

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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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	YORK 1-10
Doc ID	1464816

All Electric Logs Run

CPDCN MICRO LOG
SONIC LOG
DUAL INDUCTION LOG
MICRO LOG

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	YORK 1-10
Doc ID	1464816

Tops

Name	Top	Datum
Stone Corral	2082	Flat
Bs Stone Corral	2112	+ 577
Heebner	3785	-1094
Lansing	3822	-1140
Bs/KC	4162	-1471
Ft Scott	4315	-1624
Mississippian	4424	-1736
LTD	4526	0

**GRAND
MESA****OPERATING COMPANY**(316) 265-3000
FAX: (316) 265-34551700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: GRAND MESA OP. CO. #1-10 YORK
Well Id: 15-101-22629
Location: 915'FSL 360'FWL, SEC 10-T16S-R29W
License Number: Region: NOT NAMED
Spud Date: 5/15/2019 Drilling Completed: 5/24/2019
Surface Coordinates: Lat: 38.673325
Lng: -100.521898 NAD 1983
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 2686' K.B. Elevation (ft): 2691'
Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4525'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

GEOLOGIST

Name: Steven P. Carl
Company: INDEPENDENT
Address: 724 LAKECREST DR
ANDOVER KANSAS 67002
316-733-5822

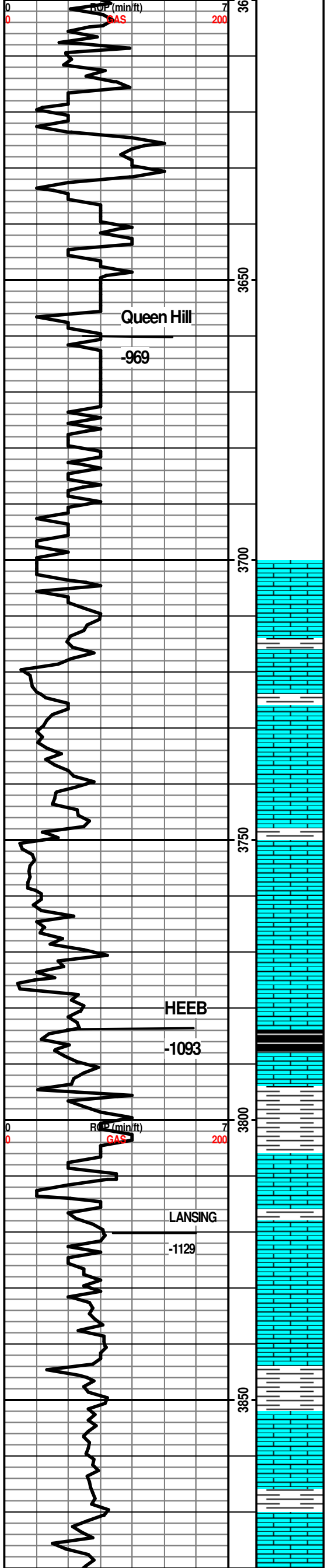
FORMATION TOPS

FORMATION	LOG TOPS	
	Depth	Datum
Stone Corral	2082'	+609
B/Stone Corral	2113'	+578
Heebner Shale	3785'	-1094
Lansing	3822'	-1131
Muncie Creek Shale	3984'	-1293
Stark Shale	4076'	-1385
Marmaton	4185'	-1494
Little Osage Shale	4302'	-1611
Excello Shale	4358'	-1667
Mississippian	4424'	-1733
RTD	4525'	-1834
LTD	4526'	-1835

COMMENTS

Contractor: WW RIG 2
Pusher: JON NICODEMUS
Surface Casing: at 219'
Production Casing: 5 1/2" set at 4501'
Mud by: MudCo
DST's by: DIAMOND TESTING
Logs by: ELI (DIL, CN-CD, ML)
RTD=4525'
LTD=4526'

Curve Track 1 ROP (min/ft) GAS	MD	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
	33					
	34				5/15/2019: MRT WW Rig 2, Drilled to 219, set 8 5/8 at 219' 5/16/2019: WOC at 219ft 5/17/2019: Drilling at 2212ft 5/18/2019: Drilling at 3175ft 5/19/2019: Drilling at 3755ft 5/20/2019: DST#1 at 4105ft 5/21/2019: DST#2 at 4132ft 5/22/2019: Drilling at 4325ft 5/23/2019: Logging at 4525ft 5/24/2019 Running Production casing	
	35					
	36					
	37					
	38					
	39					
	40					
	41					
	42					
	43					
	44					
	45					
	46				LS-Lt tan/gry, med-crs xln, grainy, foss, slty dolo, few chalky, no vis por, no fluor, no cup odor, ns.	
					LS-Med tan/gry, med-crs xln, grainy, foss, slty dolo, few chalky, no vis por, no fluor, no cup odor, ns.	



LS-med gry, no fluor, no cup odor, ns.

LS-med gry, med xln, grainy, as above, lot of chalk, few chert, no vis por, no fluor, no cup odor, ns.

LS-lt tan, med-crs xln, grainy, foss, SH-med gry, no vis por, no fluor, no cup odor, ns.

LS-lt tan/crm, fn-med xln, dense, brittle, foss, decr chalk, decr chert, no vis por, no fluor, no cup odor, ns.

LS-med to lt tan, uniform, rare foss, no vis por, no fluor, no cup odor, ns.

LS-med lt tan, med xln, grainy, mottled, foss, chalky, no vis por, no fluor, no cup odor, ns.

Several LS's, some gm, fn xln, foss, hard, dense, mostly as above, no vis por, no fluor, no cup odor, ns.

NO CHANGE

LS-mostly crm, fn-med xln, grainy, foss, some chalk, no vis por, no fluor, no cup odor, ns.

LS-lt gry/crm, fn-med xln, foss, ool, all int ool por filled with calcite, some chalk, no vis por, no fluor, no cup odor, ns.

LS- as above, large increase in chalk, no vis por, no fluor, no cup odor, ns.

LS-lt gry, med-crs xln, foss, ool, decr chalk, lots of sticky light gray MUDSTONE, sample cup water a dirty lt gry, no vis por, no fluor, no cup odor, ns.

LS-mottled tan/gry, med-crs xln, foss, few ool, chalky, few chert, no vis por, no fluor, no cup odor, ns.

LS-lt gray, crs xln, grainy, foss-crin, some chalk, no vis por, no fluor, no cup odor, ns.

LS-same, influx chert with abund fusulinid cross sections, no vis por, no fluor, no cup odor, ns.

LS-lt tan, gray, med xln, grainy, foss, mottled, decr chalk, no vis por, no fluor, no cup odor, ns.

LS-lt tan, med xln, grainy, foss-abund crin/ bryz, some chert with fus cross sec, no vis por, no fluor, no cup odor, ns.

LS-med tan, mottled, crs xln, foss-abund fus, mealy, grainy, no HEEB SH in 3790smp, no vis por, no fluor, no cup odor, ns.

HEEB SH, black, carb, abund in 3800 sample

Several LS's-predom lt gry, crs xln, foss, mottled, sm-lt gry, fn xln, dense, hard, uniform, decr HEEB SH, no vis por, no fluor, no cup odor, ns.

LS's as above, SH-lt gray, fissile to sticky soft, no vis por, no fluor, no cup odor, ns.

LS-predom lt gry/crm, fn xln, uniform, hard, brittle, dense, some foss as above, no vis por, no fluor, no cup odor, ns.

LS-lt tan/gry, fn xln, dense, hard, uniform, some LS-crm, micro xln, foss, rare ool, no vis por, no fluor, no cup odor, ns.

STOP 3835 circ: 30 min

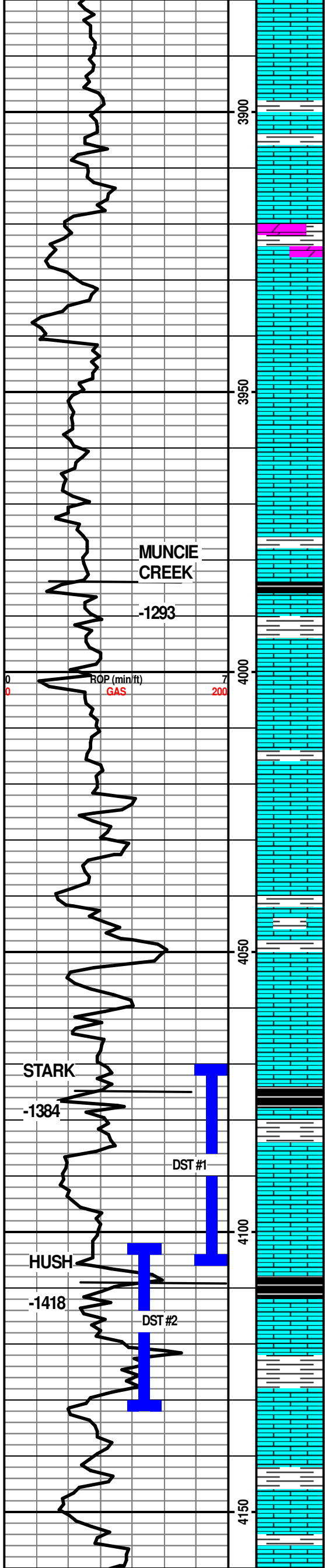
LS-crm, fan xln, dense, hard, mostly uniform, no vis por, no fluor, no cup odor, ns.

LS-crm, fn xln, dense, gno vis por, no fluor, no cup odor, ns, SH-med gry, some brittle, some soft.

LS-tan/gry, fn xln, dense, hard, mostly uniform, some foss-fus, no vis por, no fluor, no cup odor, ns.

LS-crm, fn xln, dense, hard, uniform, no vis por, no fluor, no cup odor, ns.

LS-same, SH-drk gm/gm/blk, not carb, no vis por, no fluor, no cup odor, ns.



LS-cm/lt tan, fn xln, sm micro xln, dense, brittle, few chalk, no vis por, no fluor, no cup odor, ns.

STOP 3890, circ 30min, LS-no change, no vis por, no fluor, no cup odor, ns.

LS-gry, fn xln, chalky, dense, uniform, no vis por, no fluor, no cup odor, ns.

Several LS's, mostly as above, influx LS-med gry, mottled, crs xln, foss, chalky, SH-med-drk gray, fissile, brittle, no vis por, no fluor, no cup odor, ns.

SH-drk gry, fissile, no fluor, no cup odor, ns.

DOLO-lt tan, crm, fn-med xln, dense, brittle, sucrosic, pr int xln por, SH-drk gry, fissile, no fluor, no cup odor, ns.

STOP 3930 circ: 60min

LS-crm, micro xln, profus ool, rare poor int ool por, some good ooc por, some mineral (calcite) fluor, no cup odor, ns.

LS-crm, fn xln, dolomitic in part, mostly uniform, dense, some foss, no vis por, no fluor, no cup odor, ns.

LS-crm, micro-fn xln, dense, hard, uniform, abund chalk, no vis por, no fluor, no cup odor, ns.

LS- mostly as above, incr ool/ooc, rare good ooc por, some poor int xln/int ool por, no vis por, no fluor, no cup odor, ns.

3990 sample as above, lots of chalk, no muncie creek SH, no vis por, no fluor, no cup odor, ns.

Lots of MC black SH in 4000smp. Also, SH-gry/bm, LS-lt gray, mottled, foss, chalky, no vis por, no fluor, no cup odor, ns.

LS-drk mottled tan/gry, mealy, crs xln, foss, no vis por, no fluor, no cup odor, ns.

LS-med tan, fn xln, mostly uniform, no vis por, no fluor, no cup odor, ns.

LS-mostly crm, fn to med xln, rare crs xln, uniform, dense, brittle, some chalk, no vis por, no fluor, no cup odor, ns.

STOP 4015 circ: 30min

Several LS's, as above, no vis por, no fluor, no cup odor, ns.

LS-lt tan/gry, fn xln, dense, hard, mostly uniform, some foss, abund chalk, no vis por, no fluor, no cup odor, ns.

LS-lt tan/gry, fn xln, dense, hard, mostly uniform, lots of chalk, no vis por, no fluor, no cup odor, ns.

60min sample, as above, abund chalk, no vis por, no fluor, no cup odor, ns.

MUDSTONE, lt gray, sticky, soft, no vis por, no fluor, no cup odor, ns.

LS-lt tan, crm, micro-fn xln, ooc/foss, good ooc porosity, no cup odor, no fluor, ns,

LS-tan, micro xln, ool/foss, few with ooc por all barren, sm LS-lt tan, fn xln, rare foss/ool, mostly uniform. 60 samp, LS-drk tan/bm, dense, v hard, no vis por, no cup odor, no fluor, ns.

STOP 4075 circ: 60min

SH-black, carb, none in 4075 60min. flood in 4090 smp.

LS-bm, fn xln, v dense, v hard, mostly uniform, rare pr vug por with edge fluor and vvsfo, faint but obvious cup odor.

LS-crm, micro-fn xln, rare fr vug por, abund white chalky mudstone coating everything, cannot get the smp clean, str cup odr, show of lt bm oil in a few pcs/tray, chalk causes everything to fluor.

decr chalk in 30min. mostly LS-crm, dense, brittle, LS-drk tan/bm, dense, v hard, rare pr int xln por, faint cup odor, rare ssfo. STOP 4105, circ 60min same.

SH-blk/carb in 4120smp, 60min- LS-med tan, micro xln, v dense, hard, sm faces with large qtz xtls, rare fr vug por, all barren, 3/tray w/pr int xln por, drk min stn, cuts pale blue, no fluor, no cup odor, ns.

STOP 4120 circ: 60min -

LS-gry, fn xln, scat fr int foss/xln por, few vugs, few frac faces w/calc xtls, abund fluor, str cup odor, fsfo in most por and resid stn on frac faces.

STOP 4132 circ: 60min -

LS-med tan, fn xln, some grainy, dense, hard, no vis por, no cup odor, no fluor, ns.

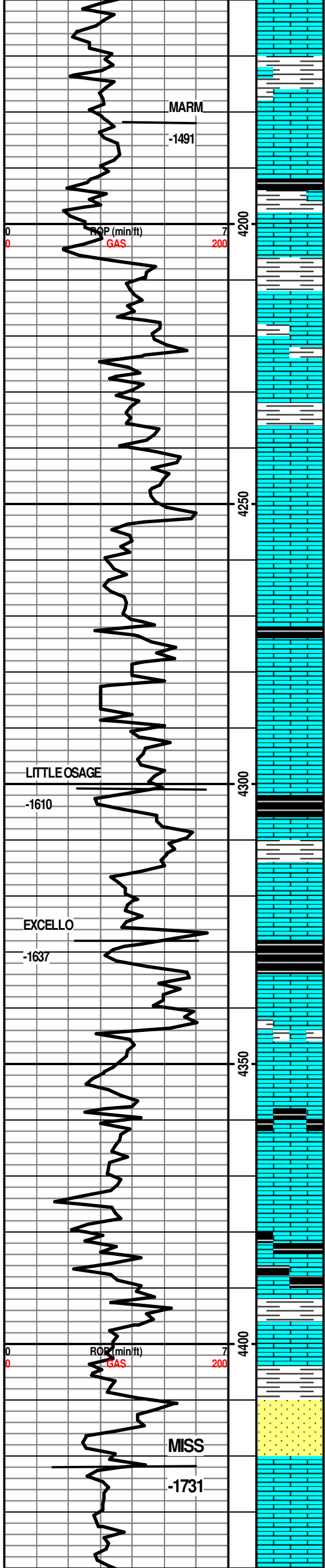
LS-same, influx of chalk, no vis por, no cup odor, no fluor, ns.

mostly SH-bm/gry/orange/ few black, no vis por, no cup odor, no fluor, ns.

DST #1
Swope
 4070' - 4105'
 Rec:
 30' Oil
 53' SOCWM
 120' SOCMMW
 SIP:
 289-286#

Survey at 4105
 0.75deg

DST #2
Middle Creek
Hertha
 4102'-4132'
 Rec:
 1134' GAS
 577' GO
 183' HOCM
 SIP:
 318-337#



LS-med tan/gry, fn xln, v chalky, grainy in part, dense, uniform, no vis por, no cup odor, no fluor, ns.

LS-med tan, micro xln, profus ool/foss, all int ool por filled with calcite, no vis por, no cup odor, no fluor, ns.

LS-med tan, micro xln, foss, some with chalky matrix, scat pr vug/pp por with vssfo, faint cup odor, scat fluor.

MUDSTONE and SH: dirty gry, turned the water in sample cup dark gray, some SH-blk, carb, LS-mostly gray, fn xln, sm grainy, chalky, dense, no vis por, no cup odor, no fluor, ns.

SH and MUDSTONE- mostly gray, some red/brown, no vis por, no cup odor, no fluor, ns.

Sticky MUDSTONE- gry/bm/red, samples wont clean up. LS-lt gry, micro-fn xln, vdense, vhard, no vis por, no cup odor, no fluor, ns.

LS-lt gry/crm, fn xln, chalky texture, mostly uniform, few foss, no vis por, no cup odor, no fluor, ns.

LS-cm/lt gry/tan, vfn xln, mostly uniform, dense, brittle, no vis por, no cup odor, no fluor, ns.

LS-cm, micro to fn xln, mostly dense, hard, uniform, several chips per tray with scat poor pp por, drk bm oil in por, will not break out, dull gold fluor, cuts brt pale blue, faint sweet cup odor.

LS-cm as above, several chips per tray with some edge fluor, scat rare dark stain, cannot break any oil out of por, v faint cup odor.

LS-as above, influx of abund chalk, SH-med to dark gray, no cup odor, ns.

LS-med-lt gray, fn xln, dense, hard, brittle, uniform, no vis por, no cup odor, no fluor, ns.

SH-black, carb

LS-drk brown, fn xln, dense, hard, mostly uniform, few foss, no vis por, no cup odor, no fluor, ns.

LS-lt tan/gry/crm, micro-fn xln, dnse, hard, brittle, uniform, no vis por, no cup odor, no fluor, ns.

SH- black, carb, flood in 4340 smpl, no vis por, no cup odor, no fluor, ns.

LS-lt gry/crm, fn xln, dense, hard, brittle, uniform, incr chalk and sticky gray mudstone, no vis por, no cup odor, no fluor, ns.

LS-mostly as above, some mottled, no vis por, no cup odor, no fluor, ns.

two LS's, predom lt cm/gry, fn xln, dense hard, brittle, uniform, no vis por, LS-drk tan mottled, no vis por, no cup odor, no fluor, ns.

LS-drk tan/bm, some lighter, med-crs xln, some foss-Brach, some uniform, no vis por, no cup odor, no fluor, ns.

LS-drk gry/tan, med xln, foss-Brach, SH-drk gry/blk fissile, no vis por, no cup odor, no fluor, ns.

several LS's, mostly darker as above, some light tan/gry, fn xln, chalky matrix, no vis por, no cup odor, no fluor, ns.

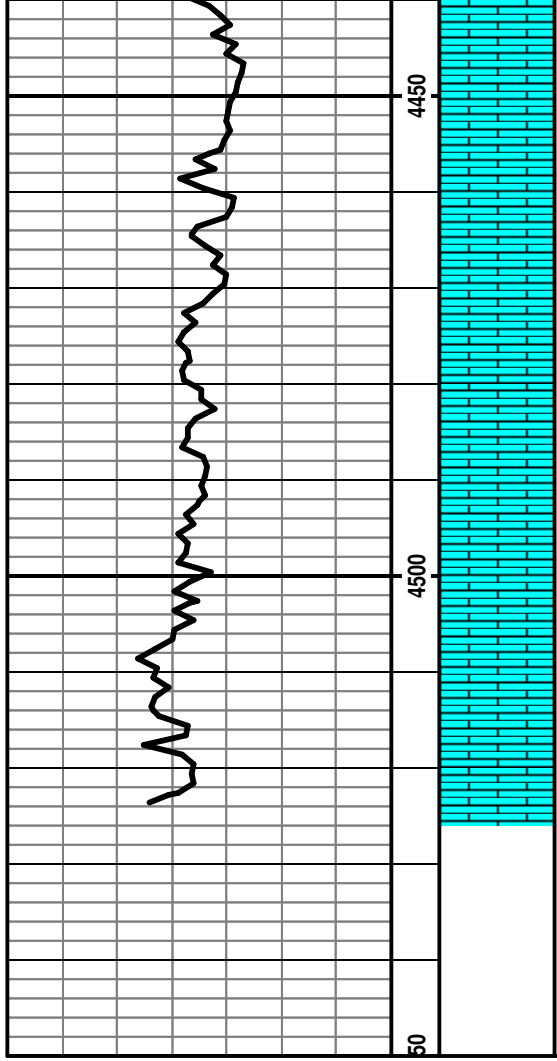
LS-med to lt tan, fn xln, uniform, no vis por, no cup odor, no fluor, ns.

LS- as above, few chip of SS clusters - no color, fn gm, well srted, rounded, poor int gran por, no fluor, no show.

SS-colorless to white, fn gm, well srted, rounded, poor int gm por, si cement, hard to semi friable, no fluor, ns, influx of olive yellow MUDSTONE, sticky, turns cup water olive yellow.

SS-as above, some dirty olive green/yellow sandy SH, no vis por, no cup odor, no fluor, ns.

LS-lt tan, micro xln, dense hard brittle, no vis por, some CHEPT mill/gry



LS-lt tan, micro xln, dense, hard, brittle, no vis por, some chert, milky gry, sharp, no vis por, no cup odor, no fluor, ns.

LS-lt tan, gry, fn xln, peletal/crinoidal, dense, med hard, abund sharp
CHERT-gry/orange, no vis por, no cup odor, no fluor, ns.

LS-darker than above, peletal, chalky matrix, no vis por, no cup odor, no fluor, ns.

LS-mostly as above, decr chert, pellets are charcoal gray in some, no vis por, no cup odor, no fluor, ns.

LS-salt and pepper gray, drk gray ool/pellets imbedded in a light crm matrix, no vis por, no cup odor, no fluor, ns.

LS-lighter in color than above, lt tan, ool/peletal, some chalk, no vis por, no cup odor, no fluor, ns.

mix of above LS's, more of the dark peletal/ool, no vis por, no cup odor, no fluor, ns.

no change

LS-drk peletal as above, influx of chalk, no vis por, no cup odor, no fluor, ns.

no change, very chalky, no vis por, no cup odor, no fluor, ns.

RTD 4525



**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2686 GL
Field Name: Wildcat
Pool: Wildcat
Job Number: 346
API #: 15-101-22629

Operation:
Uploading recovery &
pressures

DATE
May
20
2019

DST #1 Formation: LKC "K" Test Interval: 4070 - Total Depth: 4105'
4105'
Time On: 11:27 05/20 Time Off: 20:47 05/20
Time On Bottom: 14:07 05/20 Time Off Bottom: 18:07 05/20

Electronic Volume
Estimate:
306'

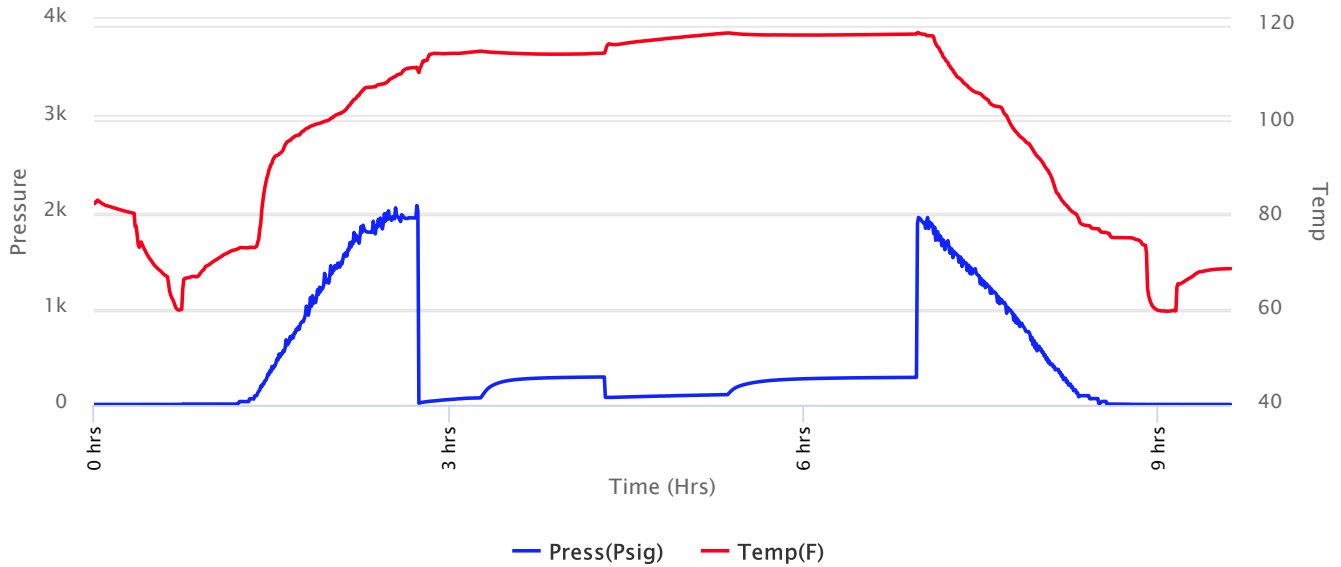
1st Open
Minutes: 30
Current Reading:
7.5" at 30 min
Max Reading: 7.5"

1st Close
Minutes: 60
Current Reading:
.1" at 60 min
Max Reading: .1"

2nd Open
Minutes: 60
Current Reading:
13.7" at 60 min
Max Reading: 13.7"

2nd Close
Minutes: 90
Current Reading:
0" at 90 min
Max Reading: .1"

Inside Recorder





**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 2686 GL
Field Name: Wildcat
Pool: Wildcat
Job Number: 346
API #: 15-101-22629

Operation:
Uploading recovery & pressures

DATE
May
20
2019

DST #1 Formation: LKC "K" Test Interval: 4070 - 4105' Total Depth: 4105'
Time On: 11:27 05/20 Time Off: 20:47 05/20
Time On Bottom: 14:07 05/20 Time Off Bottom: 18:07 05/20

Recovered

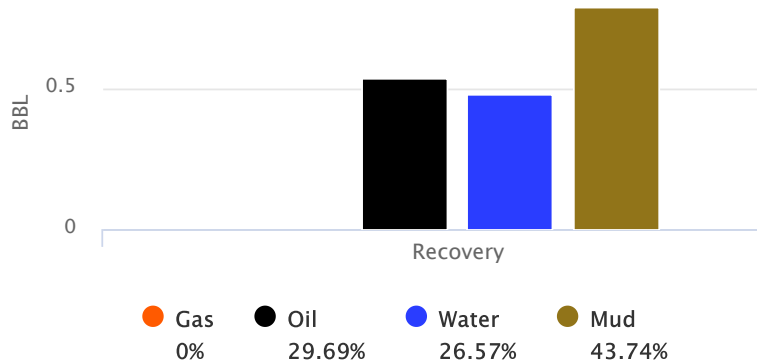
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
30	0.4269	O	0	100	0	0
53	0.75419	SLWCSLOCM	0	10	10	80
60	0.3191267	SLOCHMCW	0	5	50	45
60	0.2952	SLOCSLMCW	0	5	82	13

Total Recovered: 203 ft
Total Barrels Recovered: 1.7954167

**Reversed Out
NO**

Initial Hydrostatic Pressure	1938	PSI
Initial Flow	18 to 72	PSI
Initial Closed in Pressure	289	PSI
Final Flow Pressure	79 to 107	PSI
Final Closed in Pressure	286	PSI
Final Hydrostatic Pressure	1925	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	1.2	%

Recovery at a glance



GIP cubic foot volume: 0



**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2686 GL
Field Name: Wildcat
Pool: Wildcat
Job Number: 346
API #: 15-101-22629

Operation:
Uploading recovery &
pressures

DATE
May
20
2019

DST #1 Formation: LKC "K" Test Interval: 4070 - Total Depth: 4105'
4105'
Time On: 11:27 05/20 Time Off: 20:47 05/20
Time On Bottom: 14:07 05/20 Time Off Bottom: 18:07 05/20

BUCKET MEASUREMENT:

1st Open: 1/4" Blow built to 7 1/2" over 30 min.
1st Close: Weak Surface Return started at 13 min. Built to 1/8" over 60 min.
2nd Open: Bob in 43 min.
2nd Close: Weak Surface Return started at 8 min. died at 20 min.

REMARKS:

Tool Sample: 0% Gas 5% Oil 45% Water 50% Mud
Gravity: 38.8 @ 60 °F
Ph: 7
Chlorides: 48000 ppm



**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2686 GL
Field Name: Wildcat
Pool: Wildcat
Job Number: 346
API #: 15-101-22629

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20
2019

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4105'
Time On: 11:27 05/20 Time Off: 20:47 05/20
Time On Bottom: 14:07 05/20 Time Off Bottom: 18:07 05/20

Down Hole Makeup

Heads Up: 36.28 FT	Packer 1: 4065 FT
Drill Pipe: 3956.28 FT <i>ID-3 1/2</i>	Packer 2: 4070 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4054.42 FT
Collars: 117.43 FT <i>ID-2 1/4</i>	Bottom Recorder: 1 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7.875
Total Anchor: 35	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 34 FT <i>4 1/2-FH</i>	



**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2686 GL
Field Name: Wildcat
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DST #1 Formation: LKC "K" Test Interval: 4070 - Total Depth: 4105'
4105'
Time On: 11:27 05/20 Time Off: 20:47 05/20
Time On Bottom: 14:07 05/20 Time Off Bottom: 18:07 05/20

Mud Properties

Mud Type: Chem Weight: 9.0 Viscosity: 47 Filtrate: 6.8 Chlorides: 2400 ppm



**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 2686 GL
Field Name: Hickok Road Ext
Pool: WILDCAT
Job Number: 346
API #: 15-101-22629

Operation:
Uploading recovery & pressures

DATE
May
21
2019

DST #2 **Formation:** **Test Interval: 4102 - 4132'** **Total Depth: 4132'**
Time On: 04:37 05/21 Time Off: 15:00 05/21
Time On Bottom: 08:05 05/21 Time Off Bottom: 11:50 05/21

Electronic Volume Estimate:
1561'

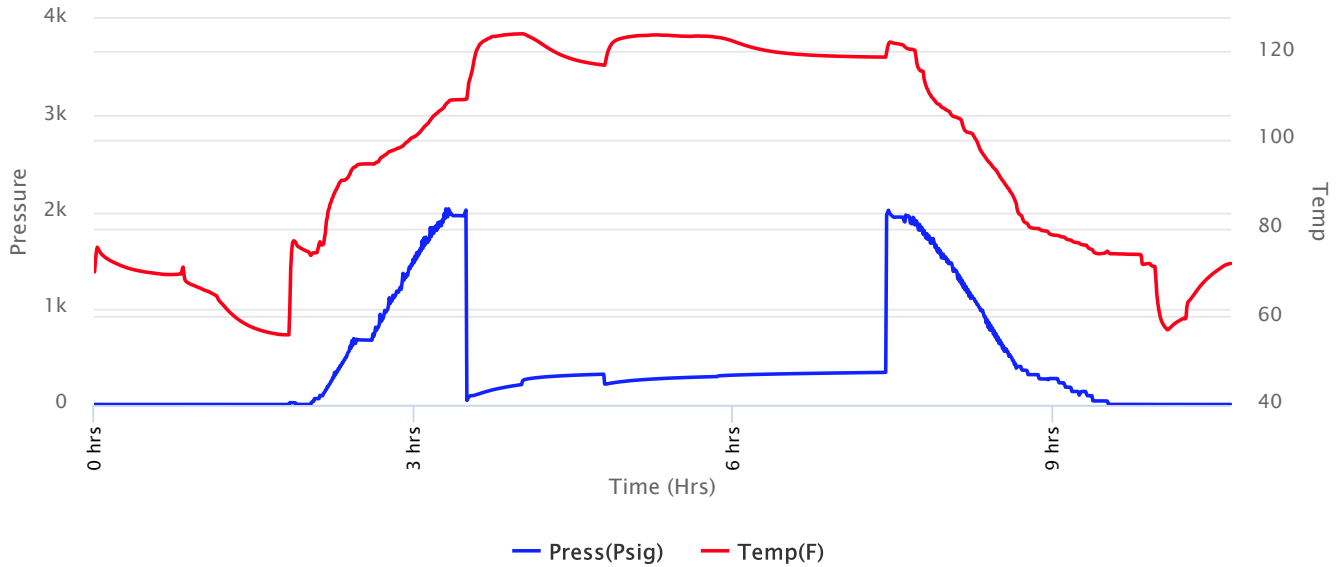
1st Open
Minutes: 30
Current Reading:
84.2" at 30 min
Max Reading: 84.2"

1st Close
Minutes: 45
Current Reading:
12.3" at 45 min
Max Reading: 12.3"

2nd Open
Minutes: 60
Current Reading:
49.2" at 60 min
Max Reading: 49.2"

2nd Close
Minutes: 90
Current Reading:
8.4" at 90 min
Max Reading: 8.4"

Inside Recorder





**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 12
Elevation: 2686 GL
Field Name: Hickok Road Ext
Pool: WILDCAT
Job Number: 346
API #: 15-101-22629

Operation:
Uploading recovery & pressures

DATE
May
21
2019

DST #2 **Formation:** **Test Interval: 4102 - 4132'** **Total Depth: 4132'**
Time On: 04:37 05/21 Time Off: 15:00 05/21
Time On Bottom: 08:05 05/21 Time Off Bottom: 11:50 05/21

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1134	16.13682	G	100	0	0	0
199	2.83177	GCO	20	80	0	0
126	1.79298	HOCG	50	50	0	0
189	2.68947	HGCO	30	70	0	0
63	0.89649	GCHOCM	20	30	0	50
63	0.89649	HGCO	30	70	0	0
120	0.6143267	GCOCM	23	25	0	52

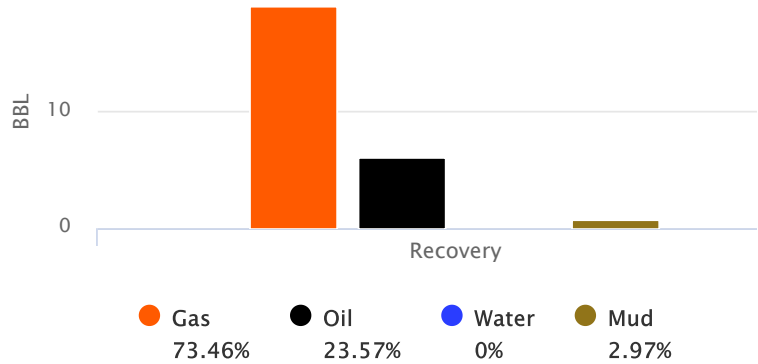
Total Recovered: 1894 ft
Total Barrels Recovered: 25.8583467

**Reversed Out
NO**

Initial Hydrostatic Pressure 1961 PSI
Initial Flow 47 to 209 PSI
Initial Closed in Pressure 318 PSI
Final Flow Pressure 219 to 293 PSI
Final Closed in Pressure 337 PSI
Final Hydrostatic Pressure 1946 PSI
Temperature 124 °F

Pressure Change Initial 0.0 %
Close / Final Close

Recovery at a glance



GIP cubic foot volume: 106.6533



**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2686 GL
Field Name: Hickok Road Ext
Pool: WILDCAT
Job Number: 346
API #: 15-101-22629

Operation:
Uploading recovery &
pressures

DATE
May
21
2019

DST #2	Formation:	Test Interval: 4102 - 4132'	Total Depth: 4132'
	Time On: 04:37 05/21	Time Off: 15:00 05/21	
	Time On Bottom: 08:05 05/21	Time Off Bottom: 11:50 05/21	

BUCKET MEASUREMENT:

1st Open: BoB in 2 min. 23 sec.
1st Close: BoB in 41 min.
2nd Open: Bob in 8 min. 42 sec.
2nd Close: Surface Blow built to 8 1/2" over 90 min.

REMARKS:

Tool Sample: 20% Gas 30% Oil 20% Water 30% Mud

Gravity: 37.8 @ 60 °F



**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2686 GL
Field Name: Hickok Road Ext
Pool: WILDCAT
Job Number: 346
API #: 15-101-22629

Operation:
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DST #2 **Formation:** **Test Interval: 4102 - 4132'** **Total Depth: 4132'**
Time On: 04:37 05/21 Time Off: 15:00 05/21
Time On Bottom: 08:05 05/21 Time Off Bottom: 11:50 05/21

Down Hole Makeup

Heads Up: 35.89 FT	Packer 1: 4097 FT
Drill Pipe: 3987.89 FT <i>ID-3 1/2</i>	Packer 2: 4102 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4086.42 FT
Collars: 117.43 FT <i>ID-2 1/4</i>	Bottom Recorder: -28 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7.875
Total Anchor: 30	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 29 FT <i>4 1/2-FH</i>	



**Company: Grand Mesa
Operating Company
Lease: York #1-10**

SEC: 10 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 12
Elevation: 2686 GL
Field Name: Hickok Road Ext
Pool: WILDCAT
Job Number: 346
API #: 15-101-22629

Operation:
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pressures

DATE
May
21
2019

DST #2 **Formation:** **Test Interval: 4102 - 4132'** **Total Depth: 4132'**
Time On: 04:37 05/21 Time Off: 15:00 05/21
Time On Bottom: 08:05 05/21 Time Off Bottom: 11:50 05/21

Mud Properties

Mud Type: Chem **Weight:** 9.0 **Viscosity:** 47 **Filtrate:** 6.8 **Chlorides:** 2400 ppm

Pro-Stim Chemicals LLC

Acidizing Report

 Date **6-11-19**

Customer	Grand Mesa	Pro-Stim Chemical Yard	Dighton	Pro-Stim Number	A18
Well Name & Number	York 1-10	Formal			
County	Lane	State	KS	Interv	4129-33
Well Type	Completion <input checked="" type="checkbox"/>	Recompletion <input type="checkbox"/>	Workover <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>
	Water <input type="checkbox"/>	Disposal <input type="checkbox"/>	Pert <input checked="" type="checkbox"/>	OH <input type="checkbox"/>	
Job Pumped Via	Tubing <input checked="" type="checkbox"/>	Casing <input type="checkbox"/>	Annulus <input type="checkbox"/>	OTU <input type="checkbox"/>	Combinator <input type="checkbox"/>
	Plug Depth	Packer Depth			
Casing Size	5 1/2	GRD	WT	Depth	Tubing Size
					2 7/8
Casing Vol	15	Tag Vol	23.8	Ann Vol	OH Vol
					Total Displacement
					30.3

Customer Representative Signature _____

Treatment Record

Observations/Descriptions	Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure	
						Tubing	Casing
Spot Acid	1	Acid			2		
Acid off truck	15	Acid	3.4		6		
did not land	21	Flush	3.0		27		
Total Land	22	Flush	3.0		30		

Directions	Product	Qty	Product	Qty	Product	Qty
250 gal 15% MCA	30 Bund	2% KCl				
Operator Name	Shannon M					
Unit #						
Hours						

Treatment Synopsis

Avg In. Rate	Fluid BPM	3.0	Total injected	H2O	24	Acid	6	Oil	
Treating Pts	Max	0	Final	0	Avg				
				ISIP	0	5 SI	10 SI	15 SI	
UAR-1						20	25	30	

JOB LOG

SWIFT Services. Inc.

DATE 05/23/19 PAGE NO. 1

CUSTOMER Grand Mesa WELL NO. 1-10 LEASE Park JOB TYPE 2 Stage Long String TICKET NO. 27547

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							On location with Float Equipment
								Total Pipe - 109 Jts of 5 1/2" x 15.5 # 4501'
								Shoe Joint - 10', Baffle Plate - 4491'
								D.V. Tool - Top of 57 @ 2083'
								Cent - 2, 5, 8, 11, 14, 17, 57
								Basket - 2, 57
	2045							Start Pipe w/ Float Equipment
	2305							Break Circ on Bottom
	2345	2	7					Plug Rathole, w/ 30 SKS
		5	12				400	Pump Mud Flush
		5	20				400	Pump KCL Spacer
			36					Take on 2 Tanks Mud
	0015	5					400	Start Cmt - EA2 mix at 15.5 ppg
		5	46				Vac	Fin Cmt
	0025	3	3					Drop Plug, Washout Pump Lines
	0030	3 1/2						Start Displacement
		3 1/2	60				500	Switch to Mud
	0100	5	187				1000 1100	Land Plug w/ water Lift 1000 #
	0105							Release truck Land 1600 #
	0110							Drop Bomb, Wash up truck
	0125	3					1000	Open D.V. tool, circulate
	0130							Circulate 2 Hrs
	0345	4	20				300	Pump KCL Spacer
	0350	6						Start SMD Cement
	0410	6	130				Vac	Fin Cmt, Drop Plug
	0415	7					Vac	Start Displacement Lift 600 #
	0425	7	50				600 1400	Land Plug Land 1400 #
	0430							Release Truck, Wash up Rack up Circulated Cement to Surface.
	0500							Job Complete

Thanks
Jon, Austin, Isaac



CEMENT TREATMENT REPORT.

Customer:	Grand Mesa	Well:	York 1-10	Ticket:	ICT2011
City, State:	Oakley KS	County:	Lane	Date:	5/15/2019
Field Rep:	Johnny	S-T-R:	10/16/29W	Service:	Cement

Downhole Information	
Hole Size:	12.25
Hole Depth:	219
Casing Size:	8.625
Casing Depth:	219.4
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	
Displacement:	12.7

Slurry	
Weight:	14.8 # / sx
Water / Sx:	6 7/8
Yield:	1.41
Bbls / Ft.:	0.0652
Depth:	219 ft
Volume:	bbls
Excess:	120%
Total Slurry:	44
Total Sacks:	170 sx

Cement Blend		
Product	%	#
Class A	100.0	15980
Gel	2.0	320
CaCl	3.0	479
Metso		
KolSeal		
PhenoSeal	0.3	
Salt		
Total		16,779

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
10:00 PM				Arrive on location					
10:05 PM				Hold Safety meeting					
10:10 PM				Rig up equipment					
11:35 PM	4.0	400.0	44.0	Mix 170 sks					
11:45 PM	5.0	380.0	12.7	Displacement					
11:55 PM		340.0		Shut in well					
12:00 AM				Wash up					
12:05 AM				Rig down					
12:15 AM				Depart					
				5 bbls to pit					

CREW		UNIT	SUMMARY		
Cementer:	Dane Retzloff	78.0	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael Rebarcek	230.0	4.5 bpm	373.33 psi	56.70 bbls
Bulk #1:	Alan Ryan	242.0			
Bulk #2:					