KOLAR Document ID: 1377426

CORRECTION #1

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 # 5150
Name: Colt Energy Inc
Address 1: PO BOX 388
Address 2:
City: IOLA State: KS Zip: 66749 + 0388
Contact Person: Michelle
Phone: (913) 236-0016
CONTRACTOR: License # 34953
Name: King, Andrew D.
Wellsite Geologist: Rex Ashlock
Purchaser: Coffeyville Resources, LLC

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 #:

11/14/2017 Spud Date or Recompletion Date
11/17/2017 Date Reached TD
11/22/2017 Completion Date or Recompletion Date

API No.: 15-207-29500-00-00
Spot Description:
NE - NW - NW - SE Sec. 23 Twp. 26 S. R. 14 ☑ East ☐ West
2475 Feet from ☐ North / ☑ South Line of Section
2081 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: Woodson
Lease Name: DUNCAN Well #: 3
Field Name: Big Sandy
Producing Formation: Bartlesville
Elevation: Ground: 952 Kelly Bushing: 957
Total Vertical Depth: 1382 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 40 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 1367 w/ 160 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: 12/19/2017
☑ **Confidential Release Date:** 12/19/2019
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 12/27/2017

CORRECTION #1

Page Two

KOLAR Document ID: 1377426

Operator Name: Colt Energy Inc Lease Name: DUNCAN Well #: 3

Sec. 23 Twp. 26 S. R. 14 ☑ East ☐ West County: Woodson

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☑ Yes	☐ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☑ No

List All E. Logs Run:

Gamma Ray/Neutron

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

Name	Top	Datum
See Driller's Log 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	11.25	8.625	22	40	Portland	14	None
Production	6.75	4.5	11.6	1367	Thick Set	160	Pheno-Seal 3#/sx

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	-			
	-			

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: 12/18/2017

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	6		25		

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)*

PRODUCTION INTERVAL:

Top	Bottom
1244	1300

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	1244	1248			169 BBL of Gel'd water, 5 sx 16/30 sand, and 45 sx 12/20 sand
4	1263	1265			
4	1270	1280			
4	1284	1290			
4	1298	1300			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Colt Energy Inc
Well Name	DUNCAN 3
Doc ID	1377426

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	11.25	8.625	22	40	Portland	14	None
Production	6.75	4.5	11.6	1367	Thick Set	160	Pheno-Seal 3#/sx

KOLAR Document ID: 1375713

Confidentiality Requested:
☑ Yes ☐ No

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # 5150
Name: Colt Energy Inc
Address 1: PO BOX 388
Address 2:
City: IOLA State: KS Zip: 66749 + 0388
Contact Person: Michelle
Phone: (913) 236-0016
CONTRACTOR: License # 34953
Name: King, Andrew D.
Wellsite Geologist: Rex Ashlock
Purchaser: Coffeyville Resources, LLC

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 #:

11/14/2017	11/17/2017	11/22/2017
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-207-29500-00-00
Spot Description:
NE - NW - NW - SE Sec. 23 Twp. 26 S. R. 14 ☑ East ☐ West
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2081 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: Woodson
Lease Name: DUNCAN Well #: 3
Field Name: Big Sandy
Producing Formation: Bartlesville
Elevation: Ground: 952 Kelly Bushing: 957
Total Vertical Depth: 1382 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 40 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 1367 w/ 160 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: 12/19/2017
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 12/26/2017

COLT ENERGY, INC.

CORE REPORT

11/16/2017

Well: **Duncan #3**
2475 FSL, 2081 FEL
Section 23-T26S-R14E
Woodson Co., KS
API #15-207-29500
Elevation: 952 (surveyed by Deb Ballard)

Two contiguous cores taken from the Bartlesville Sand Zone
Core #1: 1268.00-1294.66+/- and Core #2: 1294.66-1324.00
11/16/2017

Core time per ft.:

	Min.	Sec.		Min.	Sec.		Min.	Sec.
1268	---	---		1287	19	1306	13	
1269	17			1288	20	1307	12	
1270	22			1289	23	1308	11	
1271	22			1290	20	1309	13	
1272	21			1291	20	1310	16	
1273	21			1292	22	1311	13	
1274	23			1293	21	1312	12	
1275	18			1294	41	1313	11	
1276	24		(Core #2)	1295	45	1314	11	
1277	41			1296	21	1315	11	
1278	28			1297	18	1316	11	
1279	21			1298	18	1317	12	
1280	24			1299	18	1318	12	
1281	27			1300	19	1319	13	
1282	29			1301	18	1320	18	
1283	45			1302	16	1321	18	
1284	40			1303	19	1322	17	
1285	19			1304	12	1323	14	
1286	18			1305	12	1324	15	

Duncan #3

The following is a brief description of the subject cores, (depths are based on the Driller's measurements which appear to be 1.5 to 2.0 feet shallower than the open hole measurements):

1268.00-1277.50 Sandstone light brown to brown, highly fractured 1268-72.65 and an elongated, tapered fracture from 1272.65 to 1277.5. No to very weak show of free oil – "bleed" from 1268-71.6, fair to somewhat good bleed (in part) from 1271.6-75.8 and good to very good bleed, from 1275.8-77.5, gassy. {9.50}

1277.50-1281.50 Sandstone, grayish-brown, very-very weak bleed, more of a strong oily sheen, looks "watery" and/or "drained", no shows of gas. {4.0}

1281.50-1283.40 Sandstone, very-very hard, dense, no show. {1.90}

1283.40-1283.55 Sandstone, permeability transition zone between no bleed, dense sand above and very weak bleed to excellent bleed below. {.15}

1283.55-1289.10 Sandstone, a little variance in permeability and very slightly silty and shaley from 1287.5-89.05, good to very good bleed, with time, mostly excellent bleed, gassy. {5.55}

1289.10-1289.80 Sandstone, scattered silty-sandy shale and permeability lamina, weak to fair bleed, gassy. {.70}

1289.80-1294.00+/- Sandstone, fractured from 1290-92.3 and an elongated, wedge shaped fracture from 92.3-94.0, off and on area/zones of no to very good bleed, gassy where bleeding, tends to look "watery" toward base. {4.20}

1294.00-1994.66+/-Shale with a few intermittent silt/sandstone lamina and thin lens at base with weak bleed and "blebs". {.66+/-}.

Core #2

1295.00+/- - 1296.80 Shale with ¼ to 1.5 inch, "wispy" silt/sandstone lamina, no to fair bleed with scattered "blebs" from this lamina. {1.80+/-}

1296.80-1297.00 Sandstone, silty to a little shaley, good to very good bleed (somewhat excellent bleed with time), gassy. {.20}

1297.00-1297.65 Shale, scattered convoluted featheredge, white, silt/sandstone lamina, scattered pebble size clay/mudstone nodules at base, no shows. {.65}

1297.65-1298.75 Sandstone, excellent bleed, grades to very good bleed with depth, gassy. {1.10}

Duncan #3

Core #2 continued:

1298.75-1299.00 Conglomeritic sandstone, fair amount of angular, olive green shale fragments and clay/mudstone nodules (shale and nodules are not as large as those found in the Cobble wells), overall fair bleed with fair show of "dead" oil. {.25}

1299.00-1300.40 Sandstone, fair bleed, little gassy top 4 inches, then with depth; grades to very weak uniform bleed with few bubbles, to no bleed, then gradual transition to silty to shale with "dead" oil. {1.40}

1300.40-1300.80 Shale very-very silty to sandy, less silt and sand with depth, no show. {.40}

1300.80-1301.15 Sandstone, silty to shaley, weak with trace fair bleed, more like abundant "blebs". {.35}

1301.15-1302.10 Sandstone, dense, little shaley, no bleed, good show of "dead" oil. {.95}

1302.10-1302.45 Shale sandy, dense with featheredge silt/sandstone lamina, light oily stain in a few lamina, no shows of free oil or gas. {.35}

1302.45-1303.75 Sandstone with silty and sandy shale partings, few scattered elongated clay/mudstone nodules, no bleed, only a weak show of "dead" oil. {1.30}

1303.75-1306.50 Shale, very-very dark gray, mostly black, pyritic in part. {2.75}

1306.50-1309.00 Shale, medium to dark gray, clayish in part, scattered "slick-n-side". {2.50}

1309.00-1310.80 Shale, gray, silty, dense. {1.80}

1310.80-1317.10 Shale, dark gray grading to a dense, black shale with depth. {6.30}

1317.10-1324.20 Shale, gray to medium gray, scattered silty lamina and "slick-n-side". {7.10}

1324.20-1324.85+/- Shale, black, dense, pyritic. {.65+/-}

End Report

Rex R. Ashlock
For: Colt Energy, Inc.

Summary of Changes

Lease Name and Number: DUNCAN 3

API/Permit #: 15-207-29500-00-00

Doc ID: 1377426

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	12/26/2017	12/27/2017
Cores Taken?	No	Yes

Summary of Attachments

Lease Name and Number: DUNCAN 3

API: 15-207-29500-00-00

Doc ID: 1377426

Correction Number: 1

Attachment Name

Operator Name: Colt Energy Inc Lease Name: DUNCAN Well #: 3

Sec. 23 Twp. 26 S. R. 14 ☑ East ☐ West County: Woodson

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☑ Yes	☐ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☑ No

List All E. Logs Run:

Gamma Ray/Neutron

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

Name: See Driller's Log Attached Top Datum

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	11.25	8.625	22	40	Portland	14	None
Production	6.75	4.5	11.6	1367	Thick Set	160	Pheno-Seal 3#/sx

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	-			
	-			

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: 12/18/2017

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	6		25		

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)*

PRODUCTION INTERVAL:

Top	Bottom
1244	1300

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	1244	1248			169 BBL of Gel'd water, 5 sx 16/30 sand, and 45 sx 12/20 sand
4	1263	1265			
4	1270	1280			
4	1284	1290			
4	1298	1300			

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Colt Energy Inc
Well Name	DUNCAN 3
Doc ID	1375713

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	11.25	8.625	22	40	Portland	14	None
Production	6.75	4.5	11.6	1367	Thick Set	160	Pheno-Seal 3#/sx

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. 3655
Foreman Rick Ledford
Camp Eureka KS

API # 15-207-29500

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
11-17-17	1003	Duncan # 3	23	26S	14E	Woodson	KS

Customer	Safety Meeting	Unit #	Driver	Unit #	Driver
Colt Energy Inc	RL DG JH	105	Dave G.		
Mailing Address: P.O. Box 388		112	Jason H.		
City: Iola / State: KS / Zip Code: 66749					

Job Type LS
Casing Depth 1366'
Casing Size & Wt. 4½" 11.6#
Displacement 21.8 Bbl
Hole Depth 1382'
Hole Size 6¾"
Cement Left in Casing 4' SJ
Displacement PSI 850
Slurry Vol. 50 Bbl
Slurry Wt. 13.8#
Water Gal/SK 9.0
Bump Plug to 1250
Tubing
Drill Pipe
Other
BPM

Remarks: Safety meeting- Rig up to 4½" casing. Break circulation w/ fresh water. Pump 10 sks gel-flush w/ hulls, 5 Bbl water spacer. Mixed 160 sks thickset cement w/ 3# phenoseal/sk @ 13.8#/gal. Washout pump & lines, release plug. Displace w/ 21.8 Bbl water. Final pump pressure 850 PSI. Bump plug to 1250 PSI. Release pressure, float & plug held. Good cement returns to surface = 8 Bbl slurry to pit. Job complete. Rig down.

"Thank You"

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C102	1	Pump Charge	[redacted]	[redacted]
C107	25	Mileage		
C201	160 sks	thickset cement	[redacted]	[redacted]
C208	480#	3# phenoseal/sk		
C206	500#	gel-flush	[redacted]	[redacted]
C214	80#	hulls		
C1038	8.2	ton mileage bulk truck	[redacted]	[redacted]
C403	1	4½" top rubber plug	[redacted]	[redacted]
			Subtotal	[redacted]
			Sales Tax	
			Total	

Authorization R. Allbach Title "Rock Nut"

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

Mud Rotary Drilling
Andrew King - Manager/Driller

Bar Drilling, LLC

Phone: (719) 210-8806

1317 105th Rd.
Yates Center, KS 66783

Company/Operator	Well No.	Lease Name	Well Location	1/4	1/4	1/4	Sec.	Twp.	Rge,
Colt Energy Inc.	3	Duncan	2475' fsl, 2081' fel	NE	NW	NW	23	26s	14e
P O. Box 388	Well API #	Type/Well	County	State	Total Depth		Date Started	Date Completed	
Iola, KS 66749	15-207-29500	Oil	Woodson	KS	1382		11/14/2017	11/17/2017	

Job/Project Name/No.	Surface Record		Bit Record				Coring Record				
			Type	Size	From	To	Core #	Size	From	To	% Rec.
Driller/Crew	Bit Size:	11 1/4	PDC	11 1/4	0'	40'	1	3"	1268	1294	100
Andy King	Casing Size:	8 5/8	PDC	6 3/4	40'	1382	2	3"	1294	1324	100
Charles King	Casing Length:	40'									
	Cement Used:	14sx									
	Cement Type:	Portland									

Formation Record

From	To	Formation	From	To	Formation	From	To	Formation
0	34	overburden						
34	216	shale						
216	481	lansing lime						
481	561	shale						
561	741	KC lime						
741	870	shale						
870	884	lime						
884	975	sandy shale						
975	999	lime						
999	1026	shale						
1026	1055	Ft. Scott lime						
1055	1069	shale						
1069	1085	sq. sand						
1085	1268	shale						
1268	1294	core #1						
1294	1324	core #2						
1324	1381	sandy shale						
1381	1382	Miss lime						

Well Notes:

RAN 1366.67' OF 4 1/2" CASING