



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1073656
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: _____

1073656

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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	Hines Unit 18X
Doc ID	1073656

Tops

Name	Top	Datum
Topeka	2736	-813
Plattsmouth	2946	-1023
Heebner	2986	-1063
Toronto	3006	-1083
Lansing	3036	-1113
Kansas City (base)	3294	-1371
Marmaton	3306	-1383
Conglomerate	3340	-1417
Arbuckle	3376	-1455
RTD	3425	
LTD	3424	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Hines Unit 18X
Doc ID	1073656

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	2767 - 2777 Topeka	1000 gallons 28% NEFE	2767 - 2777 Topeka
4	2946 - 2952 Plattsmouth	1000 gallons 28% acid	2946 - 2952 Plattsmouth
4	3065 - 3071 Lansing / KC B	750 gallons 15% NEFE	3065 - 3071 Lansing / KC B
4	3137 -3142 Lansing / KC G	750 gallons 15% NEFE	3137 -3142 Lansing / KC G
4	3225 -3233 Lansing / KC J	1000 gallons 15% NEFE	3225 -3233 Lansing / KC J
4	3379 - 3386 Arbuckle	Natural - no acid	3379 - 3386 Arbuckle

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



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

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 08, 2012

Bruce Meyer
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-167-23740-00-00
Hines Unit 18X
NW/4 Sec.16-11S-15W
Russell 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,
Bruce Meyer

ALLIED CEMENTING CO., LLC. 000184

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

RUSSELL

DATE <u>12-10-11</u>	SEC. <u>16</u>	TWP. <u>11 S</u>	RANGE <u>15 W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30 PM</u>	JOB FINISH <u>2 PM</u>
WELLS UNIT LEASE		WELL # <u>18X</u>		LOCATION <u>FAIR PORT - 1E - 3 1/2 N - .25E</u>		COUNTY <u>RUSSELL</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)				<u>15 N - E. INTO</u>			

CONTRACTOR
TYPE OF JOB Prod. dv
HOLE SIZE 7 7/8 T.D. 3425
CASING SIZE 5 1/2 DEPTH 3427
TUBING SIZE _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL dv DEPTH 1034
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. 84.96 FT = 2.02 bbl
PERFS. _____
DISPLACEMENT 79.54 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Bob Smith
409 HELPER Todd
BULK TRUCK _____
378 DRIVER Cody
BULK TRUCK _____
481 DRIVER Robert

OWNER
CEMENT
AMOUNT ORDERED 200

COMMON	<u>200</u>	@	<u>16.25</u>	<u>3250.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>21.25</u>	<u>85.00</u>
CHLORIDE		@		
ASC		@		
GILSONITE	<u>1100</u>	@	<u>0.89</u>	<u>979.00</u>
SALT	<u>22</u>	@	<u>23.95</u>	<u>526.90</u>
		@		
		@		
		@		
		@		
HANDLING	<u>237</u>	@	<u>2.25</u>	<u>533.25</u>
MILEAGE	<u>237 x 2.5 x .11</u>			<u>651.75</u>
	<u>delay 5925</u>			
TOTAL				<u>6660.90</u>

REMARKS:

delay 5925

SERVICE

DEPTH OF JOB	<u>3427</u>		
PUMP TRUCK CHARGE			<u>2225.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>25</u>	@	<u>7.00</u> <u>175.00</u>
MANIFOLD	<u>1</u>	@	<u>200.00</u> <u>200.00</u>
Ldv mileage	<u>25</u>	@	<u>4.00</u> <u>100.00</u>
		@	
TOTAL			
			<u>2400.00</u>
			<u>2700.00</u>

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

PLUG & FLOAT EQUIPMENT

dv-TOOL	<u>1</u>	@	<u>3721.00</u>	<u>2832.00</u>
TURBO CENTRALIZER	<u>14</u>	@	<u>52.00</u>	<u>728.00</u>
AFU FLAPPER SHOE	<u>1</u>	@	<u>349.00</u>	<u>232.00</u>
BASKET	<u>3</u>	@	<u>178.00</u>	<u>534.00</u>
STOP COLLAR	<u>1</u>	@	<u>42.00</u>	<u>42.00</u>
TOTAL				<u>4368.00</u>

To Allied Cementing Co., 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.

SALES TAX (If Any) _____
TOTAL CHARGES 13428.90
DISCOUNT 24% IF PAID IN 30 DAYS

PRINTED NAME _____
SIGNATURE Robert Smith

ALLIED CEMENTING CO., LLC

Federal Tax I.D.# 20-5975804

DEC 13 2011 035185

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
RUSSELL

DATE <u>12-10-11</u>	SEC. <u>16</u>	TWP. <u>11 S</u>	RANGE <u>15 W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30</u>	JOB FINISH <u>4 PM</u>
LEASE <u>HINES UNIT</u>		WELL # <u>18X</u>		LOCATION <u>VEC. FAIRPORT KS</u>		COUNTY <u>RUSSELL</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR BEREXCO

TYPE OF JOB 5 1/2 dv Prod.

HOLE SIZE 7 7/8 T.D. 3423

CASING SIZE 5 1/2 DEPTH 3427

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL 1034 DV DEPTH 1034

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 24.6

OWNER

CEMENT

AMOUNT ORDERED 370 60/40

COMMON	<u>370</u>	@	<u>14.50</u>	<u>5365.00</u>
POZMIX		@		
GEL	<u>12</u>	@	<u>21.25</u>	<u>255.00</u>
CHLORIDE		@		
ASC		@		
<u>FLG-SPAL</u>	<u>88</u>	@	<u>2.70</u>	<u>237.60</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>386</u>	@	<u>2.25</u>	<u>868.50</u>
MILEAGE <u>25X386X.11</u>				<u>1066.50</u>
TOTAL				<u>7550.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bob Smith

409 HELPER Todd

BULK TRUCK

378 DRIVER Coody

BULK TRUCK

481 DRIVER Robert

REMARKS:

CEMENT CIRCULATED TO SURFACE

dv closed 2400 PST

SERVICE

DEPTH OF JOB 1034

PUMP TRUCK CHARGE 1925.00

EXTRA FOOTAGE @

MILEAGE 25 @ 7.00 175.00

MANIFOLD 1 @ 200.00 200.00

Ldv mileage 25 @ 4.00 100.00

@

TOTAL 2400.00

CHARGE TO: BEREXCO

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

@ _____

TOTAL /

To Allied Cementing Co., 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]

SALES TAX (If Any) _____

TOTAL CHARGES 9950.00

DISCOUNT _____ IF PAID IN 30 DAYS

**BEREXCO, LLC.
HINES UNIT 18X
SENWNW SECTION 16 11N-15W
RUSSELL COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: HINES UNIT 18X

LOCATION: SENWNW SECTION 16 11S-15W

COUNTY: RUSSELL

STATE: KANSAS

SPUD DATE: 12-2-2011 COMPLETION DATE: 12-10-2011

ELEVATIONS: GL: 2978' KB: 2989'

CONTRACTOR: BEREDCO RIG 10

LOGS: LOG TECH TYPES: RAG, MICROLOG & SONIC

WELLSITE ENGINEER: NONE

MUD COMPANY: ANDY'S MUD

MUD TYPE & ENGINEER: FRESH CHEMICAL

GEOLOGIST: WILLIAM B.BYNOG

HOLE SIZE: 7 7/8

MUD LOGGING BY: NONE

DRILL STEM TEST COMPANY: TRILOBITE TESTING

DRILL STEM TEST: NONE

WELL STATUS: SET PRODUCTION CASING

DISCUSSION

Hines Unit 18x was drilled a total depth of 3425 testing the Lansing Kansas City, Conglomerate and Arbuckle formations in Russell County, Kansas. Our major objectives were the Lansing Kansas City A through F zones, Conglomerate and Arbuckle formations. This was a continuation of infield drilling in the old Fairport field. There were no drill stem tests planned for this well, only sample evaluation.

Structurally, Hines Unit 18X came in 15 feet high to Lebow Unit # 9X on the Lansing log top.

As a result of running high the 35 foot Topeka, lower Topeka, Plattsmouth, most of the zones in the Lansing Kansas City and Arbuckle had very good sample shows.

Logs recorded fair to good porosity development with high resistivity in the zones of interest. A decision was made to set production pipe based on their structural relationship and all the porosity development with quality sample shows.

HINES UNIT 18X SAMPLE DESCRIPTIONS
BEREDCO DRILLING RIG 10 DRILLING 7 7/8 HOLE

HINES UNIT 18X SAMPLE DESCRIPTIONS

SAMPLES LAGGED BY GEOLOGIST ON LOCATION

2050-2090 LIMESTONE white, firm, chalky, poor porosity, no shows with thin bedded
SHALE red, very soft, very argillaceous

2090-2170 LIMESTONE white, pale gray, firm, fossils, slightly chalky, poor porosity, no
shows with thin SHALE as above

2170-80 SHALE as above

2180-2250 LIMESTONE buff, firm, slightly fossils, poor porosity, no shows

2250-70 SHALE red, very soft, very argillaceous

2270-90 LIMESTONE buff, slightly hard, very oolitic, fair oocastic porosity, no shows

2290-2385 SHALE gray, firm, silty with thin LIMESTONE buff, hard, dense, no shows

2385-2400 LIMESTONE buff, hard, blocky, dense, no shows

2400-2520 SHALE gray, green, firm, waxy, argillaceous, some silty

2520-35 LIMESTONE buff, hard, blocky, smooth texture, poor porosity, no shows

2535-2575 SHALE gray, firm, waxy, argillaceous, abundant pyrite

2575-90 LIMESTONE buff, tan, hard, blocky, dense, no shows

HINES UNIT 18X SAMPLE DESCRIPTIONS

2590-2605 SHALE as above

2605-55 LIMESTONE buff,firm,fossils,slightly chalky,poor porosity,no shows with thin bedded SHALE as above

2655-70 LIMESTONE buff,firm,very fossils,slightly chalky,fair porosity,no shows

2670-2732 SHALE as above

2710-34 LIMESTONE buff,firm,blocky, smooth texture,dense,no shows with thin SHALE as above

as above

TOPEKA

2734-55 LIMESTONE buff,hard,blocky,dense,poor porosity,no shows

2755-65 SHALE as above

35'TOPEKA

2765-68 LIMESTONE buff,hard,blocky, dense,poor porosity,no shows

2768-85 LIMESTONE buff.firm,micro crystalline,poor to fair intxln porosity,even brown live stain,very good cut,and odor,good showfree oil

2785-95 SHALE as above

2795-2840 LIMESTONE buff,hard,slightly chalky,poor porosity,no shows

2840-58 LIMESTONE white,firm,microcrystalline, poor intxln porosity,spotty to even live brown stain,good cut and odor,fair show free oil

HINES UNIT 18X SAMPLE DESCRIPTIONS

2858-64 SHALE black,green,firm,fi ssile, carbonaceous

2864-70 LIMESTONE buff,hard,very fnly,poor microcrystalline porosity,spotty to even brown live brown stain,good cut

2870-82 LIMESTONE as above firm,poor to fair microcrystalline porosity,spotty to even live brown stain,good cut and odor,fair show free oil

2870-90LIMESTONE buff,firm,fossils, chalky,poor visible porosity,no shows

2890-95 LIMESTONE buff,firm,fossils, chlky,poor porosity,trace brown live stain,good cut and odor

2895-2900 SHALE gray,green,firm,fi ssile

2900-42 LIMESTONE buff,hard,blocky,slightly fossils,dense,poor porosity,no shows with very thin SHALE as above

2942-50 SHALE as above

PLATTSMOUTH

2950-76 LIMESTONE white,firm,very fossils, slightly chalky,fair intxln and vuggy porosity,spotty to even live brown stain,good cut and odor,poor show free oil

2976-86 LIMESTONE buff,pale gray,hard, dense,blocky,poor porosity,no shows

HEEBNER

2986-90 SHALE black,firm,fi ssile,carbonaceous

2990-3000 LIMESTONE buff,very hard,dense,no shows

3000-10 SHALE gray,green,black,firm,fi ssile,slightly carbonaceous

TORONTO

HINES UNIT 18X SAMPLE DESCRIPTIONS

30010-20 LIMESTONE buff,hard,micro crystalline,poor crystalline and pinpoint vuggy porosity, spotty live brown stain,good cut

3020-40 SHALE red,gray,soft,argillaceous

LANSING A

3040- 50 LIMESTONE buff,hard,dense,some scattered poor vuggy porosity,spotty live brown stain,good cut,trace free oil

3050-64 SHALE red,green,gray,firm, argillaceous,fissile

B ZONE

3064-70 LIMESTONE buff,hard,dense, some scattered poor vuggy porosity, spotty live brown stain,good cut

C ZONE

3070-3100 LIMESTONE white,buff,very hard,blocky, dense,some scattered poor vuggy porosity,spotty live brown stain,fair cut

3100-10 SHALE red,green,gray,firm, fissile

E ZONE

3110-24 LIMESTONE buff,firm,fossils, oolitic,poor to fair intg and vuggy porosity,spotty to even live brown stain, very good cut and odor,trace free oil

3124-28 SHALE as above

F ZONE

3128-36 LIMESTONE white,hard,dense,trace poor pinpoint vuggy porosity,very spotty brown stain,fair cut with stringers SHALE as above

G ZONE

3136-42 LIMESTONE white,firm,very oolitic, good moldic porosity,spotty to even live brown stain,good cut and odor

HINES UNIT 18X SAMPLE DESCRIPTIONS

3142-70 LIMESTONE white, buff, very hard, dense, some scattered poor moldic porosity, very spotty faint brown stain, fair cut

3170-80 SHALE as above

H ZONE

3180-3202 LIMESTONE white, buff, very hard, dense, slightly chalky with thin SHALE as above

I ZONE

3202- 10 LIMESTONE as above some scattered fossils, oolitic, poor to fair porosity, spotty brown live stain, fair cut

3210-20 SHALE black, gray, green, firm, fissile

J ZONE

3220-26 LIMESTONE buff, very hard, dense, no shows

3226-32 LIMESTONE buff, firm, micro crystalline, fair to good inxln and vuggy porosity, even brown stain, good cut, no free oil

3232-40 LIMESTONE as above buff, very hard, dense, no shows

3240-55 SHALE gray, black, green, carbonaceous

K ZONE

3255- 70 LIMESTONE white, hard, blocky, dense, some scattered poor moldic porosity, very spotty brown stain, fair cut

3270-84 SHALE as above

3284-94 LIMESTONE white, buff, slightly hard, slightly chalky, poor porosity, no shows

BKS

HINES UNIT 18X SAMPLE DESCRIPTIONS

3294-3306 SHALE gray,green,soft,argillaceous

MARMATON

3306-16 LIMESTONE white,buff,very hard,dense,no shows

3316-30 SHALE as above

3330-44 LIMESTONE as above,dense,sandy in part,no shows, abundant Chert
tan,orange,no shows

CONGLOMERATE

3344-72 SHALE as above some sandy, Chert as above ,no shows

ARBUCKLE

3372-80 DOLOMITE tan,firm,micro sucrosic,fair to good intxln porosity,even brown
live stain,very good cut and odor

3380-86 DOLOMITE buff,very hard,dense, trace poor pinpoint vuggy porosity,very
spotty stain,good cut

3386-3406 DOLOMITE buff,firm,sucrosic texture,fair to good intxln and vuggy
porosity, spotty to even live brown stain,very good cut and odor,good show free oil

3406-12 DOLOMITE as above,buff,very hard, dense,no shows

3412-25 DOLOMITE as above fair to good porosity,spotty stain,fair cut

RTD 3425'

LTD 3424'

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: HINES UNIT 18X
 Location: SENWNW 16-11S-15W RUSSELL COUNTY, KANSAS
 Licence Number: 15-167-23740
 Spud Date: 12-2-2011
 Surface Coordinates: 990' FNL & 990' FWL
 Region: MIDCONTINENT
 Drilling Completed: 12-9-2011

Bottom Hole Coordinates:
 Ground Elevation (ft): 1912
 Logged Interval (ft): 2500 To: 3425
 Formation: LKC, ARBUCKLE
 Type of Drilling Fluid: FRESH
 K.B. Elevation (ft): 1923
 Total Depth (ft): 3425

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

OPERATOR

Company: BEREXCO, LLC
 Address: 2020 N. BRAMBLEWOOD
 WICHITA, KANSAS 67206

GEOLOGIST

Name: WILLIAM B. BYNOG
 Company:
 Address: P.O. BOX 687
 PINECLIFFE, CO. 80471
 303-642-3681 OFFICE 303-250-0727 CELL

Cores


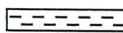


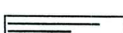
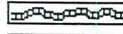




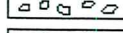
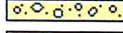

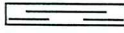
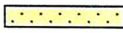
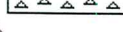


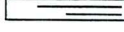

DSTs

NONE


































Comments

SET PRODUCTION PIPE

ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

ACCESSORIES

MINERAL	 Gyp	FOSSIL	 Ostra	 Sltstrg
 Anhy	 Hvymin	 Algae	 Pelec	 Ssstrg
 Arggrn	 Kaol	 Amph	 Pellet	TEXTURE
 Arg	 Marl	 Belm	 Pisolite	 Boundst
 Bent	 Minxl	 Bioclst	 Plant	 Chalky
 Bit	 Nodule	 Brach	 Strom	 Cryxln
 Brecfrag	 Phos	 Bryozoa	STRINGER	 Earthy
 Calc	 Pyr	 Cephal	 Anhy	 Finexln
 Carb	 Salt	 Coral	 Arg	 Grainst
 Chtdk	 Sandy	 Crin	 Bent	 Lithogr
 Chtit	 Silt	 Echin	 Coal	 Microxln
 Dol	 Sil	 Fish	 Dol	 Mudst
 Feldspar	 Sulphur	 Foram	 Gyp	 Packst
 Ferrpel	 Tuff	 Fossil	 Ls	 Wackest
Ferr		Gastro		

Ferr
Glau

Gastro
Oolite

Ls
Mrst

Wackest

OTHER SYMBOLS

POROSITY
 E Earthy
 B Fenest
 F Fracture
 X Inter
 Δ Moldic
 O Organic
 P Pinpoint

V Vuggy
SORTING
 N Well
 M Moderate
 P Poor

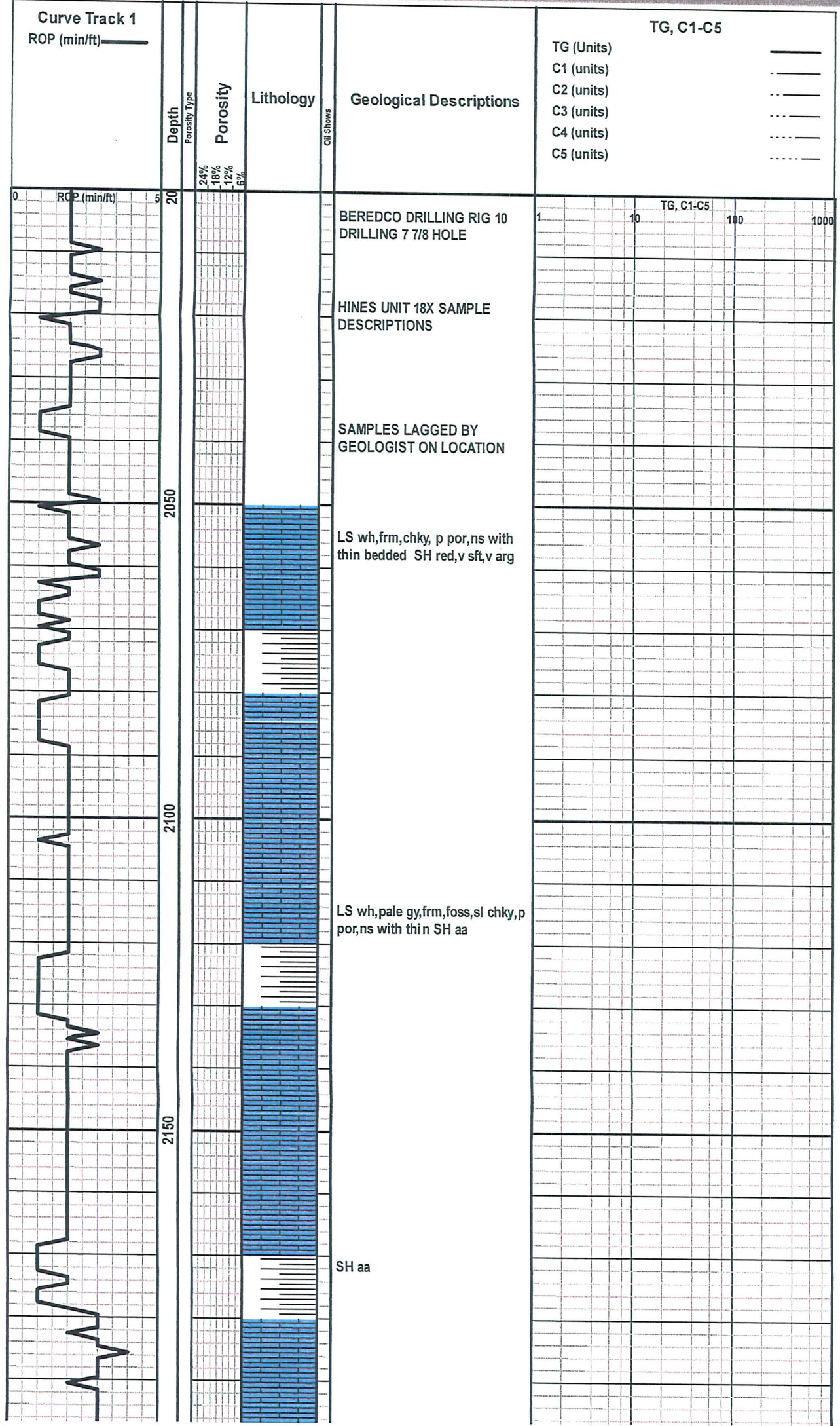
ROUNDING
 R Rounded
 P Subrnd
 a Subang
 A Angular

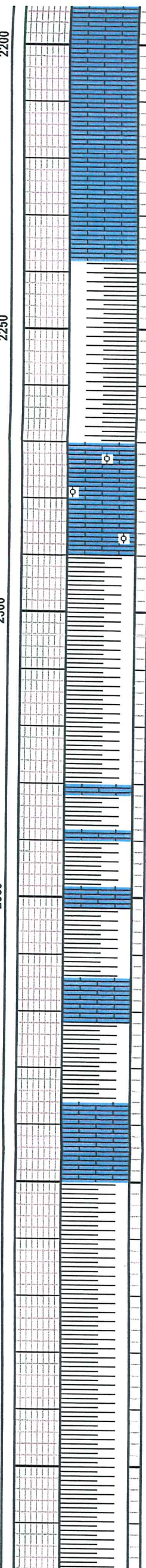
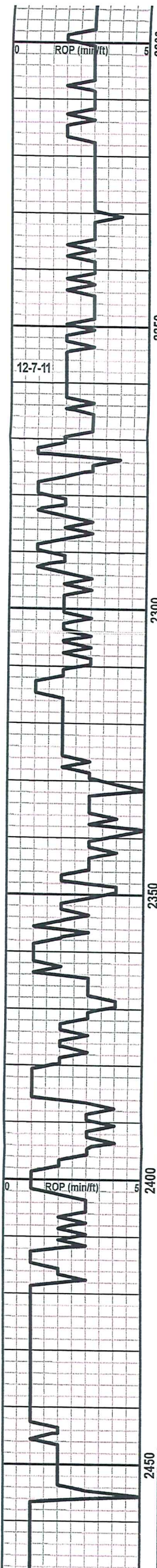
Spotted
 Ques
 Dead

EVENT
 Rft
 Sidewall

OIL SHOW
 Even

INTERVAL
 Dst
 Dst





LS buff, frm, sl foss, p por, ns

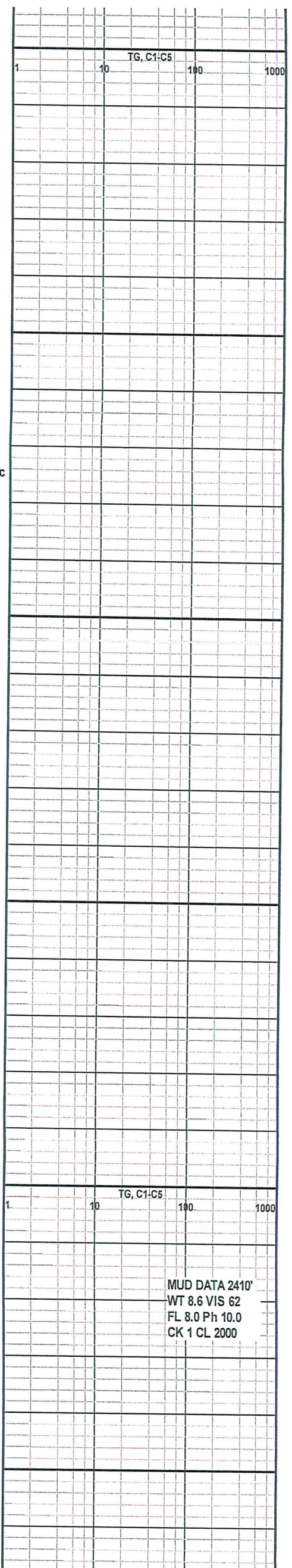
SH red, v sft, v arg

LS buff, sl hd, v oolitic, fr oocastic por, ns

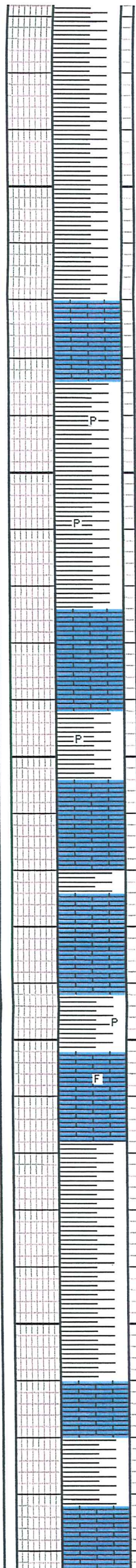
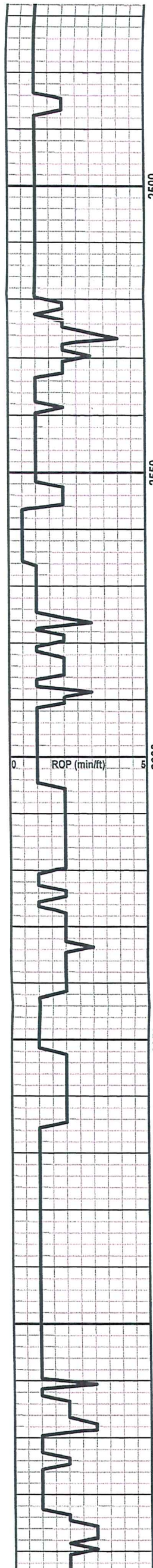
SH gy, frm, sity with thin LS buff, hd, dns, ns

LS buff, hd, blk, dns, ns

SH gy, gn, frm, wxy, arg, some sity



MUD DATA 2410'
 WT 8.6 VIS 62
 FL 8.0 Ph 10.0
 CK 1 CL 2000



LS buff,hd,blky, smooth tex,p por,ns

SH gy,frm,wxy,arg,abnt pyr

LS buff,tan,hd,blky, dns,ns

SH aa

LS buff,frm,foss,sl chky,p por,ns with thin bedded SH aa

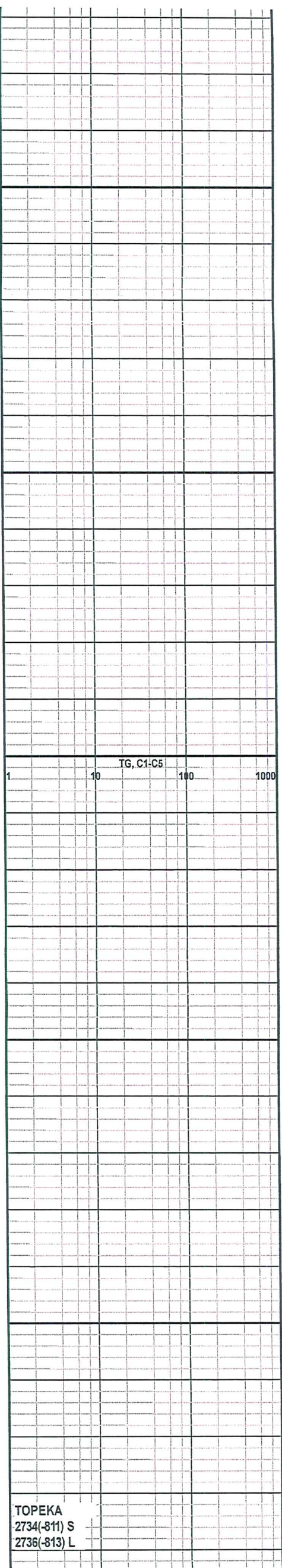
LS buff,frm,v foss,sl chky,fr por,ns

SH aa

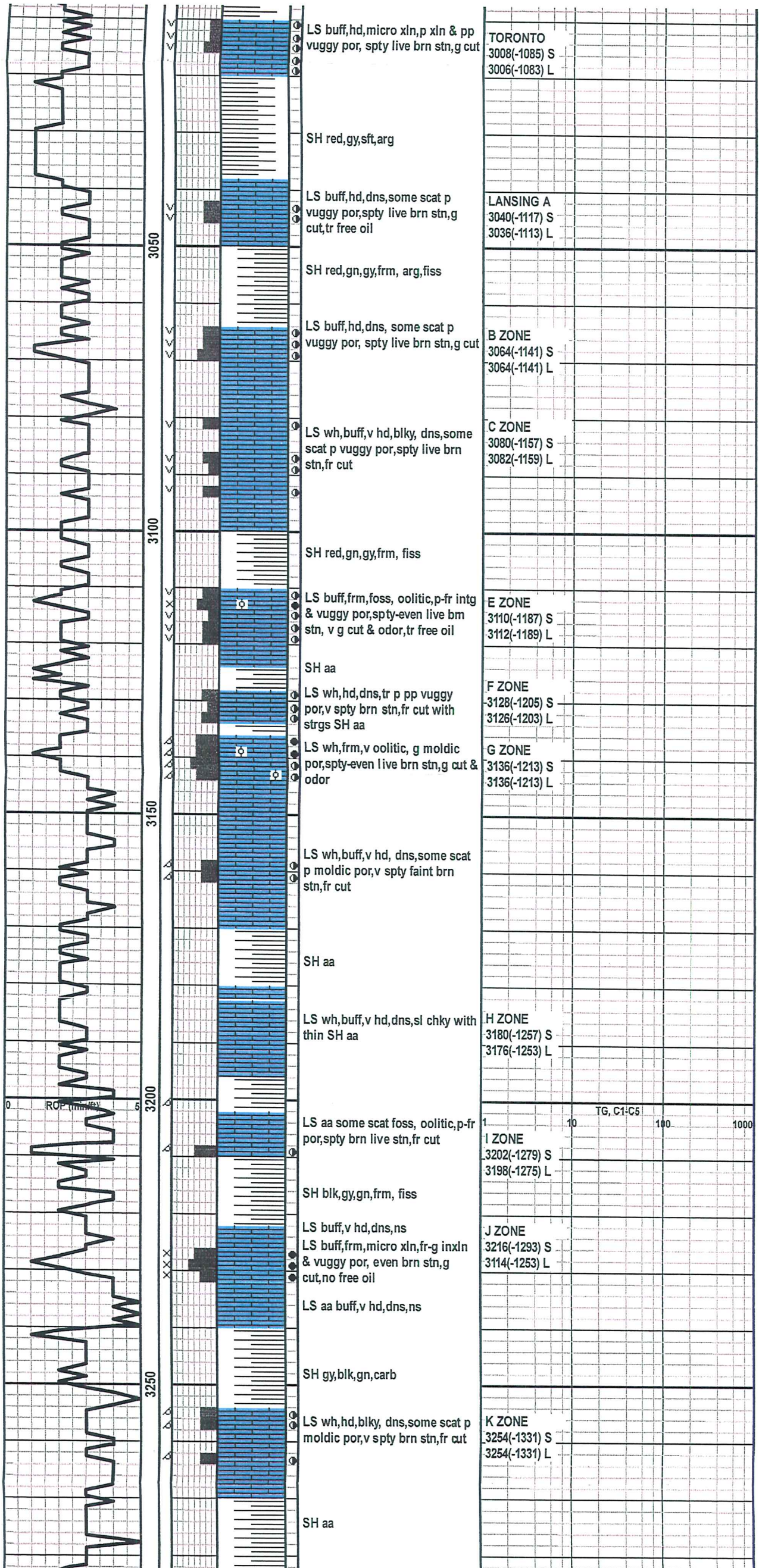
LS buff,frm,blky, smooth tex,dns,ns with thin SH aa

aa

LS buff,hd,blky,dns,p por,ns



TOPEKA
2734(-811) S
2736(-813) L



LS buff,hd,micro xln,p xln & pp vuggy por, spty live brn stn,g cut

SH red,gy,sft,arg

LS buff,hd,dns,some scat p vuggy por,spty live brn stn,g cut,tr free oil

SH red,gn,gy,frm, arg,fiss

LS buff,hd,dns, some scat p vuggy por, spty live brn stn,g cut

LS wh,buff,v hd,blky, dns,some scat p vuggy por,spty live brn stn,fr cut

SH red,gn,gy,frm, fiss

LS buff,frm,foss, oolitic,p-fr intg & vuggy por,spty-even live brn stn, v g cut & odor,tr free oil

SH aa

LS wh,hd,dns,tr p pp vuggy por,v spty brn stn,fr cut with strgs SH aa

LS wh,frm,v oolitic, g moldic por,spty-even live brn stn,g cut & odor

LS wh,buff,v hd, dns,some scat p moldic por,v spty faint brn stn,fr cut

SH aa

LS wh,buff,v hd,dns,sl chky with thin SH aa

LS aa some scat foss, oolitic,p-fr por,spty brn live stn,fr cut

SH blk,gy,gn,frm, fiss

LS buff,v hd,dns,ns
LS buff,frm,micro xln,fr-g inxln & vuggy por, even brn stn,g cut,no free oil

LS aa buff,v hd,dns,ns

SH gy,blk,gn,carb

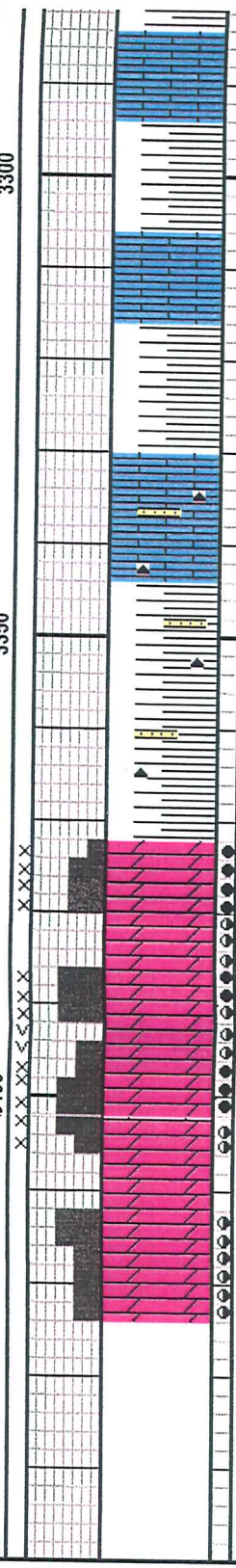
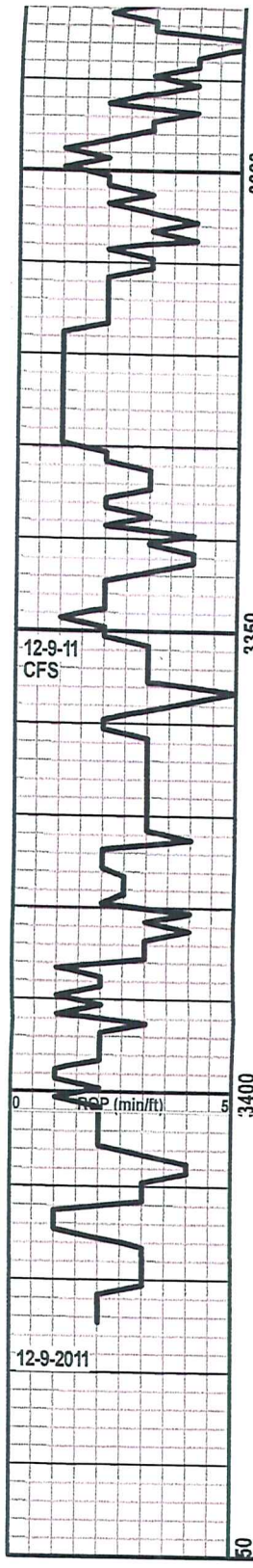
LS wh,hd,blky, dns,some scat p moldic por,v spty brn stn,fr cut

SH aa

TORONTO				
3008(-1085) S				
3006(-1083) L				
LANSING A				
3040(-1117) S				
3036(-1113) L				
B ZONE				
3064(-1141) S				
3064(-1141) L				
C ZONE				
3080(-1157) S				
3082(-1159) L				
E ZONE				
3110(-1187) S				
3112(-1189) L				
F ZONE				
3128(-1205) S				
3126(-1203) L				
G ZONE				
3136(-1213) S				
3136(-1213) L				
H ZONE				
3180(-1257) S				
3176(-1253) L				
I ZONE				
3202(-1279) S				
3198(-1275) L				
J ZONE				
3216(-1293) S				
3114(-1253) L				
K ZONE				
3254(-1331) S				
3254(-1331) L				

TG, C1-C5

1 10 100 1000



LS wh, buff, sl hd, sl chky, p por, ns

SH gy, gn, sft, arg

LS wh, buff, v hd, dns, ns

SH aa

LS aa, dns, sdy ip, ns, abnt Cht tan, orng, ns

SH aa some sdy, Cht aa, ns

DOL tan, frm, micro suc, fr-g intxn por, even brn live stn, v g cut & odor

DOL buff, v hd, dns, tr p pp vuggy por, v spty stn, g cut

DOL buff, frm, suc tex, fr-g intxn & vuggy por, spty-even live brn stn, v g cut & odor, g show free oil

DOL aa, buff, v hd, dns, ns

DOL aa fr-g por, spty stn, fr cut

RTD 3425'
LTD 3424'

BKC 3294(-1371) S 3294(-1371) L			
MARM 3306(-1383) S 3306(-1383) L			
CONG. 3344(-1421) S 3340(-1417) L			
ARBUCKLE 3372(-1549) S 3376(-1455) L			
MUD DATA 3395' WT 9.7 VIS 48 FL 8.8 Ph 9.5 CK 1 CL 3000			
	TG, C1-C5		
1	10	100	1000