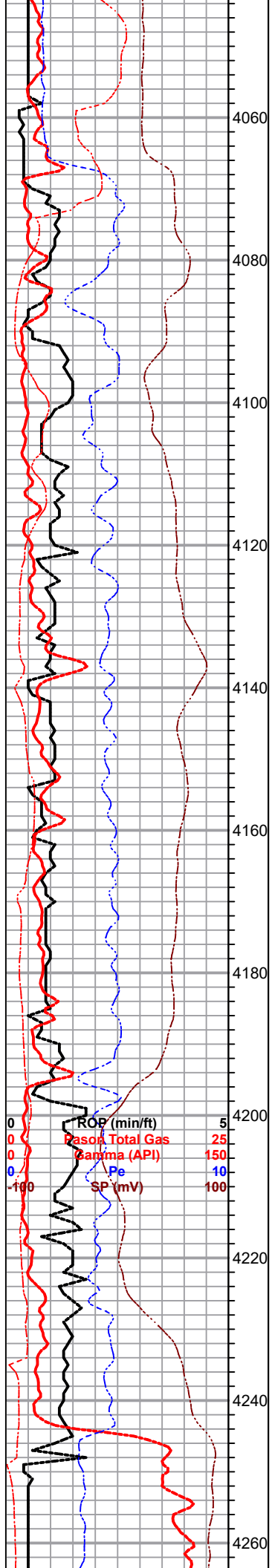
Sh, gry, puple, silty, few dol,  
Trc, LS, white, foss, frosted / sparry calcite cement, lt. sppted brn stain, (oil did not break free from pores.)

**Miss. 4005.0 (-2394.0)**

Chert, white - tan, tripolitic, poor scattered vuggy type pors. tr. blk - tan stain , heavy tarry dead oil in few vugs, no odor (v weak flakey skim of oil out of crushed samples.

Chert, white, trans., tr. blk flky stain on few , inc. in pyrite





Chert a/a, Few with dark blk tarry stains, no lt. brn sfo, no odor.  
Tr. few dol, tan, buff, sdy, tr blk spty stain, nsfo, no odor in crushed samples

Dol, white, cream, sl. dense, poor- fair inxln por, lt. spty golden brn stain, lt. spty sfo in crushed samples, no odor ,  
Abd. slug black & aqua green sh.,

**4120 sample**-LS, white, crm , few foss, fair scattered p.p. por, dense, tr. blk stain on few, tr. spty blk flakey sfo,  
Tr Dol., few white , dense, poor inxln por, lt.-dk blk stain spty flakey sfo (tan - dk brn), no odor , few vis. gas bubbles ,  
Tr. dense, aquagreen dolomitic / sdy sh.

Slug of red, brick red, maroon, blocky shale,  
Tr. white crm LS, dense, poor vis porosity, no shows, no odor,  
Tr. white chert, fresh, trans. tr. blk flakey stain no shows, no odor

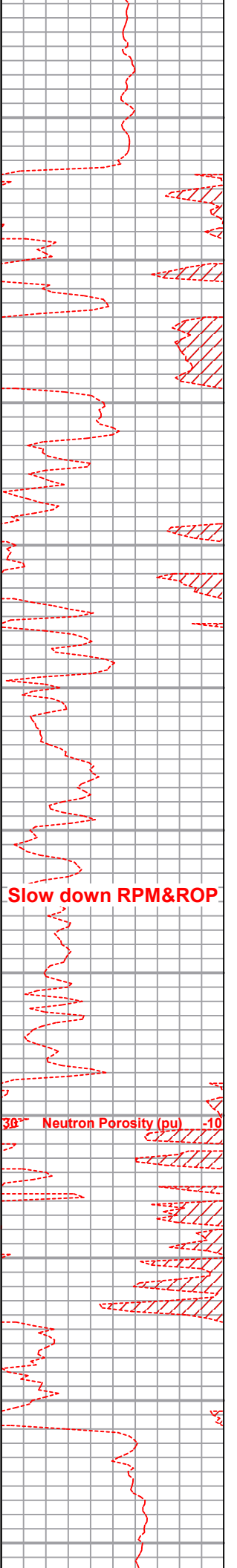
**4183 SAMPLE** - Sh. maroon, gry, dk gry , dolomitic, Tr.Dol., maroon tinted, fxl, suc. fair inxln por., no sfo , no odor ,  
Tr. white tan, cherts

LS, buff, tan, dense, poor vis. por. chalky, no shows

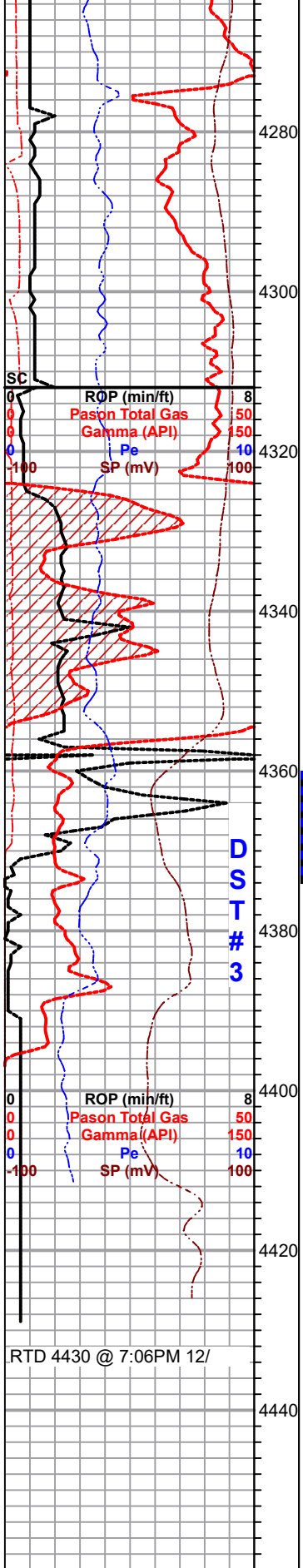
Slug, maroon, dk gry,

LS, tan, buff, dense poor vis por., dense, no shows

LS, white to cream, fxl, dense, cherty , tr pyrite , no shows  
Tr. white fresh trans.. chert



Slow down RPM&ROP



Sh, dk gry, waxy,

Sh gry, blk, waxey

.Sh, gry silty , soft, mica,

Sh, a/a, inc. in dolomitic.

**Viola 4356.0 (-2745.0)**

● Dol, gry, med-xln, lt. sppty brn stain, sfo, faint to fair odor .

● Dol, gry, corse - med xln, lg. rhombic crystals, dk brn stain, sppty brn sfo, faint odor

○ Dol., gry, med - fxln, few suc. good inxln por., Lt. golden brn stain, lt. brn sppty sfo, strong odor

○ 60" SAMPLE - Dol. white, gry, med-coarse xln por., lt. sppty blk stain, tr. brn/ blk sppty sfo, strong odor, Tr. pyrite inclusions.

Poor samples after dst# 4

○ Dol., gry, med xln, dense, poor inxln por., tr. blk sppty sfo, st. odor, Abund. dk blk - gry waxey sh.

○ Dol, white, suc. fair inxln por., few dense, nsfo, no odor

○ Dol, tan, fxl, dense, few suc. lt. brn stain on few, weak sppty sfo, no odor in samples TR. Sd. @ 3998 ,

○ Sd. gry, med grain, well sorted, tr. blk stain, weak sppty brn sfo in few, tr. glauc., tr. pyrite

○ Sd. f- med grain, well sorted, flakey black (dead) sfo, ??? odor in samples, tr. glauc., tr. pryite.

**RTD 4430.0 (-2819.0)**

**LTD 4432.0 (-2821.0)**

**DST #3 4360-4372**

30 Neutron Porosity (pu) -10



**Company: C & K Operating, LLC**

**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
 Elevation: 1601 EGL  
 Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API #: 15-095-22332-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**18**  
 2019

**DST #2 Formation: Lans M Test Interval: 3710 - 3750' Total Depth: 3750'**  
 Time On: 19:44 12/18 Time Off: 02:30 12/19  
 Time On Bottom: 21:30 12/18 Time Off Bottom: 00:15 12/19

Electronic Volume Estimate:  
 95'

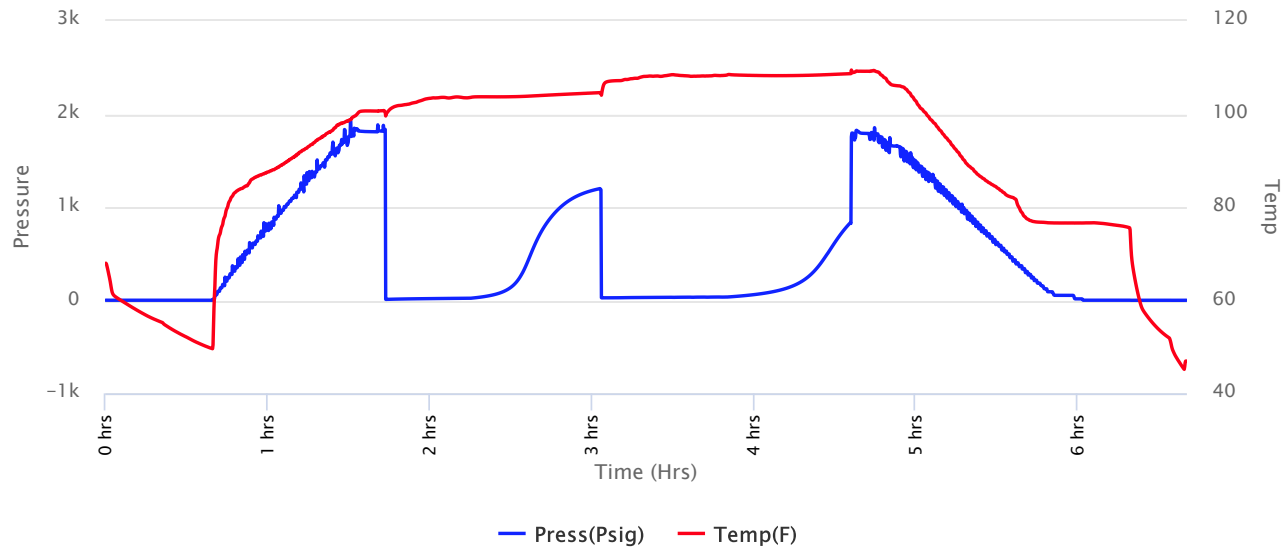
1st Open  
 Minutes: 30  
 Current Reading:  
 1.9" at 30 min  
 Max Reading: 1.9"

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

2nd Open  
 Minutes: 45  
 Current Reading:  
 1.4" at 45 min  
 Max Reading: 1.4"

2nd Close  
 Minutes: 45  
 Current Reading:  
 .1" at 45 min  
 Max Reading: .1"

Inside Recorder







**Company: C & K Operating, LLC**

**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
 Elevation: 1601 EGL  
 Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API #: 15-095-22332-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**18**  
 2019

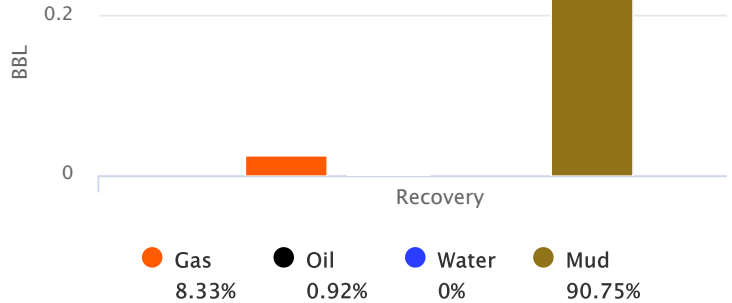
**DST #2**      **Formation: Lans M**      **Test Interval: 3710 - 3750'**      **Total Depth: 3750'**  
 Time On: 19:44 12/18      Time Off: 02:30 12/19  
 Time On Bottom: 21:30 12/18      Time Off Bottom: 00:15 12/19

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.0246	G	100	0	0	0
55	0.2706	SLOCM	0	1	0	99

Total Recovered: 60 ft  
 Total Barrels Recovered: 0.2952

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1809	PSI
Initial Flow	10 to 22	PSI
<b>Initial Closed in Pressure</b>	<b>1200</b>	<b>PSI</b>
Final Flow Pressure	26 to 35	PSI
<b>Final Closed in Pressure</b>	<b>835</b>	<b>PSI</b>
Final Hydrostatic Pressure	1809	PSI
Temperature	109	°F

Pressure Change Initial Close / Final Close      30.4      %

GIP cubic foot volume: 0.13812



# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**18**  
2019

**DST #2      Formation: Lans M      Test Interval: 3710 - 3750'      Total Depth: 3750'**  
Time On: 19:44 12/18      Time Off: 02:30 12/19  
Time On Bottom: 21:30 12/18      Time Off Bottom: 00:15 12/19

**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: 1/4 Blow. Built to 2 inches in 30 mins

1st Close: Weak Blow Back

2nd Open: 1/2 Blow. Built to 1 1/2 inch in 45 mins

2nd Close: Weak Blow Back

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**18**  
2019

**DST #2**      **Formation: Lans M**      **Test Interval: 3710 - 3750'**      **Total Depth: 3750'**  
Time On: 19:44 12/18      Time Off: 02:30 12/19  
Time On Bottom: 21:30 12/18      Time Off Bottom: 00:15 12/19

### Down Hole Makeup

<b>Heads Up:</b> 10.88 FT	<b>Packer 1:</b> 3705 FT
<b>Drill Pipe:</b> 3580.66 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3710 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3697 FT
<b>Collars:</b> 115.06 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3712 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 40	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 39 FT <i>4 1/2-FH</i>	



# Company: C & K Operating, LLC

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10

**Operation:**  
Uploading recovery &  
pressures

# Lease: Alameda #10-3

Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**DATE**  
December  
**18**  
2019

**DST #2**      **Formation: Lans M**      **Test Interval: 3710 - 3750'**      **Total Depth: 3750'**  
Time On: 19:44 12/18      Time Off: 02:30 12/19  
Time On Bottom: 21:30 12/18      Time Off Bottom: 00:15 12/19

## Mud Properties

**Mud Type:** Chem      **Weight:** 9.4      **Viscosity:** 51      **Filtrate:** 8.8      **Chlorides:** 5000 ppm



**Operation:**

**Company: C & K Operating, LLC**  
**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda

Uploading recovery & pressures

Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**DATE**  
December  
**18**  
2019

**DST #2      Formation: Lans M      Test Interval: 3710 - 3750'      Total Depth: 3750'**  
Time On: 19:44 12/18      Time Off: 02:30 12/19  
Time On Bottom: 21:30 12/18      Time Off Bottom: 00:15 12/19

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

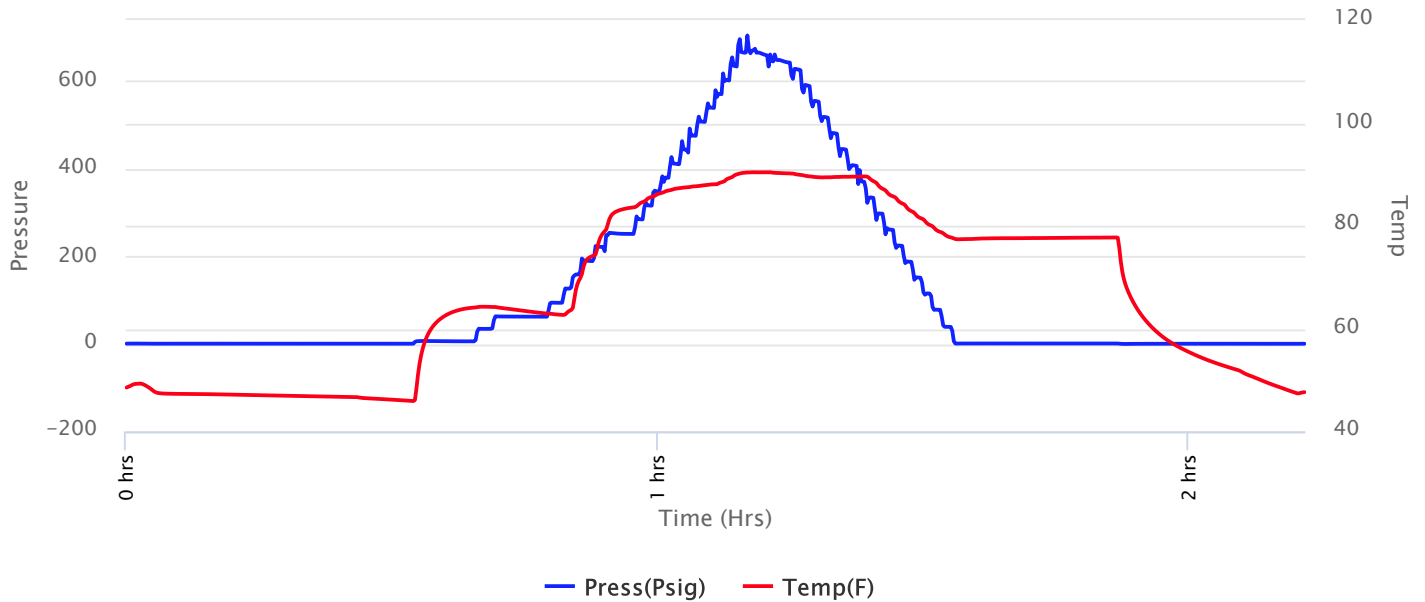
**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**20**  
2019

**DST #3**      **Formation: Viola/Simp**      **Test Interval: 4317 - 4372'**      **Total Depth: 4372'**  
Time On: 07:03 12/20      Time Off: 09:12 12/20  
Time On Bottom: 00:00 01/01      Time Off Bottom: 00:00 01/01

Electronic Volume Estimate:      1st Open      1st Close      2nd Open      2nd Close  
0'      N/A      N/A      N/A      N/A

Inside Recorder





**Company: C & K Operating, LLC**

**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
 Elevation: 1601 EGL  
 Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API #: 15-095-22332-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**20**  
 2019

**DST #3**      **Formation: Viola/Simp**      **Test Interval: 4317 - 4372'**      **Total Depth: 4372'**  
 Time On: 07:03 12/20      Time Off: 09:12 12/20  
 Time On Bottom: 00:00 01/01      Time Off Bottom: 00:00 01/01

Recovered

<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
-------------	-------------	-----------------------------	--------------	--------------	----------------	--------------

Total Recovered: 0 ft  
 Total Barrels Recovered: 0

Reversed Out  
 NO

Initial Hydrostatic Pressure	0	PSI
Initial Flow	0	PSI
<b>Initial Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Flow Pressure	0	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	0	PSI
Temperature	0	°F
Pressure Change Initial Close / Final Close	0.0	%



# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**20**  
2019

<b>DST #3</b>	<b>Formation: Viola/ Simp</b>	<b>Test Interval: 4317 - 4372'</b>	<b>Total Depth: 4372'</b>
	Time On: 07:03 12/20	Time Off: 09:12 12/20	
	Time On Bottom: 00:00 01/01	Time Off Bottom: 00:00 01/01	

**BUCKET MEASUREMENT:**

**REMARKS:**

Miss Run do to incorrect anchor length that was told to tester.





**Company: C & K Operating, LLC**

**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
 Elevation: 1601 EGL  
 Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API #: 15-095-22332-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**20**  
 2019

**DST #3**      **Formation: Viola/ Simp**      **Test Interval: 4317 - 4372'**      **Total Depth: 4372'**  
 Time On: 07:03 12/20      Time Off: 09:12 12/20  
 Time On Bottom: 00:00 01/01      Time Off Bottom: 00:00 01/01

**Down Hole Makeup**

<b>Heads Up:</b> 15.37 FT	<b>Packer 1:</b> 4312.22 FT
<b>Drill Pipe:</b> 4184.96 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4317.22 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4301.64 FT
<b>Collars:</b> 115.06 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4355 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 54.78	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 2 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	

**Drill Pipe: (in anchor):** 31.78 FT  
*ID-3 1/2*

**Change Over:** 1 FT

**Perforations: (below):** 18 FT  
*4 1/2-FH*



**Company: C & K Operating, LLC**  
**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**20**  
2019

**DST #3**      **Formation: Viola/ Simp**      **Test Interval: 4317 - 4372'**      **Total Depth: 4372'**  
Time On: 07:03 12/20      Time Off: 09:12 12/20  
Time On Bottom: 00:00 01/01      Time Off Bottom: 00:00 01/01

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.3      **Viscosity:** 50      **Filtrate:** 8.8      **Chlorides:** 5000 ppm



**Company: C & K Operating, LLC**  
**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
 Elevation: 1601 EGL  
 Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API #: 15-095-22332-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**20**  
 2019

**DST #3**      **Formation: Viola/Simp**      **Test Interval: 4317 - 4372'**      **Total Depth: 4372'**  
 Time On: 07:03 12/20      Time Off: 09:12 12/20  
 Time On Bottom: 00:00 01/01      Time Off Bottom: 00:00 01/01

**Gas Volume Report**

1st Open

2nd Open

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

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





# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**20**  
2019

**DST #4**      **Formation: Viola/ Simp**      **Test Interval: 4360 - 4372'**      **Total Depth: 4372'**  
Time On: 09:19 12/20      Time Off: 15:48 12/20  
Time On Bottom: 11:04 12/20      Time Off Bottom: 11:59 12/20

Electronic Volume Estimate:  
3165'

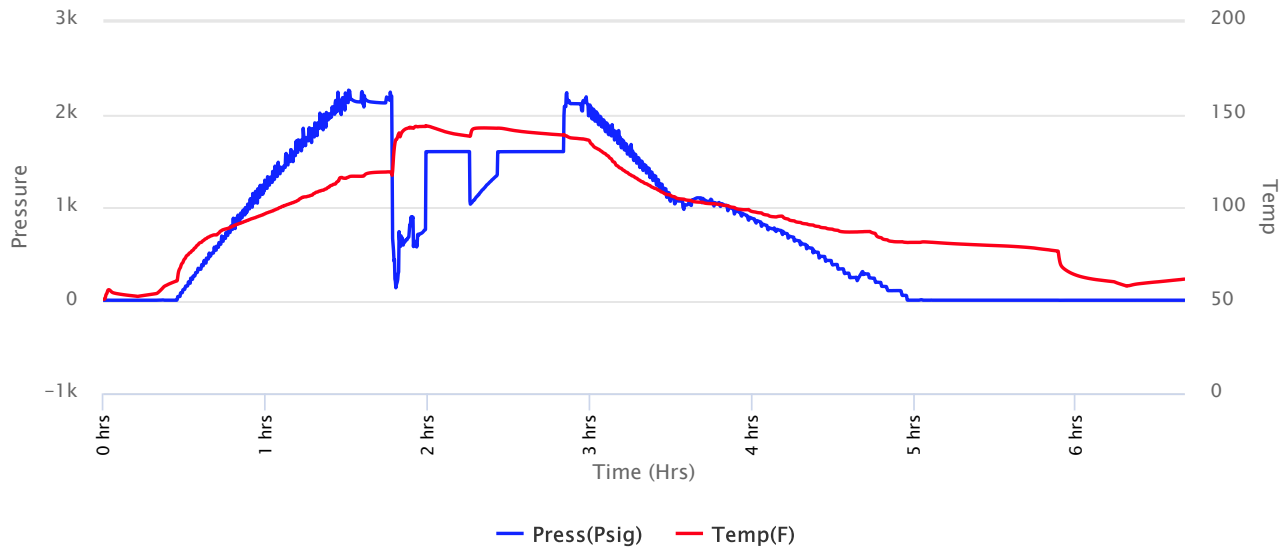
1st Open  
Minutes: 10  
Current Reading:  
127" at 10 min  
Max Reading: 127"

1st Close  
Minutes: 15  
Current Reading:  
1.2" at 15 min  
Max Reading: 1.2"

2nd Open  
Minutes: 10  
Current Reading:  
226" at 10 min  
Max Reading: 226"

2nd Close  
Minutes: 20  
Current Reading:  
0" at 20 min  
Max Reading: 0"

Inside Recorder





**Company: C & K Operating, LLC**

**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
 Elevation: 1601 EGL  
 Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API #: 15-095-22332-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**20**  
 2019

**DST #4**      **Formation: Viola/ Simp**      **Test Interval: 4360 - 4372'**      **Total Depth: 4372'**  
 Time On: 09:19 12/20      Time Off: 15:48 12/20  
 Time On Bottom: 11:04 12/20      Time Off Bottom: 11:59 12/20

Recovered

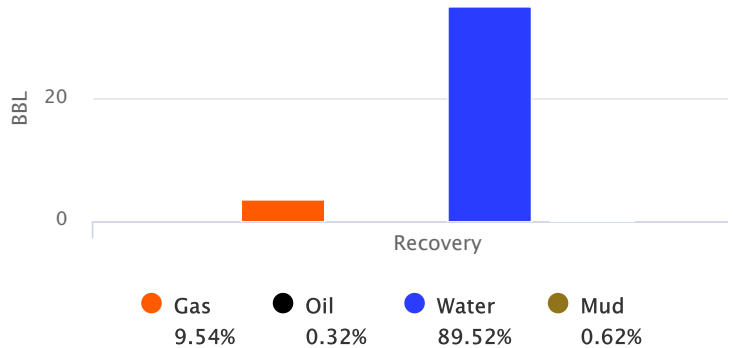
Foot	BCLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
252	3.58596	G	100	0	0	0
567	8.06841	SLOCSLGCSLMCW	2	1	94	3
315	4.48245	SLOCW	0	1	99	0
1701	23.1340214	W	0	0	100	0

Total Recovered: 2835 ft

Total Barrels Recovered: 39.2708414

**Reversed Out**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2121	PSI
Initial Flow	134 to 760	PSI
<b>Initial Closed in Pressure</b>	<b>1597</b>	<b>PSI</b>
Final Flow Pressure	1032 to 1351	PSI
<b>Final Closed in Pressure</b>	<b>1597</b>	<b>PSI</b>
Final Hydrostatic Pressure	2119	PSI
Temperature	144	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 21.03937



# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**20**  
2019

<b>DST #4</b>	<b>Formation: Viola/Simp</b>	<b>Test Interval: 4360 - 4372'</b>	<b>Total Depth: 4372'</b>
	Time On: 09:19 12/20	Time Off: 15:48 12/20	
	Time On Bottom: 11:04 12/20	Time Off Bottom: 11:59 12/20	

**BUCKET MEASUREMENT:**

1st Open: 1" Blow. BOB in 1 1/2 mins  
1st Close: 1 1/4 Blow Back  
2nd Open: 8" Blow. BOB in 15 seconds  
2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 100% Water 0% Mud  
Ph: 7  
Measured RW: .43 @ 55 degrees °F  
RW at Formation Temp: 0.176 @ 144 °F  
Chlorides: 43000 ppm



# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**20**  
2019

**DST #4**      **Formation: Viola/ Simp**      **Test Interval: 4360 - 4372'**      **Total Depth: 4372'**  
Time On: 09:19 12/20      Time Off: 15:48 12/20  
Time On Bottom: 11:04 12/20      Time Off Bottom: 11:59 12/20

### Down Hole Makeup

<b>Heads Up:</b> 3.99 FT	<b>Packer 1:</b> 4355 FT
<b>Drill Pipe:</b> 4216.36 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4360 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4344.42 FT
<b>Collars:</b> 115.06 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4365 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 12	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 8 FT <i>4 1/2-FH</i>	



# Company: C & K Operating, LLC

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10



**Operation:**  
Uploading recovery &  
pressures

# Lease: Alameda #10-3

Elevation: 1601 EGL  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**DATE**  
December  
**20**  
2019

**DST #4**      **Formation: Viola/  
Simp**      **Test Interval: 4360 -  
4372'**      **Total Depth: 4372'**  
Time On: 09:19 12/20      Time Off: 15:48 12/20  
Time On Bottom: 11:04 12/20      Time Off Bottom: 11:59 12/20

## Mud Properties

**Mud Type:** Chem      **Weight:** 9.4      **Viscosity:** 50      **Filtrate:** 8.8      **Chlorides:** 5500 ppm



**Operation:**

**Company: C & K Operating,  
LLC**  
**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 10  
Elevation: 1601 EGL  
Field Name: Alameda

Uploading recovery & pressures

Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**DATE**  
December  
**20**  
2019

**DST #4      Formation: Viola/  
Simp      Test Interval: 4360 -      Total Depth: 4372'**  
Time On: 09:19 12/20      Time Off: 15:48 12/20  
Time On Bottom: 11:04 12/20      Time Off Bottom: 11:59 12/20

### Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D
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2nd Open

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



# QUALITY WELL SERVICE, INC.

7303

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410  
Fax 620-672-3663

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish				
12-21-19	28	28S	7W	Kingman	Ks						
Lease	ALAMEDA		Well No.	10-3				Location	KINGMAN, KI S to 50 <sup>th</sup> rd 3/4 E N INTO		
Contractor				WWD RIG RIG 14				Owner			
Type Job				5 1/2 L.S.				To Quality Well Service, Inc. 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		7 7/8		T.D.		4430'					
Csg.		5 1/2 15.5 <sup>#</sup>		Depth		4420'					
Tbg. Size				Depth							
Tool				Depth							
Cement Left in Csg.				Shoe Joint		42.25					
Meas Line				Displace		104.19					
EQUIPMENT				10% SALT 5 1/4" x KOLSEAL .6" C16A .25% C41P 1/4" x PS							
Pumptrk	8	No.		Common				250 sc			
Bulktrk	10	No.		Poz. Mix							
Bulktrk		No.		Gel.				470 <sup>#</sup>			
Pickup		No.		Calcium							
JOB SERVICES & REMARKS				Hulls							
Rat Hole				30 sc				Salt 1377 <sup>#</sup>			
Mouse Hole				20 sc				Flowseal 62.5 <sup>#</sup>			
Centralizers				1-3-5-7-9-11				Kol-Seal 1250 <sup>#</sup>			
Baskets								Mud CLR 48 500 GAL.			
D/V or Port Collar								CFL-117 or CD110 CAF 38 C16A 141 <sup>#</sup>			
RUN 106 H <sup>3</sup> 5 1/2 15.5 <sup>#</sup> CSG SET D								Sand C41P 59 <sup>#</sup> . CC-1 8 GAL.			
START CSG CSG ON BOTTOM TAG								Handling 308			
Hook up to CSG Break circ w/ rig Deep Ball								Mileage 45 / 13860			
circ w/ rig								5 1/2 FLOAT EQUIPMENT			
START Pumping 10 Bbls H <sup>3</sup> 12 Bbls MF 10 Bbls H <sup>2</sup>								Guide Shoe HEAD & MANIFOLD 1 EA.			
START PLUG R-M HOLES								Centralizer 6 EA.			
START Mix Pumping + CSG 200 sc D 14.3 <sup>#</sup> /gal								Baskets			
SHUT DOWN WASH JO TRIC & RELEASE 5 1/2 LD PLUG								AFU Inserts			
START Diap 2 1/2 KCL								Float Shoe 1 EA.			
LEFT PSI 82.5 out 600 <sup>#</sup>								Latch Down 1 EA.			
PLUG DOWN 105 Bbls out 1200 <sup>#</sup>								LMV 45			
PSI up on CSG 1700 <sup>#</sup>								SERVICE SPV 1 EA			
RELEASE & HELD								Pumptrk Charge LS			
GOOD CIRC THRU JOB								Mileage 90			
THANK YOU								Tax			
PLEASE CALL AGAIN								Discount			
TOOD IF TAKE								Total Charge			
Signature				Jim Kraft							



# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 Est  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**18**  
2019

**DST #1**      **Formation: Lans L**      **Test Interval: 3668 - 3704'**      **Total Depth: 3704'**

Time On: 04:30 12/18      Time Off: 11:46 12/18  
Time On Bottom: 06:54 12/18      Time Off Bottom: 09:24 12/18

Electronic Volume Estimate:  
131'

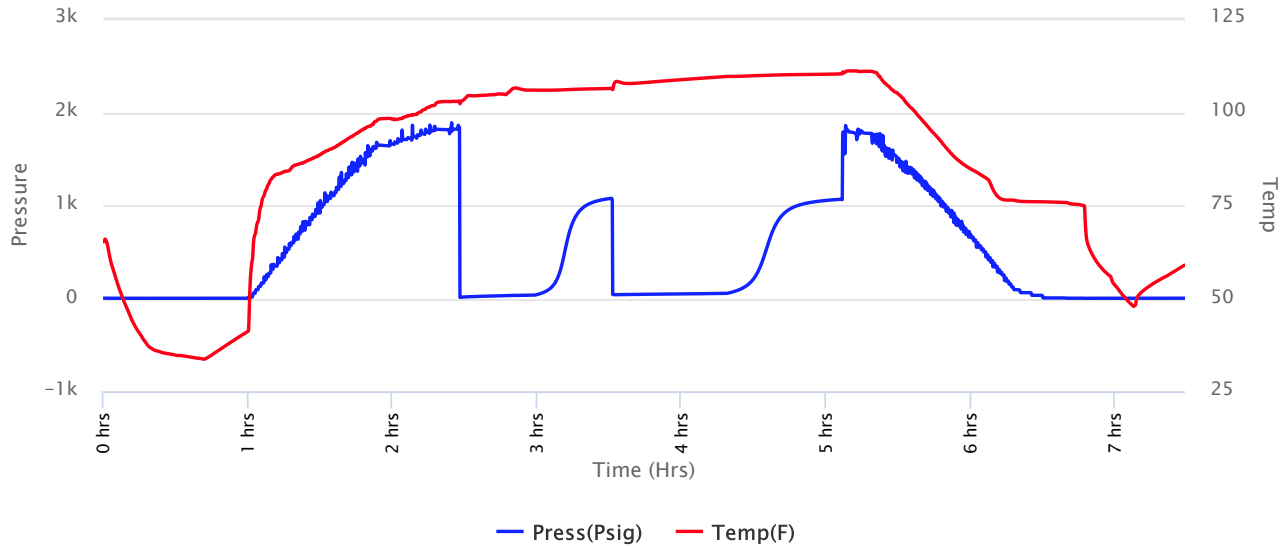
1st Open  
Minutes: 30  
Current Reading:  
2.5" at 30 min  
Max Reading: 2.5"

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

2nd Open  
Minutes: 45  
Current Reading:  
3.5" at 45 min  
Max Reading: 3.5"

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

Inside Recorder





# Company: C & K Operating, LLC

## Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 Est  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
December  
**18**  
2019

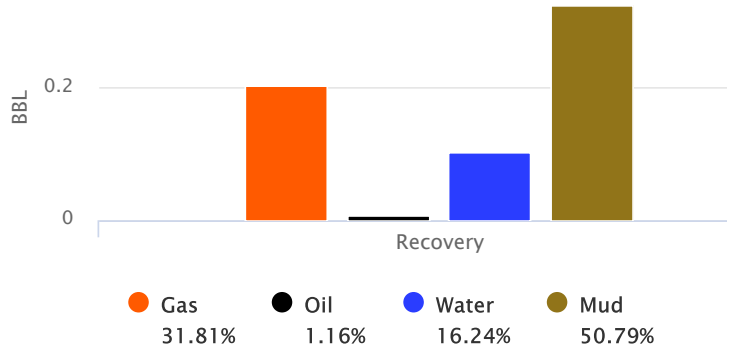
**DST #1**      **Formation: Lans L**      **Test Interval: 3668 - 3704'**      **Total Depth: 3704'**  
Time On: 04:30 12/18      Time Off: 11:46 12/18  
Time On Bottom: 06:54 12/18      Time Off Bottom: 09:24 12/18

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BCLS					
30	0.1935914	G	100	0	0	0
30	0.1476	SLOCM	0	1	0	99
60	0.2952	SLOCSLGCHWCM	3	2	35	60

Total Recovered: 120 ft  
Total Barrels Recovered: 0.6363914

Reversed Out  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	1811	PSI
Initial Flow	10 to 35	PSI
<b>Initial Closed in Pressure</b>	<b>1071</b>	<b>PSI</b>
Final Flow Pressure	41 to 53	PSI
<b>Final Closed in Pressure</b>	<b>1060</b>	<b>PSI</b>
Final Hydrostatic Pressure	1814	PSI
Temperature	111	°F
Pressure Change Initial Close / Final Close	1.0	%

GIP cubic foot volume: 1.13664



**Company: C & K Operating, LLC**

**Lease: Alameda #10-3**

SEC: 28 TWN: 28S RNG: 7W  
 County: KINGMAN  
 State: Kansas  
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 Elevation: 1601 Est  
 Field Name: Alameda  
 Pool: Pool Ext.  
 Job Number: 430  
 API #: 15-095-22332-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**18**  
 2019

<b>DST #1</b>	<b>Formation: Lans L</b>	<b>Test Interval: 3668 - 3704'</b>	<b>Total Depth: 3704'</b>
	Time On: 04:30 12/18	Time Off: 11:46 12/18	
	Time On Bottom: 06:54 12/18	Time Off Bottom: 09:24 12/18	

**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: 1/4" Blow. Built to 2 1/2 in 30 mins

1st Close: NOBB

2nd Open: 1/2" Blow. Built to 3 1/2 inches in 45 mins

2nd Close: NOBB

**REMARKS:**

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

Ph: 7

Measured RW: .5 @ 41 degrees °F

RW at Formation Temp: 0.203 @ 111 °F

Chlorides: 40,000 ppm



Company: C & K Operating, LLC

Lease: Alameda #10-3

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 Est  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**Operation:**  
Uploading recovery & pressures

**DATE**  
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**DST #1**      **Formation: Lans L**      **Test Interval: 3668 - 3704'**      **Total Depth: 3704'**  
Time On: 04:30 12/18      Time Off: 11:46 12/18  
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**Down Hole Makeup**

<b>Heads Up:</b> 21.61 FT	<b>Packer 1:</b> 3663 FT
<b>Drill Pipe:</b> 3549.39 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3668 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3655 FT
<b>Collars:</b> 115.06 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3670 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 36	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"
<b><u>Anchor Makeup</u></b>	
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 35 FT <i>4 1/2-FH</i>	



Company: C & K Operating, LLC

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10



**Operation:**  
Uploading recovery &  
pressures

# Lease: Alameda #10-3

Elevation: 1601 Est  
Field Name: Alameda  
Pool: Pool Ext.  
Job Number: 430  
API #: 15-095-22332-00-00

**DATE**  
December  
**18**  
2019

**DST #1**      **Formation: Lans L**      **Test Interval: 3668 - 3704'**      **Total Depth: 3704'**  
Time On: 04:30 12/18      Time Off: 11:46 12/18  
Time On Bottom: 06:54 12/18      Time Off Bottom: 09:24 12/18

## Mud Properties

**Mud Type:** Chem      **Weight:** 9.2      **Viscosity:** 51      **Filtrate:** 8      **Chlorides:** 4000 ppm



**Company: C & K Operating, LLC**

**Lease: Alameda #10-3**

**Operation:**

SEC: 28 TWN: 28S RNG: 7W  
County: KINGMAN  
State: Kansas  
Drilling Contractor: Murfin Drilling Company, Inc - Rig 10  
Elevation: 1601 Est  
Field Name: Alameda

Uploading recovery & pressures

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**DATE**  
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**DST #1      Formation: Lans L      Test Interval: 3668 - 3704'      Total Depth: 3704'**  
Time On: 04:30 12/18      Time Off: 11:46 12/18  
Time On Bottom: 06:54 12/18      Time Off Bottom: 09:24 12/18

### Gas Volume Report

1st Open

2nd Open

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

Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Susan K. Duffy, Chair  
Shari Feist Albrecht, Commissioner  
Dwight D. Keen, Commissioner

Laura Kelly, Governor

June 16, 2020

Jim Kraft  
C & K Operating LLC  
PO BOX 273  
KINGMAN, KS 67068-0273

Re: ACO-1  
API 15-095-22332-00-00  
ALAMEDA 10-3  
SE/4 Sec.28-28S-07W  
Kingman County, Kansas

Dear Jim Kraft:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/14/2019 and the ACO-1 was received on June 15, 2020 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department