



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1071738
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: _____

1071738

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	--	---

Date of First, Resumed Production, SWD or ENHR. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Lacey 1-21
Doc ID	1071738

All Electric Logs Run

Array Compensated True Resistivity Log
Microlog
Dual Spaced Neutron Spectral Density Log
Borehole Compensated Sonic Array Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Lacey 1-21
Doc ID	1071738

Tops

Name	Top	Datum
Heebner (Base)	3975	-1041
Toronto	3986	-1052
Lansing	4019	-1085
Marmaton	4584	-1650
Cherokee	4719	-1785
Morrow	5000	-2066
Chester	5054	-2120
St. Louis	5130	-2196
RTD	5396	

ALLIED CEMENTING CO., LLC. 037890

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

DATE <u>11-6-2011</u>	SEC. <u>21</u>	TWP. <u>26s</u>	RANGE <u>33w</u>	CALLED OUT <u>1:30pm</u>	ON LOCATION <u>4:30pm</u>	JOB START <u>12:15am</u>	JOB FINISH <u>1:15am</u>
LEASE <u>Locey</u>	WELL # <u>1-21</u>	LOCATION <u>Highway 83 & Finney Co. Line</u>			COUNTY <u>Finney</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			<u>3n, 3w, 1/2s, white</u>				

Medicine Loase Kc
11-7 11-7

CONTRACTOR Boreaco #2
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 17.55'
CASING SIZE 8 5/8 DEPTH 17.55'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 42'
CEMENT LEFT IN CSG. 42'
PERFS.
DISPLACEMENT 111 bbis of fresh water

OWNER Boreaco
CEMENT
AMOUNT ORDERED 6005x 60! 40! 8 5/8! 60,
3 3/4 cc + 1/4 # Ploseq, 1505x Class A
3 3/4 cc + 2 3/4 60,

COMMON	<u>150</u> SACKS	@ <u>16.25</u>	<u>2437.50</u>
POZMIX		@	
GEL	<u>3</u> SACKS	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>25</u> SACKS	@ <u>58.20</u>	<u>1455.00</u>
ASC		@	
floseal	<u>150</u> pounds	@ <u>2.70</u>	<u>405.00</u>
ALW	<u>600</u> SACKS	@ <u>14.50</u>	<u>8700.-</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>825</u> SACKS	@ <u>2.25</u>	<u>1856.25</u>
MILEAGE	<u>825</u> x <u>.11</u> x <u>50</u>		<u>4537.50</u>
TOTAL			<u>\$19455.00</u>

EQUIPMENT
PUMP TRUCK CEMENTER Derin F
360-265 HELPER Jason T.
BULK TRUCK
363-290 DRIVER Adam m.
BULK TRUCK
381-250 DRIVER Matt T.

REMARKS:

Pipe on bottom & break circulation
pump 3bbis fresh water choca, mix 6005x
of lead cement, mix 1505x of 4.7
Cement, shut down, Release plug, Start
displacement, slow rate to 3bbm & 100
100 bbis, bump plug 92/111 bbis, 700-100PS,
Most did hold, cement did circulate

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

SERVICE

DEPTH OF JOB	<u>17.55'</u>		
PUMP TRUCK CHARGE			<u>1925.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>50</u>	@ <u>7.00</u>	<u>350-</u>
MANIFOLD <u>Headrents,</u>		@	<u>n/c</u>
<u>light vehicle</u>	<u>50</u>	@ <u>4.00</u>	<u>n/c</u>
		@	
TOTAL			<u>\$2875.00</u>

PLUG & FLOAT EQUIPMENT

8 5/8

1-Rubber plug	@ <u>84.00</u>	<u>84.00</u>
1-Guide Shoe	@ <u>254.00</u>	<u>254.00</u>
1-APV Insert	@ <u>156.00</u>	<u>156.00</u>
1-Basket	@ <u>243.00</u>	<u>243-</u>
4-Center Sizers	@ <u>50</u>	<u>200-</u>
TOTAL		<u>937</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 \$22,167-
DISCOUNT 2410 IF PAID IN 30 DAYS
Net \$17,226.92

PRINTED NAME x Scott Batman
SIGNATURE x. [Signature]

Thank you!!!

ALLIED CEMENTING CO., LLC. 036509

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Liberal KS.

DATE <u>11-22-11</u>	SEC. <u>21</u>	TWP. <u>76S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30 AM</u>	JOB FINISH <u>9:30 AM</u>
LEASE <u>agency</u>		WELL# <u>1-23</u>		LOCATION <u>Vec Garden City KS.</u>		COUNTY <u>Finnery</u>	STATE <u>KS.</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Beredco
 TYPE OF JOB 2 Stage
 HOLE SIZE 7 7/8 T.D. 5390
 CASING SIZE 5 1/2 DEPTH 5390 19
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL DV Tbol DEPTH 3204
 PRES. MAX 7000 MINIMUM 1000
 MEAS. LINE SHOE JOINT 44-05
 CEMENT LEFT IN CSG. 1.05 BBL
 PERFS.
 DISPLACEMENT 177 24 BBL

OWNER
 CEMENT
 AMOUNT ORDERED 150 SK 60/40 8%
gel 1/4 # Floseal
225 SK ASC 2% gel 10% S-1 + 5 #6
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE 4 @ 21.25 85.00
 ASC 225 @ 19.00 4275.00
 @
Floseal 37.5 @ 2.70 101.25
light weight 150 @ 14.50 2175.00
oilconite 1125 @ .89 1001.25
 @
 @
 @
 @
 HANDLING 399.5 @ 2.25 898.88
 MILEAGE 2197.25
 TOTAL 10733.63

EQUIPMENT

PUMP TRUCK CEMENTER Kenney
 # 470-484 HELPER Jose
 BULK TRUCK
 # 380-510 DRIVER Lenny
 BULK TRUCK
 # DRIVER Bob Smith

REMARKS:

First Stage.
THANK YOU!!!

SERVICE

DEPTH OF JOB
 PUMP TRUCK CHARGE 2697.00
 EXTRA FOOTAGE @
 MILEAGE 50 @ 7.00 350.00
 MANIFOLD @
 @
 @

CHARGE TO: Beredco
 STREET
 CITY STATE ZIP

TOTAL 3047.00

PLUG & FLOAT EQUIPMENT

DV Tool 1 @ 2832.00 2832.00
 AFU Float Shoe 1 @ 232.00 232.00
 Centralizers 15 @ 37.00 555.00
 Buckets 3 @ 178.00 534.00
 @

TOTAL 4153.00

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 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 \$ 17933.63
 DISCOUNT \$ 13629.56 IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE Ray M. King

ALLIED CEMENTING CO., LLC. 036510

Federal Tax ID.# 20-5975804

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

SERVICE POINT:
Liberal KS

DATE <u>11-27-11</u>	SEC. <u>21</u>	TWP. <u>76S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00pm</u>	JOB FINISH <u>3:00pm</u>
LEASE <u>Lacon</u>		WELL# <u>i-2i</u>	LOCATION <u>Vec Garden City KS</u>		COUNTY <u>Finner</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Berexco

TYPE OF JOB 2 Stage

HOLE SIZE 7 7/8 T.D. 5390

CASING SIZE 5 1/2 DEPTH 5390.19

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH _____

TOOL Dr Tool DEPTH 3204

PRES. MAX 2050 MINIMUM _____

MEAS. LINE _____ SHOE JOINT 44 05

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 716.25 BBL H₂O

OWNER _____

CEMENT

AMOUNT ORDERED 380 SK 60/40/87

Gel 1/4 # Flocak

50 SK ASC

COMMON _____	@ _____	_____
POZMIX _____	@ _____	_____
GEL _____	@ _____	_____
CHLORIDE _____	@ _____	_____
ASC <u>50</u>	@ <u>19.00</u>	<u>950.00</u>
<u>Light Weight 380</u>	@ <u>14.50</u>	<u>5510.00</u>
<u>Flocak 95</u>	@ <u>2.70</u>	<u>256.50</u>
<u>Gilsonite 250</u>	@ <u>8.9</u>	<u>222.50</u>
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>443</u>	@ <u>2.25</u>	<u>996.75</u>
MILEAGE _____	_____	<u>2436.50</u>
		TOTAL <u>10372.25</u>

PUMP TRUCK CEMENTER Kenny

470-484 HELPER Jose

BULK TRUCK

373 DRIVER Lenny

BULK TRUCK

386-310 DRIVER Bob Smith

REMARKS:

2nd Stage

THANK YOU!!!

CHARGE TO: Berexco

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____	<u>N/A</u>	_____
PUMP TRUCK CHARGE _____	_____	_____
EXTRA FOOTAGE _____	@ _____	_____
MILEAGE _____	@ _____	_____
MANIFOLD _____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
		TOTAL <u>0</u>

PLUG & FLOAT EQUIPMENT

_____	<u>N/A</u>	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
		TOTAL <u>0</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 \$ 10372.25

DISCOUNT \$ 7882.91 IF PAID IN 30 DAYS

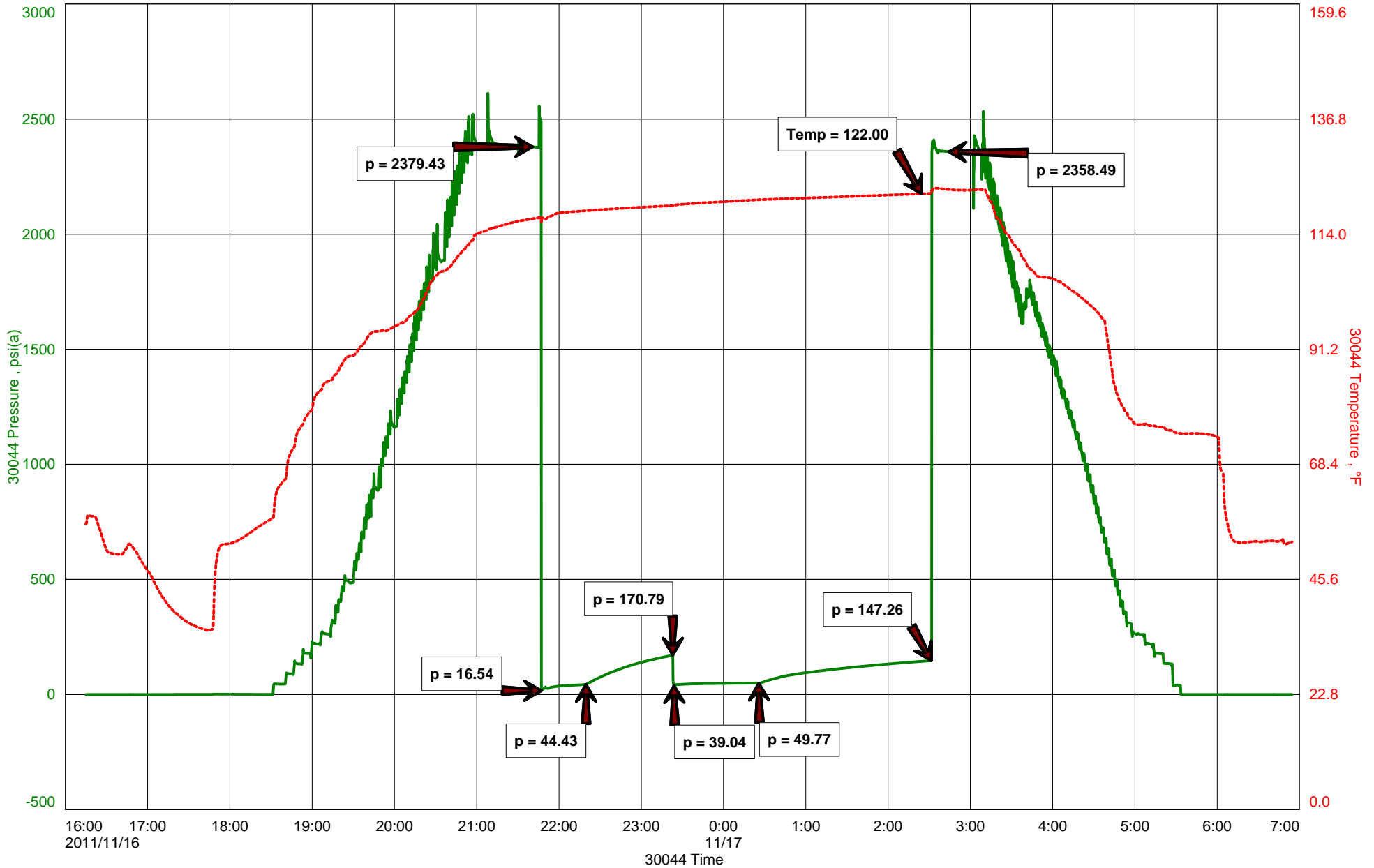
PRINTED NAME _____

SIGNATURE [Signature]

BEREXCO
DST#1 4994-5060 MORROW
Start Test Date: 2011/11/16
Final Test Date: 2011/11/17

LACEY #1-21
Formation: DST#1 4994-5060 MORROW
Pool: WILDCAT
Job Number: M244

LACEY #1-21



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO	Job Number	M244
Well Name	LACEY #1-21	Representative	MIKE COCHRAN
Unique Well ID	DST#1 4994-5060 MORROW	Well Operator	BEREXCO
Surface Location	SEC.21-26S-33W FINEY CO.KS.	Report Date	2011/11/17
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 4994-5060 MORROW		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/11/16	Start Test Time	16:15:00
Final Test Date	2011/11/17	Final Test Time	06:55:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

Test Results

Remarks

RECOVERED:
90' SOSM 100% MUD W/ A THICK SCUM OF OIL
90' TOTAL FLUID

TOOL SAMPLE: 25% OIL,75% MUD (OIL LOOKS THICK)
TOOL SAMPLE:



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO	Job Number	M245
Well Name	LACEY #1-21	Representative	MIKE COCHRAN
Unique Well ID	DST#2 5074-5100 CHESTER SD ST	Well Operator	BEREXCO
Surface Location	SEC.21-26S-33W FINEY CO.KS.	Report Date	2011/11/18
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 5074-5100 CHESTER SD ST		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/11/18	Start Test Time	03:55:00
Final Test Date	2011/11/18	Final Test Time	19:46:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

Test Results

Remarks

RECOVERED:
2662' GIP
735'GWMO 4% GAS, 89% OIL, 2% WTR, 5% MUD (314' D.P. 421' D.C.)
123' GHOCWM 2% GAS, 36% OIL, 12% WTR, 50% MUD
3520' TOTAL FLUID

GRAVITY:23.6 @ 60

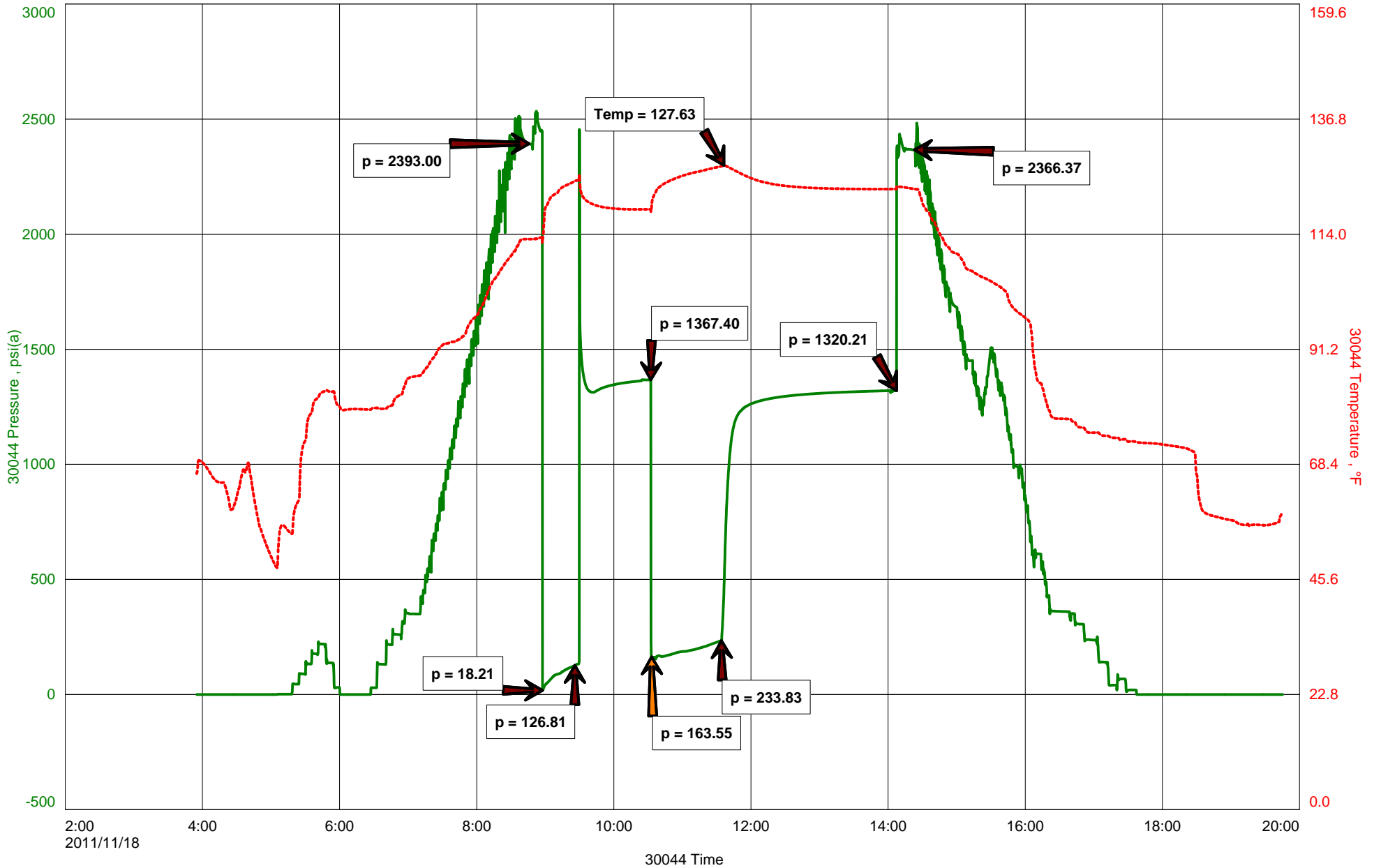
CHLOR: 4,000 PPM
PH: 7.5
RW: 1.6 @ 70 DEG

TOOL SAMPLE: 2% GAS, 33% OIL, 15% WTR, 50% MUD

BEREXCO
DST#2 5074-5100 CHESTER SD ST
Start Test Date: 2011/11/18
Final Test Date: 2011/11/18

LACEY #1-21
Formation: DST#2 5074-5100 CHESTER SD ST
Pool: WILDCAT
Job Number: M245

LACEY #1-21





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size **6 3/4** in. Packer depth _____ ft. Size **6 3/4** in.
Packer Depth _____ ft. Size **6 3/4** in. Packer depth _____ ft. Size **6 3/4** in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. **2 1/4** in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. **2 7/8** in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. **3 1/2** in.
Jars: Make **STERLING** Serial Number _____ Test Tool Length _____ ft. Tool Size **3 1/2-IF** in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size **4 1/2-FH** in.
Main Hole Size **7 7/8** Tool Joint Size **4 1/2** in. Surface Choke Size **1** in. Bottom Choke Size **5/8** in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY BEREXCO LLC NO. L-21
 LEASE LACEY LOCATION 2310 FSL & 990 FEL
 SEC. 21 TWP. 26S RNG. 33W
 COUNTY FINNEY STATE KANSAS
 FIELD WILDCAT

CONTRACTOR BEREDCO DRLG. RIG NO. 2
 COMM. 11-4-2011 COMP. 11-21-2011
 RTD 5390 LTD 5396

No. of DST'S 2 No. of CORES NONE
 SAMPLES SAVED FROM 3800 TO TD
 DRILLING TIME KEPT FROM 3800 TO TD
 SAMPLES EXAMINED FROM 3800 TO TD
 GEOLOGICAL SUPERVISION FROM 3800 TO TD
 GEOLOGIST ON WELL EDWIN H. GRIEVES

FORMATION TOPS
 BASE HEEBNER SAMPLE 3970 LOG 3975 SUBSEA -1041
 TORONTO 3982 3986 -1052
 LANSING FM. 4015 4019 -1085
 MARMATON 4504 4584 -1650
 CHEROKEE FM. 4722 4719 -1785
 MORROW FM. 4997 5000 -1066
 CHESTER FM. 5047 5054 -2120
 ST. GENEVIEVE 609E ?
 ST. LOUIS 5122 5130 -2196
 TD 5390 5396

ELEVATIONS
 KB 2934
 DF 2931
 GL 2921
 MEASUREMENTS ARE ALL FROM KB

SCALING RECORD
 8/8 dt 1752 w/ 9X.
 dt w/ 9X.
 dt w/ 9X.
 dt w/ 9X.

EL. LOG AR. IND. S. P. GR.
 DEN. NEUT. GR. CALIPER
 M. L. SONIC. XXRM1

21

API 15-055-22118

REMARKS Earth-Tech had an unmanned gas detection trailer on this hole from 3800 feet to total depth.

Geologist Log 3 to 6 ft high to E-Log depths

Thank you,
 Edwin H. Grievess
 Geologist

LITHOLOGY

SANDSTONE
 LIMESTONE
 SHALE
 GYPSUM

SILTSTONE
 DOLOMITE
 GRANITE WASH
 ANHY & GIP

CHROMATOGRAPH

HOT WIRE BY TOTAL GAS VOLUME

C1 = METHANE
 C2 = ETHANE
 C3 = PROPANE
 C4 = BUTANE
 C5 = PENTANE
 C6 = HEXANE
 C7 = HEPTANE

3800

Interbedded Limestones
 ① Fastex Drlg. Lms. tan to abu wht. to cam.-chlk. + tan; crypto. to v.v. fine trs. sub-chlk, sub-sucro to sucro; dul. yel. to yel. + dul. lt. yel. to lt. yel. fluor.; No Cut; pr. to PR. micropor. + prob. interx/n. por.

POR. + PROD. INTERXLU. POR.

② Slower Dalg. Lms. H. tan to tan, grayish. IP's; crypto. to v.v. fn. xln.; sub-chlk, sub-sucro + packstn. dul. yel. to yel. fluor.; No Cut No Vis POR.

WOB 34000
RPM 76
SPM 60
PP 800

Lms. v. to extly. abn. wht. to crm.-chlk & H. tan to tan; crypto. to v.v. fn. xln. trs. sub-chlk, sub-sucro. to sucro.; dul. yel. to yel. + dul. H. to H. yel. fluor.; No Cut; abn. pr. to trs. pr. + gd micro-pp. + prob. interxlu. por.

3900

Lms. tan, grayish. IP's; crypto. to v.v. fn. xln.; trs. sub-chlk, sub-sucro + packstn.; dul. yel. to yel. fluor.; No Cut; No Vis Porosity
Sh. v. drk. gray to black - carb.
Sh. H. gray, grayish IP's to trs. H. green

BZSCHAEBUER
3970-1036

BLK. SH. 5U

Toronto
3982-1048

Lms. abn. wht. to crm.-chlk & tan, crypto. to v.v. fn. xln.; trs. sub-chlk, sub-sucro to sucro. + packstn.; dul. H. yel. fluor.; No Cut; abn. pr. to trs. + gd. micro-pp. + poss. interxlu. por.; abn. chert wht to gray; opaque; w/trs. foss.

Lms. H. gray, grayish. tan to tan; crypto. to v.v. fn. xln.; trs. sub-chlk, sub-sucro + packstn. dul. yel. fluor. IP's; No Cut; No Vis POR.

4000

Lms. hv. trs. wht. to crm.-chlk. + H. tan crypto. to v.v. fn. xln.; trs. sub-chlk, sub-sucro to sucro.; phz. to m. oolitic IP's; dul. yel. fluor.; No Cut; hv. trs. pat. to trs. to gd micro-pp. por. + prob. interxlu. por.

Lansing Fm.
4015-1081

Interbedded Limestones

① Faster Dalg. similar 4015-4024
② Slower Dalg. Lms. H. gray. to tan, crypto. to v.v. fn. xln.; oolitic IP's (gray tan) trs. sub-chlk, sub-sucro. to packstn.; dul. yel. fluor. IP's; No Cut; No Vis POR.

Lms. trs. wht. to crm.-chlk. + tan; crypto. to v.v. fn. xln.; v. to extly. oolitic IP's to v. to extly. oolitic matrix sub-sucro. to sucro. + packstn. dul. yel. to yel. fluor.; No Cut; abn. pr. to trs. to extly. oolitic por.; Quest. Perm.

4100

Interbedded Lmst + scattered Shales

① Slower Dalg. Lms. H. gray. to tan; crypto. to v.v. fn. xln.; trs. sub-chlk, sub-sucro + packstn.; dul. yel. fluor. IP's; No Cut; No Vis POR.

② Faster Dalg. Lms. tan, grayish. IP's; crypto. to v.v. fn. xln.; trs. sub-chlk sub-sucro. to sucro.; dul. H. to H. yel. fluor.; No Cut scattered trs.

4089 TRIP FOR HOLE IN DRILL PIPE

TRIP GAS 5U

fluor.; No Cut; scattered trks.
poor micro-pinpoint porosity
② scattered shales med. to v. drk.
gray - calc IP's

Lms. abn. wht. to crm. - chlk + crm. to tan
grayish. IP's; crypto. to v. f. xln.; w/ trs.
med. to coarse, wht. calc xls + trags; scattered
trs. sl. to tably oolitic for sl. trs. sl. to tably
oolitic; sub-chlk., sub-sucro to trs. sucro. +
pachstn. dul. H. yel. to dul. yel. fluor.; No Cut
trs. pr. to tr. oolitic por.; Prob No Perm
Lms. H. gray. to tan; crypto. to v. u. f. xln.; trs.
sub-sucro., pachstn. + trs. sub-lithogr.
dul. yel. fluor. IP's; No Cut; No Vis Por

Lms. hvy. trs. wht. to crm. - chlk +
tan, grayish. IP's; crypto. to v. u. f. xln.;
sl. to v. oolitic / or sl. to v. oolitic; matrix
trs. sub-chlk., sub-sucro. to sucro. +
pachstn.; dul. yel. fluor.; No Cut;
2bn. pr. to tan + trs. oolitic por. +
trs. pr. to tan. micro-por. IP's
Questionable permeability

Interbedded Lmsts + scattered Shales
similar 4104 - 4200

Sh. v. drk. gray to blk. carb-looking
Interbedded Lmsts + scattered Shales
similar 4104 - 4200

Lms. similar 4231 - 4252

Interbedded Lmsts + scattered Shales
similar 4104 - 4200

Lms. extra. abn. wht. to crm. - chlk +
grayish. tan to tan; crypto. to v. f. xln.;
sub-chlk., sub-sucro. to
sucro.; abn. phantom oolitic to
abn. oolitic; dul. H. yel. fluor.;
w/ abn. pr. to sl. trs. tr. micro-por.
IP's; + poss. inter xln. por. IP's

Lms. H. gray. to tan; crypto. to v. u. f. xln.;
trs. sub-chlk., sub-sucro. + pachstn.;
v. dul. yel. fluor. IP's; No Cut; No Vis Por.

Sh. v. drk. gray to blk. - sl. to ext. tably
calc IP's, grading to shly Lmsts

Lms. trs. wht. to crm. - chlk + H. gray. to tan
crypto. to v. u. f. xln.; sub-chlk., sub-sucro.
to sucro.; phantom oolitic IP's; dul. H.
yel. fluor.; No Cut; abn. pr. fa. qd. to excel
micro-pp. + inter xln. por.

Lms. lt. gray. to tanish. gray; crypto. to
v. u. f. xln.; trs. sub-chlk., trs. sub-sucro.,
pachstn. + sub-lithogr.; v. dul. yel.
fluor.; No Cut; No Vis Por.

4200

4300

4400

WOB 35000
RPM 78
SPM 58
PF 300

TRAP CHECK

S U

C U

'fluor.; No Cut; No Visible Por.

Sh. med. to v. drk. gray calc. to v. drk. gray to black-carb

6 U

Lmsts. similar 4449-4477 becoming Tan IP's

4500

4560-4584 Sh. med. to v. drk. gray. sli. to extraly calc. grading to Shly Lmst

MARMATON 4584-1650

Lms. hv. trs. wht. to crm-chlk + lt. gray to tan; crypto to fnx. phantom oolitic to oolitic; matrix subchlk sub-sucro. + packstn; dul. ht. to ht. yellow fluor.; No Cut; No Visible Porosity

7 U

Lmst. lt. gray to tan; crypto. to v.v. fnx. trs. sub-chlk, sub-sucro + packstn; phantom oolitic IP's; dul. ht. yellow fluor.; No Cut; No Visible Porosity

4600

Lms. similar 4584-4598

Lms. similar 4598-4638

Sh. v. drk. gray to black-carb
Lms. similar 4598-4638

BLK. SH. 19 U

Lms. abn. wht. to crm-chlk + lt. gray to tan crypto. to v.v. fnx. trs. sub-chlk, sub-sucro to sucro; dul. ht. to ht. yellow fluor.; No Cut; abn. por. to tr. micro-p.p. por. + poss. interx. por.

RECYCLE 13 U

Lms. similar 4598-4638

4700

Sh. v. drk. gray to black-carb
Lms. tan to lt. gray; crypto. to v.v. fnx. xln.; sub-chlk, sub-sucro. to sucro + packstn; abn. sli. to extraly. oolitic; dul. ht. yellow fluor. No Cut to v. sli. to extraly. oolitic; v. sli. trs. x. pa. micro-p.p. por.

BLK. SH. 20 U

RECYCLE 12 U

CON GAS 15

Sh. v. drk. gray to black-carb
Lms. tan to lt. gray; crypto. to v.v. fnx. xln.; sub-chlk sub-sucro + packstn; trs. foss.; trs. oolitic dul. yellow fluor.; No Cut; No Visible Por.

BLK. SH. 12 U

Cherokee 4722-1788

Interbedded Limestones + Shales

① Lms. tan, grayish. IP's; crypto to v.v. fnx. xln.; sli. trs. chlk, trs. subchlk sub-sucro, packstn + trs. sub-lithogr. IP's; scattered trs. phantom oolitic to scattered trs. oolitic (tan + lt. gray) dul. yellow to yellow fluor.; No Cut; No Visible Por.

② Lms. lt. to med. gray; crypto. to trs. v.v. fnx. xln.; sli. to extraly. sli. grad. IP's to calc. shs.; sub-chlk, tan sli. trs. sub-sucro. + packstn with trs.

WOB 40000
RPM 76
SPM 58
DB 250

TKS. sub-sucro. + packstn w/TKS
sub-lithogr. j. dul. yel. fluor. IP's
No Cut; No Vis POR

③ Sh. med. to v. drk. gry. - calc to
v. drk. gry. to black - carb

SPM 38
PP 950

4800

BLK. SH. 7 U

BLK. SH. 12 U

RECYCLE 11 U

4900

CON GAS 10 U

Interbedded Lmst + Shs similar
4729 - 4902 w/TKS olive green
Shales

MOB 38000
RPM 70
SPM 54
PP 1000?

Lmst. w/interbeds Shs.
① Lms. H. to med gry. tanish IP's
crypto. to v. v. xlu. j. sli to
extaly. Shly. j. TKS. sub-chlk. for Shly.
sli. TKS. sub-sucro. packstn. and
sub-lithogr. j. scattered TKS. dul yellow
fluor. No Cut; No Vis POR
② Sh. med. to v. drk. gry. - calc to
v. drk. gry. to black - carb

Marrow Fm
4997-5063

Sh. med to v. drk. gry w/TKS
olive green j. TKS to hvy TKS
pyritic w/abn Lmst in samples
similar 4954 - 4997

5000

MOB 38000
RPM 78
SPM 54
PP 850

Lm. Sdsts. gry. to tan, mottled IP's. Fin. med to
coarse gr. j. composed Lmst + poss
frag. matrix crypto to v. v. xlu. j.
chlk. sub-chlk. sub-sucro. + TKS to
hvy. TKS. sucro. + packstn.
TKS to hvy TKS. sptd. brown oil str. j.
w/ dul. gl. dr. yel. to yel. fluor. w/ flush
to excel. stemg cuts in sucro. w/ str.
poor to TKS. fair micro. p.p. POR. +
prob. interxlu. por w/ exte. abn.
of shale in samples similar 4997-5012

SHOW 30 TO 40 U

CON GAS 53 U

SHOWS 40 TO 48 U

CHESTER Fm
5047-5113

Lms. med. gry. cryptaxlu. j. very Shly.
grading to extaly calc Shs. j. packstn
No fluor. j. No Cut; No Vis POR

TRIP GAS 475 U

Qtz Sdst. tan to brn. from even
oil str. j. good oil odor. j. v. v. xlu. to fin gr.
poor to good spt. j. aug. to TKS sub-aug. to
TKS sub-rudd. j. hvy. TKS w/ some whit
clay fill in gl. dr. yel. fluor. w/ flush
to excel. stemg cuts; abn p.p. POR. +
to TKS excel. p.p. micro. p.p. + interxlu.

5100

SHOW 48 U

5091-5101 Shly Lmst similar 5047-5080
Sh med. to drk. gry. w/ hvy TKS Lmst's
similar 5047-5080

St. Louis

similar 5047-5080

Lms. trs. wht. to cream - chlk, trs w/chlk oolites and tan, abn. grayish; crypto to v.v. fu. xln.; v. to extly. oolitic (micro sm, med + trs. lg.) matrix chlk, sub-chlk sub-sucro + packstr.; dul. H. to sl. trs. lt. yel. fluor.; No Cut; No Vis Por w/huy trs Chert brt. orange grading to lt. gray tan opque to transl

5157-5170 lms. tan, wht. to cream - chlk, trs w/ chlk oolites, + trs, pinkish IP's, tanish pink; crypto. to v.v. fu. xln.; v. to extly oolitic (micro, sm, med, + trs lg) matrix trs. chlk, trs, sub-chlk, sub-sucro to trs, sucro; dul. yel. to trs. yel. fluor.; No Cut; No Vis Por. w/trs Chert brt. orange grading to lt. gray tan; opque to transl.

Lms. tan, grayish. IP's; crypto. to v.v. fu. xln trs. sub-chlk, sub-sucro, packstr. + trs sub-lithogr.; IP's sl. to extly. oolitic (sm, med + trs lg) dul. H. yel. fluor.; No Cut; No Vis Por w/scattered trs Chert brt. orange grading to lt. gray tan; op to transl.

Lms. trs. wht. to cream - chlk + cream to lt. tan; crypto to v.v. fu. xln.; v. to extly. oolitic (sm, med + trs. lg) matrix sub-chlk, sub-sucro to sucro packstr. dul. H. to trs. lt. yel. fluor.; No Cut; No Vis Por w/trs chert as above

Lms. tan, grayish. IP's; crypto to v.v. fu. xln trs. sub-chlk, sub-sucro, packstr + trs sub-lithogr.; IP's sl. to extly. oolitic (sm, med + trs. lg) dul. H. yel. fluor. No Cut; No Vis Por. w/scattered trs. Chert bright orange grading to lt. gray + tan; opque to transl.

Lms. sl. trs. wht. to cream - chlk + tan; crypto to v.v. fu. xln.; extly. oolitic (med to lg) matrix sub-chlk, sub-sucro to sucro; sl. trs. spid. dead blk oil stain; dul. yel. mineral fluor.; dead oil stain has gd milky to gd ring cuts; No Vis Por abn. loose oolites; w/scattered trs Chert brt. orange grading to lt. gray tan opque to transl

5268-5296 Lms. lt. gray to tan; crypto to v.v. fu. xln trs. sub-chlk, sub-sucro, packstr. sub-lithogr. IP's sl. to extly. oolitic (sm, med + trs. lg) dolomitic IP's dul. yel. fluor.; No Cut; No Vis Por w/chert similar to above

5296-5306 Lms. similar 5268-5296 w/huy trs. wht to cream - chlk becoming v. to extly. dolomitic grading to Lmy Dolomites

5306-5390 Lms. tan, grayish. IP's to trs. lt. gray; crypto. to v.v. fu. xln.; abn. sl. to v. dolomitic grading to Lmy. Dolomites; sub-chlk, sub-sucro packstr and trs sub-lithogr. IP's sl. to extly. oolitic (sm, med + trs. lg) dul. H. to sl. trs. lt. yel. fluor.

No Cut; No Vis Por; w/scattered trs Chert bright orange grading to lt. gray + tan; opque to transl.

TD 5390

7 7/8 inch Bit Info in out
1. New Smith F. 27. I 1755 5390 TD

Dev. SURV.
1. 1757 1 1/2° 4. 5100 3/4°
2. 3756 1 1/4° 5. 5390 1 1/4° TD
3. 5060 3/4°

St. Louis
5122-2188

36 U

38 U

CON GAS 32 U

5200

WOB 38000
WOB 42000

SHOW? 28 U

40 U

5300

CON GAS 48 U

40 U

SHOW? 70 U

RECYCLE 52 U

54 U

5400

2. 3126 1/4 5. 5510 1/4 ✓
 3. 5060 3/4
- Cir Points
- | | |
|---------|----------|
| 1. 4600 | 9. 5040 |
| 2. 4660 | 10. 5060 |
| 3. 4700 | 11. 5090 |
| 4. 4730 | 12. 5100 |
| 5. 4940 | 13. 5180 |
| 6. 4970 | 14. 5275 |
| 7. 5000 | 15. 5390 |
| 8. 5020 | |

- Daily Drlg Report
- | | | |
|----------|----------|----------|
| 1. 3800 | 11:47 PM | 11-11-11 |
| 2. 3947 | 7:00 AM | 11-12-11 |
| 3. 4267 | 7:00 AM | 11-13-11 |
| 4. 4648 | 7:00 AM | 11-14-11 |
| 5. 4885 | 7:00 AM | 11-15-11 |
| 6. 5060 | 7:00 AM | 11-16-11 |
| 7. 5060 | 7:00 AM | 11-17-11 |
| 8. 5100 | 7:00 AM | 11-18-11 |
| 9. 5130 | 7:00 AM | 11-19-11 |
| 10. 5345 | 7:00 AM | 11-20-11 |
| 11. 5390 | 7:00 AM | 11-21-11 |

DST #1 MORROW 4994-5060
 IO Building Blow 1 1/2 inches 30 min
 FO BOB 11 min
 Rec: 90 slip/sptd Mud
 100% Mud w/ thick serum oil
 Tool Samp. 25% oil 75% Mud looks thick
 BHT 122°F

IHP 2379#
 IFP 17-44# in 30 min
 ISIP 171# in 60 min
 FFP 39-50# in 60 min
 FSIP 147# in 120 min
 FHP 2358#

DST #2 Chester Sdst 5074-5100
 IO Good Blow BOB 8 1/2 min
 FO Good Blow BOB 4 1/2 min
 Rec. 2662 feet GIIP
 858 ft total fluid
 735 ft 42G-89% oil-23 wtr-53 Mud
 123 ft 28G-36% oil-123 wtr-503 Mud
 Chl 4000 ppm titrated
 P.7 Chl 2500 ppm
 R_w 1.6 @ 70°F pH 7.5
 Tool Sample 22G; 33% oil-15% wtr
 + 50% mud BHT 128°F

IHP 2393#
 IFP 18-127# in 30 min
 ISIP 1367# in 60 min
 FFP 164-234# in 60 min
 FSIP 1320# in 120 min
 FHP 2366#

Mud Info:

Date	11-11	11-12	11-13	11-14	11-15	11-16	11-17	11-18
Time	1:55 PM	11:40 AM	11:16 AM	11:15 AM	11:35 AM	11:55 AM	11:25 AM	11:30 PM
Depth	3599	4040	4344	4671	4935	5060	5060	5100
Wt.	8.6	8.8	9.0	9.3	9.5	9.1	9.1	9.3
Vis	56	51	56	49	57	58	78	50
PV	17	16	17	16	20	17	25	15
YP	21	19	20	18	22	18	26	15
GS	15/40	14/36	15/41	14/35	21/58	17/53	20/64	12/48
WL	7.2	8.0	7.3	8.0	8.0	8.0	7.2	8.0
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.0	11.0	11.0	10.5	11.0	10.5	10.5	11.0
Chl	1200	1500	1500	1700	1350	900	1450	1500
Ca	40	40	40	40	20	20	20	60
LCM	3	2	3	3	4	4	4	3

IHP 2393 #
 IFF 18-127 # in 30 min
 ISIP 1367 # in 60 min
 FFD 164-234 # in 60 min
 FSIP 1320 # in 120 min
 FHP 2366 #

Mud Info:

Date	11-11	11-12	11-13	11-14	11-15	11-16	11-17	11-18
	1:55P	1:40P	1:10P	1:5A	1:35A	1:55A	11:05A	11:30P
Depth	359	404	434	467	495	506	506	510
WT.	8.6	8.8	9.0	9.3	9.5	9.1	9.1	9.3
Vis	56	51	56	49	57	58	78	50
PV	17	16	17	16	20	17	25	15
YP	21	19	20	18	22	18	26	15
GS	15/10	14/36	15/4	14/35	21/58	17/53	20/64	13/38
WL	7.2	8.0	7.3	8.0	8.0	8.0	7.3	8.0
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.0	11.0	11.0	10.5	11.0	10.5	10.5	11.0
Chl	1200	1500	1500	1700	1350	900	1450	2500
Ca	40	40	40	40	20	20	20	60
LCM	3	2	3	3	4	4	4	3

Date	11-19	11-20
	12:00P	10:15A
Depth	5180	5382
WT.	9.1	9.3
Vis	48	53
PV	14	16
YP	14	18
GS	11/36	13/48
WL	8.0	8.8
Cake	1/32	1/32
pH	11.0	10.5
Chl	2000	3500
Ca	80	40
LCM	2	2

OPERATOR **BEREXCO LLC** LOCATION **2310'FSL & 990'FEL**
 LEASE **LACEY** NO. **1-21** SEC. **21** TWP. **26S** Rng. **33W**
 ELEVATION **2934 KB** RTD **5390** COUNTY **FINNEY** STATE **KANSAS**

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

January 24, 2012

Evan Mayhew
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-055-22118-00-00
Lacey 1-21
SE/4 Sec.21-26S-33W
Finney 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,
Evan Mayhew