



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1158182
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: _____



1158182

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	J-G Unit 1-13
Doc ID	1158182

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	J-G Unit 1-13
Doc ID	1158182

Tops

Name	Top	Datum
Heebner Shale (base)	3972	-534
Toronto	3983	-545
Lansing	4018	-580
KS City (base)	4418	-1083
Marmaton	4533	-1095
Pawnee	4627	-1189
Ft Scott	4671	-1233
Cherokee	4681	-1243
Morrow	4975	-1537
Mississippi	5220	-1782
RTD	5424	
LTD	5418	

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 12, 2013

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

Re: ACO1
API 15-075-20873-00-00
J-G Unit 1-13
SW/4 Sec.13-22S-39W
Hamilton 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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N. Bromblew ood
Wichita, KS 67206
ATTN: Ed Grieves

13-22s-39w-Hamilton Co, KS
J-G Unit #1-13
Job Ticket: 53046 **DST#: 1**
Test Start: 2013.08.31 @ 03:15:00

GENERAL INFORMATION:

Formation: **Lower Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:32:45

Time Test Ended: 18:10:45

Test Type: Conventional Straddle (Initial)

Tester: Cornelio Landa III (

Unit No: 46

Interval: **5179.00 ft (KB) To 5195.00 ft (KB) (TVD)**

Reference Elevations: 3438.00 ft (KB)

Total Depth: 5424.00 ft (KB) (TVD)

3425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8650

Outside

Press @ Run Depth: 1023.07 psig @ 5182.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.31

End Date:

2013.08.31

Last Calib.: 2013.08.31

Start Time: 03:15:15

End Time:

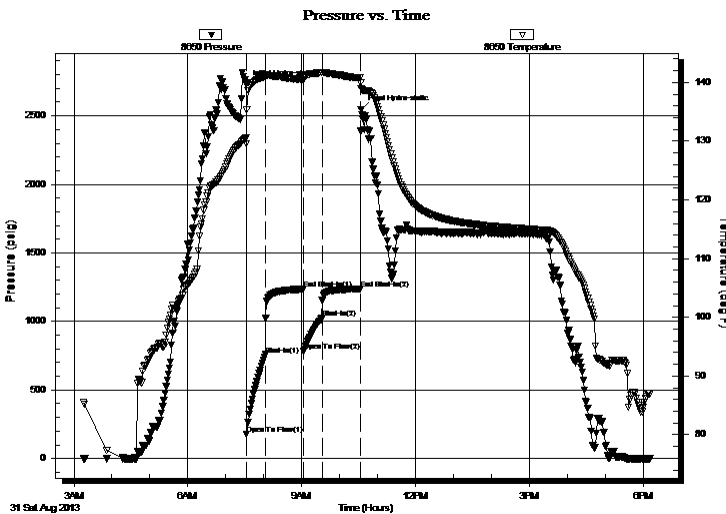
18:10:45

Time On Btm: 2013.08.31 @ 07:32:30

Time Off Btm: 2013.08.31 @ 10:34:15

TEST COMMENT: IF: B.o.b. in 2 mins.
IS: Bled off in 3 mins.- No return
FF: B.o.b. in 3 mins.
FS: Bled off in 1 1/4 mins.- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2726.92	130.60	Initial Hydro-static
1	177.70	129.60	Open To Flow (1)
31	758.32	141.03	Shut-In(1)
90	1236.84	140.47	End Shut-In(1)
91	781.35	140.36	Open To Flow (2)
120	1023.07	141.67	Shut-In(2)
181	1238.76	140.80	End Shut-In(2)
182	2544.95	138.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
530.00	Mw 15m 85w	2.61
630.00	Mw 5m 95w	8.84
1170.00	Mw 10m 90w	16.41
0.00	RW .17@116=23000	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC
2020 N. Bromblewood
Wichita, KS 67206
ATTN: Ed Grieves

13-22s-39w-Hamilton Co, KS
J-G Unit #1-13
Job Ticket: 53046 **DST#: 1**
Test Start: 2013.08.31 @ 03:15:00

Mud and Cushion Information

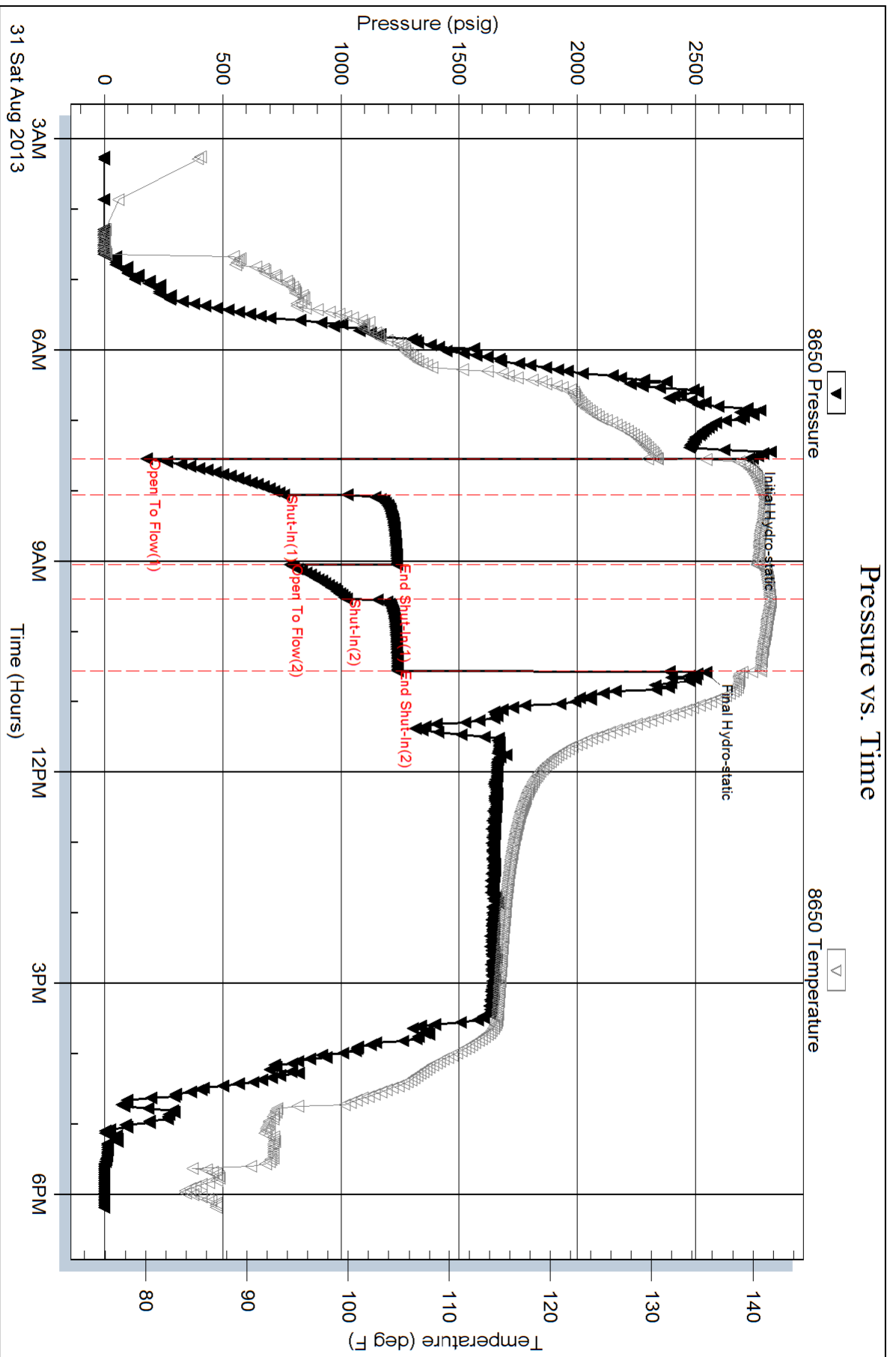
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	23000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

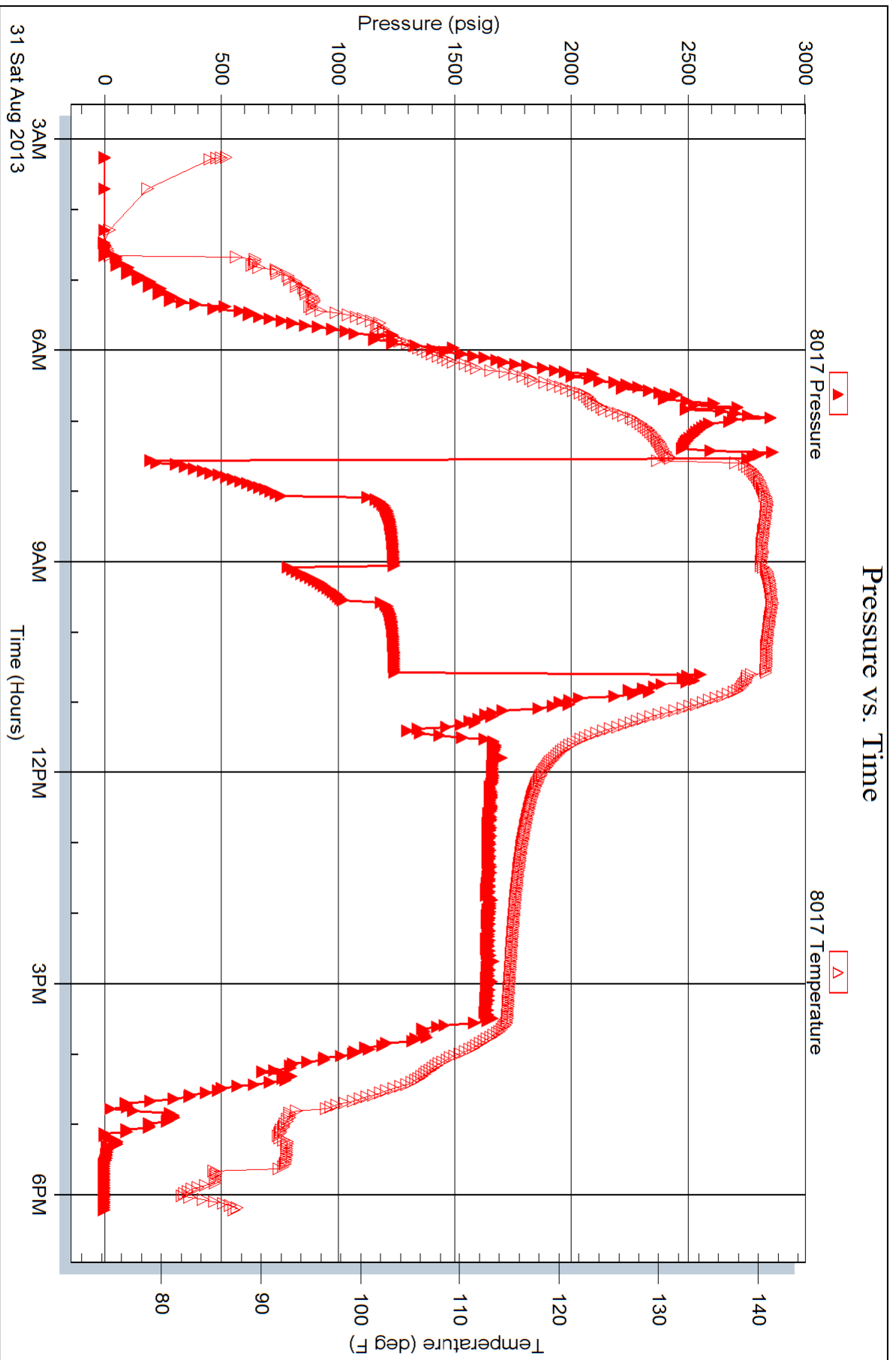
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
530.00	Mw 15m 85w	2.606
630.00	Mw 5m 95w	8.837
1170.00	Mw 10m 90w	16.412
0.00	RW .17@116=23000	0.000

Total Length: 2330.00 ft Total Volume: 27.855 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





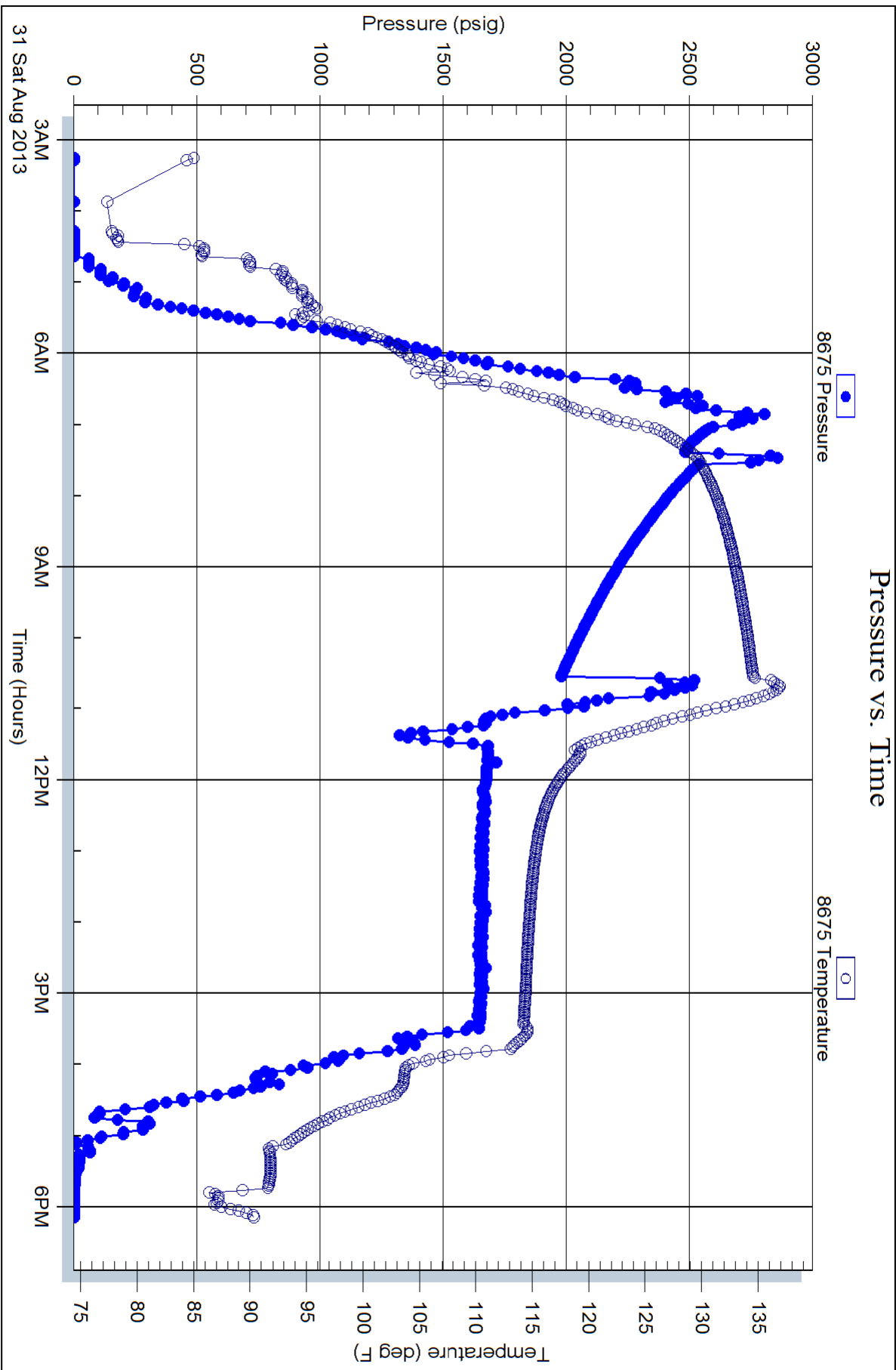
Serial #: 8675

Inside

Berexco LLC

J-G Unit #1-13

DST Test Number: 1



GEOLOGIST'S REPORT
DRILLING TIME & SAMPLE LOG

COMPANY Berexco LLC

LEASE J-G Unit NO. 1-13

LOCATION 2521 FSL + 1085 FWL

SEC. 13 TWP. 22 S RANG. 39 W

COUNTY Hamilton, STATE Kansas

FIELD Wildcat

CONTRACTOR Berexco Drilg. Rig #1

COMM. 8-17-13 COMP. 8-31-13

RTD 5425 LTD 5418

No. of DST'S One No. of CORES None

SAMPLES SAVED FROM 3500 TO TD

DRILLING TIME KEPT FROM 3500 TO TD

SAMPLES EXAMINED FROM 3500 TO TD

GEOLOGICAL SUPERVISION FROM 3500 TO TD

GEOLOGIST ON WELL Edwin H. Brieves

FORMATION TOPS

FORMATION TOPS	SAMPLE	LOG	SURSEA
<u>Base Heebner</u>	<u>3974</u>	<u>3972</u>	<u>534</u>
<u>Loronto</u>	<u>3987</u>	<u>3983</u>	<u>545</u>
<u>Lansing Fm.</u>	<u>4024</u>	<u>4018</u>	<u>580</u>
<u>Base KC</u>	<u>4500</u>	<u>4419</u>	<u>1083</u>
<u>Marxaton</u>	<u>4545</u>	<u>4533</u>	<u>1095</u>
<u>Pawnee</u>	<u>4645</u>	<u>4627</u>	<u>1189</u>
<u>Ft Scott</u>	<u>4681</u>	<u>4671</u>	<u>1233</u>
<u>Cherokee</u>	<u>4689</u>	<u>4681</u>	<u>1243</u>
<u>Morrow Fm</u>	<u>4993</u>	<u>4975</u>	<u>1537</u>
<u>Mississippi</u>	<u>5112</u>	<u>5120</u>	<u>1781</u>
<u>TD</u>	<u>5425</u>	<u>5418</u>	



APIT#15-075-20873

ELEVATIONS
KB 3438
DF 3435
GL 3425
MEASUREMENTS ARE ALL FROM KB

CASING RECORD
8 5/8" 1083 w/ 91.

EL. LOG A.C. Res. SPR
DEM-NET-GR. Caliper
ML. Sonic

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3500 to total depth.

Hole has extreme wash outs, samples 10 to 20 feet late and string for 40 to 60 feet.

Note: E-log 7 to 10 ft high to Geological Log

*Thank you,
Edwin H. Brieves
Geologist*

LITHOLOGY

- SANDSTONE
- LIMESTONE
- SHALE
- CHERT

- SILTSTONE
- DOLOMITE
- GRANITE WASH
- ANY & GIP

CHROMATOGRAPH

HOT WIRE BY
TOTAL GAS VOLUME

- C1 = METHANE
- C2 = ETHANE
- C3 = PROPANE
- C4 = ISOBUTANE
- C5 = BUTANE
- C6 = ISOPENTANE
- C7 = PENTANE

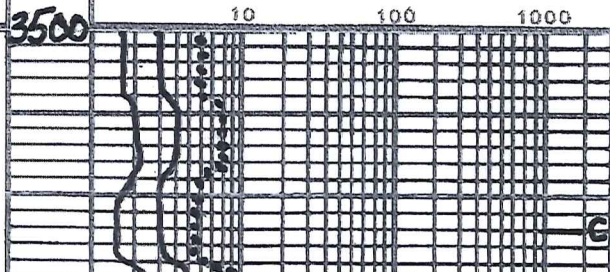
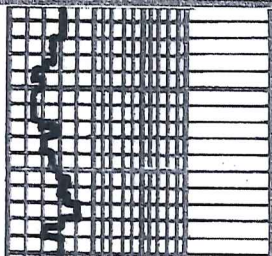
DRILL TIME SCALE

5 10 15

SAMPLE DESCRIPTION

GAS SCALE

10 100 1000



5 10 15

3500

10

100

1000

Note: 3500-3700
Samples ARE
Extremely POOR

Interbedded ~~Thin~~ Gradational
Limestones + Shales

3600

① Lms trs to 2bn wht to crm-chlk
IPs + CRM to TR; crypto to v. fr.
xln; sub-chlk, sub-sucra and
packstn; sl. to fdy. oolitic IP's
+ OR sl. to v. ool. castic IP's.;
dul. lt. to lt. yel. fluor.; No Lut;
IP's pr. fr. to good + TRS excel
oolitic POR + TRS w/ pr. to
fr. micro-por.

② Lms. lt. to med gray; sl. to extrly
shly. gradng to extrly calc shs.;
crypto. to sl. trs. uv. fr. xln.
sub-chlk for shly; sl. trs. sub-sucra
+ packstn; No fluor.; No Lut; No vis por

③ Shs. med. gray; sl. to extrly calc.
gradng to shly. Lmsts. for
sl. to v. silty gradng to shly
siltstn. lt. to med gray

Note: No Samples From
3600 to 3680 while
Displacing Hole

3700

Trap Check

WOB 3400
RPM 80-85
SPM 60
PP 1000

3800

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

Interbedded or Gradational Limestones + Shales Similar 3500-3876

Lms. tes. wht. to crn. - chlk + tan, gray, IP's crypto. to v. v. fn. xln, tes. sub-chlk, sub-sucro to v. sucro; phantom oolitic IP's dul. yel + dul. ft. to lt. yel. fluor; No cut 2bn. pr. to tr. + tes. qd. micro pp por + prob. 2bn. interxln por

Lms similar 3921-3929 w/ not as much apparent porosity

Sh v. drk. gray to black - carb
Sh lt. gray, greenish IP's to lt. green; silty. IP's

Sh similar 3974-3987 becoming extly calc
Lms. tes. wht. to crn. - chlk + tan; tes. crypto to v. v. fn. xln; tes. sub-chlk; sub-sucro to extly sucro. + tes. med to coarse, wht to clear calc. wht. + tan. dul. ft. to lt. yel. fluor; No cut. tes. pr. to fr. micro-pp por + prob. interxln por w/ tes. chert wht to lt. gray, opque

4006-27 Interbedded Limestones
(1) Faster Dalg Lms similar 3991-4006
(2) Slower Dalg Lms lt. gray to tan, gray to white xln, tes. sub-chlk, sub-sucro to v. sucro; phantom oolitic IP's dul. yel. fluor; IP's No cut; No vis. por
Sh med to v. drk gray to black
Lms. grayish-tan to tan; crypto. to v. v. fn. xln sub-sucro to v. sucro; phantom oolitic IP's dul. yel. fluor; No cut; 2bn. pr. to tr. + tes. qd. micro-pp to interxln por.

Lms. similar 4024-4033

Lms. tes. to hvy tes. wht. to crn. - chlk to lt. tan; crypto to v. v. fn. xln; sub-chlk sub-sucro to sucro; dul. ft. to lt. yel. fluor; No cut; 2bn. pr. to tr. + tes. qd. micro-pp por + prob. interxln por w/ tes. chert wht to v. lt. gray, w/ tes. foss IP's; opque

Lms lt. gray, tanish IP's; crypto. to

3800

E2

12.4

3900

Com Gas 14.4

WOB 3000
RPM 85
SPM 60
PP 1000

TRAP CHECK

Base Heebner 3884-535

Toronto 3587-549

4000

Lansing Fm 4024-586

E2

12.4?

Lms. similar 4024-4033

Lms. tan. to hv. tan. wht. to cream-chlk to H. tan; crypto to v.v. fn. xln.; sub-chlk sub-sucro to sucro; dul. H. to H. yel. fluor.; No cut; 2 bu. pet. to tr. + trs. qd. micro-pp por + prob interxln. por. w/tes chert wht. to v. H. gray, w/tes foss IP's; opaque

Lms. H. gray, tanish IP's; crypto. to v.v. fn. xln.; sub-sucro to packstn dul. yel. fluor. IP's; No cut; No vis for

Interbedded Limestones

4100

① Faster Drlg Lms. tan. wht to cream-chlk + tan; v.v. fn. to v. fn. xln.; sub-sucro to sucro; 2 bu. phantom oolitic to oolitic + tan. phantom oolitic; trs. foss. IP's dul. yel. to tes yel. fluor.; No cut; 2 bu. pet. to tr. + trs. qd. to excel. pp. micro-pp to interxln. for.

② Slower Drlg Lms. grayish-tan to tan; crypto. to v.v. fn. xln.; sub-sucro to packstn. dul. yel. fluor.; No cut; No vis for

Lms. H. gray to tan; crypto. to v.v. fn. xln. tes. sub-sucro. + packstn.; sli. tes. med. wht. to clear calc. xls + frzgn. IP's; dul. H. to H. yel. fluor.; No cut; No vis for. w/tes chert wht to tan opaque

WOB 31000-36000
RPM 80-85
SRM 60
PP 1000

Interbedded Lms. + scattered thin Shs

4200

① Faster Drlg. Lms. tan, crypto. to v.v. fn. xln. sub-chlk, sub-sucro to sucro; dul. yel. to yel. fluor.; No cut; hv. tes. pr. to tes. pr. micro-pp por + poss interxln. por. IP's

② Slower Drlg. Lms. grayish-tan to tan; crypto. to v.v. fn. xln.; sub-sucro + packstn. dul. yel. fluor.; No cut; No vis for.

③ Prob. thin scattered Shs med. to dark gray; calc. IP's.

Sh med. to v. dark gray

Lms. similar #2 (4196-4254)
Lms. tes. wht to cream-chlk + tan; crypto. to v.v. fn. xln.; v. oolitic to sli. oolitic; matrix sub-chlk, sub-sucro + packstn. dul. H. to yel. fluor.; No cut; trs. pr. to sli. tes. fr. micro-pp. por.

Lms. tes. H. gray-chlk + grayish-tan to tan; crypto. to v.v. fn. xln.; tes. sub-chlk; sub-sucro + packstn. w/tes. sub-lithogr. phantom oolitic IP's; dul. H. to H. yel. fluor. No cut; No vis for. w/poss scattered thin Shs; med. to v. dark gray; calc. IP's

4300

Lms. tes. wht to cream-chlk + tan; crypto. to v.v. fn. xln.; sub-chlk sub-sucro to sucro; phantom oolitic IP's; dul. yel. fluor.; No cut; 2 bu. pet. to tr. + trs. qd. micro-pp. to interxln. por.

Lms. similar 4272-4321

Lms. grayish-tan to tan; crypto. to v.v. fn. xln.; v. oolitic to sli. oolitic; matrix sub-sucro + packstn. dul. yel. to yel. fluor.; No cut; hv. tes. pr. oolitic; pp. + micro-pp por.

Lms. tes. wht to cream-chlk + tan; crypto. to v.v. fn. xln.; v. oolitic to sli. oolitic; matrix tes. sub-chlk; sub-sucro + packstn. dul. yel. to yel. fluor.; No cut; hv. tes. pr. oolitic; pp. + micro-pp por.

TRAP CHECK

IPs, dul. yel. fluor.; Nolcut, 2bn. pct to
+ tres. gl. MICRO-qa. to interxln. por
Lms. similar 4272-4321

Lms. grayish. tan to tan; crypto to
v. v. fn. xln.; v. oolitic for sl. oolitic;
matrix sub-sucro. packstn. dul yel. to
yel. fluor.; Nolcut; huy. tres. pr. oolitic, pp.
+ micro-pp por

Lms. fns. wht. to crm. sh. lgt tan; crypto to
v. v. fn. xln.; extly ool. castic for sl.
oolitic; matrix tres sub-chlk, sub-sucro
+ packstn. dul. H. yel. fluor.; Nolcut; tres. pr.
+ 2bn. pct to extly oolitic for

Lms. grayish. tan to tan; crypto to
v. v. fn. xln.; tres sub-chlk, sub-sucro
to packstn. v. dul. H. yel. fluor.; Nolcut
No Vis. Por w/ tres chert gray to tan; arguc
sh v. drk. gray to black - carb
sh med to v. drk. gray - sl. to extly calc

Interbedded for Gradational Limestn.
Lms. tan; crypto. to v. v. fn. xln.; sub-chlk,
sub-sucro, packstn. tres sub-lithogr
dul. H. yel. to dul yel. fluor.; Nolcut, No Vis. Por

Lms. lt. gray. to grayish tan; crypto to
v. v. fn. xln.; tres sub-chlk, sub-sucro
+ packstn.; dul. H. yel. fluor.; Nolcut
No Vis. Por.

Interbedded for Gradational Limestn
similar 4380-4416 w/ huy
tres to v. zbn. lt. gray, crm. to
tan-chlk

Sh H, med to drk gray; sl. to extly
calc grading to shly limests;
very silty IP's

Lms. lt. to tres med gray, tanish IP's
to tres tan; crypto to v. v. fn. xln.;
tres. sub-sucro., packstn. to
zbn. sub-lithogr.; huy. tres.
dul. H. yel. fluor.; Nolcut
No Vis Por

TRAP CHECK

BLK SH THK

Base Kansas City
4500-1062

Marmaton
4545-1107

TRAP CHECK

WOB 36000
RPM 80
SPM 60
PP 1000

(2)

WOB 35000
RPM 90
SPM 60
PP 1000

Sh med. to v. drk gray - sli. to fely calc. TP3

PAWNEE
4645-1207 = C

Lms. similar 4545-4640

FISCOIT
4681-1243

Sh v. drk. gray to black - carb.

BLK SH 126

Lms similar 4545-4640

Sh v. drk gray to black - carb.

BLK SH 116
Cherokee Fm
4689-1257

4700

Interbedded or Gradational
Limestones & Shales

① Lms grayish tan to tan; crypto to v. v. fu. xln.; trs. sub-chlk, sub-succo pckstn & trs. sub-lithogr.; dul H. yel to dul. yel. fluor; No Cut; No Vis For.

4800

② Lms H. gray to tan med gray - sli to fely shly; crypto to v. v. fu. xln.; trs. sub-chlk for shly; pckstn & sub-lithogr.; v. sh. trs sub-succo; No fluor; No Cut No Vis For

③ Sh med to v. drk gray - sli to extly. calc.

④ Sh v. drk gray to black - carb

Note V. Abu Red & Green Shales in Samples Prob. From Above

4900

4900

MORROW FM
4993-1555

Sh. v. drk gry. to black-carb

WOB 35000
RPM 70-75
SEM 54
PP 800

5000

Shale med. gry to drk gry splintery
greenish lps to trs H green and
olive grn w/ sl. trs Sdst v.v. fine
ang w/ med gry sh. filling &
sl. trs Sdst. trn; v.v. fine, ang.
v. to extra clay filled; w/ drk gry
mineral qns lps + huy. finely
disseminated muscovite micz;
No fluor; No cut; No vis pore

Sh med. gry-trs w/ silky luster
and drk gry-splintery;
sl. to very pyritic

Lms. H. to med gry totan; crypto. to
v.v. fine. xlu; huy. trs to abn Lm trs
+ foss frags w/ trs oolites;
matrix trs chlk, sub-chlk,
pach. trn. + trs, sub-lithogr.
trs. dul. H. vel. fluor; No cut; No vis pore
Sample 97 to MORROW Sh !!

Interbedded Shs & Limestones
① Shs similar 5029-5055
② Lms similar 5055-5077

5100

Lms. similar 5055-5077

Shales w/ prob thin interbeds
Limestones
① Shs similar 5029-5055
② Lms similar 5055-5077

DS
T
#



Sdst Qtz wht to off wht v.v. fine to fine
w/ trs med to coarse carb

Can Gas
600

#2 Lms similar 5055-5077

Sdst Qtz wht to off wht v.v. fn to fn. gr
w/ tr med. to coarse gas, aug. j
v. poorly to fr. trs good sort
zbn. clay filling; sl. trs glauc. IPS
No fluor; No cut; trs fr. good rate gr.
POR; hv trs loose Qtz gas, aug. etc
to sl. frosted

Lms tan; crypto. to v.v. fn. xln
frly to extly oolitic (sm, med + lg)
matrix trs sub-chalk, sub-sucro
+ packstn; du. Hye/ to du. yel
fluor; No cut; No vis POR

Lms trs sl. to fully dolomitic; tanto
drk. tan, grayish IPS; crypto to
v.v. fn. xln; zbn. oolitic (sm, med + lg)
to phantom oolitic ledites revbeds
matrix trs. sub-chalk, sub-sucro
+ packstn; hv trs to zbn. du. yel
fluor; No cut; No vis POR; v. sl. trs
chert gray to tan, opaque

Lms H. gray to drk. tan; crypto. to
trs. v.v. fn. xln; trs sub-sucro,
packstn. to sub-lithographic;
v. sl. trs du. yel. fluor; No cut;
No vis POR

TD 5425

7 7/8 inch Bit Info: in out
@ New Smith F124 1083 5299
@ ReRun Smith F27IV 5299 5425 TD

Cir. Points:
1. 4970 4. 5015 7. 5220
2. 4990 5. 5030 8. 5299
3. 5000 6. 5050 9. 5425

Dev. Surv:
1 1080 3/4 3. 3929-10 5. 5425 1/2 TD
2 2516 1/2 4. 5299-10

Daily Drilg. Progress:
1. 3337 At 7:00 AM 8-24-13
2. 3500 At 1:44 PM 8-24-13
3. 3925 At 7:00 AM 8-25-13

5200

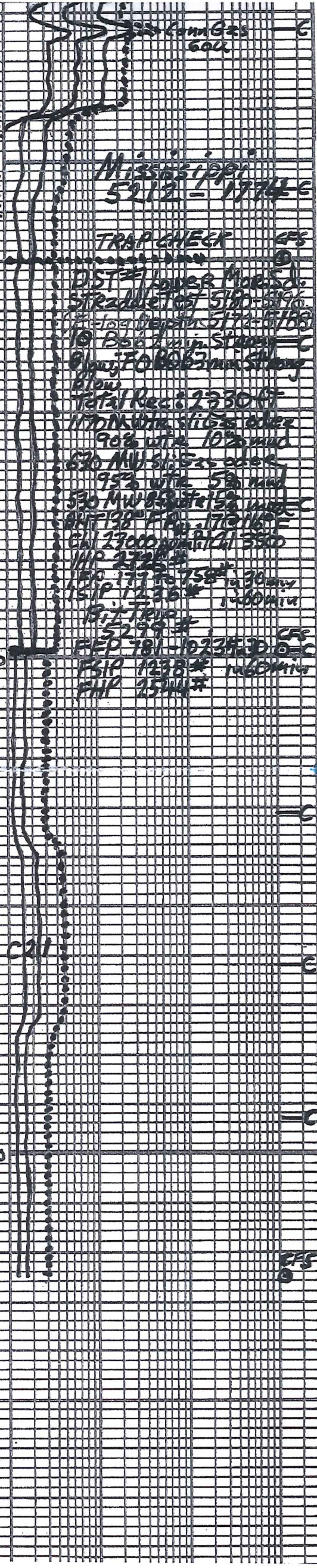
5300

5400

Mississippi
5212 - 1974 - C

TRAP CHECK CFS

DSTF Lower Mord. Sd.
Straddle test 5190-5196
Flow depth 5172-5188
10 Bsh 2 min Spore
Flow FO 8063 min Strong
Flow
Total Rec: 2330 CF
170 MW 10 1/2 in 10 1/2 in
908 wtr 10 1/2 in
630 MW 8 1/2 in 8 1/2 in
953 wtr 5 1/2 in
530 MW 8 1/2 in 8 1/2 in
417 138 # 170 116 #
Chl 2300 # 116 # 350
HP 272 #
179 # 758 # 30 min
151 # 1236 # 130 min
Bit Trap #
5299 #
REP 781-102353 D=C
FSP 1238 # 1060 min
FHP 2544 #



v. 21. TRS v. 21. TRS
No Vis POR

5400

TD 5425

7 7/8 inch Bit Info: in
 @ New Smith F124 1083 5299
 @ ReRun Smith F271YV 5279 5425 TD

Cir. Points:
 1. 4970 4. 5015 7. 5220
 2. 4990 5. 5030 8. 5299
 3. 5000 6. 5050 9. 5425

Dev. Surv:
 1 1080-3/4 3. 3929-10 5. 5425 1/2 TD
 2 2516 1/2 4. 5299-10

Daily Drig. Progress:
 1. 3337 At 7:00 AM 8-24-13
 2. 3500 At 1:44 PM 8-24-13
 3. 3905 At 7:00 AM 8-25-13
 4. 4313 At 7:00 AM 8-26-13
 5. 4709 At 7:00 AM 8-27-13
 6. 5000 At 7:00 AM 8-28-13
 7. 5241 At 7:00 AM 8-29-13
 8. 5388 At 7:00 AM 8-30-13
 9. 5425 At 7:00 AM 8-31-13

Mud Info:

Date	8-23 7:20A	8-24 12:45A	8-25 12:15P	8-26 11:30A	8-27 11:00A	8-28 11:30A	8-29 8:55A	8-30 8:30
Depth	2863	3470	4001	4395	4762	5019	5272	5425
Wt.	9.6	9.7	9.0	9.2	9.4	9.4	9.5	9.5
Vis	33	31	60	54	51	55	56	47
PV	-	-	18	17	16	17	17	15
YP	-	-	22	21	19	21	21	18
GS	-	-	16/45	14/40	14/37	15/40	16/42	12/35
WL	-	-	7.2	8.8	8.0	8.0	8.0	8.8
cake	-	-	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	7.0	10.5	11.0	10.5	11.5	10.5	10.5
Chl	4000	28000	3000	4000	3800	3600	3400	3500
C2	Huy	Huy	40	40	40	40	40	40
LCM	2	1	3	3	3	3	2	2

OPERATOR BEREXCO LLC LOCATION 2521' FSL + 1885' FWL
 LEASE J-G Unite NO. 1-13 SEC. 13 TWP. 22S RANG. 39W
 ELEVATION 3438 KB RTD 5425 COUNTY Hamilton STATE Kansas

ALLIED OIL & GAS SERVICES, LLC 061248

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Daklog/Ky

DATE <u>8/22/13</u>	SEC <u>13</u>	TWP <u>22</u>	RANGE <u>39</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30</u>	JOB FINISH <u>10:53</u> ✓
LEASE <u>J-G unit</u>	WELL# <u>1-13</u>	LOCATION <u>Kendall Non P&A to Rd 10 1/2 W</u>			COUNTY <u>HAMILTON</u>	STATE <u>KY</u>	
OLD OR NEW (Circle one) <u>NEW</u>		N/A					

CONTRACTOR Berexco 2

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>1080</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>1063</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42053</u>
CEMENT LEFT IN CSG. <u>42.53</u>	
PERFS.	
DISPLACEMENT <u>66 ABC</u>	

OWNER Same

CEMENT

AMOUNT ORDERED 350 BK 65/35 670 gal 237 cc
1/4 Flu Seal
150 Com 379 cc 2070 gal

COMMON <u>328 SK</u>	@ <u>17.90</u>	<u>6266.20</u>
POZMIX <u>123 SK</u>	@ <u>9.35</u>	<u>1150.05</u>
GEL <u>21 SK</u>	@ <u>23.90</u>	<u>491.90</u>
CHLORIDE <u>17 SK</u>	@ <u>64.00</u>	<u>1088.00</u>
ASC	@	
<u>Flu Seal 88 lb</u>	@ <u>2.97</u>	<u>261.36</u>
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>564.703 CF</u>	@ <u>2.48</u>	<u>1400.46</u>
MILEAGE <u>2 hr 700/mile 24.04570W</u>		<u>7814.65</u>
TOTAL		<u>18972.10</u>

REMARKS:

Run log, Run log, Circulate, mix w/ps, Tail w/ con 3/2, Displace w/ 66 ABC w/ 1400 PSI SET. bump Plug 12:00 P.M.

Shut in Post Well

Cement did Circulate

15 ABC top it

Thank You
Alan, Wayne, Kevin, Sherry

CHARGE TO: Berexco

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>1063</u>		
PUMP TRUCK CHARGE		<u>2213.25</u>
EXTRA FOOTAGE	@	
MILEAGE <u>125</u>	@	<u>962.00</u>
MANIFOLD <u>at head</u>	@	<u>275.00</u>
<u>Castellote 125</u>	@	<u>550.00</u>
	@	
TOTAL		<u>4001.25</u>

PLUG & FLOAT EQUIPMENT

<u>Insert - AFU</u>	1	@ <u>446.00</u>	<u>446.00</u>
<u>Bracket</u>	1	@ <u>559.25</u>	<u>559.25</u>
<u>Anti-bleeders</u>	3	@ <u>74.80</u>	<u>224.40</u>
<u>Rubber Plug</u>	1	@ <u>131.00</u>	<u>131.00</u>
	@		
TOTAL			<u>1361.65</u>

SALES TAX (If Any) _____

TOTAL CHARGES 2,4335.20

DISCOUNT 6,813.85 IF PAID IN 30 DAYS

17,521.34 Net

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

PRINTED NAME Jorge Montes

SIGNATURE Jorge Montes



CEMENTING LOG

STAGE NO. _____

Date 8/20/13 District Dakota Ticket No. 061248
 Company Barexco Rig Barexco
 Lease J G Unit Well No. 1-73
 County Hamilton State Ky
 Location _____ Field _____

CEMENT DATA:

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

LEAD: Pump Time _____ hrs. Type 65/35 370CC 670 gpd
114FW Excess _____

Amt. 350 Skys Yield 1.18 ft³/sk Density 12.2 PPG _____

TAIL: Pump Time _____ hrs. Type 65/35 370CC 670 gpd
 Excess _____

Amt. 100 Skys Yield 1.34 ft³/sk Density 15.2 PPG _____

WATER: Lead 10.5 gals/sk Tail 6.5 gals/sk Total _____ Bbls. _____

Pump Trucks Used 3.22
 Bulk Equip. 600
506

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG _____
 Mud Type _____ Weight _____ PPG _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8.518 Type New Weight 24 Collar _____

Casing Depths: Top KB Bottom 1063.84

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.0637 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

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

COMPANY REPRESENTATIVE Milo Gilman

CEMENTER ABL

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						In location, 577, mty, set up
						Run log
						Run log - Circulate
				88	3.0	mix 35065/35 370cc 670 gpd 114FW
				23.25	3.0	mix 15065/35 370cc 670 gpd
	4000			60.0	5.0	displace w/ H ₂ O
	1200					Shut in - hand plug
						Shut in
10:30 am						Job Complete
						Can't do it
						Circulate
						Thank you



CEMENTING LOG

STAGE NO. _____

Date 9/1/13 District Ogkly Ticket No. 061261
 Company Bureau Rig Bertha 2
 Lease J-6 459 Well No. 1-13
 County Harris State TX
 Location _____ Field _____

CEMENT DATA:

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

LEAD: Pump Time _____ hrs. Type 60/40 4200
14 PLO Excess _____

Amt. 170 Sks Yield 1.42 ft³/sk Density 13.83 PPG

TAIL: Pump Time _____ hrs. Type _____
 Excess _____

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

WATER: Lead 6.9 gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 423-281
 Bulk Equip. 347

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight _____ Collar _____

Casing Depths: Top 0.0 Bottom 1063.84

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
718 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. .01422 Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Milo Salinas

CEMENTER AA

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE-CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						On location 5 P.M. Antz Set up
				5.0	4.0	H2O Spacer
				8'14"	3.0	Mix 50 SK @ 2160'
				8'14"	3.0	Mix 50 SK @ 1100'
				3	3.0	Mix 20 SK @ 60'
				5	3.0	Mix 30 SK RH
				3	3.0	Mix 20 SK MH