



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1072722
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: _____

1072722

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Marcia 1-33
Doc ID	1072722

All Electric Logs Run

Borehole Compensated Sonic Log
Dual Induction Log
Dual Compensated Porosity Log
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Marcia 1-33
Doc ID	1072722

Tops

Name	Top	Datum
Heebner Shale (base)	4386	-1940
Toronto	4400	-1954
Brown Lm.	4544	-2098
Lansing	4572	-2126
Kansas City	4790	-1344
Marmaton	5046	-2600
Pawnee	5121	-2675
Fort Scott	5151	-2705
Cherokee	5169	-2723
Morrow	5276	-2830
Mississippi	5240	-2994
TD	5596	

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 30, 2012

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

Re: ACO1
API 15-057-20757-00-00
Marcia 1-33
NE/4 Sec.33-29S-22W
Ford 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

ALLIED CEMENTING CO., LLC. 036492

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Liberal KS.

DATE <u>10-16-11</u>	SEC. <u>33</u>	TWP. <u>29s</u>	RANGE <u>22w</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 AM</u>	JOB FINISH <u>7:45 AM</u>
LEASE <u>Marcia</u>	WELL# <u>1-33</u>	LOCATION <u>Nec Kingdome KS-7 S on</u>			COUNTY <u>Ford</u>	STATE <u>K-S.</u>	
OLD OR <u>NEW</u> (Circle one)		<u>94 2 E 1/4 south West in</u>					

CONTRACTOR Bercoff #2 OWNER _____

TYPE OF JOB _____

HOLE SIZE 12 1/4 T.D. 650

CASING SIZE 5 3/8 DEPTH 652 37

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 500 MINIMUM _____

MEAS. LINE _____ SHOE JOINT 42.20

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 38 9

CEMENT	AMOUNT ORDERED	<u>200 SK</u>	<u>60740.18</u>
		<u>9 gal 3/4 cc 1/2 # Floccid</u>	
		<u>120 SK Class A 3/4 cc</u>	
COMMON	<u>120</u>	@ <u>16.25</u>	<u>1950.00</u>
POZMIX		@	
GEL		@	
CHLORIDE	<u>11</u>	@ <u>58.20</u>	<u>640.20</u>
ASC		@	
Light Weight	<u>200</u>	@ <u>14.50</u>	<u>2900.00</u>
Floccid	<u>50</u>	@ <u>2.70</u>	<u>135.00</u>
		@	
		@	
		@	
		@	
HANDLING	<u>333</u>	@ <u>2.25</u>	<u>749.25</u>
MILEAGE	<u>333 x 50 x .11</u>		<u>1831.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Kearney

377 HELPER Jose

BULK TRUCK

472-467 DRIVER Lenny

BULK TRUCK

_____ DRIVER _____

REMARKS:

Circulated Cement 75 BBL

Loaded Plug Float in

THANK YOU!!!

TOTAL 8205.95

SERVICE

DEPTH OF JOB	<u>650.5</u>
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE	<u>350 @ .95 = 332.50</u>
MILEAGE	<u>82 150 @ 7.00 = 350.00</u>
MANIFOLD	<u>1 @ 200 = 200.00</u>
Light VM Mileage	<u>82 @ 4.00 = 328.00</u>

TOTAL 1934.50

CHARGE TO: Bercoff LLC

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

Baffle Plates	<u>1</u>	@ <u>84.00</u>	<u>84.00</u>
Washer Plug	<u>1</u>	@ <u>84.00</u>	<u>84.00</u>
Centralizer	<u>3</u>	@ <u>50.00</u>	<u>150.00</u>
		@	
		@	

TOTAL 318.00

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) _____



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

33/29s22w

2020 N Bramblewood
Wichita Ks 67206

Marcia 1-33

Job Ticket: 42305

DST#: 1

ATTN: Ed Grieves

Test Start: 2011.10.28 @ 18:20:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 16.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 15200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	100% mud	1.475

Total Length: 300.00 ft Total Volume: 1.475 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8677

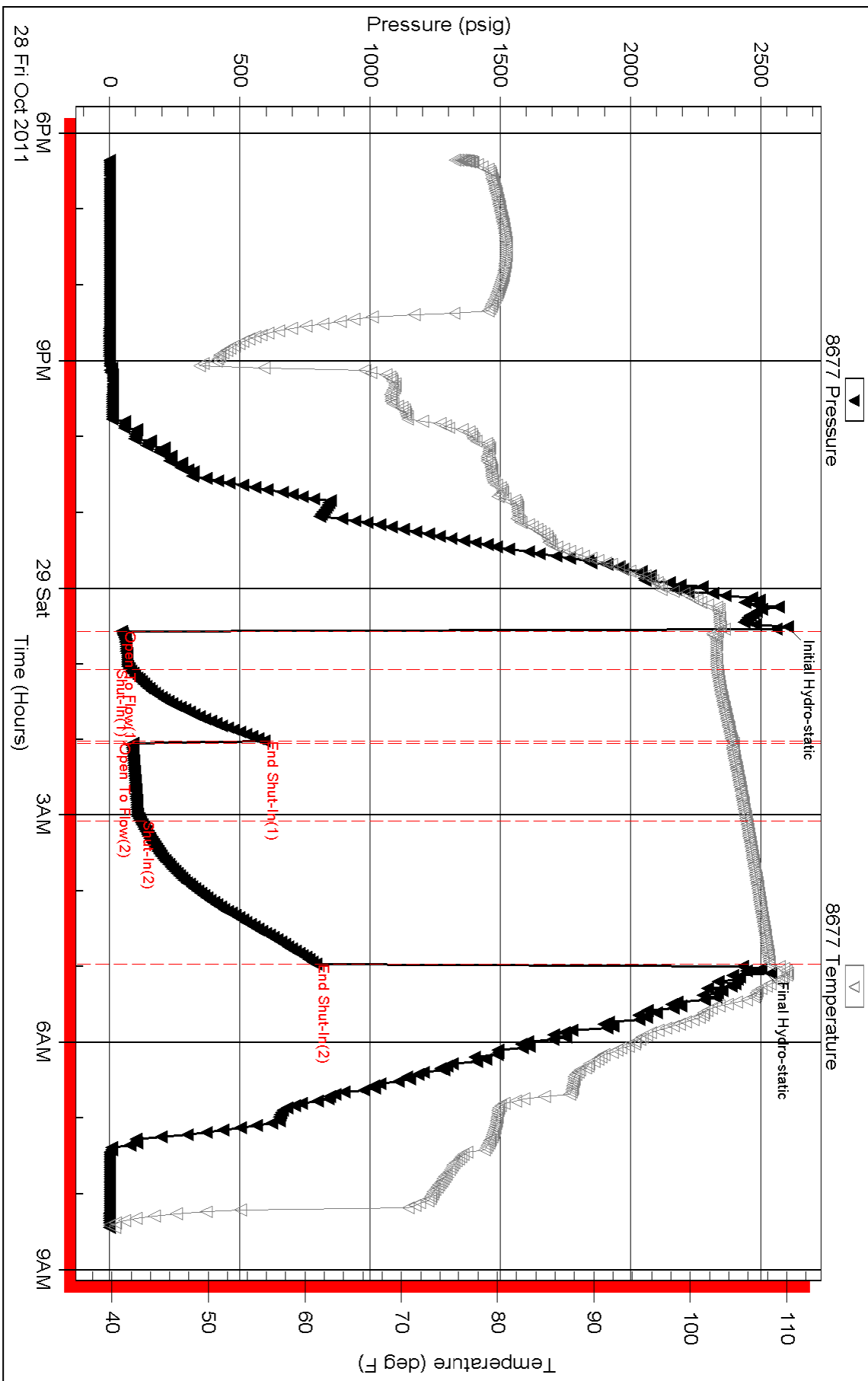
Inside

Berexco LLC

Marcia 1-33

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita Ks 67206
ATTN: Ed Grieves

33/29s22w
Marcia 1-33
Job Ticket: 42306 **DST#: 2**
Test Start: 2011.10.30 @ 07:35:28

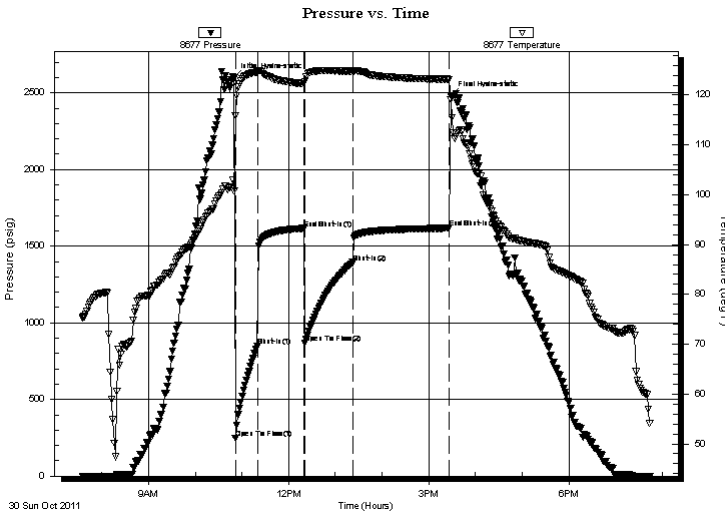
GENERAL INFORMATION:

Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:51:43
Time Test Ended: 19:44:58
Interval: **5351.00 ft (KB) To 5375.00 ft (KB) (TVD)**
Total Depth: 5375.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Slemp
Unit No: 53
Reference Elevations: 2446.00 ft (KB)
2434.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8677 Inside
Press @ Run Depth: 1393.29 psig @ 5353.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.30 End Date: 2011.10.30 Last Calib.: 2011.10.30
Start Time: 07:35:29 End Time: 19:44:58 Time On Btm: 2011.10.30 @ 10:49:58
Time Off Btm: 2011.10.30 @ 15:28:13

TEST COMMENT: IF- BOB in 1.5 min
IS- Surface blow back
FF- BOB in 3 min
FS- Surface blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2597.12	100.82	Initial Hydro-static
2	246.04	115.92	Open To Flow (1)
30	850.50	124.62	Shut-In(1)
90	1616.09	122.26	End Shut-In(1)
91	867.44	122.65	Open To Flow (2)
153	1393.29	124.77	Shut-In(2)
277	1618.14	123.17	End Shut-In(2)
279	2483.34	119.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2800.00	water 100%	33.53

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

33/29s22w

2020 N Bramblewood
Wichita Ks 67206

Marcia 1-33

Job Ticket: 42306

DST#: 2

ATTN: Ed Grieves

Test Start: 2011.10.30 @ 07:35:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

70000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2800.00	water100%	33.529

Total Length: 2800.00 ft Total Volume: 33.529 bbl

Num Fluid Samples: 0

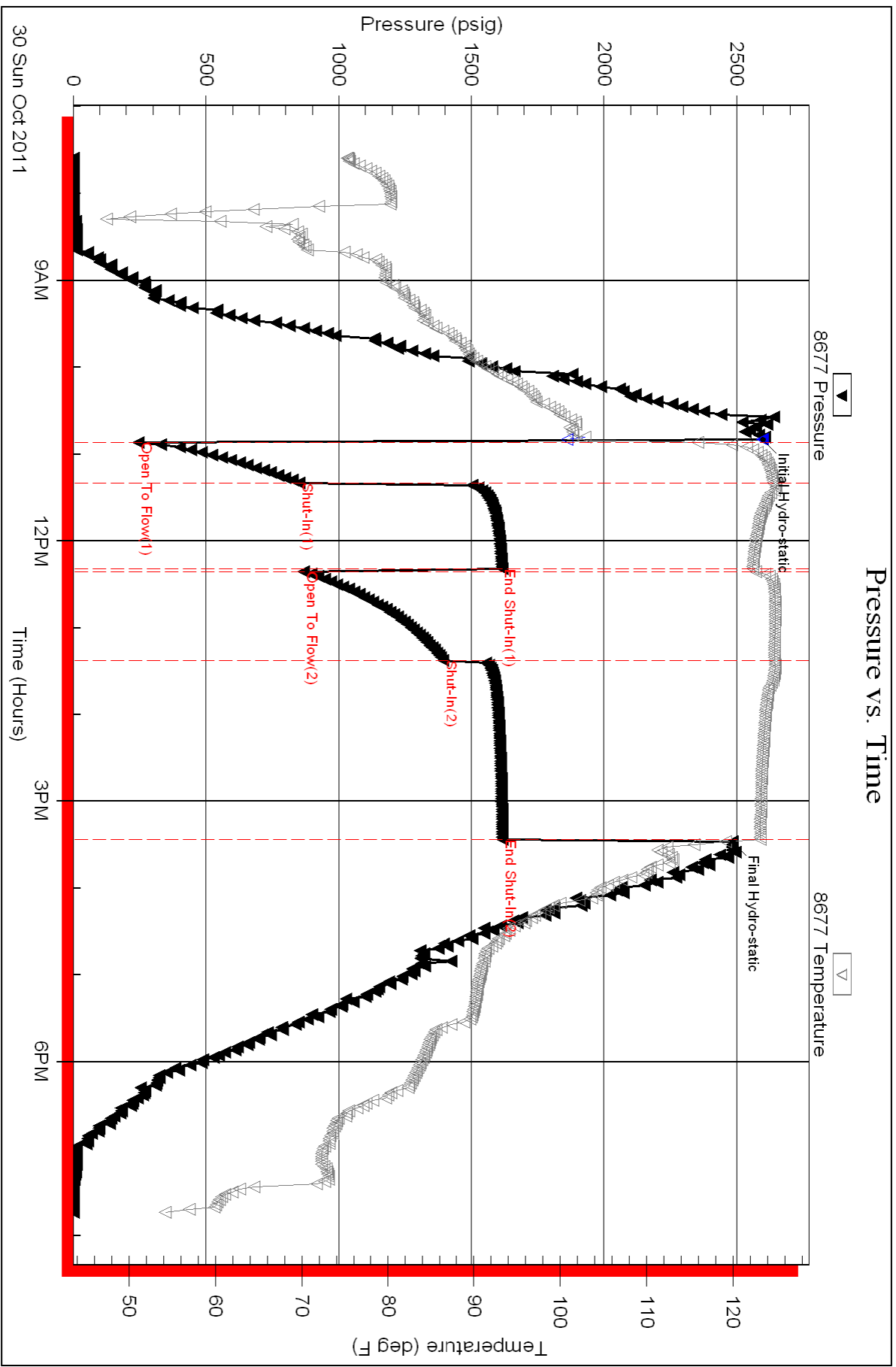
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY BEREXCO LLC
 LEASE MARCIA NO. L-33
 LOCATION 2310FNL & 721FEL
 SEC. 33 TWP. 29S RANG. 22W
 COUNTY FORD STATE KANSAS
 FIELD EDMONSTON

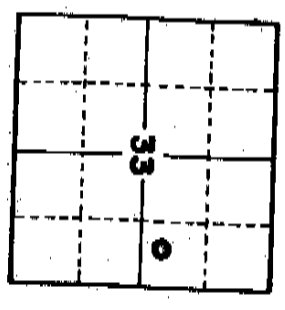
ELEVATIONS
 KB 2446
 DE 2444
 GL 2434
 MEASUREMENTS ARE
 ALL FROM KB

CONTRACTOR BEREDCO DRILG. RIG NO. 2
 COMM. 10-15-2011 COMP. 11-1-11
 RTD 5600 LTD _____
 No. of DST'S 2 No. of CORES NONE

SCASING RECORD
 678 of 650 w/_____ 9X.
 of _____ w/_____ 9X.
 of _____ w/_____ 9X.
 of _____ w/_____ 9X.
 EL. LOG D. IND. GR. SP.
 DEN. NEUT. GR. CALIBER
 M. SONIC

SAMPLES SAVED FROM 4200 TO TD
 DRILLING TIME KEPT FROM 4200 TO TD
 SAMPLES EXAMINED FROM 4200 TO TD
 GEOLOGICAL SUPERVISION FROM 4200 TO TD
 GEOLOGIST ON WELL EDWIN H. GRIEVES
 FORMATION TOPS _____

BASE HEEBNER SAMPLE 4388 LOG _____ SUBSEA _____
 TORONTO 4404 _____ _____
 BROWN LN. 4549 _____ _____
 LANSING 4567 _____ _____
 KANSAS CITY FM 4794 _____ _____
 MARMATON 5049 _____ _____
 ZAWNEE 5178 _____ _____
 T. SCOTT 5154 _____ _____
 CHEROKEE 5173 _____ _____
 MORROW FM 5271 _____ _____
 MISSISSIPPI 5444 _____ _____
 D 5600 _____ _____



MARKS Earth-Tech had an unmanned gas detection trailer on this well from 4200 feet to total depth.

Sample Quality Poor To Very Poor

*Thank you!
 Edwin H. Grievess*

Lms. hv. trs. wht. to crm - chlk + lt. tan to
 tan grayish. IP's crypto to v. v. xln; trs. sub chlk
 sub-sucro. to sucro.; trs. ool. frags.; trs.
 phantom oolitic; dul. lt. to h. ye. fluor.;
 No cut; zbn. por. to cr + trs good microsp
 + inter xln. por.

TRAP CHECK
 WOB 35000
 RPM 75000
 SPM 85
 PP 969

Lms. lt. gray to tan; crypto to v. v. xln
 trs. sub-chlk, sub-sucro, oolitic, and
 sub-lithographic; dul. lt. to h. ye. fluor.
 No cut; No Vis. Por. w/ slits
 Chert gray to tan; opaque

Interbedded Limestones similar
 4202-4226 and 4226-4302

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

Lms. lt. gray to tan; crypto. to v. v. xln
 sub-chlk, sub-sucro + pedestals; dul. ye. fluor.
 No cut; No Vis. Por.

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

Lms. similar 4369-4382
 Sh lt. gray - slit v. calc, greenish IP's. to tan
 lt. green to trs olive green

Lms trs. wht. to crm - chlk + lt. gray to tan;
 crypto. to v. v. xln; phantom oolitic
 ool. phantom oolitic IP's; trs. ool. frags.; trs.
 sub-chlk; sub-sucro to trs sucro.; trs. med
 to coarse wht. calc xln frags; dul. ye.
 dul. lt. ye. to trs h. ye. fluor.
 No cut; zbn. por. to cr + trs good microsp

BLK SR 14 U

BLK SR 22 U

Base Heebner
 4380-4402

Toronto
 4404-4452

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

Lms. similar 4369-4392

Sh lt. gry.-slitov. calc, greenish IP's to tan
lt. green to tan olive green

4400

Lms tan. wht. to cream - chlk + lt. gry to tan;
crypto. to v. v. fn. xln.; phantom oolitic
or poor phantom oolitic IP's; tan to ss IP's; tan
sub-chlk, sub-sucro to tan sucro; tan med
to coarse wht. calc xls + frags; dul. yel
dul. lt. yel. to tan lt. yel. fluor;
No cut; zbn. pr. fr. to hvy tan gd
p.p. + micro-pp por.

Sh w/ interbeds Limestones

① Sh med. to drk gry - slitov. calc
② Lms tan. wht to cream - chlk + lt. tan to
tan, grayish IP's to tan lt. gry; crypto
to v. v. fn. xln.; tan. sub-chlk, sub-sucro.
+ packstn; scattered tan. phantom
oolitic; dul. yel., dul. lt. yel to tan lt
yel. fluor, No cut; scattered tan
poor, micro-pp. por. IP's w/
scattered tan. chert gray to tan;
opaque to transl

4500

Sh. med to drk gry - slit calc IP's

Brown Lms
4549-2103

Lms. lt. brn; crypto xln; packstn to
sub-lithogr.; No fluor; No cut; No vit por

Sh med to drk gry - slit to extely, calc.

Lms. grayish. tan to tan; crypto to v. v. xln.
tan. sub-chlk, sub-sucro + packstn; dul. lt.
to lt. yel. fluor; No cut; No vit por

Lms. tan, grayish. IP's; crypto to v. v. xln.;
tan. sub-chlk, sub-sucro to sucro; phantom oolitic
or poor phantom oolitic IP's; dul. lt. to lt. yel
fluor; No cut; zbn. pr. to lat + tan gd micro pp

4600

NOB 33000-35100
RPM 70
SPM 56
PP 950

Lansing Fm
4567-2121

NOB 38000-40000
RPM 60-65

Lms. tan, grayish. IP's; crypto. to v. fine. xlvij
 tes. sub-dk, sub-succro. to succro; phantom galite
 for phantom calc. IP's; dul. H. to shly
 fluor.; No cut; 2bn. pr. to pr. + tes. g. d. micro-pp
 por. 2nd poss. interxlv. por. IP's

4600

WOB 35000
 RPM 70
 SPM 59
 PP 850

Interbedded Limestones

- ① Faster Dalg. Lms. similar 4595-4619
- ② Slower Dalg Lms. similar 4567-4595

4700

Sh v. drk. gray to black - carb.
 Lms. lt. to med. gray - shly to v. shly + tan,
 grayish. IP's; crypto. to v. fine. xlvij; tes. sub-dk
 (IP's) sub-succro + p. z. ch. stn; IP's shly;
 dul. yel. fluor. IP's; No cut;
 No vis por

BLK SH ISU

Sh v. drk gray to black - carb.
 Lms similar 4760-4785
 Lms. tan, grayish IP's; crypto. to v. fine. xlvij; tes. sub-dk
 sub-succro. to succro; dul. H. to shly. fluor. No cut;
 2bn. pr. to pr. g. d. to excel. micro-pp
 + prob. interxlv. por.

4800

Kansas City, Kan
 4794-2848

4799-4892 Interbedded Limestones

- ① Lms tan. grayish. IP's; crypto. to v. fine. xlvij

Sh v. drk gray to black - carb.

Lms similar 4760-4785

Lms. tan, grayish IP's; crypto. to uv. fn. xln; tas. sub-chlk; sub-sucro. to sucro; dul. lt. yel. fluor. No cut

zbn. pr. fgn. gd. to excel. micro-pp + prob. interxln. por.

4800

4799-4892

4799-4892 Interbedded Limestones

① Lms. tan, grayish. IP's; crypto. to uv. fn. xln; tas. sub-chlk; sub-sucro to sucro; dul. lt. yel. fluor.; No cut; zbn. pr. to fgn. + IP's. hv. tas. gd. to IP's tas. excel. micro-pp + prob. interxln. por.

② Lms. lt. gray to tan; crypto. to uv. fn. xln; tas. sub-chlk; sub-sucro + p. actus; dul. lt. yel. fluor. IP's; No cut
No Vis POR.

052

Lms. lt. gray to tan; crypto. to uv. fn. xln; tas. sub-chlk; sub-sucro. + p. actus; dul. lt. yel. fluor. IP's; No cut; No Vis POR

4900

Sh v. drk gray to black - carb

Lms similar 4892-4919

Lms. tas. wht. to cream-chalk; grayish. tan to tan sub-sucro; p. actus; ool. to w/ tas. p. actus; fgn.; dul. lt. yel. fluor.; No cut; v. scattered very poor micro-pp por.

Lms. lt. gray to tan; gray + grayish. tan; crypto. to uv. fn. xln; sh. to fgn. shly IP's; crypto. to uv. fn. xln; sub-chlk + on shly sub-sucro. + p. actus; dul. yel. fluor.; No cut; No Vis POR

Sh v. drk. gray to black - carb. looking

Lms. similar 4937-4957

?? Lms. abn. wht. to cream-chalk + tan crypto. to uv. fn. xln; tas. sub-chlk; sub-sucro. to sucro; lt. yel. fluor. No cut; zbn. pr. gd. to excel. micro-pp + not even por or Blk. Sh. ???

5000

4971-5032 Interbedded Gradational Limestones

① Lms. lt. to med. gray - sh. to fgn. shly. crypto. xln; sub-chlk + on shly + p. actus; No flora. No cut; No Vis POR

5000

② Lms. grayish. tan to tan; crypto. to uv. fn. xln; tas. sub-chlk; sub-sucro + p. actus

① Lms. lt. to med. gray - slt to frly shly. crypto xln.; sub-chlk + or shly + p. dustin

No flora. No cut; No vis por

5000

② Lms. grayish tan to tan; crypto. to v. v. xln. tas. sub-chlk, sub-succro + p. dustin. dul. yel-fluor. IPe; No cut; No vis por

5047-2603

Sh med. to v. drk gray - slt to v. calc gabng to shly lms

5047-2603

Lms. lt. gray to tan; crypto. to v. v. xln. crypto. to v. v. xln. x ln; tas. sub-chlk, tas. sub-succro, p. dustin + sub-lithog. dul. lt. to tas. lt. yel. fluor.; No cut No vis. por. w/ slt. tas chert gray to tan opaque to transl.

5100

Sh. v. drk gray to blk + black - carb

Lms. tas. wht to can-chlk + H tan to tan; crypto to v. v. xln. sub-chlk, sub-succro to succro dul yel to yel fluor. - few pieces w/ faint staining to fr. ring cuts; f. asptol + sl. tas ga micro-pp. poss. inter xln. por. IPe
Lms. tan-chlk + H tan to tan; crypto to v. v. xln. sub-chlk, sub-succro, p. dustin + sl. tas sub-lithog; dul to lt. yel. fluor; No cut. ta. p. micro-pp. IPe

5126-2602

Lms similar 5154-5173

Sh v. drk gray to blk - carb

Lms. lt. gray to tan; crypto. to v. v. xln. tas. sub-chlk, sub-succro + p. dustin. dul. yel. to tas. lt. yel. fluor; No cut; No vis por

5173-2727

Sh. v. drk gray to black - carb

Lms. similar 5154-5173

Sh med. to v. drk gray, slt to frly calc IPe

Lms. similar 5154-5173

Sh v. drk gray to blk - carb - looking

5205

Interbedded Limestones + Shales

① Sh. med to v. drk gray, slt to frly calc IPe

② Lms. lt. to med gray - slt to v. calc and

63 U 11

Sh med. to v. drk. gray, sli. to frly, calc. IP's

Lms. similar 5154-5173

Sh v. drk gray to blk - carb looking

5200

Interbedded Limestones + Shales

① Sh. med to v. drk. gray, sli. to frly, calc. IP's

② Lms. lt. to med. gray, sli. to v. calc. and trs wht to crm-chlk w/ grayish tan to tan; crypto. to v. v. fu. xln.; trs sub-chlk, sub-succro, p. chstn + trs. sub-lithogr. dul. yel. fluor. IP's; No cut; No Uls Por.

③ v. sli. trs. chert gray to tan, opaque

Poss Sh. v. erigited grys, greens mottled IP's + reds - maroons Lms. grayish tan to tan; crypto. to v. fu. xln. hyp. trs. sub-chlk, sub-succro + p. chstn; dul. h. to h. yel. fluor.; No cut; No Uls Por.

Conglomerate

① Sh med to drk gray w/ trs to abn v. erigited; reds, greens maroons + yellows

② Lms. trs. wht. to crm-chlk + trs lt. gray, grayish tan to tan; crypto to v. fu. xln.; trs sub-chlk, sub-succro + p. chstn + trs sub-lithogr. dul. h. to sli. trs lt. yel. fluor.; No cut; No Uls Por.

③ sli. trs. chert gray to tan, opaque to transl.

Qtz. Sdst v. lt. gray, v. fr. to fr. gr. w/ coarse silt ang. to sub-rnd. pr. sort; v. sm. clust; v. fair oil gl. ex; mostly loose Qtz gas silt gradng to fr. gr. and to sub-rnd.; clear; gl. dnyel fluor. w/ flush to milky cuts; silt to gd w/ to gr. por in few clusters

Conglomerate similar 5271-5322

Qtz Sdst w/ interbeds Conglomerate

① Qtz Sdst v. lt. gray w/ trs lt. tan from oil stn.; v. v. fr. gradng to fr. gr. ang to sub-rnded + trs rnded; pr. sort.; sli. trs wht. clay filling + partings to laminations; trs. w/ trs chlorite sli. dolomitic IP's; yel. to gl. dnyel. fluor.; flush, gd. stemng. to gd. Ring cuts; abn. pr. to fr. + trs. gd. to sli. trs excel. intergr. por; abn. v. sm. clusters - v. friable + loose Qtz. gas silt gradng to fr. gr. ang to sub-rnded; clear

② Sh, Lm + Chert Conglomerate similar 5271-5327 w/ chert becoming extal, abn 95% wht to off wht. base ch. trs. cl. mottled

5400

TRICYCLE 85U

63 U PP?

5250??

5271-2825

5300

NOTE RIC REPAIR 2-3 DAYS BEFORE DSRT AT 0540

3 2

SHOW 36U

4 5 12 2

SHOW 27U

4 5 3 2

SHOW 15U

WEB 35000

SHOW REM TO

MU - SPM 54

PP 900

SHOW 32 U

TRIP GAS 56U

v. friable + loose Qtz. grs siff grading to fine; ang to sub-Rnded; clear

② Sh, Lm + Chert Conglomerate similar 5271-5327 w/ chert becoming extaly abn 95% wht to off wht. Fresh to tan sli weathered + 5% fresh gray to tan opaque

Sh, Lm + Chert Congl. similar 5271-5327 w/ incr. in Lmst

Qtz sdt. wht, grayish IP's; v. fn to fine ang. to subrounded; pr. sort; matrix wht; chlk; dul. yel. Fluor; No vis Por.

Lms. abn. wht to cream chlk + tan, grayish IP's; crypto. to v. v. fn. xln; subchlk, sub-sucro + pachstn; abn sli to extaly oolitic (sum to med), matrix chlk, sub-chlk, sub-sucro + tas pachstn; trs. wht to med. to coarse calc. xls + frags; trs. blk. dead oil str. IP's, dul. gl. to tan yel. Fluor; dead blk oil str; no Fluor but will give v. slow gd staining cuts; No Vis Por w/ trs chert wht gray to tan + tan yel opaque to transl

Lms. v. abn. wht to cream chlk + tan, grayish IP's; crypto. to v. v. fn. xln; subchlk, sub-sucro + pachstn; abn. phantom oolitic, oolitic IP's dul. yel. to yel. + gl. yel. Fluor.

No Cut; No Vis Por w/ abn. Chert wht, gray to tan + tan yel; opaque to transl.

Lms. similar 5484-5516 w/ ext. abn wht to cream chlk; w/ trs to v. abn. Chert off wht, gray; transl to opaque

Interbedded Limestones + Dolomites

① Slower Dalg Lms. similar 5484-5516

② Faster Dalg Dolomite lt. gray; crypto to v. v. fn. xln; sub-sucro to v. sucro + pachstn; abn. sli to extaly calc. grading to Lm. dolo. + Dolo. Lmst; dul. yel. Fluor. IP's; No Cut No Vis Por.

TD 5600
7 7/8 inch Bit Info: IN out
#1 New Smith F-2714 650 5600TD
Dev. Surv.?

5400

5500

5600

Mississippi
5484-5498

03 2 1

3 2

03 2 1

CF

TD 5600

5600

778 mi/h Bit Info: 1 in out
 #1 New Smith F-2714 650 5600TD

Dev. Surv.:

- | | |
|-------------|---------------|
| 1. 468 3/4 | 4. 3560 3/4 |
| 2. 1388 1° | 5. 4500 1° |
| 3. 2400 3/4 | 6. 5340 1 1/4 |
| | 7. 5600 TD |

Cir. Points

- | | | |
|---------|---------|---------|
| 1. 5134 | 4. 5300 | 7. 5340 |
| 2. 5260 | 5. 5320 | 8. 5350 |
| 3. 5280 | 6. 5332 | 9. 5365 |

Daily Daily Prog

- | | | |
|----------|---------|----------|
| 1. 4200 | 9:49 PM | 10-21-11 |
| 2. 4351 | 7:00 AM | 10-22-11 |
| 3. 4753 | 7:00 AM | 10-23-11 |
| 4. 5065 | 7:00 AM | 10-24-11 |
| 5. 5280 | 7:00 AM | 10-25-11 |
| 6. 5340 | 7:00 AM | 10-26-11 |
| 7. 5340 | 7:00 AM | 10-27-11 |
| 8. 5340 | 7:00 AM | 10-28-11 |
| 9. 5340 | 7:00 AM | 10-29-11 |
| 10. 5375 | 7:00 AM | 10-30-11 |
| 11. 5470 | 7:00 AM | 10-31-11 |
| 12. 5600 | 7:00 AM | 11-1-11 |

DST #1 Morrow Sd. 5270-5340

10 weak blow 3" in 30 min
 FD weak blow 3" in 60 min
 Rec 300 ft 100% Mud Max Temp 107.8 °F

- IHP 2602 #
- IFP 47-77 # in 30 min
- ISIP 593 # in 60 min
- FFP 90-118 # in 60 min
- FSIP 790 # in 120 min
- FHP 2502 #

DST #2 Morrow Sd 5351-5375

10 BOB 1.5 min F.D. BOB 30 min
 Rec 2800 100% salt wtr
 Pitch 14000 Test chl 70000 ppm
 Mud Eng Titrated Chl 117500 ppm
 Max Temp 119.1 °F

- IHP 2597 #
- IFP 246-85 # in 30 min
- ISIP 1616 # in 60 min
- FFP 867-1393 # in 60 min
- FSIP 1618 # in 120 min
- FHP 2483 #

Mud Info:

Date	10-21	10-22	10-23	10-24	10-25	10-26	10-27	10-28
Depth	4404	4418	4804	5080	5297	5340	R	5940
WT	8.9	9.1	9.3	9.1	9.35	9.3		8.9

Mud Info:

Date	10-21 2:30P	10-22 10:30A	10-23 10:15A	10-24 8:35A	10-25 8:40A	10-26 10:55A	10-27 8:15A
Depth	4404	4418	4804	5080	5297	5340	R 5840
WT.	8.9	9.1	9.3	9.1	9.35	9.2	1 8.9
Vis	44	44	44	50	47	50	G 50
PV	14	14	17	17	14	18	16
YP	15	14	18	21	15	25	R 19
GS	15/64	16/53	19/54	21/65	15/48	17/57	R 18/56
NL	23.6	18.8	14.4	14.4	11.2	16.4	C 16.4
Cake	3/32	1/32	1/32	1/32	1/32	1/32	P 1/32
pH	10.0	10.5	10.5	11.0	10.5	9.5	2 11.2
chl	20200	18800	17600	14900	11300	12200	15200
Ca	80	20	20	20	20	20	1 20
LCM	2	2	2	1	TR	2	R 2

Date	10-29 5:55P	10-30 9:45A	10-31 8:15A				
Depth	5340	5375	5496				
WT.	8.8	8.8	8.9				
Vis	56	51	46				
PV	17	17	15				
YP	25	22	23				
GS	20/56	20/68	19/58				
NL	7.2	8.4	10.8				
Cake	1/32	1/32	1/32				
pH	11.0	10.5	9.5				
chl	14000	12700	17500				
Ca	20	20	60				
LCM	2	2	2				

OPERATOR BEREXCO LLC LOCATION 2310FNL & 710FEL
 LEASE MARCIA NO. 1-33 SEC. 33 TWP. 29S RANG. 22W
 ELEVATION 2446KB RTD 5600 COUNTY FORD STATE KANSAS

ALLIED CEMENTING CO., LLC. 036499

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
LIBERAL KS

DATE <u>11-1-2011</u>	SEC <u>33</u>	TWP. <u>29S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30 AM</u>	JOB FINISH <u>10 PM</u>
LEASE <u>MARCIA</u>		WELL # <u>1-33</u>	LOCATION <u>VEC. FORD KS</u>			COUNTY <u>FORD</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR BEREXCO #2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 1450

CASING SIZE 8 7/8 24" DEPTH 650

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 20F DEPTH 1450

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Kenny + Bob Smith

470-484 HELPER LENNY

BULK TRUCK

457-251 DRIVER Bob S

BULK TRUCK

DRIVER

REMARKS:

OWNER

CEMENT

AMOUNT ORDERED 200 SK CLASS A

60/40 / 4% SOL

COMMON	<u>120</u>	@	<u>16.25</u>	<u>1950.00</u>
POZMIX	<u>80</u>	@	<u>8.50</u>	<u>680.00</u>
GEL	<u>7</u>	@	<u>21.25</u>	<u>148.75</u>
CHLORIDE		@		
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>2.07</u>	@	<u>2.25</u>	<u>465.75</u>
MILEAGE				<u>135.50</u>
				TOTAL <u>4383.00</u>

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1250.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>50</u>	@	<u>7.00</u> <u>350.00</u>
MANIFOLD		@	
		@	
		@	

TOTAL 11000.00

CHARGE TO: BEREXCO LLC

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>N/A</u>	@	
	@	
	@	
	@	
	@	

TOTAL 0

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 Scott H. Batman

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES \$ 5983.00

DISCOUNT 1495.75 IF PAID IN 30 DAYS

4487.25