

**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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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 Letter of Confidentiality Received

Date: _____

 Confidential Release Date: _____ Wireline Log Received Geologist Report Received UIC DistributionALT I II III Approved by: _____ Date: _____



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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Tate A 2-12
Doc ID	1073808

Tops

Name	Top	Datum
Heebner Shale (base)	4020	-1115
Toronto	4031	-1126
Lansing	4061	-1156
Marmaton	4606	-1701
Pawnee	4708	-1803
Fort Scott	4744	-1839
Cherokee	4760	-1855
Morrow	5003	-2098
Chester	5104	-2199
St. Genevieve	5152	-2247
St. Louis	5126	-2321
RTD	5404	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Tate A 2-12
Doc ID	1073808

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1804	60/40 POZ	600	8%gel,3% cc,1/4#flakes
Surface	12.25	8.625	24	1804	Common	150	3% cc
Production	7.875	5.50	15.50	5400	60/40 POZ	30	8%gel,1/4 #flakes
Production	7.785	5.50	15.50	5400	ASC	270	2%gel,10 %salt,6#Gilonite

Summary of Changes

Lease Name and Number: Tate A 2-12

API/Permit #: 15-081-21963-00-00

Doc ID: 1073808

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	12/08/2011	02/10/2012
Date of First or Resumed Production or SWD or Enhr		01/07/2012
Method Of Completion - Other	Yes	No
Method Of Completion - Other Detail	Temporarily Abandoned	
Producing Method Pumping	No	Yes
Production - Barrels Oil		25
Production - Barrels of Water		13
Production - Oil Gravity		38
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1069640	../kcc/detail/operatorEditDetail.cfm?docID=1073808



CONFIDENTIAL

WELL COMPLETION FORM

Form Must Be Typed
Form must be Signed
All blanks must be Filled

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1069640

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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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ADDITIONAL CEMENTING / SQUEEZE RECORD				
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_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Tate A 2-12
Doc ID	1069640

Tops

Name	Top	Datum
Heebner Shale (base)	4020	-1115
Toronto	4031	-1126
Lansing	4061	-1156
Marmaton	4606	-1701
Pawnee	4708	-1803
Fort Scott	4744	-1839
Cherokee	4760	-1855
Morrow	5003	-2098
Chester	5104	-2199
St. Genevieve	5152	-2247
St. Louis	5126	-2321
RTD	5404	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Tate A 2-12
Doc ID	1069640

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1804	60/40 POZ	600	8%gel,3% cc,1/4#flakes
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Production	7.875	5.50	15.50	5400	60/40 POZ	30	8%gel,1/4 #flakes
Production	7.785	5.50	15.50	5400	ASC	270	2%gel,10 %salt,6#Gilonite

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

December 05, 2011

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

Re: ACO1
API 15-081-21963-00-00
Tate A 2-12
NE/4 Sec.12-27S-33W
Haskell 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. 036534

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
L. BERAL Ks

DATE <u>9-1-11</u>	SEC. <u>12</u>	TWP. <u>27</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30 AM</u>	JOB FINISH <u>2:00 AM</u>
LEASE <u>TATE</u>	WELL # <u>2-12A</u>	LOCATION <u>Finney Haskell Line</u>			COUNTY <u>Haskell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>Winto</u>				

CONTRACTOR BREXECO #2

TYPE OF JOB 8 5/8

HOLE SIZE 8 5/8 T.D. 1806

CASING SIZE 8 5/8 24# DEPTH 1806'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 900 PSI MINIMUM 0

MEAS. LINE SHOE JOINT 42.57'

CEMENT LEFT IN CSG. 42.57'

PERFS.

DISPLACEMENT 112.2 BBL

EQUIPMENT

PUMP TRUCK CEMENTER BOB

352 HELPER DAVID

BULK TRUCK

456/239 DRIVER RUBIN

BULK TRUCK

457/251 DRIVER

OWNER SAME

CEMENT

AMOUNT ORDERED 600 SK 60/40 8%

GEL 3% CC V FLOREAL

150 A 300 CC

COMMON 150 A @ 16.25 2437.50

POZMIX @

GEL @

CHLORIDE 25 SK CC @ 58.00 1450.00

ASC @

600 CTE @ 14.50 8700.00

@

@

FLOREAL 150 LB @ 2.70 405.00

@

@

HANDLING 78/ @ 2.45 1757.50

MILEAGE SK/mi x .11 4295.50

TOTAL 19850.25

REMARKS:

THANK YOU

Circle cwt to

SURFACE

CHARGE TO: BREXECO

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 1806'

PUMP TRUCK CHARGE 1925.00

EXTRA FOOTAGE @

MILEAGE 100 mi @ 7.00 700.00

MANIFOLD + HEAD @ 200 200.00

CT UEL mi 100 mi @ 4.00 400.00

@

TOTAL 3225.00

8 5/8

PLUG & FLOAT EQUIPMENT

1 BASKET @ 478.00

1 - AFU @ 382.00

1 - 5W plug @ 112.00

3 - CENTRALIZERS @ C4 192.00

@

TOTAL 1164.00

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.

PRINTED NAME Gilbert Davila Jr

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES 23439.25

DISCOUNT IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 036478

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Liberal KS.

DATE <u>9-18-11</u>	SEC. <u>12</u>	TWP. <u>27</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 Am</u>	JOB FINISH <u>2:30 Am</u>
LEASE <u>Tate</u>		WELL# <u>2-12A</u>		LOCATION <u>Vec Sublette KS.</u>		COUNTY <u>Haskell</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Berexco #2

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 5400

CASING SIZE 5 1/2 DEPTH 5363

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL @ _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 42.15

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT

AMOUNT ORDERED 270^{SK} ASC

65^{SK} 60/40

COMMON _____	@ _____	_____
POZMIX _____	@ _____	_____
GEL _____	@ _____	_____
CHLORIDE _____	@ _____	_____
ASC <u>270</u>	@ <u>19.00</u>	<u>5130.00</u>
<u>Kolseal 1620</u>	@ <u>.89</u>	<u>1441.80</u>
<u>Flo Seal 25</u>	@ <u>2.70</u>	<u>67.50</u>
<u>Light Weight 65</u>	@ <u>14.50</u>	<u>942.50</u>
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING <u>368</u>	@ <u>2.25</u>	<u>828.00</u>
MILEAGE _____	_____	<u>2024.00</u>
TOTAL		<u>10433.80</u>

EQUIPMENT

PUMP TRUCK CEMENTER Kenny

372 HELPER Jose

BULK TRUCK

457-251 DRIVER Kenny

BULK TRUCK

_____ DRIVER _____

REMARKS:

THANK YOU!!!

CHARGE TO: Berexco

STREET _____

CITY _____ STATE _____ ZIP _____

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 Gilbert Davila Jr

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 2695.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 50 @ 7.00 350.00

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL 3045.00

PLUG & FLOAT EQUIPMENT

<u>Centralizer 16</u>	@ <u>37.00</u>	<u>592.00</u>
<u>Bucket 1</u>	@ <u>178.00</u>	<u>178.00</u>
<u>Port Collar 1</u>	@ <u>2600.00</u>	<u>2600.00</u>
<u>Float shoe 1</u>	@ <u>232.00</u>	<u>232.00</u>
<u>Baffle & latch down plug 1</u>	@ <u>154.00</u>	<u>154.00</u>
TOTAL		<u>3750.00</u>

SALES TAX (If Any) _____

TOTAL CHARGES \$ 17228.80

DISCOUNT \$ 13266.18 IF PAID IN 30 DAYS

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY BEREXCO LLC
 LEASE TATE "A" NO. 2-12
 LOCATION 22201FNL & 335FEL
 SEC. 12 TWP. 27W RNG. 33W
 COUNTY HASKELL STATE KANSAS
 FIELD KISNER SOUTH

ELEVATIONS
 KB 2905
 DF 2902
 GL 2892
 MEASUREMENTS ARE
 ALL FROM KB

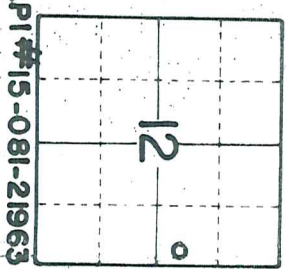
CONTRACTOR BEREDCO DRLG. RIG NO. 2
 COMM. 8-30-2011 COMP. 9-17-2011
 RTD 5400 LTD 5404
 No. of DST'S 4 No. of CORES NONE

SCASING RECORD
 8/8 dt 1802 w/ sx.
 dt w/ sx.
 dt w/ sx.
 dt w/ sx.
 EL. LOG ARIND-SP-GR
DENN-UT-GR-CALIPER
ML-SONIC

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

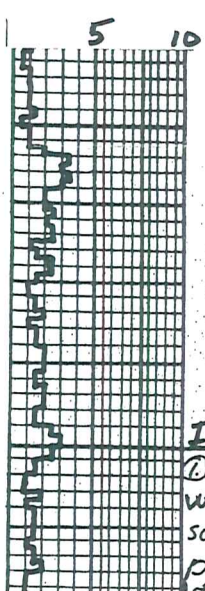
FORMATION TOPS
 BASE HEEBNER
TORONTO
LANSING FM.
MARMATON
PAWNEE
FT. SCOTT
CHEROKEE
MORROW FM.
CHESTER FM.
ST. GENEVIEVE
ST. LOUIS
TD

SAMPLE	LOG	SUBSEA
4017	4031	-1115
4029	4061	-1126
4060	4606	-1156
4600	4707	-1701
4707	4708	-1803
4744	4744	-1839
4759	4760	-1855
5000	5003	-2098
5101	5104	-2199
5162	5152	-2247
5229	5126	-2321
5400	5404	



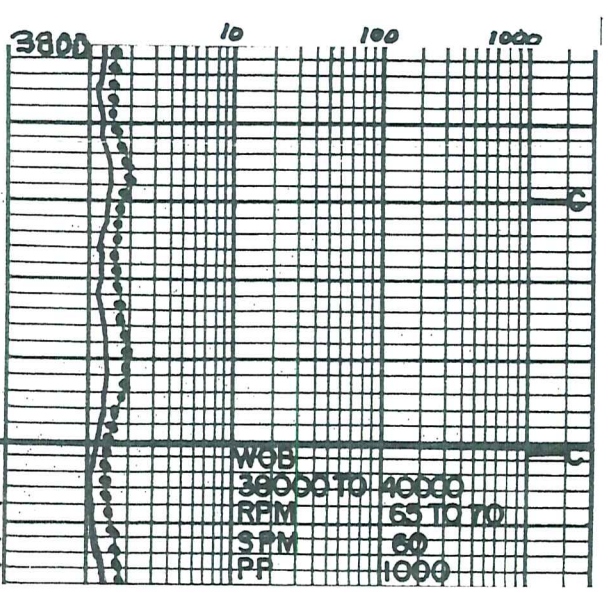
REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3800 feet to total depth.

Thank you,
 Edwin H. Grievess
 Geologist



Interbedded Limestones

① Faster Drlg Lms. v. to extrly. chiky. crm. to wht. & crm. to lt. tan; crypt. to v. fn. xly. sub-chlk, sub-sugro. to sugro & trs. pzkstn.; phzatom oolitic to oolitic



WOB 38000 TO 40000
 RPM 59 TO 70
 SPM 98
 PP 1000

oolitic IP's; dul. H. to H. yel. fluor
 No Cut; tr to huy. trs. pr to tr micropp
 por. IP's + poss interxln por IP's
 (2) Slower Delg. Lms. tan, gryish. IP's; crypto
 to v.v. fn. xln.; sub-chlk, sub-sucro +
 packstn.; dul. H. to H. yel. fluor; No Cut
 No Vis. por.

3900

4000

Base Heber
 4017-1112

BLK. SH. III

Toronto
 4029-1124

Lansing Fm.
 4060-1155

Sh black - carb
 4017-19 Lms. crm. to tan; crypto to v.v. fn.
 tr.; sub-sucro, packstn. to trs. sub-lithogr.
 dul. H. yel. fluor; No cut; No Vis por

Sh H. gray to H. green
 Lms. abn. wht. to crm. - chlk + crm to tan
 sub-chlk, sub-sucro. to sucro; dul. yel. to
 yel. fluor. No cut; abn. pr. to trs. tr. micropp
 por. + poss interxln por. IP's; abn chert
 grays. opaque
 interbedded limestones

Lms. crm to tan; crypto to v.v. fn. xln.; sub-chlk,
 sub-sucro + packstn.; dul. H. yel. fluor; No cut
 No Vis por
 Lms. tanish gry. to H. tan; crypto to v.v. fn. xln.; shly
 sub-chlk + shly; sub-sucro + packstn.; dul. yel. fluor
 IP's; No cut; No Vis por

Lms. tan, gryish. tan to tanish gry.; crypto
 to v.v. fn. xln.; trs. sub-chlk, sub-sucro,
 packstn + trs. sub-lithogr.; dul. H. yel
 to dul. yel. fluor; No cut; No Vis por

Lms. tan, gryish. IP's; crypto. to v.v. fn. xln.
 sub-sucro + packstn.; v. dul. yel. fluor;
 No cut; No Vis. por
 Lms. trs. wht. to crm chlk + tan; w. fn. xln. sub-sucro to
 sucro; phantom oolitic IP's; dul. H. yel. to dul. yel.
 fluor; No cut; abn. pr. to trs. tr. micropp. por. +
 poss. interxln. por. IP's; trs. chert grays - opaque

4100

Lms. gryish. 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.

Lms. abn. wht. to crm chlk + tan; crypto. to v.v. fn. xln.
 trs. sub-chlk., sub-sucro. to sucro; trs. phantom
 oolitic to shly. oolitic; dul. H. yel. fluor; No cut;
 trs. pr. to trs. tr. oolitic; oolitic por. abn.
 abn. pr. to trs. tr. oolitic; oolitic por. abn.
 poss. interxln. por. IP's
 Lms. H. gry., tanish IP's. crypto. to v.v. fn. xln.; trs.
 sub-chlk, sub-sucro., packstn + sub-lithogr.
 trs. phantom oolitic; dul. yel. fluor; No cut;
 No Vis. por.; w/huy. trs. chert grays to tan; opaque

Sh med to v. drk gry - calc to blk - carb
 Lms. abn. wht. to crm - chlk. w/ chlk oolites
 IP's + tr. ory. to tan; crypto to v.v. fn. xln.;

sub-chlk; sub-sucro. to sucro. + packstn; sl. to extly. Phzntam politic to tes oolitic
dul. yel. fluor.; No Cut; TRS. PR to FR
micro - pp. POR.

4200

TRAP CHECK

Lms. lt. gray to tan; crypto. to v.v. fn. xln.; TRS.
sub-chlk; sub-sucro, packstn + TRS sub lithogr.
dul. yel. fluor.; No Cut; No Vis. POR.

Lms. lt. to med. gray; crypto. to v.v. fn. xln
sl. to very shly; TRS. sub-chlk for shly.
TRS sub-sucro + packstn; TRS. v. dul. yel.
fluor.; No Cut; No Vis. POR.

Lms. abn. wht. to cream. chlk + tan, grayish. IP's
crypto. to v.v. fn. xln. v. to extly. oolitic
+ for sl. to fol. oolitic; matrix TRS sub-chlk,
sub-sucro + sucro + packstn; dul. yel. fluor
No Cut; abn. pr. te. gd. to excel oolitic POR
Prob. No PERM.

Lms. similar 4207-4222

Lms. similar 4241-4261 w/
less oolitic in bottom of zone
and more oolitic

4300

Lms. similar 4207-4222

Sh. lt. to med. gray; sl. to extly. calc

Lms. similar 4207-4222

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

BLK. SH. 16U

Lms. lt. to med. gray - shly. to tan; crypto
to v.v. fn. xln.; sub-chlk for shly. IP's;
sub-sucro, packstn + TRS. sub lithogr.
dul. lt. yel. to dul. yel. fluor.; No Cut
No Vis. POR.

RECYCLE 3U

4400

Sh. H. gray. to H. green; sl. to fny. calc

Lms. H. gray to tanish gray; crypto. to
v.v. fn. xln.; v. abn. sub-chlk, TRS.
sub-sucro + packstn; dul. yel. fluor.
No Cut; No Vis. POR.

Lms. grayish. tan to tan; crypto
to v.v. fn. xln.; sub-chlk; sub-sucro
to sucro; dul. yel. fluor.; No Cut; huy TRS
poor to fair micro - p.p. POR.

Lms. similar 4417-4444

Kansas City 440
4466-1561

Sh. v. drk. gray to black-carb
Lms. lt. to med. gray - sl. to extly. shly; crypto
to v.v. fn. xln.; sub-chlk for shly, TRS sub-sucro
+ packstn; dul. yel. fluor. IP's; No Cut; No Vis. POR.
Lms. tan, wht. to cream - chlk + tan, grayish. IP's
crypto. to v.v. fn. xln.; extly. oolitic + for
sl. to fol. oolitic; matrix TRS sub-chlk, sub-sucro
to sucro + TRS. packstn; dul. yel. to
glan. yel. fluor.; No Cut; abn. pr. te. gd.
to excel oolitic + huy. TRS. pr. to
TRS. FR micro pp + poss. intery. POR.

BLK. SH. 30U

4402-4512 Lms. H. gray. to tan; crypto.
to v.v. fn. xln.; sub-chlk. sl. TRS sub-sucro
+ packstn. + sub lithogr.; v. dul. yel. fluor.
No Cut; No Vis. POR.

4500

sh. black-carb

BLK. SH. 24U

Lms. 2bn. wht to crm-chlk & H. gray. to tan
 crypto to v.v. fn. xln; sl. to v. oolitic and por
 sl. oolitic; matrix: trs. sub-chlk, sub-sucro
 to sucro & packstn.; dul. yel. to tan yel
 fluo. No cut; 2bn. pr to fr. oolitic &
 micro-pp. por.; Quest. Perm. w/ huy trs
 chert grays; opaque
 4526-4556 Lms. trs. wht to crm-chlk
 & H. gray; tanish IP's; sub-chlk, sub-sucro,
 packstn & trs. sub-litho gr.; sl. to
 fr. sh. IP's; dul. yel. fluo. No cut
 No vis por

Sh. med. to dark gray; sl. to extly. calc.
 Lms. H. to med. gray; v. to extly shly. to
 tan; crypto xln; packstn. to sub-litho gr.;
 tan's have dul. yel. fluo. No cut;
 No vis por

Sh med to dark gray. v. to extly calc
 grading to shly Limestones
 4600-4610 Lms. tan w/ even brn. oilst.
 v. fn. to v. fn. xln. w/ sl. trs. in. calc. xln. & frage
 prob along fractures; sub-sucro to sucro

sl. trs. foss; huy trs. oolitic; huy trs. phantom
 oolitic; strong oil odor; yel. to glau. yel.
 fluo. No cut; flush to excel. staining. cuts; 2bn. pr
 to fr. huy trs. gd. to excel. vugular, pp, micro-pp
 & interxy. por. w/ prob. fracturing
 4610-4628 Lms. H. gray to tan; crypto. to v.v. fn. xln; sub-chlk
 trs. sub-sucro & packstn.; phantom oolitic IP's
 dul. yel. fluo.; No cut; No vis por
 4628-4636 Lms. tan to trs. H. gray; crypto
 to v.v. fn. xln.; sub-sucro to sucro & packstn.
 to sub-litho gr.; solution & recrystallization; trs
 oolitic; trs. phantom oolitic; trs. foss.
 fat. to fr. oil odor; sp. to tan to brown w/ trs. blk
 oil sm. H. yel. yel. & glau. yel. fluo.; molled
 flush tag. staining cuts; 2bn. pr to fr.
 huy trs. gd. to sl. trs. excel. vugular, pp,
 micro-pp & interxy. por. in jugst
 along fractures; v. Quest. Perm.

4636-53 Lms. sl. trs. wht to crm-chlk & H. gray to
 tanish gray; crypto xln; sub-chlk, packstn
 & sub-litho gr.; dul. yel. fluo. No cut
 No vis por

4653-71 Lms. huy trs. to 2bn. wht to crm-chlk
 & tan; crypto. to v.v. fn. xln; sub-chlk, sub-sucro
 & packstn.; phantom oolitic IP's to oolitic IP's;
 dul. yel. fluo.; No cut; No vis por; v. sl. trs. chert
 gray - opaque
 Lms. extr. 2bn. wht to crm-chlk & crm. v. H. trs;
 crypto to v.v. fn. xln.; sub-chlk, sub-sucro to trs
 sucro & packstn.; phantom oolitic IP's to trs. oolitic
 dul. H. to tan. H. yel. fluo.; No cut; 2bn. pr to fr. trs
 gd. micro-pp por.

Lms. trs. crm. to H. gray - chlk IP's & H. gray to tan;
 crypto. to v.v. fn. xln.; trs. sub-chlk, trs
 sub-sucro, packstn & sub-litho gr. id. H. H.
 yel. IP's to dul. yel. fluo. IP's; No cut; No vis. por

Sh. v. drk gray - calc to black - carb
 Sh med to dark gray; v. to extly. calc

Lms. 2bn. wht. to crm-chlk & tan, grayish IP's
 crypto. to v.v. fn. xln; sub-chlk, sub-sucro
 to trs. sucro & packstn.; trs. phantom
 oolitic; dul. yel. to tan. H. yel. fluo.
 No cut; widely scattered trs. v. poor
 micro-pp por

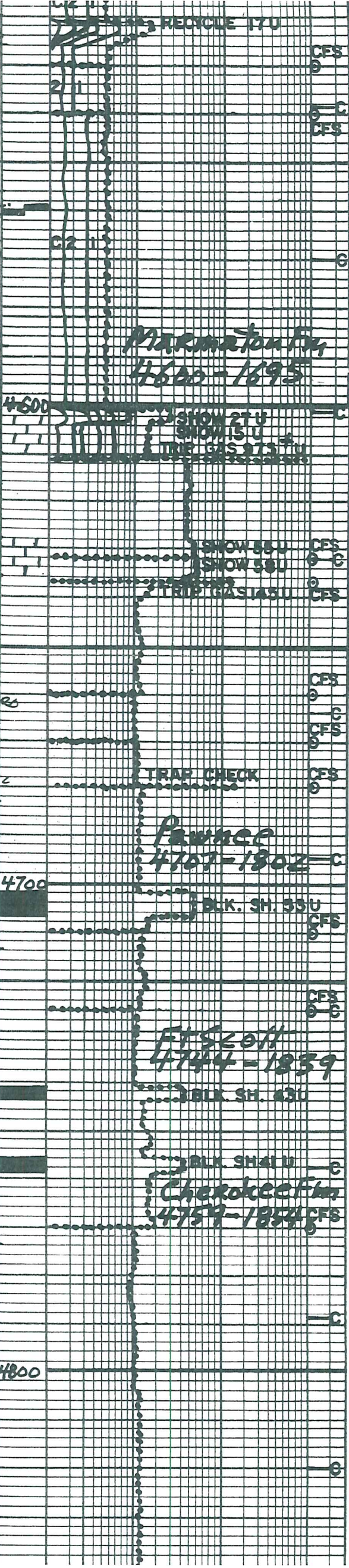
Lms. huy trs. wht. to crm-chlk & H. gray
 to tan; crypto. to v.v. fn. xln; sub-chlk, sub-sucro
 & packstn.; sl. trs. sub-litho gr.; phantom
 oolitic IP's; dul. yel. fluo.; No cut; No vis por

Sh. black - carb.
 Lms. trs. wht. to crm-chlk & H. gray to tan; crypto
 to v.v. fn. xln; phantom oolitic IP's; sub-chlk, sub-sucro
 & packstn.; trs. foss; dul. yel. to dul. H. yel. fluo.
 No cut; No vis por w/ trs. chert; gray opaque
 Sh very dark gray to black - carb

Lms. similar 4744-4756
 Lms. H. to med. gray; sl. to v. shly. to tan
 crypto. to v.v. fn. xln; sub-chlk, sub-sucro &
 packstn; dul. yel. fluo. IP's; No cut; No vis por

Lms. H. gray to tan; crypto. to v.v. fn. xln.; v. very
 to extly oolitic (tan w/ trs gray); matrix
 sub-chlk, packstn. & trs. sub-litho gr.
 dul. H. yel. fluo. IP's; No cut; No vis por.

Interbedded Limestones and Shales
 Lms. H. to med & trs. drk. gray; sl. to extly.
 shly. grading to v. calc. sh; crypto to v.v. fn.
 xln; sub-chlk & or shly; trs. sub-sucro.



xlin; sub-chlk + Tor Shly., Trs sub-sucro.,
 packstn. + Trs. to abn. sub-lithogr.
 v. dul. yel. fluor. IP's; No Cut; No Vis. POR.
 (A) Lms. grayish tan to tan, crypto to tan. In
 xlin; trs sub-chlk, Trs to hv trs. Sub-sucro.
 packstn and sub-lithogr.; dul. yel. to sli
 trs. yel. fluor.; No Cut; No Vis POR
 (B) Sh med. to drk gray. - sli. to extly calc
 (C) Sh v. drk gray to blk-carb. looking

4945-5000 Interbedded Limestones
 + Shales similar 4802-4945
 w/trs to abn Shs. Lt. green to olive
 greens + greenish grays to grayish
 greens; sli. Silty IP's.

A. 5000-5005 Sh v. drk. gray to black
 splintery
 B. 5005-5011 Sh med. to v. drk gray
 + trs. black-splintery IP's w/trs
 pyrite w/ abn Lms. Lt. to med gray.
 sli. to v. calc. to tan, crypto. to v. u. (with
 packstn. + sub-lithogr.; No fluor.;
 No Cut; No Vis POR. w/ v. abn. Siltstn.
 Lt. to med gray. and H green. Lt. tan
 from Lms. Sh. filled IP's in fill

A. IP's, Trs to v. abn glauc. or chlorite
 No fluor.; No Cut; No Vis POR.
 B. C. 5011-5013 Siltstn, tan; Qtz shly.
 v. u. fu. gr. - ang.; Paly. sorted
 No fluor.; No Cut; No Vis POR.

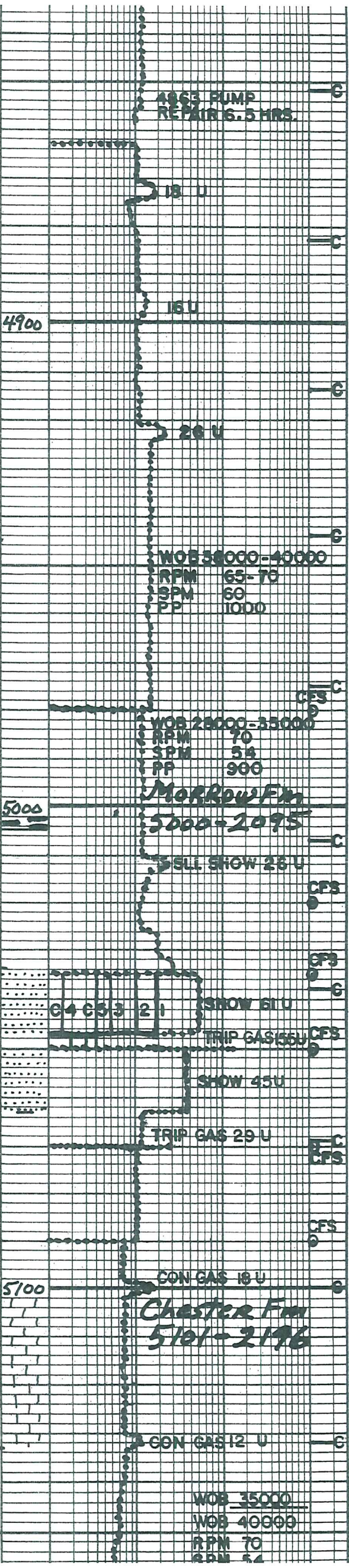
D. 5013-5026 Sh. w/ Lmst + siltstn
 Similar 5005-5011
 E. Siltstn. trs. gray to brn. from oil stn.
 gradng. IP's to Qtz silt. brn. from oil stn.
 v. u. fu. gr. + silt filled, ang. j. paly. sorted;
 trs w/ trs glauc. or chlorite trs. w/ trs
 fully disseminated pyr. j. to abn Sh. and
 laminations + partings, glau. yel. fluor.
 when air dried w/ flush to good string cuts
 v. widely scattered v. pr. micro pp. por
 Prob. No Perm.

F. 5034-5063 Qtz siltstn from even oil
 stn.; v. u. fu. gr. - ang.; silt filled IP's; gradng.
 sort. trs. w/ trs. glauc. or chlorite + abn
 v. drk. gray to blk. Sh. laminations + partings
 trs. w/ trs to abn. finely disseminated pyr.
 trs. to abn. Lt. green Sh. partings + laminations
 silt + shly. IP's; glau. yel. fluor. when
 air dried; w/ flush to good string cuts
 about 1/4 to 1/2 w/ abn parting, trs. to
 sli. trs excel. micro pp to intergr. por
 Quest. Perm

5063-5101 Sh. med. to v. drk gray. - splintery IP's
 w/ hv trs. pyrite; abn. sh. to extly. silty Tor
 Sh. - v. u. fu. gr. ang. gradng. to siltstn. med.
 drk. gray; shale filled hv. trs siltstn. tan
 to brown from even oil stn. w/ yel. to glau.
 yel. fluor. when air dried w/ good string
 cuts IP's; No Vis POR

Lms. trs. wht. to crm. - chlk + lt. gray. Tanish IP's
 crypto. to trs v. u. fu. xlin.; trs. sub-chlk
 sub-sucro. to sucro. packstn + trs. Sub-
 lithogr.; sli. trs. foss; trs. phenomolitic
 to trs. colitic w/ sucro. matrix; w/ sptd
 tan oil stn. w/ yel. fluor. w/ flush to good
 stringing, cuts; w/ sli. trs. pr. to micro pp
 to intergr. in por in sucro. matrix

Lms Lt. gray to tan, greenish IP's, crypto to
 v. u. fu. xlin., Predom. extly micro-colic
 +/or sli. to extly Qtz. silt - v. u. fu. gr. ang.;
 matrix trs. chlk, sub-chlk, sub-sucro.
 v. dul. yel. fluor.; No Cut; No Vis POR w/ trs. to
 abn. in bottom of zone Lms w/ med to lg
 oolites, matrix sub-chlk, sub-sucro. and
 packstn.; v. dul. yel. fluor.; No Cut



DIST. 29 ft below

Novis POR

RIM 37
PP 350

Lms. H. gry., tanish IP's; crypto to v.u. su. xln; extly. micro-oolitic to tres small +/or sli. to fely. Qtz sdy. w. (ngr. ang.) matrix; tres. chlk, tres. sub-chlk + sub-sucro; dul. H. yel. fluor; Noluit; Novis POR

St. Genevieve
5162-2257

Lms similar 5162-5201 w/ large incr in small oolites w/ zbn. incrs. of chlk and sub-chlk in matrix
Olive grn. sly. waxy IP's gray to olive grn
Lms. crypto xln, packets. Lms. tan, grayish, IP's crypto to v.u. su. xln; sli. to extly. oolitic (sm, med, lg) matrix; chlk, sub-chlk, sub-sucro + packets; dul. yel. fluor. IP's; Noluit; Novis POR
Lms. tan, grayish. IP's; crypto to v.u. su. xln. v. to extly. oolitic (med to lg) tres sm) matrix; abn. chlk, sub-chlk, sub-sucro + packets; dul. yel. fluor.; Noluit; Novis POR w/ v. zbn
Chert gry to tan; transl. to opaque; oolite replacement IP's
5227-5250 Lms similar 5223-5229 w/ only tres. chert similar 5223-5229

5200

St. Louis
5229-2324

Lms. med. tan, grayish. IP's; crypto to v.u. su. xln; tres. chlk, sub-chlk, sub-sucro + packets; tres to zbn. sli. to extly. oolitic (sm, med + lg); v. dul. yel. fluor.; Noluit; Novis POR.

TRAP CHECK

Lms. tres. to hvy. tres. wht. to crm. chlk w/ chlk oolites IP's (sm to med) + hvy. tres. Lms. tan; crypto to v.u. su. xln; sli. to extly. oolitic (sm, med + lg) matrix; chlk, sub-chlk, sub-sucro + tres + packets; v. dul. yel. fluor.; Noluit; Novis POR
Predominately Lms. H. gray to tan; crypto to v.u. su. xln; v. to extly. micro-oolitic to tres sli. to v. Qtz sdy. - v. ngr. ang.; matrix; tres. chlk, sub-chlk + sub-sucro; y. dul. yel. fluor. Noluit; Novis POR w/ v. sli. tres. Chert gry to tan; transl. to opaque; oolite replacement IP's

TRAP CHECK

5199-5311 Lms. similar 5269-5290 w/ chlkiness incr to extly. zbn + sli. tr. chert

5300

SLI GAS SHOW 5 U

Lms. tan, grayish. IP's; crypto xln; packets to tres. sub-lithogr; dul. yel. fluor.; Noluit; Novis POR.
Lms. tres. to hvy. tres. wht. to crm. chlk, tres. w/ chlk oolites; + tan, grayish. IP's; crypto to v.u. su. xln; sli. to extly. oolitic (sm, med + lg); matrix; chlk, sub-chlk, sub-sucro + packets; dul. yel. fluor. Noluit; Novis POR. w/ tres. to hvy. tres. Chert gry to tan; opaque to transl.

Lms similar 5317-5327 Interbedded with Lms. gray to tan; crypto xln; packets. to sub-lithographic; dul. yel. to tres. yel. fluor; Noluit; Novis POR. w/ tres. Chert gry to tan opaque to transl.

5400

TD 5400

Bit Info 7 7/8 inch Bits
#1 New Hughs GX 225
in 1806 out 5400 TD

Dev. Surv.:

1. 743 1/2°	5. 2887 1°
2. 1241 3/4°	6. 4611 1°
3. 1806 1 1/2°	7. 5050 1 1/4°
4. 2357 1°	8. 5400 1 1/2° TD

Cir Points:

1. 4480	8. 4670	15. 5035
2. 4530	9. 4680	16. 5050
3. 4540	10. 4710	17. 5070
4. 4611	11. 4726	18. 5090
5. 4632	12. 4770	19. 5310
6. 4637	13. 4980	20. 5400 TD
7. 4660	14. 5020	

6. 4637 13. 4980 20. 5400TD
 7. 4660 14. 5020

Daily Drilg Progress

1. 3800 2:45 PM 9-5-2011
 2. 4191 7:00 AM 9-6-2011
 3. 4522 7:00 AM 9-7-2011
 4. 4611 7:00 AM 9-8-2011
 5. 4637 7:00 AM 9-9-2011
 6. 4660 7:00 AM 9-10-2011
 7. 4863 7:00 AM 9-11-2011
 8. 5035 7:00 AM 9-12-2011
 9. 5050 7:00 AM 9-13-2011
 10. 5070 7:00 AM 9-14-2011
 11. 5222 7:00 AM 9-15-2011
 12. 5400 7:00 AM 9-16-2011

DST #1 Marmaton "A" 4586-4611

IO Strong Blow BOB 1min
 FO Strong Blow BOB 1min GTS 8min
 Gas Burned Nicely
 Rec 528-ft of Fluid BHT 122°F
 341ft 10% gas 42% oil 48% mud
 187ft 2% gas 78% oil 20% mud
 Grv. 38.2 @ 60°
 Tool Samp 75% oil 25% mud
 IHP 2175# FFP 114-191# in 60min
 IFP 41-108# in 30min FSIP 1045# in 120min
 ISIP 1045# in 60min FHP 2153#

DST #2 Marmaton "B" 4623-4637

IO weak surf. blow built to 1 1/2 inch
 FO weak surf. blow built to 1 inch
 Rec 5 ft fluid 1% gas 99% mud
 Tool Sample 22% oil + 78% mud
 BHT 117°F
 IHP 2133#
 IFP 7-17# in 30 min
 ISIP 96# in 60 min
 FFP 18-22# in 60 min
 FSIP 132# in 120 min
 FHP 2109#

DST #3 Morrow 5036-5050

IO V. weak surf. blow after 15 min
 began to incr. to 1/2 inch @ shut in
 FO weak surf. blow incr. to 2 3/4 inch
 Rec 20 ft fluid 2% oil 98% mud
 Tool Sample 3% gas, 20% oil, 77% mud
 BHT 126°F
 IHP 2396#
 IFP 8-19# in 30 min
 ISIP 295# in 60 min
 FFP 20-27# in 60 min
 FSIP 347# in 120 min
 FHP 2370#

DST #4 Morrow 5048-5070

IO weak surf. blow incr. to 1/4 inch
 FO V. weak surface blow died in 10 min
 Rec 5 ft fluid mud w/ Ascum of oil
 BHT 123°F
 Tool Sample Drilg Mud w/ spots of oil
 IHP 2352#
 IFP 8-13# in 30 min
 ISIP 29# in 60 min
 FFP 16-16# in 30 min
 FSIP 23# in 60 min
 FHP 2318#

Mud Info:

Date	9-5	9-6	9-7	9-8	9-9	9-10	9-11
Depth	3810	4329	4611	4611	4637	4710	4864
Wt.	8.65	9.1	9.3	9.1	8.15	8.75	9.1
Vis	46	46	52	49	54	53	53
PV	14	15	17	15	17	15	17
VO	17	11	17	15	17	17	17

IFF 2576
 IFF 8-19# in 30 min
 ISIP 295# in 60 min
 FFP 20-27# in 60 min
 PSIP 347# in 120 min
 FHP 2370#

DST#4 Morrow 5048-5070
 ID weak surf. blow in ce to 1/4 inch
 FOV weak surface blow died in 10 min
 Rec 5ft fluid mud w/Ascum of oil
 BHT 1230 F
 Tool Sample Dalg Mud w/spots of oil
 IHP 2352#
 IFF 8-13# in 30 min
 ISIP 29# in 60 min
 FFP 16-16# in 30 min
 PSIP 23# in 60 min
 FHP 2318#

Mud Log:

Date	7-8	7-9	7-10	7-11	7-12	7-13	7-14
	1:35P	1:35P	1:35P	1:35P	1:35P	1:35P	1:35P
Depth	3818	4329	4611	4611	4651	4710	4804
Wt.	8.65	9.1	9.3	9.1	8.15	8.75	9.1
Vis	46	46	52	49	54	53	53
PV	14	15	17	15	17	15	17
YP	15	16	17	15	17	17	21
GS	14/43	14/40	16/49	14/43	16/49	14/45	16/49
WL	9.6	9.3	8.8	7.6	7.6	8.4	6.8
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.0	9.5	10.5	10.5	11.0	9.5	11.0
Chl	2100	3600	3400	3800	2300	2500	1400
Ca	20	20	20	20	20	20	20
LCM	3	3	5	4	4	4	4

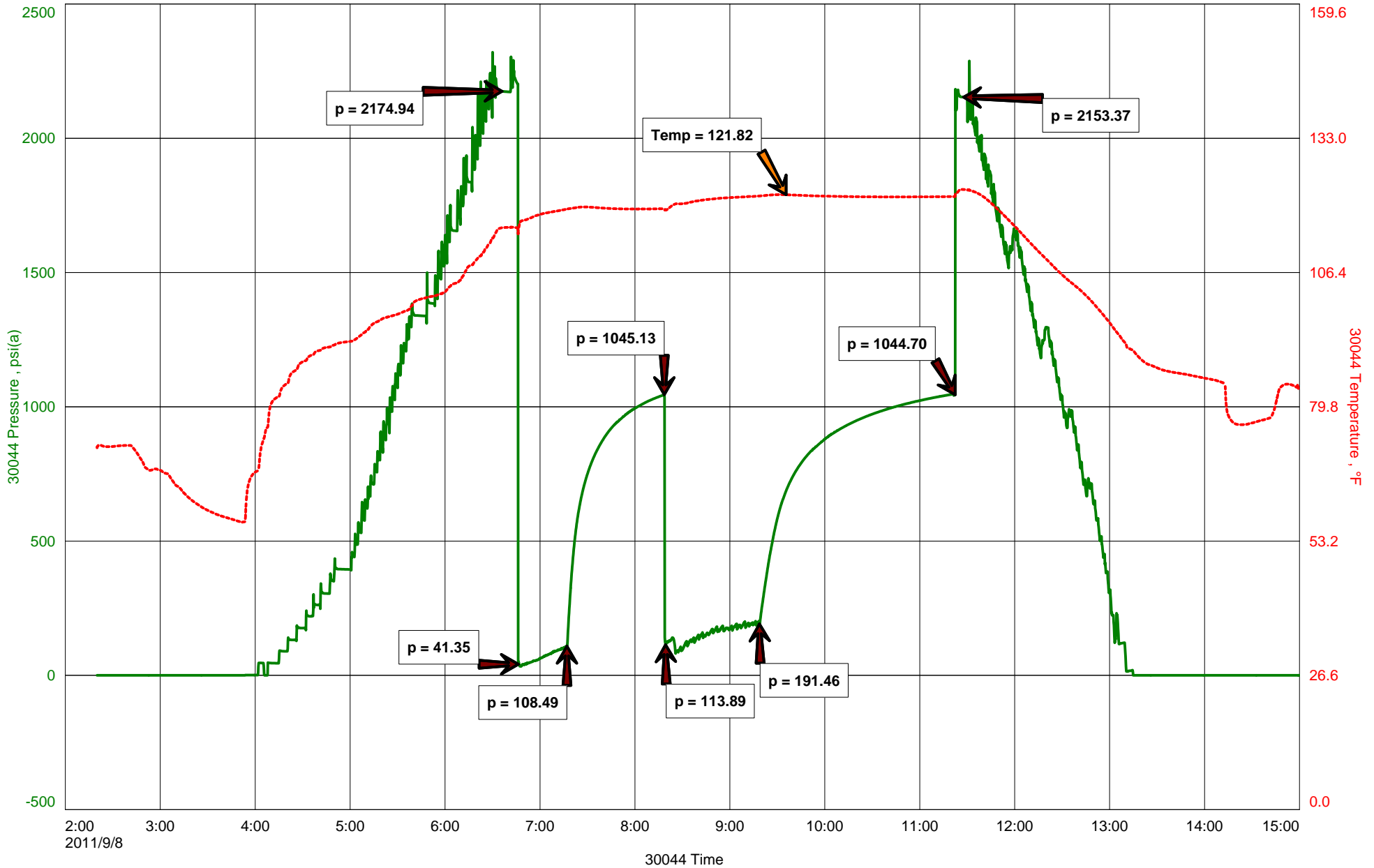
Date	7-13	7-14	7-15
	6:40A	2:20P	2:25P
Depth	5050	5090	5270
Wt.	9.3	9.1	9.15
Vis	53	71	52
PV	16	20	17
YP	16	22	17
GS	14/45	19/36	15/48
WL	8.0	8.0	8.4
Cake	1/32	1/32	1/32
pH	10.5	9.5	9.5
Chl	1800	2800	2900
Ca	40	20	20
LCM	3	2	2

OPERATOR **BEREXCO LLC** LOCATION **2220'FNL & 335'FEL**
 LEASE **TATE "A"** NO. **2-12** SEC. **12** TWP. **27S** RANG. **33W**
 ELEVATION **2905 KB** RTD. **5400** COUNTY **HASKELL** STATE **KANSAS**

BEREXCO
DST#1 4586-4611 MARMATON
Start Test Date: 2011/09/08
Final Test Date: 2011/09/08

TATE "A" #2-12
Formation: DST#1 4586-4611 MARMATON
Pool: WILDCAT
Job Number: M203

TATE "A" #2-12



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO	Job Number	M203
Well Name	TATE "A" #2-12	Representative	MIKE COCHRAN
Unique Well ID	DST#1 4586-4611 MARMATON	Well Operator	BEREXCO
Surface Location	SEC.12-27S-33W HASKELL CO.KS.	Report Date	2011/09/08
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 4586-4611 MARMATON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/09/08	Start Test Time	02:20:00
Final Test Date	2011/09/08	Final Test Time	15:00:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

Test Results

Remarks

RECOVERED:
GTS 8 MIN 2ND OPEN
341' GHOCM, 10% GAS, 42% OIL, 48% MUD
187' GMCO 2% GAS, 78% OIL, 20% MUD
528' TOTAL FLUID

GRAVITY: 38.2@ 60 DEG.

TOOL SAMPLE: 75% OIL, 25% MUD



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

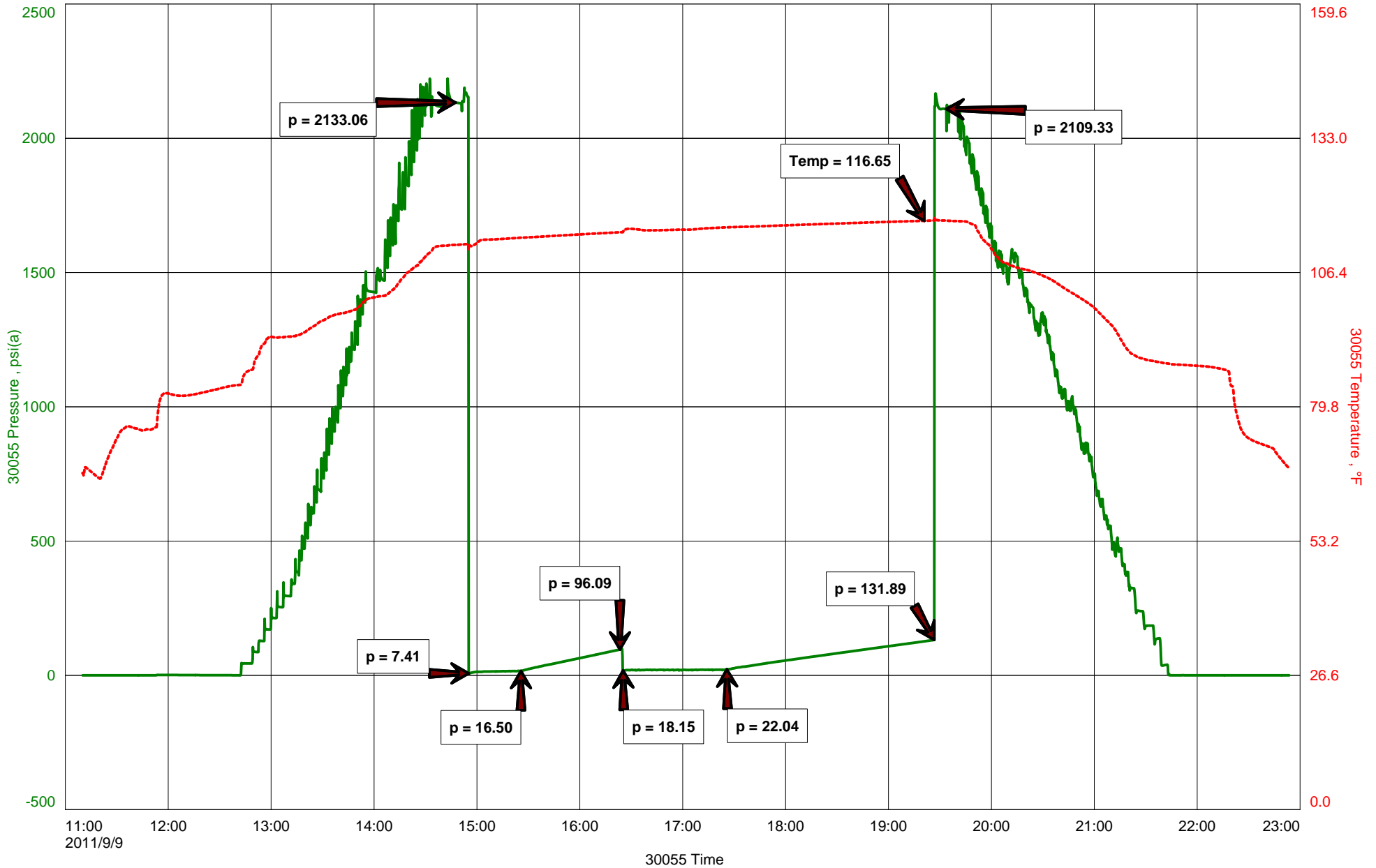
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

BEREXCO
DST#2 4623-4637 MARMATON "B"
Start Test Date: 2011/09/09
Final Test Date: 2011/09/09

TATE "A" #2-12
Formation: DST#2 4623-4637 MARMATON "B"
Pool: WILDCAT
Job Number: M204

TATE "A" #2-12



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO	Job Number	M204
Well Name	TATE "A" #2-12	Representative	MIKE COCHRAN
Unique Well ID	DST#2 4623-4637 MARMATON "B"	Well Operator	BEREXCO
Surface Location	SEC.12-27S-33W HASKELL CO.KS.	Report Date	2011/09/09
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 4623-4637 MARMATON "B"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/09/09	Start Test Time	11:10:00
Final Test Date	2011/09/09	Final Test Time	22:55:00
		Well Fluid Type	01 Oil
Gauge Name	30055		
Gauge Serial Number			

Test Results

Remarks

RECOVERED:
5' GDM 1% GAS, 99% MUD
5' TOTAL FLUID

TOOL SAMPLE: 22% OIL, 78%MUD



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: _____	

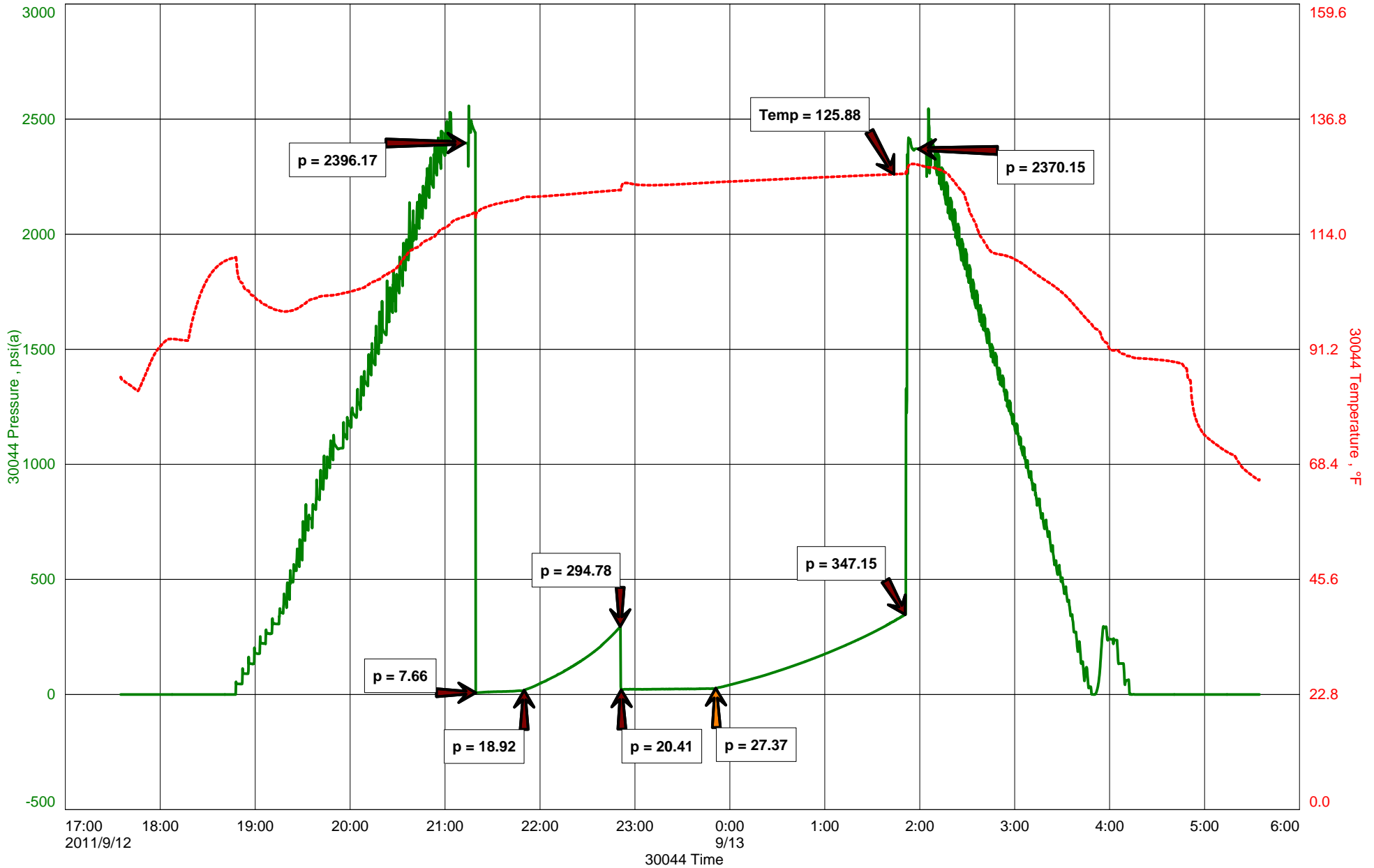
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

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BEREXCO
DST#3 5036-5050 MORROW SD. ST.
Start Test Date: 2011/09/12
Final Test Date: 2011/09/13

TATE "A" #2-12
Formation: DST#3 5036-5050 MORROW SD. ST.
Pool: WILDCAT
Job Number: M205

TATE "A" #2-12



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO	Job Number	M205
Well Name	TATE "A" #2-12	Representative	MIKE COCHRAN
Unique Well ID	DST#3 5036-5050 MORROW SD. ST.	Well Operator	BEREXCO
Surface Location	SEC.12-27S-33W HASKELL CO.KS.	Report Date	2011/09/13
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#3 5036-5050 MORROW SD. ST.		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/09/12	Start Test Time	17:35:00
Final Test Date	2011/09/13	Final Test Time	05:35:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

Test Results

Remarks

RECOVERED:
20' OSM 2% OIL, 98% MUD
20' TOTAL FLUID

TOOL SAMPLE: 3% GAS, 20% OIL, 77% MUD



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: _____	

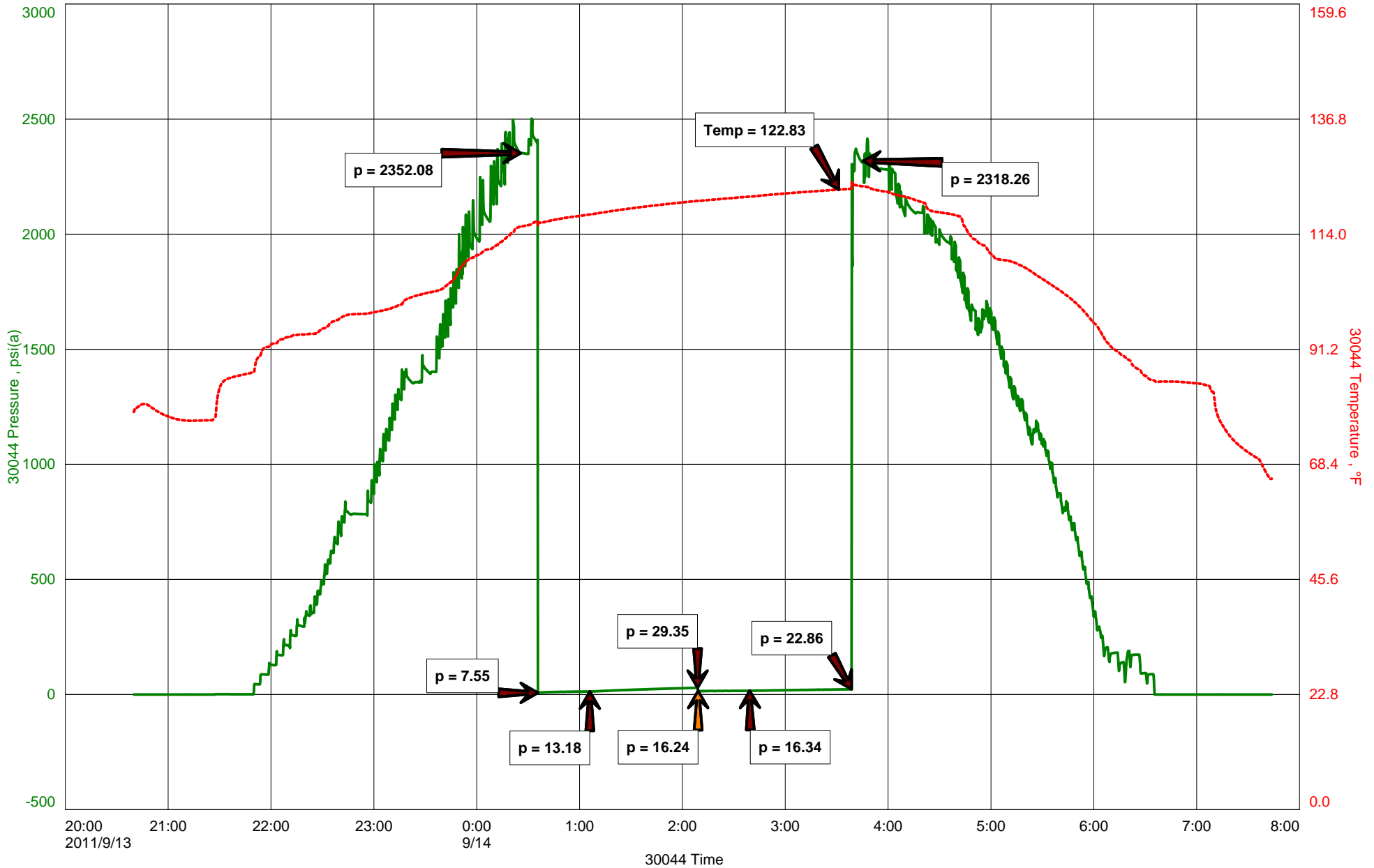
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure..... (A) _____ P.S.I.
 Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
 Final Flow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

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BEREXCO
DST#4 5048-5070 MORROW SD. ST.
Start Test Date: 2011/09/13
Final Test Date: 2011/09/14

TATE "A" #2-12
Formation: DST#4 5048-5070 MORROW SD. ST.
Pool: WILDCAT
Job Number: M206

TATE "A" #2-12



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO	Job Number	M206
Well Name	TATE "A" #2-12	Representative	MIKE COCHRAN
Unique Well ID	DST#4 5048-5070 MORROW SD. ST.	Well Operator	BEREXCO
Surface Location	SEC.12-27S-33W HASKELL CO.KS.	Report Date	2011/09/14
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#4 5048-5070 MORROW SD. ST.		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/09/13	Start Test Time	20:40:00
Final Test Date	2011/09/14	Final Test Time	07:45:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

Test Results

Remarks

RECOVERED:
5' SOS DM 100% MUD W/ A SCUM OF OIL
5' TOTAL FLUID

TOOL SAMPLE: DRLG MUD W/ SPOTS OF OIL



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

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.

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