Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1104726

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34320
Name: Lasso Energy LLC
Address 1: PO Box 465
Address 2: 1125 SOUTH MAIN
City: Chase State: KS Zip: 67524 + ____
Contact Person: BRUCE D. KELSO
Phone: (620) 259-4000
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: DEREK PATTERSON
Purchaser: NCRA

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #: ____
☐ Dual Completion Permit #: ____
☐ SWD Permit #: ____
☐ ENHR Permit #: ____
☐ GSW Permit #: ____

11/19/2012	11/28/2012	12/10/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25773-00-00
Spot Description: ____
__ - E2 - SE - NW Sec. 28 Twp. 20 S. R. 12 ☐ East ☑ West
1980 Feet from ☑ North / ☐ South Line of Section
2310 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: ____ *(e.g. xx.xxxxx)* , Long: ____ *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barton
Lease Name: Anderson Well #: 9
Field Name: CHASE-SILICA
Producing Formation: ARBUCKLE
Elevation: Ground: 1847 Kelly Bushing: 1857
Total Vertical Depth: 3500 Plug Back Total Depth: 3475
Amount of Surface Pipe Set and Cemented at: 435 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1402 Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 1402 w/ 350 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 30000 ppm Fluid volume: 1040 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:
Operator Name: LASSO ENERGY LLC
Lease Name: DANNEBOHN License #: 34320
Quarter SW Sec. 36 Twp. 20 S. R. 12 ☐ East ☑ West
County: BARTON Permit #: D-05203

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: 03/14/2013
☑ **Confidential Release Date:** 03/14/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 03/15/2013

1104726

Operator Name: Lasso Energy LLC Lease Name: Anderson Well #: 9

Sec. 28 Twp. 20 S. R. 12 ☐ East ☑ West County: Barton

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

TUCKER: COMPENSATED NEUTRON PEL DENSITY LOG
LOGTECH: CEMENT BOND LOG
TUCKER: PIT PHASED INDUCTION LOG

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
SURFACE	12.25	8.625	23.0	435	COMMON	325	2% CALCIUM CHLORIDE
PRODUCTION	7.875	5.5	17.0	3495	COMMON	100	AA2

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☑ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	0-1402	65/35 POZ	350	6% GEL
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	PERFORATION	SHOT	3431-3440
	600 GALS OF 15% MOD 202 ACID (MUD)	ACID	3431-3440

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
	2.875	3470	NONE	☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 12/10/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	179	1	15	006	38

DISPOSITION OF GAS:
☑ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
ARBUCKLE 3434-3440
CONGLOMERATE 3431-3434

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	Anderson 9
Doc ID	1104726

Tops

Name	Top	Datum
TOPEKA	2780	-923
KING HILL	2881	-1024
QUEEN HILL	2954	-1097
HEEBNER	3050	-1193
TORONTO	3067	-1210
DOUGLAS	3082	-1225
BROWN LIME	3173	-1316
LANSING	3190	-1333
LKC 'B'	3210	-1353
LKC 'D'	3233	-1376
LKC 'F'	3257	-1400
LKC 'G'	3274	-1417
MUNCIE CREEK	3313	-1456
LKC 'H'	3320	-1463
LKC' 'I'	3338	-1481
LKC 'J'	3351	-1494
STARK	3372	-1515
LKC 'K'	3377	-1520
BASE KANSAS CITY	3404	-1547
ARBUCKLE	3434	-1577
TOTAL DEPTH (LTD)	3495	-1638

28-T20S-R12W
15-009-25773-0000
SPUD DATE: 11/19/2012
DRILLING COMPLETE: 11/28/2012
PIPE SET: 11/29/2012
CHASE-SILICA FIELD
LASSO ENERGY LLC
P.O. BOX 465 - 1125 SOUTH MAIN
CHASE, KANSAS 67524-0465

REVISION:	DESCRIPTION:	WELL No: 9	REV.

5 1/2" X 2 7/8"
TUBING HEAD

KB: 10' (1857')

CEMENT TO SURFACE

1847'

PUMPING UNIT: C - 114- 64 (64" SURFACE STROKE)
30HP ELECTRIC MOTOR
1.25" X 16' POLISHED ROD
1.50" X 8' HARD LINED POLISHED ROD LINER
PONEY RODS:_____
37 - 7/8" GRADE D SUCKER RODS
80 - 3/4" GRADE D SUCKER RODS
20 - 7/8" GRADE D SUCKER RODS
TWO 1.5" SINKER BARS ON TOP OF PUMP
3/4" X 2' PONY ROD ON TOP OF PUMP (GRADE D)

MAX. SPEED: 16 SPM
MAX. DISPLACEMENT: 400 BPD (2.0" PUMP) INSTALLED

NO TUBING SUBS

SURFACE CASING: 8 5/8" 23#/FT @ 435' 325SX
10 JOINTS (NEW)
CMT TO SURFACE (12 1/4" BIT)

2 7/8" J55 API UPSET TUBING
6.5#/FT - 2.441" ID, 2.875" OD
_____ JTS - _____' (_____' / JT AVG)

PRODUCTION CASING:
5 1/2" @ 3495' - 17.0lb/ft
91 JOINTS
7 7/8" HOLE (BIT)
DRILL WITH CHEMICAL GEL/
FRESH WATER GEL

RAN A DV PORT COLLAR ON THE 55TH JOINT WHICH
IS AT 1401.50' AND RAN A CEMENT BASKET
ON THE 54TH JOINT WHICH IS AT 1443.71'. AND RAN ANOTHER
CENTRALIZER ON JOINT 56TH JOINT WHICH IS AT 1361.21'.
CEMENT TO SURFACE WITH 350 SACKS

1401' W/350 SX

NEW 5 1/2" PRODUCTION CASING
J55 - API
TESTED 4900 PSIG
17 LB/FT
DRIFT ID: 4.767"
BURST: 5320 PSIG
COLLAPSE: 4911 PSIG
YIELD STRENGTH: 272,933 LBF
THICKNESS: 0.304"
ID: 4.892"

TOC: 2800' W/100 SX

2 7/8" x 5 1/2"
TUBING ANCHOR

CONGLOMERATE: 3431'-3434' (3')
4 SPF

ARBUCKLE: 3434'-3440' (6')
4 SPF

(36 HOLES TOTAL)

TOP OF ARBUCKLE 3434'

2 7/8" COUPLING

2 7/8" x 1' SEATING NIPPLE
(3454'-3455')

2 7/8" COUPLING

35'
RAT HOLE

2 7/8" X 15' MUD ANCHOR
(3455"-3470')
ABOUT 3' TO 5' ABOVE
BOTTOM

2.00" INSERT PUMP
PUMP LENGTH: 14' (NICARD AND SS)
BOTTOM HOLD-DOWN TYPE
TRAVELING BARREL
1' GAS SEPERATOR ON THE BOTTOM
2' X 7/8" PONY ROD ON TOP OF PUMP
PUMP INTAKE DEPTH: 3456'

RTD: 3500'
LTD: 3495' (5' FILL UP)
PBTD: 3475'

DOWNHOLE TEMP: 111 F

DRAWN: BK 11/29/12
APPROVED:
LEASE: ANDERSON #9
WELL No: 1
REV.
SCALE: N/A
LOCATION: BARTON COUNTY, KANSAS

LassoEnergy LLC

TOLERANCES
(Unless Otherwise Specified)
Fractional..... ±1/32"
2 Place Decimal.....± .030
3 Place Decimal..... ± .005
4 Place Decimal.....± .001

Scale 1:240 (5"=100') Imperial

Well Name:	Anderson #9		
Location:	Sec. 28 - T20S - R12W, Barton County, KS		
Licence Number:	API No.: 15-009-25773-0000	Region:	Chase-Silica
Spud Date:	November 19, 2012	Drilling Completed:	November 28, 2012
Surface Coordinates:	1980' FNL & 2310' FWL (E/2 SE NW)		
Bottom Hole Coordinates:			
Ground Elevation (ft):	1847'	K.B. Elevation (ft):	1857'
Logged Interval (ft):	2650' To: 3500'	Total Depth (ft):	3495' (LTD)
Formation:	Arbuckle		
Type of Drilling Fluid:	Chemical Gel/Fresh Water Gel		

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

OPERATOR

Company: Lasso Energy, LLC
Address: P.O. Box 465
1125 South Main
Chase, KS 67524

GEOLOGIST

Name: Derek W. Patterson
Company: Valhalla Exploration, LLC
Address: 133 N. Glendale
Wichita, KS 67208

REMARKS

After review of the geologic log and the open hole logs for the Anderson #9, it was decided upon by operator to run 5 1/2" production casing to further evaluate the Arbuckle.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

COMMENTS

Please Note: The RTD was 3500' and the LTD 3495'.

The drill time and gas curves have been shifted 1' shallow/higher to correspond with the electric log curves.

LassoEnergy LLC

General Information

Service Companies

Drilling Contractor: Val Energy - Rig #3
Tool Pusher: Greg Davidson
Daylight Driller: Josh Holloway
Evening Driller: Tyler Lynd
Morning Driller: Michael Branch
Relief: Mitch Winter

Gas Detector: Bluestem Environmental
Engineer: Sidney Edelbrock
Unit: 0279
Operational By: 1500'

Drilling Fluid: Mud-Co/Service Mud
Engineer: Rick Hughes

Logging Company: Tucker Wireline
Engineer: Sheldon Tyler
Logs Ran: DI, CDNL

Testing Company: N/A - No DSTs

Deviation Survey

Depth	Survey
435'	1°
RTD - 3500'	1°

Pipe Strap

Depth	Pipe Strap
None Performed	

Bit Record

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	JZ	Rock	RR	0'	435'	435'	6.25
2	7 7/8"	JZ	HA28Q	N/A	435'	3500'	3165'	N/A

Surface Casing

11.20.2012

Ran 10 joints of new 23 #/ft 8 5/8" casing, set @ 435' KB.
Cemented with 175 sacks of common with 2 % calcium chloride, and 150 sacks of common pad.
Cement did circulate.
Plug down @ 1045 hrs 11.20.12. By Basic Energy Services.

Production Casing

11.28.2012

Ran 91 joints of new 17 #/ft 5 1/2" production casing, tallying 3495.02', set @ 3495'.
Cemented with 100 sacks of common AA2.
By Basic Energy Services.

LassoEnergy LLC

Daily Drilling Report

Date	7:00 AM Depth	Previous 24 Hours of Operations
11.27.2012	3258'	Drilling and connections Severy and into Topeka. Geologist Derek W. Patterson on location, 1330 hrs 11.27.12. Reset Bloodhound depth, resume drilling and connections Topeka, Heebner, Toronto, Douglas, Brown Lime, and into Lansing. Made 523' over past 24 hrs of operations. WOB: 34-36k RPM: 65 PP: 600 SPM: 54 DMC: $842.35 CMC: $5,460.00
11.28.2012	RTD - 3500' LTD - 3495'	Drilling and connections Lansing. CFS @ 3268' (LKC 'F'). Resume drilling and connections Lansing. CFS @ 3334' (LKC 'H'). Resume drilling and connections Lansing, Base Kansas City, and into Arbuckle. CFS @ 3436' (Arb), CFS @ 3444' (Arb), CFS @ 3452' (Arb). Resume drilling and connections ahead to RTD of 3500'. RTD reached, 0335 hrs 11.28.12. CTCH, short trip (20 stands), CTCH, drop survey, TOH for open hole logging operations, 0730 hrs 11.28.12. Made 242' over past 24 hrs of operations. WOB: 40-42k RPM: 65-70 PP: 675 SPM: 54 DMC: $1,010.35 CMC: $6,470.35
11.29.2012	RTD - 3500' LTD - 3495'	TOH for open hole logging operations. Rig up loggers. Commence open hole logging operations, 0930 hrs 11.28.12. Micro tool malfunctioning, was not able to fix. Open hole logging operations complete, 1345 hrs 11.28.12. Orders received to run 5 1/2" production casing for further evaluation of the Anderson #9. Geologist Derek W. Patterson off location, 1415 hrs 11.28.12.

LassoEnergy LLC

Well Comparison Sheet

	Drilling Well				Comparison Well				Comparison Well			
	Lasso Energy, LLC - Anderson #9 Sec. 28 - T20S - R12W 1980' FNL & 2310' FWL (E/2 SE NW) 1857 KB				Cook & Galloway - Anderson #6 Sec. 28 - T20S - R12W SE SE NW Oil - Arbuckle 1853 KB		Structural Relationship		Cook & Galloway - Anderson #7 Sec. 28 - T20S - R12W NE SE NW Oil - Arbuckle 1853 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Sample	Sub-Sea	Sample	Log
Topeka	2782	-925	2780	-923								
King Hill	2881	-1024	2881	-1024								
Queen Hill	2951	-1094	2954	-1097								
Heebner	3051	-1194	3050	-1193	3046	-1193	-1	0	3043	-1190	-4	-3
Toronto	3068	-1211	3068	-1211	3063	-1210	-1	-1	3062	-1209	-2	-2
Douglas	3082	-1225	3082	-1225	3079	-1226	1	1	3076	-1223	-2	-2
Brown Lime	3173	-1316	3173	-1316	3170	-1317	1	1	3167	-1314	-2	-2
Lansing	3192	-1335	3190	-1333	3187	-1334	-1	1	3183	-1330	-5	-3
LKC 'B'	3213	-1356	3210	-1353	3208	-1355	-1	2				
LKC 'D'	3234	-1377	3232	-1375	3229	-1376	-1	1				
LKC 'F'	3261	-1404	3257	-1400	3256	-1403	-1	3				
LKC 'G'	3278	-1421	3274	-1417	3271	-1418	-3	1				
Muncie Creek	3314	-1457	3313	-1456	3311	-1458	1	2				
LKC 'H'	3321	-1464	3320	-1463	3317	-1464	0	1				
LKC 'I'	3339	-1482	3338	-1481	3336	-1483	1	2				
LKC 'J'	3352	-1495	3351	-1494	3349	-1496	1	2				
Stark	3373	-1516	3372	-1515	3369	-1516	0	1				
LKC ' K'	3376	-1519	3377	-1520	3373	-1520	1	0				
Base Kansas City	3404	-1547	3404	-1547	3401	-1548	1	1	3398	-1545	-2	-2
Arbuckle	3430	-1573	3434	-1577	3428	-1575	2	-2	3429	-1576	3	-1
Total Depth	3500	-1643	3495	-1638	3450	-1597	-46	-41	3825	-1972	329	334

ROCK TYPES

LITHOLOGY
- Anhy
- Bent
- Brec
- Chert
- Clyst
- Coal
- Congl
- Dol1
- Dol2
- Dol3
- Gyp
- Igne
- Lmst1
- Lmst2
- Lmst sndy
- Meta
- Salt
- Sh brn
- Sh carb
- Sh grn
- Sh gry
- Sh red
- Sh teal
- Sh wht
- Slstn
- Sltst
- Ss
- Till
- Blank
- Unknown
- Dtd
- Pipe sym

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Fuss
- Gastro
- Oolite
- Oomoldic
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chlorite
- Chtdk
- Chtlt
- Dol
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sand
- Sandy
- Silt
- Slty
- Sil
- Sulphur
- Tuff

STRINGER
- Anhy
- Arg
- Bent
- Clystn
- Coal
- Dol1
- Dol2
- Dol3
- Gry slt
- Gyp
- Lmst1
- Lmst2
- Lmstsndy
- Mrst
- Sh carb
- Sh grn
- Sh gry
- Sh red
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OIL SHOW
- Gas show
- Good
- Fair
- Poor
- Dead

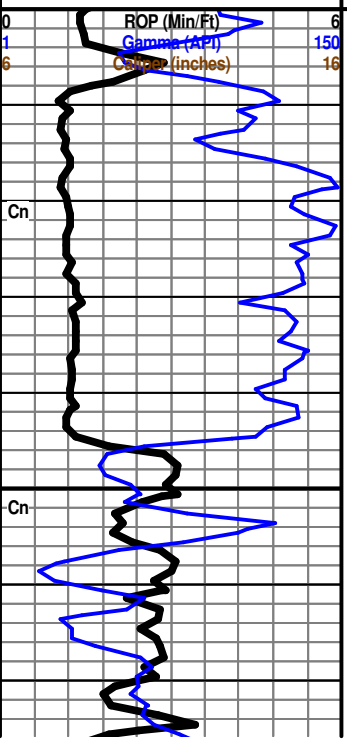
INTERVAL
- Dst
- Core
- Dst
- Straddle test t

EVENT
- Rft
- Sidewall
- Dst
- Open hole
- Perforations

Curve Track 1
ROP (Min/Ft)
Gamma (API)
Caliper (inches)

Depth | Lithology | Oil Shows | Geological Descriptions

Engineering Data
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)



2700

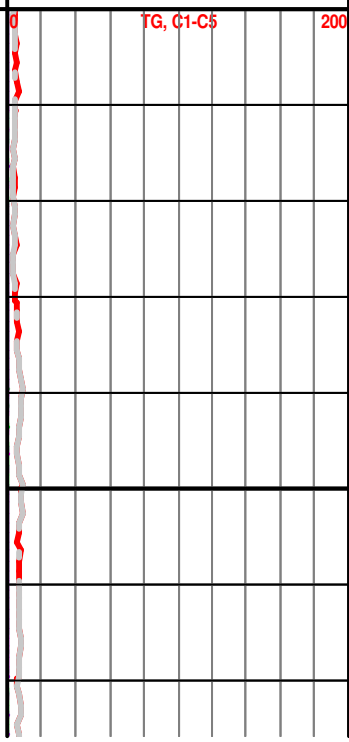
Lasso Energy, LLC
Anderson #9
1980' FNL & 2130' FWL
Sec. 28 - T20S - R12W
Barton Co., KS

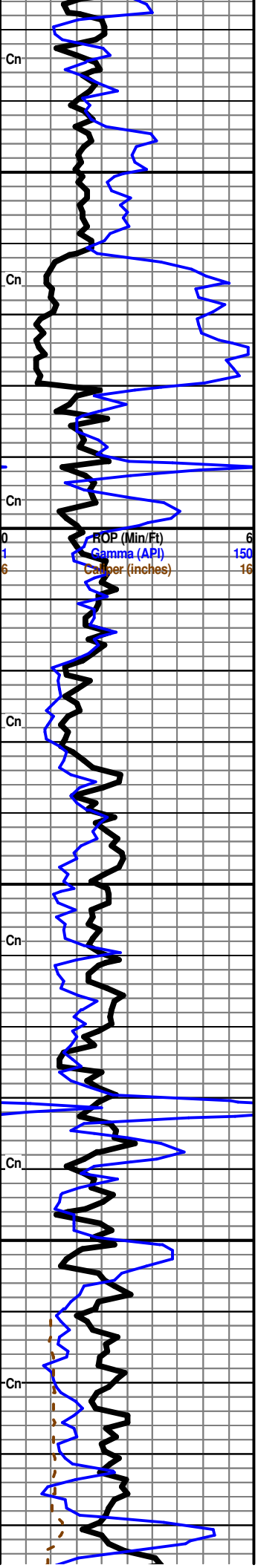
API: 15-009-25773-0000

Elevation: 1847' GL
1857' KB

Geologist: Derek W. Patterson

Displaced Mud System @ 2577'





Start 20' Wet & Dry Samples @ 2760'

Severy 2762 (-905)

Shale: gray dk gray, blocky to rounded, abundant mushy material, some silty in part.

Topeka 2780 (-923)

Limestone: cream lt cream some gray, soft sub-chalky matrix, microxln, fossiliferous to sub-fossiliferous, overall poor interxln porosity, no shows noted, no fluorescence.

Shale: gray dk gray lt gray, mostly soft and mushy.

Limestone: cream lt gray, dense tight with some scattered sub-chalky matrix, microxln, fossiliferous to sub-fossiliferous, poor visible porosity, no shows noted, no fluorescence.

Limestone: cream lt cream, softer sub-chalky matrix, micro-vfxln, fossiliferous, fair interxln porosity, no shows noted, no fluorescence.

Limestone: cream lt gray, dense tighter matrix, micro-vfxln, fossiliferous to sub-fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with some scattered Chert: cream lt cream, fresh and sharp, barren, no shows noted.

Limestone: cream lt gray, dense tighter matrix, micro-vfxln, sub-fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with some continued scattered Chert: cream lt cream, fresh and sharp, barren, no shows noted.

King Hill 2881 (-1024)

Shale: black, carbonaceous, blocky to rounded, nearly all soft and mushy, very poor show bleeding gas bubbles upon break.

Limestone: cream lt gray, dense tight sub-cherty matrix, microxln with some scattered lithographic non-descript, sub-fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence, with interbedded Shale: gray dk gray, blocky to rounded, mostly soft.

Geologist Derek W. Patterson On Location, 1330 hrs 11.26.12

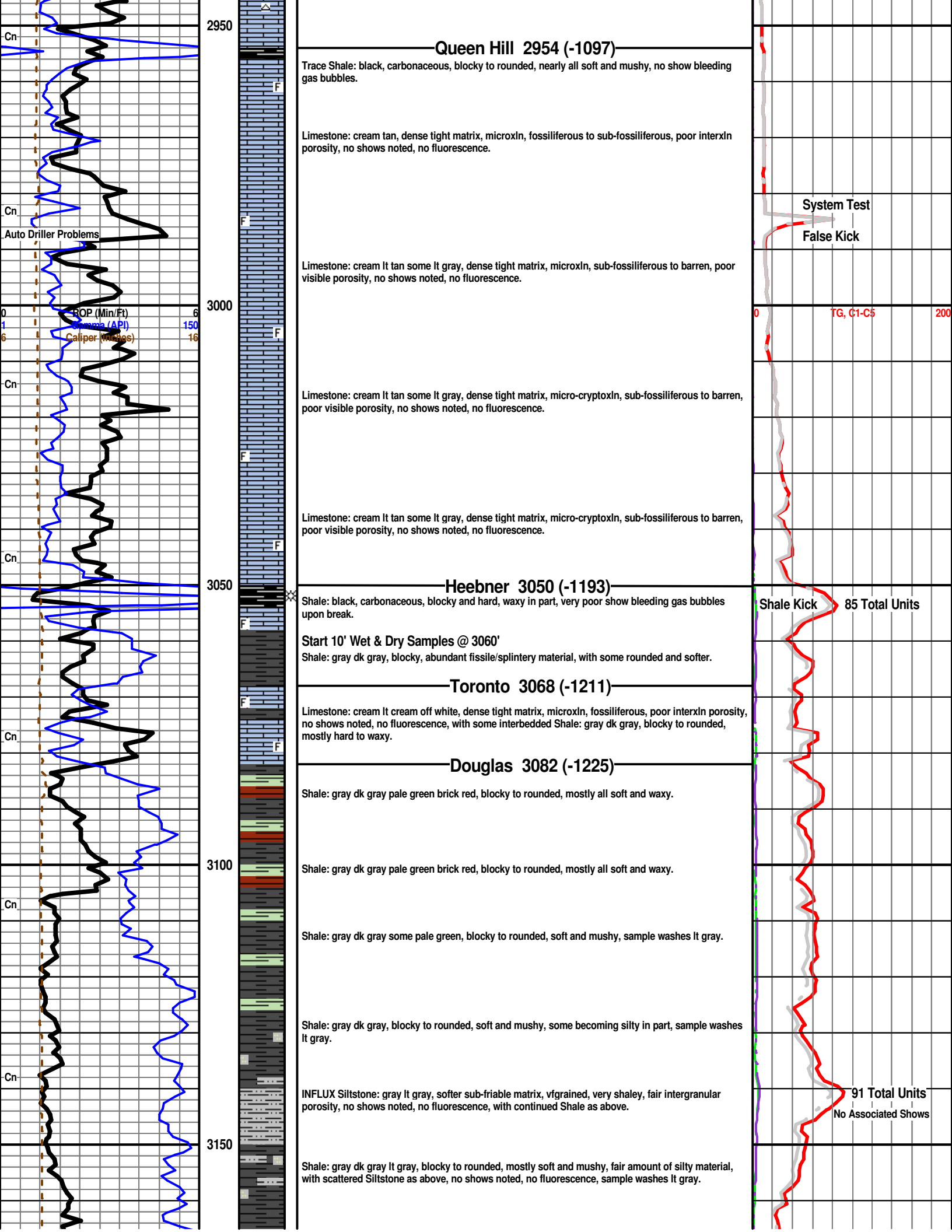
Limestone: cream lt cream, dense tight sub-cherty matrix, microxln, fossiliferous to sub-fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with interbedded Shale: gray dk gray, blocky to rounded, mostly soft.

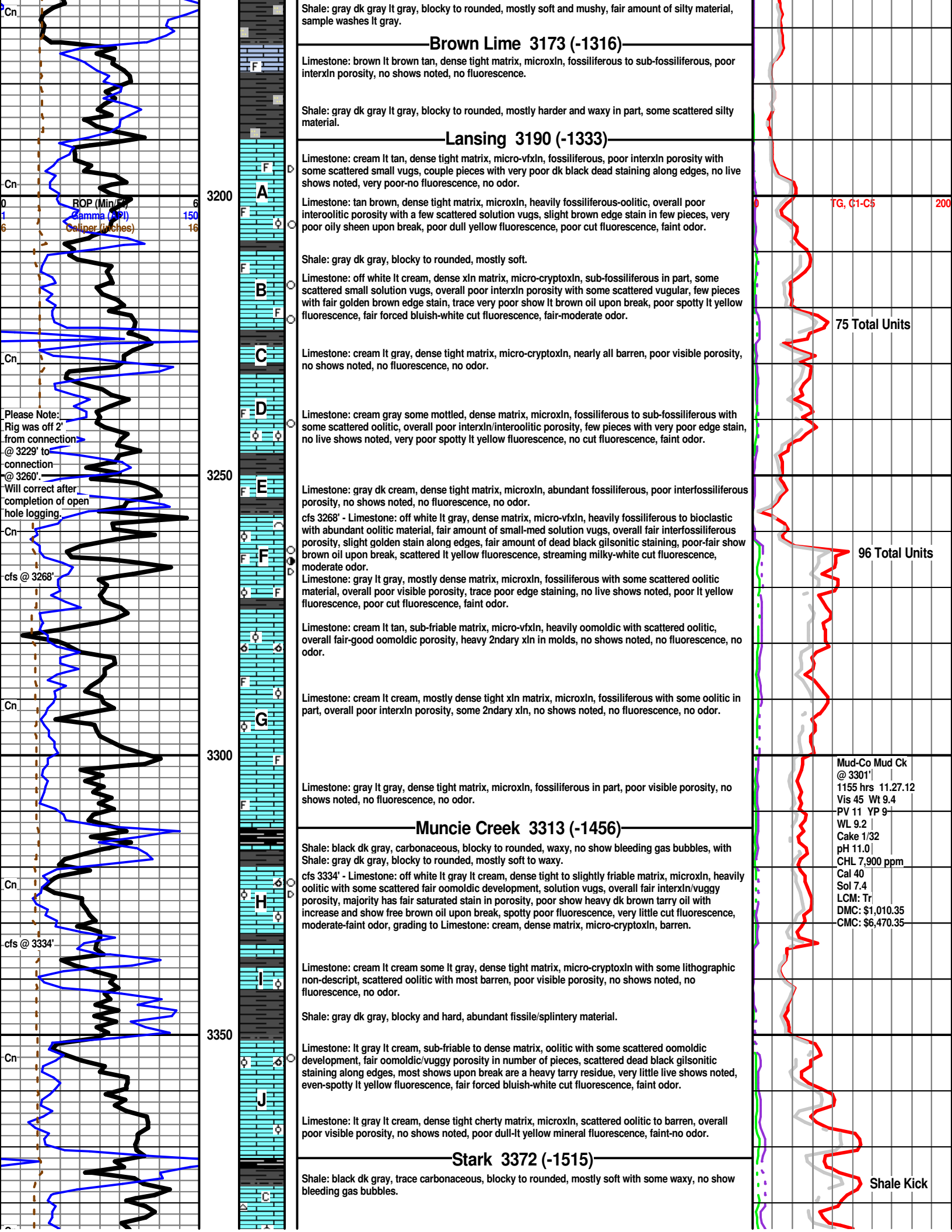
Mud-Co Mud Ck
@ 2765'
0740 hrs 11.26.12
Vis 54 Wt 8.7
PV 18 YP 16
WL 7.2
Cake 1/32
pH 11.5
CHL 6,000 ppm
Cal 20
Sol 2.6
LCM: 1/2 #/bbl
DMC: $842.35
CMC: $5,460.00

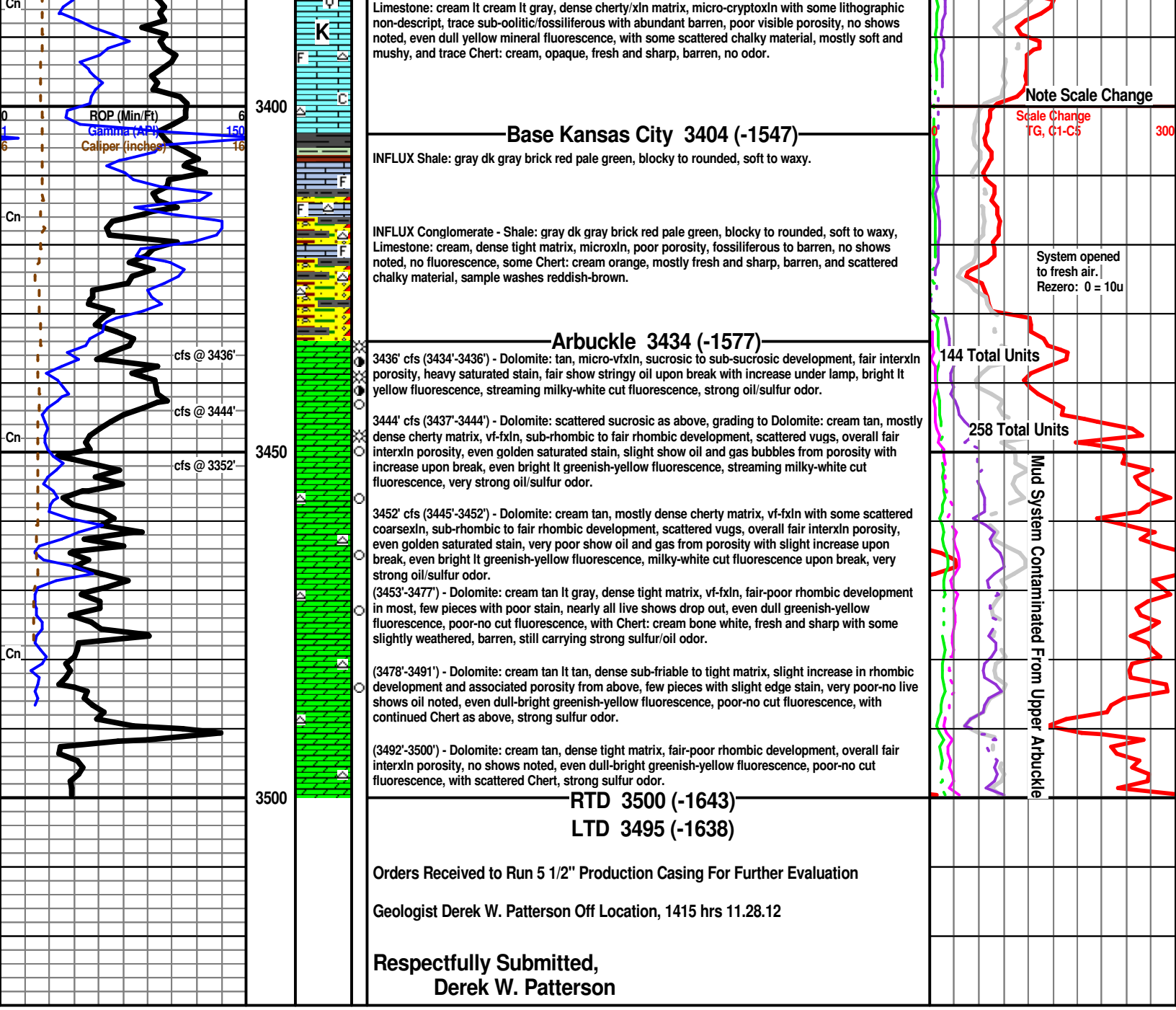
0 TG, C1-C5 200

Data Gap

Reset Bloodhound
(was 31' behind geolograph)


2950
3000
3050
3100
3150
Cn
Auto Driller Problems
0
ROP (Min/Ft)
6
1
Gamma (API)
150
6
Caliper (inches)
16
F
Queen Hill 2954 (-1097)
Trace Shale: black, carbonaceous, blocky to rounded, nearly all soft and mushy, no show bleeding gas bubbles.
Limestone: cream tan, dense tight matrix, microxln, fossiliferous to sub-fossiliferous, poor interxln porosity, no shows noted, no fluorescence.
Limestone: cream lt tan some lt gray, dense tight matrix, microxln, sub-fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence.
Limestone: cream lt tan some lt gray, dense tight matrix, micro-cryptoxln, sub-fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence.
Limestone: cream lt tan some lt gray, dense tight matrix, micro-cryptoxln, sub-fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence.
Heebner 3050 (-1193)
Shale: black, carbonaceous, blocky and hard, waxy in part, very poor show bleeding gas bubbles upon break.
Start 10' Wet & Dry Samples @ 3060'
Shale: gray dk gray, blocky, abundant fissile/splintery material, with some rounded and softer.
Toronto 3068 (-1211)
Limestone: cream lt cream off white, dense tight matrix, microxln, fossiliferous, poor interxln porosity, no shows noted, no fluorescence, with some interbedded Shale: gray dk gray, blocky to rounded, mostly hard to waxy.
Douglas 3082 (-1225)
Shale: gray dk gray pale green brick red, blocky to rounded, mostly all soft and waxy.
Shale: gray dk gray pale green brick red, blocky to rounded, mostly all soft and waxy.
Shale: gray dk gray some pale green, blocky to rounded, soft and mushy, sample washes lt gray.
Shale: gray dk gray, blocky to rounded, soft and mushy, some becoming silty in part, sample washes lt gray.
INFLUX Siltstone: gray lt gray, softer sub-friable matrix, vfgrained, very shaley, fair intergranular porosity, no shows noted, no fluorescence, with continued Shale as above.
Shale: gray dk gray lt gray, blocky to rounded, mostly soft and mushy, fair amount of silty material, with scattered Siltstone as above, no shows noted, no fluorescence, sample washes lt gray.
System Test
False Kick
0
TG, C1-C5
200
Shale Kick
85 Total Units
91 Total Units
No Associated Shows


Cn
0
ROP (Min/Ft)
6
1
Gamma (API)
150
6
Caliper (inches)
16
3200
3250
3300
3350
A
B
C
D
E
F
G
H
I
J
Please Note:
Rig was off 2'
from connection
@ 3229' to
connection
@ 3260'.
Will correct after
completion of open
hole logging.
cfs @ 3268'
cfs @ 3334'
Shale: gray dk gray lt gray, blocky to rounded, mostly soft and mushy, fair amount of silty material, sample washes lt gray.
Brown Lime 3173 (-1316)
Limestone: brown lt brown tan, dense tight matrix, microxln, fossiliferous to sub-fossiliferous, poor interxln porosity, no shows noted, no fluorescence.
Shale: gray dk gray lt gray, blocky to rounded, mostly harder and waxy in part, some scattered silty material.
Lansing 3190 (-1333)
Limestone: cream lt tan, dense tight matrix, micro-vfxln, fossiliferous, poor interxln porosity with some scattered small vugs, couple pieces with very poor dk black dead staining along edges, no live shows noted, very poor-no fluorescence, no odor.
Limestone: tan brown, dense tight matrix, microxln, heavily fossiliferous-oolitic, overall poor interoolitic porosity with a few scattered solution vugs, slight brown edge stain in few pieces, very poor oily sheen upon break, poor dull yellow fluorescence, poor cut fluorescence, faint odor.
Shale: gray dk gray, blocky to rounded, mostly soft.
Limestone: off white lt cream, dense xln matrix, micro-cryptoxln, sub-fossiliferous in part, some scattered small solution vugs, overall poor interxln porosity with some scattered vugular, few pieces with fair golden brown edge stain, trace very poor show lt brown oil upon break, poor spotty lt yellow fluorescence, fair forced bluish-white cut fluorescence, fair-moderate odor.
Limestone: cream lt gray, dense tight matrix, micro-cryptoxln, nearly all barren, poor visible porosity, no shows noted, no fluorescence, no odor.
Limestone: cream gray some mottled, dense matrix, microxln, fossiliferous to sub-fossiliferous with some scattered oolitic, overall poor interxln/interoolitic porosity, few pieces with very poor edge stain, no live shows noted, very poor spotty lt yellow fluorescence, no cut fluorescence, faint odor.
Limestone: gray dk cream, dense tight matrix, microxln, abundant fossiliferous, poor interfossiliferous porosity, no shows noted, no fluorescence, no odor.
cfs 3268' - Limestone: off white lt gray, dense matrix, micro-vfxln, heavily fossiliferous to bioclastic with abundant oolitic material, fair amount of small-med solution vugs, overall fair interfossiliferous porosity, slight golden stain along edges, fair amount of dead black gilsonitic staining, poor-fair show brown oil upon break, scattered lt yellow fluorescence, streaming milky-white cut fluorescence, moderate odor.
Limestone: gray lt gray, mostly dense matrix, microxln, fossiliferous with some scattered oolitic material, overall poor visible porosity, trace poor edge staining, no live shows noted, poor lt yellow fluorescence, poor cut fluorescence, faint odor.
Limestone: cream lt tan, sub-friable matrix, micro-vfxln, heavily oomoldic with scattered oolitic, overall fair-good oomoldic porosity, heavy 2ndary xln in molds, no shows noted, no fluorescence, no odor.
Limestone: cream lt cream, mostly dense tight xln matrix, microxln, fossiliferous with some oolitic in part, overall poor interxln porosity, some 2ndary xln, no shows noted, no fluorescence, no odor.
Limestone: gray lt gray, dense tight matrix, microxln, fossiliferous in part, poor visible porosity, no shows noted, no fluorescence, no odor.
Muncie Creek 3313 (-1456)
Shale: black dk gray, carbonaceous, blocky to rounded, waxy, no show bleeding gas bubbles, with
Shale: gray dk gray, blocky to rounded, mostly soft to waxy.
cfs 3334' - Limestone: off white lt gray lt cream, dense tight to slightly friable matrix, microxln, heavily oolitic with some scattered fair oomoldic development, solution vugs, overall fair interxln/vuggy porosity, majority has fair saturated stain in porosity, poor show heavy dk brown tarry oil with increase and show free brown oil upon break, spotty poor fluorescence, very little cut fluorescence, moderate-faint odor, grading to Limestone: cream, dense matrix, micro-cryptoxln, barren.
Limestone: cream lt cream some lt gray, dense tight matrix, micro-cryptoxln with some lithographic non-descript, scattered oolitic with most barren, poor visible porosity, no shows noted, no fluorescence, no odor.
Shale: gray dk gray, blocky and hard, abundant fissile/splintery material.
Limestone: lt gray lt cream, sub-friable to dense matrix, oolitic with some scattered oomoldic development, fair oomoldic/vuggy porosity in number of pieces, scattered dead black gilsonitic staining along edges, most shows upon break are a heavy tarry residue, very little live shows noted, even-spotty lt yellow fluorescence, fair forced bluish-white cut fluorescence, faint odor.
Limestone: lt gray lt cream, dense tight cherty matrix, microxln, scattered oolitic to barren, overall poor visible porosity, no shows noted, poor dull-lt yellow mineral fluorescence, faint-no odor.
Stark 3372 (-1515)
Shale: black dk gray, trace carbonaceous, blocky to rounded, mostly soft with some waxy, no show bleeding gas bubbles.
0
TG, C1-C5
200
75 Total Units
96 Total Units
Mud-Co Mud Ck
@ 3301'
1155 hrs 11.27.12
Vis 45 Wt 9.4
PV 11 YP 9
WL 9.2
Cake 1/32
pH 11.0
CHL 7,900 ppm
Cal 40
Sol 7.4
LCM: Tr
DMC: $1,010.35
CMC: $6,470.35
Shale Kick



Limestone: cream lt cream lt gray, dense cherty/xln matrix, micro-cryptoxln with some lithographic non-descript, trace sub-oolitic/fossiliferous with abundant barren, poor visible porosity, no shows noted, even dull yellow mineral fluorescence, with some scattered chalky material, mostly soft and mushy, and trace Chert: cream, opaque, fresh and sharp, barren, no odor.

Base Kansas City 3404 (-1547)

INFLUX Shale: gray dk gray brick red pale green, blocky to rounded, soft to waxy.

INFLUX Conglomerate - Shale: gray dk gray brick red pale green, blocky to rounded, soft to waxy, Limestone: cream, dense tight matrix, microxln, poor porosity, fossiliferous to barren, no shows noted, no fluorescence, some Chert: cream orange, mostly fresh and sharp, barren, and scattered chalky material, sample washes reddish-brown.

Arbuckle 3434 (-1577)

3436' cfs (3434'-3436') - Dolomite: tan, micro-vfxln, sucrosic to sub-sucrosic development, fair interxln porosity, heavy saturated stain, fair show stringy oil upon break with increase under lamp, bright lt yellow fluorescence, streaming milky-white cut fluorescence, strong oil/sulfur odor.

3444' cfs (3437'-3444') - Dolomite: scattered sucrosic as above, grading to Dolomite: cream tan, mostly dense cherty matrix, vf-fxln, sub-rhombic to fair rhombic development, scattered vugs, overall fair interxln porosity, even golden saturated stain, slight show oil and gas bubbles from porosity with increase upon break, even bright lt greenish-yellow fluorescence, streaming milky-white cut fluorescence, very strong oil/sulfur odor.

3452' cfs (3445'-3452') - Dolomite: cream tan, mostly dense cherty matrix, vf-fxln with some scattered coarsexln, sub-rhombic to fair rhombic development, scattered vugs, overall fair interxln porosity, even golden saturated stain, very poor show oil and gas from porosity with slight increase upon break, even bright lt greenish-yellow fluorescence, milky-white cut fluorescence upon break, very strong oil/sulfur odor.

(3453'-3477') - Dolomite: cream tan lt gray, dense tight matrix, vf-fxln, fair-poor rhombic development in most, few pieces with poor stain, nearly all live shows drop out, even dull greenish-yellow fluorescence, poor-no cut fluorescence, with Chert: cream bone white, fresh and sharp with some slightly weathered, barren, still carrying strong sulfur/oil odor.

(3478'-3491') - Dolomite: cream tan lt tan, dense sub-friable to tight matrix, slight increase in rhombic development and associated porosity from above, few pieces with slight edge stain, very poor-no live shows oil noted, even dull-bright greenish-yellow fluorescence, poor-no cut fluorescence, with continued Chert as above, strong sulfur odor.

(3492'-3500') - Dolomite: cream tan, dense tight matrix, fair-poor rhombic development, overall fair interxln porosity, no shows noted, even dull-bright greenish-yellow fluorescence, poor-no cut fluorescence, with scattered Chert, strong sulfur odor.

RTD 3500 (-1643)
LTD 3495 (-1638)

Orders Received to Run 5 1/2" Production Casing For Further Evaluation

Geologist Derek W. Patterson Off Location, 1415 hrs 11.28.12

Respectfully Submitted,
Derek W. Patterson

Original

Received 12/11/2012

COPELAND Acid & Cement

TREATMENT REPORT

Acid Stage No. .....

Date 12/7/12 District G.B F. O. No. C41667

Company Cosso Energy

Well Name & No. Anderson #6

Location ..... Field .....

County Barton State KS

Casing: Size 5½" Type & Wt. ..... Set at ..... ft.

Formation: ..... Perf. ..... to .....

Formation: ..... Perf. ..... to .....

Formation: ..... Perf. ..... to .....

Liner: Size — Type & Wt. ..... Top at ..... ft. Bottom at ..... ft.

Cemented: Yes/No. Perforated from ..... ft. to ..... ft.

Tubing: Size & Wt. 2⅞" Swung at ..... ft.

Perforated from ..... ft. to ..... ft.

Open Hole Size ..... T.D. ..... ft. P.B. to ..... ft.

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of Sand
Bkdown	..... Bbl. /Gal.	.....	.....	.....
	..... Bbl. /Gal.	.....	.....	.....
	..... Bbl. /Gal.	.....	.....	.....
	..... Bbl. /Gal.	.....	.....	.....
Flush	..... Bbl. /Gal.	.....	.....	.....
Treated from	..... ft. to ..... ft.	No. ft.		
from	..... ft. to ..... ft.	No. ft.		
from	..... ft. to ..... ft.	No. ft.		

Actual Volume of Oil/Water to Load Hole: ..... Bbl. /Gal.

Pump Trucks. No. Used: Std. 320 Sp. ..... Twin .....

Auxiliary Equipment 317/310

Packer: ..... Set at ..... ft.

Auxiliary Tools .....

Plugging or Sealing Materials: Type ..... Gals. ..... lb.

Company Representative Mike Kelso Treater Nathan W.

TIME a.m. (p.m.)	PRESSURES Tubing	PRESSURES Casing	Total Fluid Pumped	REMARKS
1:00	2⅞"	5½"		On location.
				Port collar = 1391.
				Pressure up to 600#. Open tool.
				Break circulation w/ water.
				Mix 350 sks. 65/35 poz. 6% gel.
				Circulated cement to surface.
				Displace w/ 7⅛ bbls. Shut tool.
				Pressure test to 1,000#.
3:30				Run 3 jts. Reverse out w/ 20 bbls.
				Thank You!
				Nathan W.

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 ~~0~~7038 AA

DATE TICKET NO.

DATE OF JOB 11-20-12 DISTRICT KANSAS	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Lasso Energy LLC	LEASE ANDERSON # 9 WELL NO.
ADDRESS	COUNTY Barton 08-20-12 STATE Ks
CITY STATE	SERVICE CREW Allen, Mike M., Tessie.
AUTHORIZED BY	JOB TYPE: 8-5/8 Surface CNW

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
28443 P.U.	1				
27463 Pt.	1				
19959-19862	1				

TRUCK CALLED	11-20-12	AM PM 300
ARRIVED AT JOB	11-20-12	AM PM 520
START OPERATION	11-20-12	AM PM 1040
FINISH OPERATION	11-20-12	AM PM 1100
RELEASED	11-20-12	AM PM 1200
MILES FROM STATION TO WELL	50-m, los	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP106	A-Serv Lite	sk	175		$ 2275 00
CP100	Common	sk	150		$ 2400 00
CC102	Cell Flake	lb	81		$ 799 20
CC109	Calcium Chloride	lb	741		$ 778 05
CF153	WOODEN Cement Plug 8-5/8"	EA	1		$ 160 00
~~CC131~~	~~Sugar~~	~~lb~~	~~50~~		~~NC~~
E100	Unit Mileage Charge P.U.	mi	50		$ 212 50
E101	Heavy Equip Mileage	mi	100		$ 700 00
E113	Bulk Delivery Charge	TM	735		$ 1176 00
CE200	Depth Charge 0'-500'	4hr	1		$ 1000 00
CE240	Blending & Mixing Service chg	sk	325		$ 455 00
CE504	Plug Container Utilization chg	Job	1		$ 250 00
S003	Service Supervisor First 8hrs	ea	1		$ 125 00

CHEMICAL / ACID DATA:			

SUB TOTAL		~~$ 7,485 64~~
SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
TOTAL		7410 64

DLS

SERVICE REPRESENTATIVE Allen Ward

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Erica Davidson
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC energy services, L.P.

TREATMENT REPORT

Customer: LASSO Energy LLC	Lease No.			Date: 11-20-12	
Lease: ANDERSON	Well #: #9				
Field Order #: 07038A	Station: Pratt	Casing: 8 5/8	Depth: 435	County: Barton	State: KS
Type Job: 8 5/8 Surface Pipe		Formation: TD 435		Legal Description: 28-28-12	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 8 5/8	Tubing Size	Shots/Ft	175 sks	Acid: A-Serv Lite	RATE	PRESS: 13.3#	ISIP
Depth: 435	Depth	From	To: 150 sks Com. 2%	Pre Pad	Max: CC, 1/4# C.F. @ 15.6#		5 Min.
Volume: 26 1/2	Volume	From	To	Pad	Min		10 Min.
Max Press: 300#	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 415	Packer Depth	From	To	Flush: Disp H2O	Gas Volume		Total Load

Customer Representative: Greg TP | Station Manager: Scott | Treater: Allen

Service Units	28443	17463	19959	19862							
Driver Names	Allen	Mike	Jessie	Pierce							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log VAL #3
520 AM					ON loc. Discuss Safety, Setup Plan Job
					start 8 5/8 csg. 23#
					can't Find 8 5/8 Chips.
630					Run Back IN Hole w/ D.P.
739					Back out of Hole
748					start csg 23#
1000					Casing @ 435 circ w/ Rig.
1015	200#		52	4 1/2	start mix 175 sks A Serv Life 13.3#
					start mix 150 sks common
					2% CC, 1/4# C.F. @ 15.6#
			32		Finish mix
					Release wooden Plug 8 5/8"
				4 1/2	start Disp.
1045	300#		26 1/2	3	Plug down
					shut in @ well
					Release PSI
					Washup + Rackup Equip.
					Job complete
					thanks
					Allen
			Cement To Pit		Mike M.
					Jessie

Taylor Printing, Inc. 620-672-3656

BASiC energy services, L.P.

TREATMENT REPORT

Customer	Lease No.	Date
Lasso Energy, LLC		11-29-12
Lease: Anderson	Well # 9	

Field Order #	Station	Casing	Depth	County	State
7434	Pratt, Kansas	5½ 17Lb.	3,495 Feet	Barton	Kansas

Type Job	Formation	Legal Description
C.N.W. - Longstring		28-20S-12W

PIPE DATA		PERFORATING DATA		Cement USED	TREATMENT RESUME		
Casing Size: 5½ 17Lb/Ft	Tubing Size	Shots/Ft		100 sacks AA-2 with .5% FLA-322, .3% Friction Reducer,	RATE	PRESS	ISIP
Depth: 3,495 Feet	Depth	From .28 Defoamer,	To	10% Salt, 5Lb/sk. Gilsonite	Max		5 Min.
Volume: 81 Bbl.	Volume	From	To	15.3Lb/sk., 5.54 Gal/sk. 1.36 CU.FT/sk.	Min		10 Min.
Max Press: 1,500 PSI.	Max Press	From	To		Avg		15 Min.
Well Connection: Plug Container	Annulus Vol.	From 50 sacks	To 60/40	Poz to Plug Rat (30 sacks) and Mouse (20 sacks) Holes	HHP Used		Annulus Pressure
Plug Depth: 3,475 Feet	Packer Depth	From	To	Flush: 80.6 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
Bruce Kelso	David Scott	Clarence R. Messick

Service Units	37,216	19,903	19,905	19,860	19,918						
Driver Names	Messick	Mattal	Calloway								

Time PM	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:00					Trucks on location and hold safety meeting.
9:45					Val Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down Baffle screwed into Collar and a total of 91 Joints new 17Lb/Ft 5½" casing. A Basket was installed on top of collar #54. A Turbolizer was installed on collars #2, 4, 6, 8, 10 and #12. A [illegible] Collar was installed on top of collar #55 or 1,401 Feet down from surface.
12:15					[illegible]
1:25		3,000			[illegible]
[illegible]				6	[illegible]
			10	6	[illegible]
			[illegible]	5	[illegible]
[illegible]			27	5	[illegible]
			[illegible]		[illegible]
					[illegible]
[illegible]				[illegible]	[illegible]
				[illegible]	[illegible]

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

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

March 14, 2013

BRUCE D. KELSO
Lasso Energy LLC
PO Box 465
1125 SOUTH MAIN
Chase, KS 67524

Re: ACO1
API 15-009-25773-00-00
Anderson 9
NW/4 Sec.28-20S-12W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years. We also request that the well samples submitted be given confidentiality.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
BRUCE D. KELSO