



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1170002
OIL & GAS CONSERVATION DIVISION

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 # _____

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 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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1170002

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 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				

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 3-22
Doc ID	1170002

Tops

Name	Top	Datum
Oread	3990	-849
LKC A	4085	-944
LKC B	4143	-1002
LKC C	4206	-1065
LKC D	4250	-1109
LKC E	4292	-1151
LKC F	4335	-1194
Pawnee	4480	-1339
Mississippi	4780	-1639
Arbuckle	4850	-1709
Reagan	5056	-1915
RTD	5230	

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 061157

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley Ky

DATE <u>9/20/13</u>	SEC <u>22</u>	TWP. <u>15</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30am</u>	JOB FINISH <u>8:00pm</u>	
LEASE <u>Michael</u>	WELL# <u>3-22</u>	LOCATION <u>McDonald N to AA 3/4 E</u>				COUNTY <u>Henderson</u>	STATE <u>Ky</u>	
OLD OR NEW (Circle one)			<u>Sints</u>					

CONTRACTOR Bredco J
 TYPE OF JOB Surface
 HOLE SIZE 8 1/2" T.D.
 CASING SIZE 8 1/2" DEPTH 308'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 151
 PERFS.
 DISPLACEMENT 18.66 18.66 ABC

EQUIPMENT
 PUMP TRUCK CEMENTER Alan Ryan
 # 983-281 HELPER Kevin Ryan
 BULK TRUCK
 # 396 DRIVER Alex (TWS)
 BULK TRUCK
 # DRIVER

REMARKS:
By Cas Circulate Mix Cement
By Case Cement
SPURTING
Cement Bed Circulate
Marking Alex

CHARGE TO: Berexco Inc
 STREET
 CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME
 SIGNATURE Mylo S

OWNER Sinti
 CEMENT
 AMOUNT ORDERED 225 Can 370 CC
270628

COMMON	<u>225</u>	@	<u>17.90</u>	<u>4027.50</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>23.40</u>	<u>94.40</u>
CHLORIDE	<u>8</u>	@	<u>64.00</u>	<u>512.00</u>
ASC		@		
HANDLING	<u>843.3 CF</u>	@	<u>2.10</u>	<u>1770.93</u>
MILEAGE	<u>700</u> <u>700/mile</u>	@	<u>11.014</u>	<u>7711.80</u>
TOTAL				<u>6669.10</u>

SERVICE

DEPTH OF JOB	<u>308'</u>			
PUMP TRUCK CHARGE				<u>1578.25</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>50</u>	@	<u>22.00</u>	<u>1100.00</u>
MANIFOLD	<u>ATV/valve</u>	@	<u>4.00</u>	<u>16.00</u>
TOTAL				<u>1894.25</u>

PLUG & FLOAT EQUIPMENT

	@			
	@			
	@			
	@			
	@			
TOTAL				

SALES TAX (If Any)
 TOTAL CHARGES 8,566.35
 DISCOUNT 2,398.57 IF PAID IN 30 DAYS
6,167.77 Net



CEMENTING LOG

STAGE NO.

Date 9/22/13 District Oakley Ticket No. 061157
 Company Barago Rig Barago 2
 Lease Michell Well No. 3-22
 County Reynolds State TX
 Location _____ Field _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type Cam 370cc 291y/l

Excess _____
 Amt. 805 Sks Yield 1.94 ft³/sk Density 15.2 PPG

TAIL: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead 6.5 gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 429-281

Bulk Equip. 196

Float Equip: Manufacturer _____

Shoe: Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG

Mud Type _____ Weight _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 7/8 Type New Weight 24 Collar _____

Casing Depths: Top 120 Bottom 308

Drill Pipe: Size 4 1/2 Weight _____ Collars _____

Open Hole: Size 12 1/4 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. _____

Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE M. Lo Galvan

CEMENTER Ph

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
<u>7:30pm</u>						<u>Preparation 9PM, 10PM Setup</u>
				<u>35.0</u>	<u>7.0</u>	<u>Run Cas - Circulate</u>
				<u>18.79</u>	<u>4.0</u>	<u>mix Cement</u>
						<u>High Blue Cement</u>
						<u>Shot in</u>
<u>8:00pm</u>						<u>Job Complete</u>

WELL FILE

ALLIED OIL & GAS SERVICES, LLC 061119

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Corkley, KS

DATE <u>10-4-13</u>	SEC. <u>22</u>	TWP. <u>15</u>	RANGE <u>36 W</u>	CALLED OUT <u>9:00 PM</u>	ON LOCATION <u>5-5-13 1:00 AM</u>	JOB START <u>5:30 PM</u>	JOB FINISH <u>6:00 PM</u>
LEASE <u>Michael</u>		WELL# <u>3-22</u>		LOCATION <u>McDonnell N TO R.A.A 1 1/4 E 510 70</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Bredco
 TYPE OF JOB Prod - DV
 HOLE SIZE 7 7/8 T.D. 5230
 CASING SIZE 5 1/2 DEPTH 5229
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL OV DEPTH 3074
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 42.20
 PERFS. _____
 DISPLACEMENT 123.4 24

EQUIPMENT

PUMP TRUCK CEMENTER Kathy Grabel
 # 423 HELPER Wayne McElhenny
 BULK TRUCK _____
 # 566 & 395 DRIVER Mike McKampan
 BULK TRUCK _____
 # 386 & 310 DRIVER Brendon Wilkinson
Juan (TWS)

REMARKS:

Got to location safety meeting
rigged up mixed 200 sks line 3/4" flow
isolation with 200 sks com 5# Gilsomite
1000 salt 200 gel, opened and circulated
for 4 hrs. Plugged PH 9MH mixed 355 sks
down center, released plug displaced.

CHARGE TO: Berexco
 STREET _____
 CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____
 SIGNATURE [Signature]

OWNER Same
 CEMENT
 AMOUNT ORDERED 200 SKS COM 5# Gilsomite
1000 salt 200 gel 6.25 SKS line 3/4" flow seal
75 SKS COM
 COMMON 275 SKS @ 17.00 = 4687.50
 POZMIX _____ @ _____
 GEL 400 @ 23.45 = 9380.00
 CHLORIDE _____ @ _____
 ASC _____ @ _____
 Line 625 SKS @ 15.25 = 9562.50
Gilsomite 1200 @ 1.98 = 2376.00
Salt 20 SKS @ 26.35 = 527.00
 HANDLING 934.68 cu ft @ 2.45 = 2289.96
 MILEAGE 39.79 to 50 mi X 2.60 = 103.45
 TOTAL 223,533.57

SERVICE

DEPTH OF JOB 5230
 PUMP TRUCK CHARGE 3099.35 - 2558.75
 EXTRA FOOTAGE _____ @ _____
 MILEAGE M.H.V. 50 @ 7.70 = 385.00
 MANIFOLD _____ @ _____
 TOTAL 6043.00

PLUG & FLOAT EQUIPMENT

5 1/2" AFH float shoe 232.00 = 232.00
Latchman Assy/102 plug @ 184.00 = 184.00
Centralizer (20) @ 37.00 = 740.00
Recip. scratchers (30) @ 46.00 = 1380.00
Brackets (w) 24 @ 17.00 = 408.00
DOTs @ 28.00 = 28.00
 TOTAL 6450.00

SALES TAX (if Any) _____
 TOTAL CHARGES 36,626.57
 DISCOUNT 10,087.43 IF PAID IN 30 DAYS
25,939.13 Net.



CEMENTING LOG

STAGE NO.

Date 10-4-13 District Midcon Ticket No. 061119
Company Repexco Rig Repexco #2
Lease Michael Well No. 3-22
County Rawlins State KS
Location McDonald N to R 44 1/2 E 31th

CASING DATA: Conductor PTA Squeeze Misc
Surface Intermediate Production Liner
Size 5 1/2 Type New Weight 15.5# Collar

Casing Depths: Top Ground level Bottom 5229

Drill Pipe: Size Weight Collars
Open Hole: Size T.D. ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. 10238 Lin. ft./Bbl.
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl.
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl.
Perforations: From ft. to ft. Amt.

CEMENT DATA:
Spacer Type: water
Amt. Skys Yield ft^3/sk Density PPG

LEAD: Pump Time hrs. Type Excess
Amt. 200 Skys Yield 1.42 ft^3/sk Density 142 PPG

TAIL: Pump Time hrs. Type Excess
Amt. 200 Skys Yield 1.34 ft^3/sk Density 152 PPG

WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 423
Bulk Equip. 566, 386

Floater Equip: Manufacturer Industrial Rubber
Shoe: Type AFU float shoe Depth
Floater: Type Depth
Centralizers: Quantity 30 Plugs Top Btm.
Stage Collars Industrial Rubber
Special Equip.
Disp. Fluid Type Water Amt. 50 Bbls. Weight PPG
Mud Type mud Weight PPG

COMPANY REPRESENTATIVE

CEMENTER Kelly

Table with columns: TIME (AM/PM), PRESSURES PSI (DRILL PIPE CASING, ANNULUS), FLUID PUMPED DATA (TOTAL FLUID, Pumped Per Time Period, RATE Bbls Min.), REMARKS. Handwritten notes describe the cementing process from 5:00 PM.

T. M. MCCOY & CO., INC.

CONSULTING GEOLOGISTS
P.O. BOX 608 · WILSON, WYOMING 83014 · 307-733-4332

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

Well Name: Michael 3-22
Location: Rawlins County, Kansas
License Number: 15-153-20946
Spud Date: 9/22/2013
Surface Coordinates: 39.94828 N
101.34632 W
Bottom Hole: 39.94828 N
Coordinates: 101.34632 W
Ground Elevation (ft): 3128'
Logged Interval (ft): 3500 To: 5230
Formation: Lansing Kansas City
Type of Drilling Fluid: Water Based Mud
Region: Wildcat
Drilling Completed: 10/3/2013
K.B. Elevation (ft): 3141'
Total Depth (ft): 5230
Printed by WellSight Log Manager from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Berexo LLC
Address: 2020 N. Bramblewood
Wichita, Kansas 67206

GEOLOGIST

Name: Ryan A. White
Company: T. M. McCoy & Co., Inc.
Address: P.O. Box 608
Wilson, WY 83014
307-733-4332

	Chert-light		Halite		Siltstone gray
	Chert-dark		Coal		Siltstone brown
	Dolomite		Bentonite		Siltstone red-brn
	Limestone		Clystn		Sandstone
	Marl		Limy sh blk-brn		Cement
	Marl red-brn		Limy sh gray		Meta
	Anhydrite		Sh blk-brn		

ROCK TYPES

	Sh gray-brown
	Sh green
	Sh gray
	Sh gray-red
	Sh red-brown
	Silty shale red-brn
	Siltstone green

FOSSIL

	Anhy
	Arg
	Calc
	Carb
	Chalcedony
	Chtdk
	Chtit

ACCESSORIES

	Dol		Siltstone gray
	Glau		Ssstrg
	Gyp		Anhystrg
	Minxl		Shstrg gy-grn
	Nodule		Shstrg brn-blk
	Pyr		Chtstrg
	Sandy		Salt strg
	Silt		
	Sil		

STRINGER

	Siltstrg brn
	Siltstrg rd-brn
	Shstrg gy-brn
	Shstrg red-brn
	Shstrg gy red
	Arg
	Bent
	Dol
	Ls

TEXTURE

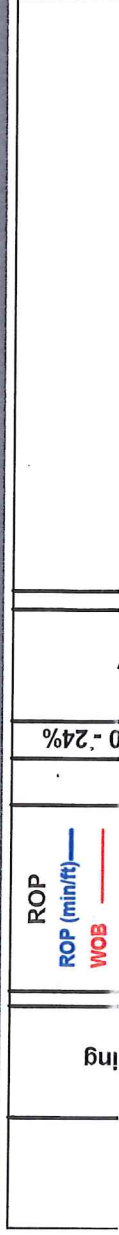
Microxln

POROSITY

	INTERVAL
	Slide
	Rotate

OTHER SYMBOLS

	EVENT		Iso-tube
	Off btm		Csg shoe
	Connection		
	Fm-bit line		
	New symbol		
	Flare		



Fm Tops	Engineering	Depth	Porosity 0 -	Lithology	Geological Descriptions
MD from drillers depths, LOG from electric wireline depths, Subsea calculated from wireline.	Beredco Rig #2				Ryan A. White T. M. McCoy & Co., Inc. Wellsite Geologist Onsite 9/25/2013 Drilling on water based mud. All samples rinsed and sieved in fresh water, color analysis conducted on wet samples.
Bit #2 SMITH Tri-Cone 77/8" Bit used on multiple runs.					SHALE: medium dark gray (N4), platy, soft, smooth, non-calcareous, no fluorescence. 3720' trace SANDSTONE: upper fine grained, with euhedral pyrite. LIMESTONE: very pale orange (10YR 8/2), sub platy cuttings, very effervescent in HCl, very clean, micrite, tight, possible remnant finestral porosity with calcite fill, pale yellow with splotches of yellow mineral fluorescence. 3730' and 3720': traces of CHERT, clear to translucent pale orange, hard. SILSTONE: moderate brown (5YR 3/4), rounded cuttings, very gritty, non-calcareous, grades into very fine grained sandstone, no fluorescence. 3740' loose clusters of euhedral pyrite, trace SANDSTONE: fine grained, glauconitic. SHALE: medium dark gray (N4), soft to moderately soft, sub platy, smooth, non-calcareous, no fluorescence. SHALE: moderate brown (5YR 3/4), locally moderate reddish brown (10R 4/6), sub platy, moderately soft, smooth, non-calcareous, no fluorescence. loose Selenite crystal, 4mm, tabular, scratches easily trace Chert. SHALE: medium gray (N5) to brownish gray (5YR 4/1), platy, smooth, calcareous, trace pale yellow fluorescence. trace Chert LIMESTONE: moderate yellowish brown (10YR 5/4), firm, sub blocky cuttings, various textures, hacky appearance, unidentifiable fossil debris and possible oolites, locally sparry, no visible porosity, argillaceous to very argillaceous, very dull yellow fluorescence. SHALE: medium gray (N5) to brownish gray (5YR 4/1), platy, smooth, calcareous, trace pale yellow fluorescence. SHALE: moderate brown (5YR 3/4), locally moderate reddish brown (10R 4/6), sub platy, moderately soft, smooth, non-calcareous, no fluorescence. LIMESTONE: light brownish gray (5YR 6/1) to white (N9), firm, locally chalky appearance, micrite, tight, locally includes rounded sand grains, fine grained, no argillaceous material, dull yellow fluorescence.
DST# 1 3995-3902 Packer Failure					

appearance, micrite, tight, locally includes rounded sand grains, fine grained, no argillaceous material, dull yellow fluorescence.

LIMESTONE: light brownish gray (5YR 6/1) to white (N9), firm, micrite, local intraclasts, tight, pale yellow fluorescence.

SHALE: moderate brown (5YR 3/4), firm, locally smooth, sandy in 3990 sample, no fluorescence.

SHALE: brownish black (5YR 2/1), firm, smooth, platy, pyrite, no fluorescence.

LIMESTONE: very pale orange (10YR 8/2), firm, sub blocky cuttings, grainstone, fair porosity, rare dark brown oil stain, common light brown oil stain, dull yellow fluorescence.

200 barrels of mud lost to hole after attempting DST #1.

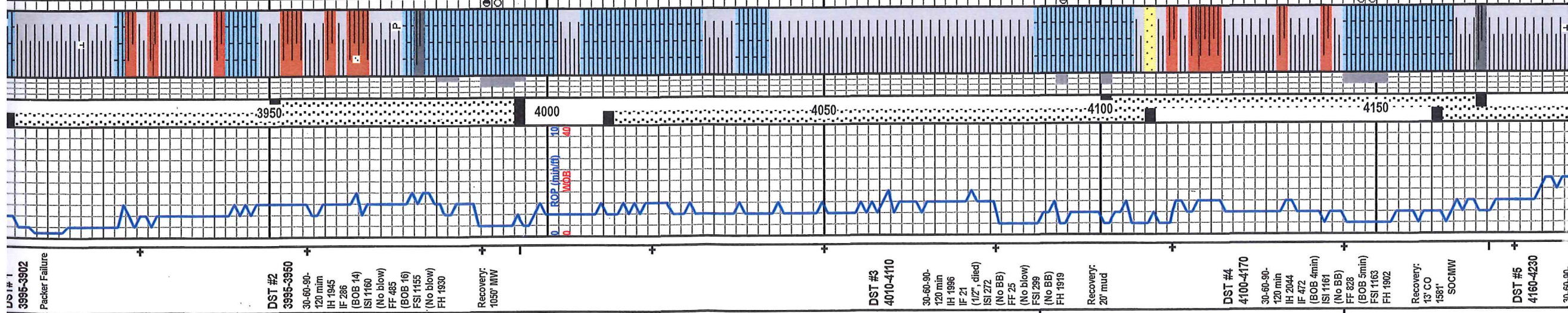
LIMESTONE: light brownish gray (5YR 6/1), very hard, blocky, micrite, tight, dull yellow mineral fluorescence.

SHALE: medium gray (N5) to medium dark gray (N4), firm, play cuttings, slightly calcareous, no fluorescence.

LIMESTONE: very pale orange (10YR 8/2), firm to hard, blocky cuttings, micrite and grainstone textures, rare brown oil staining associated with grainstones, pale yellow to yellow fluorescence.

LIMESTONE: white (N9), hard, common black oil staining, yellow fluorescence.

SHALE: dark gray (N3) to medium gray (N4), moderately firm, smooth, platy cuttings, calcareous.



3980 MD
3990 Log
-849 Sub
Oread Ls

4089 MD
4085 Log
-844 Sub
LKC "A"

4144 MD
4143 Log
-1002 Sub
LKC "B"

SHALE: dark gray (N3) to medium gray (N4), moderately firm, smooth, platy cuttings, calcareous.

LIMESTONE: light brownish gray (5YR 6/1), firm, sub platy cuttings, micrite, generally tight, pale yellow fluorescence.

LIMESTONE: light brownish gray (5YR 6/1), firm, sub blocky, micrite, some chalky zones, rare very light brown oil staining, rare porosity, yellow spotty fluorescence.

SHALE: grayish black (N2), moderately firm, fissile, non-calcareous.

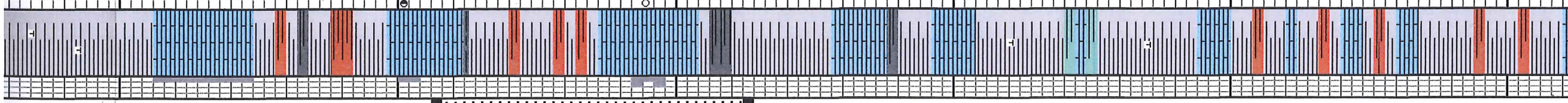
LIMESTONE: white (N9) to light brownish gray (5YR 6/1), sub blocky, micrite, local finestral porosity, trace oil staining, trace porosity.

LIMESTONE: light brownish gray (5YR 6/1), very firm, micrite, possible fossil debris, no porosity, pale yellow fluorescence.

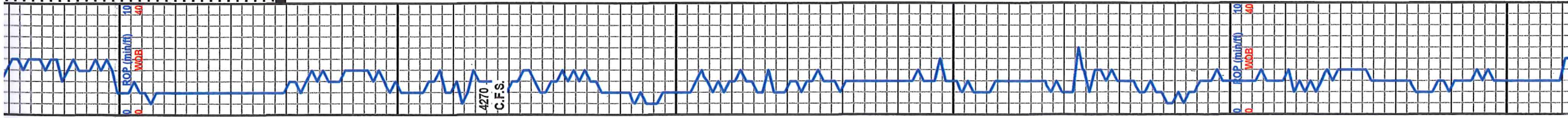
SHALE: medium gray (N5), locally grayish green (5G 5/2), smooth, moderately firm, calcareous.

SHALE: medium gray (N5), moderate red (5R 5/4), firm, platy cuttings, generally smooth, slightly calcareous.

LIMESTONE: light brownish gray (5YR 6/1), firm, sub blocky cuttings, micrite, fossiliferous, grainstone texture notably absent, rare porosity, pale yellow fluorescence.



4200 4250 4300 4350 4400 4450



30-60-90-
120 min
IH 2061
IF 1435
(BOB 1min)
ISI 1885
(No BB)
FF 1493
(No Blow)
FSI 1519
(No BB)
FH 1832

Recovery:
2418'
SOHWCM
558' HWCM

4206 MD
4206 Log
-1066 Sub
LKC "C"

DST #6
4256-4315

30-60-90-
120 min
IH 2126
IF 1115
(8" Blow)
ISI 1229
(No BB)
FF 1322
(No Blow)
FSI 1238
(No BB)
FH 2136

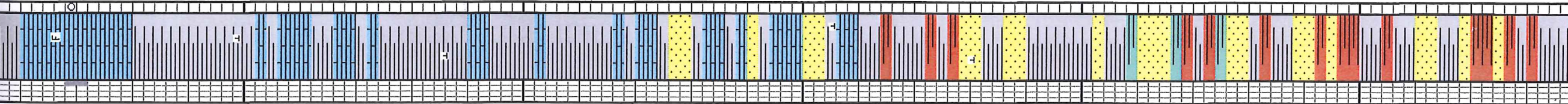
Recovery:
5' CO
63'
SOHWCM
73' SOHWCM
83' WCM

4292 MD
4292 Log
-1151 Sub
LKC "E"

4329 MD
4335 Log
-1194 Sub
LKC "F"

4460 MD

no visible, grainstone texture not clearly apparent, rare porosity, pale yellow fluorescence.



4500

4550

4600

4650

4700

SHALE: medium dark gray (N4) to medium gray (N5), moderately firm, calcareous.

LIMESTONE: yellowish gray (5Y 8/1), firm, platy cuttings, micrite, trace intraclasts, clean, pale yellow fluorescence.

SHALE: medium dark gray (N4) to medium gray (N5), moderately firm, calcareous.

LIMESTONE: light gray (N7), firm, micrite, sub blocky cuttings, pale yellow fluorescence.

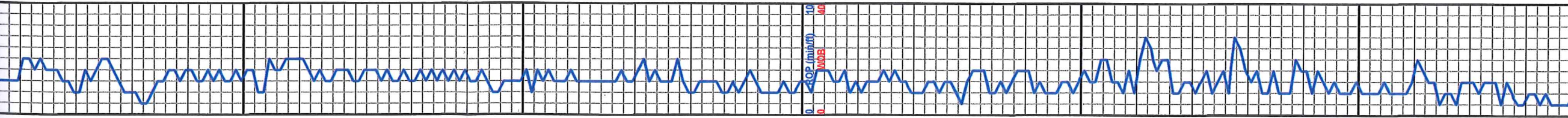
SANDSTONE: pinkish gray (5YR 8/1), very firm, quartzose, trace (<10%) lithic fragments, fine to very fine grained, well sorted, no fluorescence.

SHALE: medium dark gray (N4), moderately firm, calcareous.

SHALE: medium dark gray (N4), moderate brown (5YR 3/4), moderately firm, platy cuttings, ripple marks visible on large cuttings, no fluorescence.

SANDSTONE: white (N9) to clear, very firm, carbonate cemented, well rounded, fine grained, moderately well sorted, quartzose, no visible porosity, no fluorescence.

SANDSTONE: white (N9) to clear, very firm, well rounded, very fine grained, well sorted, quartzose, no visible porosity, no fluorescence.



4460 MD
4480 Log
-1339 Sub
Pawnee
Fm

SHALE: medium dark gray (N4) and moderate brown (5YR 3/4), moderately firm, platy cuttings, no fluorescence.

DOLomite: light gray (N7), firm, sparite, sandy.

SHALE: medium dark gray (N4) and moderate brown (5YR 3/4), moderately firm, platy cuttings, no fluorescence.

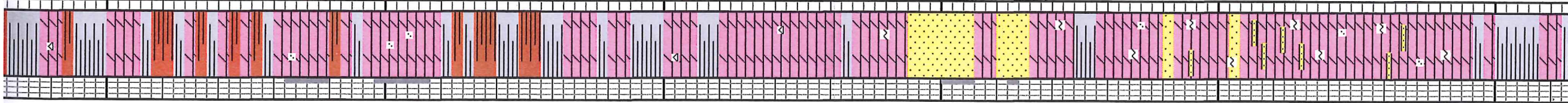
DOLomite: very light gray (N9), sub blocky cuttings, firm, tight, various textures, commonly sparite, locally clast supported intrasparite, tight, pale yellowish green fluorescence.

loose CHERT: semi-translucent, orange, hard.

SANDSTONE: clear, fine grained, well sorted, dolomitic cement, common glauconite, fair porosity.

DOLomite: very light gray (N9), firm, blocky cuttings, sparite, commonly sucrosic, very abundant evenly disseminated glauconite, zones of quartz sand (grades to DOLomitic SANDSTONE), fine grained, locally yellowish green fluorescence.

Decrease in sample quality.



4750

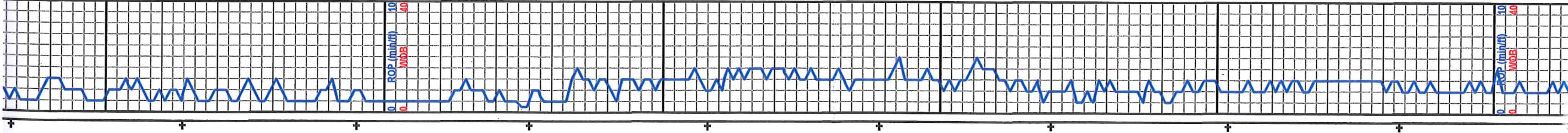
4800

4850

4900

4950

5000



4778 MD
4780 Log
-1639 Sub
Mississippian

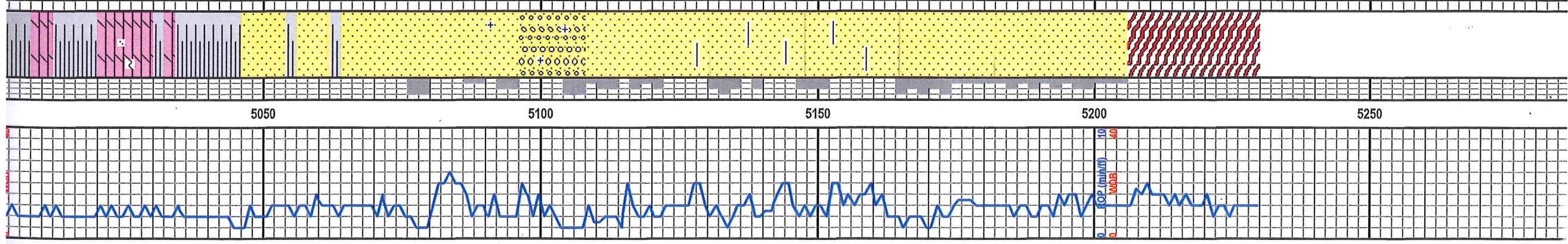
4850 MD
4850 Log
-1709 Sub
Atbuckle

5047 MD
5056 Log
-1915 Sub
Reagan Ss

5207 MD
Base-
ment

5230
Rig TD

Deepened
from 5108' to
5230' on
10/3/2013



SHALE: dark medium gray (N4), firm, platy cuttings, non-calcareous, no fluorescence.

SANDSTONE: clear, rarely pinkish gray (5YR 8/1), commonly occurs as loose grains, fine grained, well rounded, quartzose, likely good porosity, no fluorescence.

CONGLOMERATE: clear to pinkish gray (5YR 8/1), moderately firm clusters and loose grains, medium sand to fragments of large clasts, mostly quartz, some black mica, K-feldspar crystal up 3mm, no fluorescence.

Remark: The following interval was logged by Brian Bynog

SAND: trnsj,fr, f-m gr,rd, w srt, ch, gd por, ns

SAND: trnsj,fr,frm, f gr,rd, w srt, thn Sh ptgs, p-fr por, ns

SANDSTONE: fros, frm, m-crs gr, fr-gd porcin ip, no show

SANDSTONE: fros, frm, m-crs gr, fr-gd porcin ip, no show

METAMORPHIC: Gneiss, Qtz, Mica, tr pink xls(Plag)

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



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<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 22, 2013

Rodney Reynolds
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-153-20946-00-00
Michael 3-22
SW/4 Sec.22-01S-36W
Rawlins 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.

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

Respectfully,
Rodney Reynolds