



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1081809
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: _____

1081809

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> _____
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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	Cooley B 21
Doc ID	1081809

Tops

Name	Top	Datum
Anhydrite	1760	+512
Anhydrite (base)	1795	+477
Topeka	3217	-945
35' Topeka	3244	-972
Plattsmouth	3394	-1122
Heebner	3428	-1156
Toronto	3454	-1182
Lansing A	3468	-1196
Lansing B	3508	-1236
Lansing C	3528	-1256
Lansing E	3546	-1274
Lansing G	3566	-1294
Lansing H	3604	-1332
Lansing I	3624	-1342
Lansing K	3639	-1367
Lansing L	3656	-1384
Marmaton	3712	-1440
Arbuckle	3771	-1499
RTD	3867	
LTD	3870	

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

May 21, 2012

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

Re: ACO1
API 15-065-23824-00-00
Cooley B 21
NE/4 Sec.17-09S-21W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Bruce Meyer

ALLIED OIL & GAS SERVICES, LLC

6376

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL KANSAS 67665

SERVICE POINT:

Russell Ks.

DATE <i>4-3-12</i>	SEC <i>12</i>	TWP. <i>20</i>	RANGE <i>24</i>	CALLED OUT	ON LOCATION	JOB START <i>11:00</i>	JOB FINISH <i>11:30 AM</i>
LEAS <i>Cooley</i>	WELL# <i>B-21</i>	LOCATION <i>Bogue Red-Line Jct 3 1/2 E</i>			COUNTY <i>Graham</i>	STATE <i>Kansas</i>	
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR *Berexco Rig #10*

TYPE OF JOB *Cement Surface*

HOLE SIZE *12 1/4* T.D. *330'*

CASING SIZE *5/8 New* DEPTH *325'*

TUBING SIZE *2 0 # CSG.* DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15' - 20'*

PERFS.

DISPLACEMENT *20 1/4 - 20 1/4 BBL*

EQUIPMENT

OWNER

CEMENT AMOUNT ORDERED *225 SX COM. 3% CC 290 GEL*

COMMON	<i>225</i>	@	<i>16.25</i>	<i>3656.25</i>
POZMIX		@		
GEL	<i>4</i>	@	<i>21.25</i>	<i>85.00</i>
CHLORIDE	<i>8 1/2</i>	@	<i>58.20</i>	<i>465.60</i>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>237</i>	@	<i>2.25</i>	<i>533.25</i>
MILEAGE	<i>11850. x</i>		<i>.11</i>	<i>1303.50</i>
<i>Drayage</i>				
TOTAL				<i>6043.60</i>

PUMP TRUCK CEMENTER *Gleny Ginter*

417 HELPER *Woody O.*

BULK TRUCK

481 DRIVER *Chris G.*

BULK TRUCK

DRIVER

REMARKS:

Ran 7 New JTS of 8 5/8 2 0 # CSG. Set @ 305. Received circulation & cement w/ 225 SX COM. 2% GEL & 3% CC. Displaced 20 1/4 BBL / Cement did circulate to surface. Shot in @ 300 ft. THANK'S

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<i>1125.00</i>
EXTRA FOOTAGE		@	
MILEAGE <i>H</i>	<i>50</i>	@	<i>7.00</i>
MANIFOLD		@	
<i>LV</i>	<i>50</i>	@	<i>N.C.</i>
		@	
TOTAL <i>1475.00</i>			

CHARGE TO: *Berexco LLC.*

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

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.

SALES TAX (if Any) *317.61*

TOTAL CHARGES *7518.60*

DISCOUNT *24%* *1804.46* IF PAID IN 30 DAYS

PRINTED NAME *John Love*

SIGNATURE *[Signature]*

ALLIED CEMENTING CO., LLC. 034646

Federal Tax I.D.# 20-5975804

APR 17 2012

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

SERVICE POINT:
RUSSELL

DATE <u>4-12-12</u>	SEC. <u>12</u>	TWP. <u>20</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Cooley</u>	WELL # <u>B-21</u>	LOCATION <u>Red Line Church</u>			COUNTY <u>GRAHAM</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>3" - 3" - 1/2" E - S INTO</u>				

CONTRACTOR Broadco #10

TYPE OF JOB 5/2 dv

HOLE SIZE _____ T.D. _____

CASING SIZE 5/2 DEPTH 3863

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL dv DEPTH 1769

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 85 FT

PERFS. _____

DISPLACEMENT 89.91 bbl

OWNER _____

CEMENT

AMOUNT ORDERED 200 SK 60 40 60 1/4 # FLO

150 SK ASC 6" GILSONITE

450 SK 60 40 1/4 # FLO

COMMON	<u>390</u>	@	<u>16.25</u>	<u>6337.50</u>
POZMIX	<u>260</u>	@	<u>8.50</u>	<u>2210.00</u>
GEL	<u>25</u>	@	<u>21.25</u>	<u>531.25</u>
CHLORIDE		@		
ASC	<u>150</u>	@	<u>19.00</u>	<u>2850.00</u>
		@		
	<u>FLO-SEAL 165</u>	@	<u>2.70</u>	<u>445.5</u>
	<u>GILSONITE 900</u>	@	<u>0.89</u>	<u>801.00</u>
		@		
	<u>mud FLUSH 500</u>	@	<u>1.27</u>	<u>635.00</u>
		@		
		@		
HANDLING	<u>843</u>	@	<u>2.25</u>	<u>1896.75</u>
MILEAGE	<u>50 X 843 X .11</u>			<u>4636.50</u>
TOTAL				<u>20343.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bob S.

409 HELPER Tony

BULK TRUCK

481 DRIVER Cody

BULK TRUCK

473 DRIVER CHRIST

410 ROBERT

REMARKS:

Pump - mud FLUSH - Pump 200 SK 60/40 67.00

Pump - 450 SK ASC 6" GILSONITE 801.00

Bump Plug @ 1200 TO 1700

Drop Bomb open dv tool

Plug RAT & mouse 50 SK

Pump 400 SK 60/40 480.00

Bump Plug @ 1200 TO 2500

CMT CIRCUMFERED TO SURFACE

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 2225.00

EXTRA FOOTAGE _____ @ _____

MILEAGE H 50 @ 7.00 350.00

MANIFOLD PLUG 1 @ 250 0

Ldv 50 @ _____ 0

ADWATING TIME 35 @ 200 0

TOTAL 2575.00

PLUG & FLOAT EQUIPMENT

dv-TOOL 2832.00

Float shoe AFU @ 232.00

CLAMP @ 20.00

LATCH down ASSY @ 184.00

TURBOLIZERS 14 @ 65.00 910.00

BASKET 2 @ 178.00 356.00

TOTAL 4544.00

CHARGE TO: BEREXCO LLC

STREET _____

CITY _____ STATE _____ ZIP _____

Bobby

Myo

To Allied Cementing Co., LLC.

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

SALES TAX (If Any) _____

TOTAL CHARGES 27462.50

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Wennis Kimes

**BEREXCO, LLC.
COOLEY B # 21
NWNWNE SECTION 17 9S-21W
GRAHAM COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

COOLEY B # 21 SAMPLE DESCRIPTIONS
BEREDCO DRILLING RIG 10 DRILLING 7 7/8 HOLE

ANHYDRITE 1760(+512) S
1760(+512) L

BASE 1795(+477) S
1795(+477) L

SAMPLE DESCRIPTIONS

3100-3200 SHALE gray,firm,silty

3200-30 LIMESTONE gray buff,hard,fossils, dirty,silty,poor porosity,no shows

TOPEKA

3231-56 LIMESTONE buff,gray,firm,fossils, slightly chalky,poor to fair porosity,no shows

35' TOPEKA

3256-80 LIMESTONE buff,hard,dirty,poor porosity,no shows with thin SHALE as above

3280-90 LIMESTONE buff,firm,very fossils,slightly chalky,fair intergranular porosity,no shows

COOLEY B # 21 SAMPLE DESCRIPTIONS

3290-10 SHALE gray,red,green,some black,fissile

3310-36 LIMESTONE buff,hard,fossils,dirty, poor porosity,no shows

3336-50 SHALE as above

3350-72 LIMESTONE buff,hard,micxln,no shows

PLATTSMOUTH

3372-3406 LIMESTONE buff,firm,very fossils,good intergranular porosity,no shows with very thin
LIMESTONE brown,very hard,dense

3390-3406 LIMESTONE as above very fossils,fair porosity,no shows

3406-18 SHALE black,green,red,firm,fissile

3418-26 LIMESTONE light brown,very hard,dense

HEEBNER

3426-30 SHALE black,firm,fissile,carbonaceous

3430-36 LIMESTONE light brown,buff,very hard, dense

COOLEY B # 21 SAMPLE DESCRIPTIONS

3436-50 SHALE gray,green,firm,argillaceous

TORONTO

3450-60 LIMESTONE buff,very hard,dense,no shows

3460-70 SHALE red,very soft,very argillaceous

LANSING A

3470-75 LIMESTONE white,firm,chalky,poor porosity,no shows,abundant Chert white

3475-94 LIMESTONE white,buff,very hard, dense,no shows

3494-3500 LIMESTONE white,firm,fossils, slightly chalky,poor intg porosity,very spotty faint brown stain,poor cut

3500-08 SHALE red,green,soft,argillaceous

B ZONE

3508-13 LIMESTONE buff,firm,very oolitic,fair to good intg and moldic porosity,spotty to even live brown stain,good cut and odor,no free oil

3513-20 LIMESTONE buff,very hard,dense,

COOLEY B # 21 SAMPLE DESCRIPTIONS

3520-32 SHALE red,very soft,argillaceous

C ZONE

3532-40 LIMESTONE buff,very hard,dense,

E ZONE

3540-50 LIMESTONE white,buff,hard,slightly oolitic,poor vuggy porosity,very spotty black asphalt oil,good cut

3550-64 LIMESTONE buff,very hard,dense, with very thin SHALE as above

G ZONE

3564-70 LIMESTONE white,firm,very chalky, slightly sandy,poor visible porosity,no shows

3570-80 LIMESTONE buff,very hard,dense,as above

3580-3602 LIMESTONE gray,very hard,very dense, abundant Chert gray thin SHALE as above

H ZONE

3602-16 LIMESTONE buff,very hard,dense,poor porosity,trace black dead stain,poor cut

3616-24 SHALE green,firm,waxy

COOLEY B # 21 SAMPLE DESCRIPTIONS

I ZONE

3624-30 LIMESTONE buff,firm,oolitic, poor to fair intg and crystalline porosity,spotty live brown stain,good cut and odor,fair show free oil

3634-38 LIMESTONE very dense,as above and SHALE as above

J ZONE

3638-56 LIMESTONE buff,very hard,dense,no shows, abundant Chert white,orange with thin SHALE as above

K ZONE

3656-60 LIMESTONE white,firm,oolitic,slightly chalky,poor to fair intg porosity,spotty live brown stain,good cut and odor,fair show free oil

3660-70 LIMESTONE buff,very hard,dense,no shows

3670-3710 SHALE gray,green,red,soft,argillaceous

MARMATON

3710-24 LIMESTONE white,firm,chalky, sandy,poor porosity,spotty dead black stain

3724-34 SHALE as above

COOLEY B # 21 SAMPLE DESCRIPTIONS

3734-40 LIMESTONE buff,very hard,dense,no shows

3740-50 SHALE maroon,green,ble,firm,fissile

3750-69 LIMESTONE white,firm,sandy,very chalky,poor porosity,no shows

ARBUCKLE

3769-73 DOLOMITE buff,slightly hard,micsuc texture,gd crystalline and vuggy porosity,even brown live stain,very good cut and odor,very good show free oil

3773-78 DOLOMITE buff,firm,micsuc texture, good intxln and vuggy porosity,even stain,very good cut and odor,gsfo

3778-87 DOLOMITE buff,hard,micxln,poor to fair porosity,spotty to even brown stain,good cut and odor,abundant Chert white,translucent

3778-90 DOLOMITE buff,soft,micsuc texture, crse crystalline,good intxln and vuggy porosity, even brown stain,very good cut and odor,very good show free oil

3790-3806 DOLOMITE as above slightly hard,micsuc,fair to good porosity,spotty stain,good cut and odor,fair show free oil

3806-56 DOLOMITE buff,very hard,dense,no shows, abundant Chert white,translucent

3856-67 DOLOMITE buff,firm,micsuc, sandy in part,good porosity,no shows

COOLEY B # 21 SAMPLE DESCRIPTIONS

RTD 3867'

LTD 3870'

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: COOLEY # B21
 Location: NWNWNE SECTION 17 9S-21W GRAHAM COUNTY, KS.
 Licence Number: 15-065-23824
 Spud Date: 4-2-2012
 Surface Coordinates: 330' FNL & 2310' FEL
 Region: MIDCONTINENT
 Drilling Completed: 4-11-2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 2261
 Logged Interval (ft): 3000 To: 3867
 Formation: LCK & ARBUCKLE
 Type of Drilling Fluid: FRESH CHEMICAL
 K.B. Elevation (ft): 2272
 Total Depth (ft): 3867

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

OPERATOR

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

GEOLOGIST

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

SURVEYs

330' 1/2
 1794' 3/4
 3520' 1/2


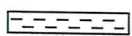

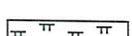

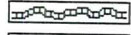


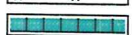
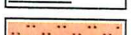
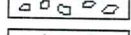
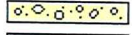
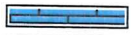
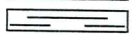
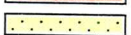
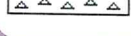




DSTs

DST#1 3490-3520, DST#23610-70, DST#3 3740-73', DST#4 3773-81 MISRUN, DST#4 3742-81, DST#6 3782-93'

































































Comments

SET 5 1/2 PRODUCTION PIPE

ROCK TYPES

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

ACCESSORIES

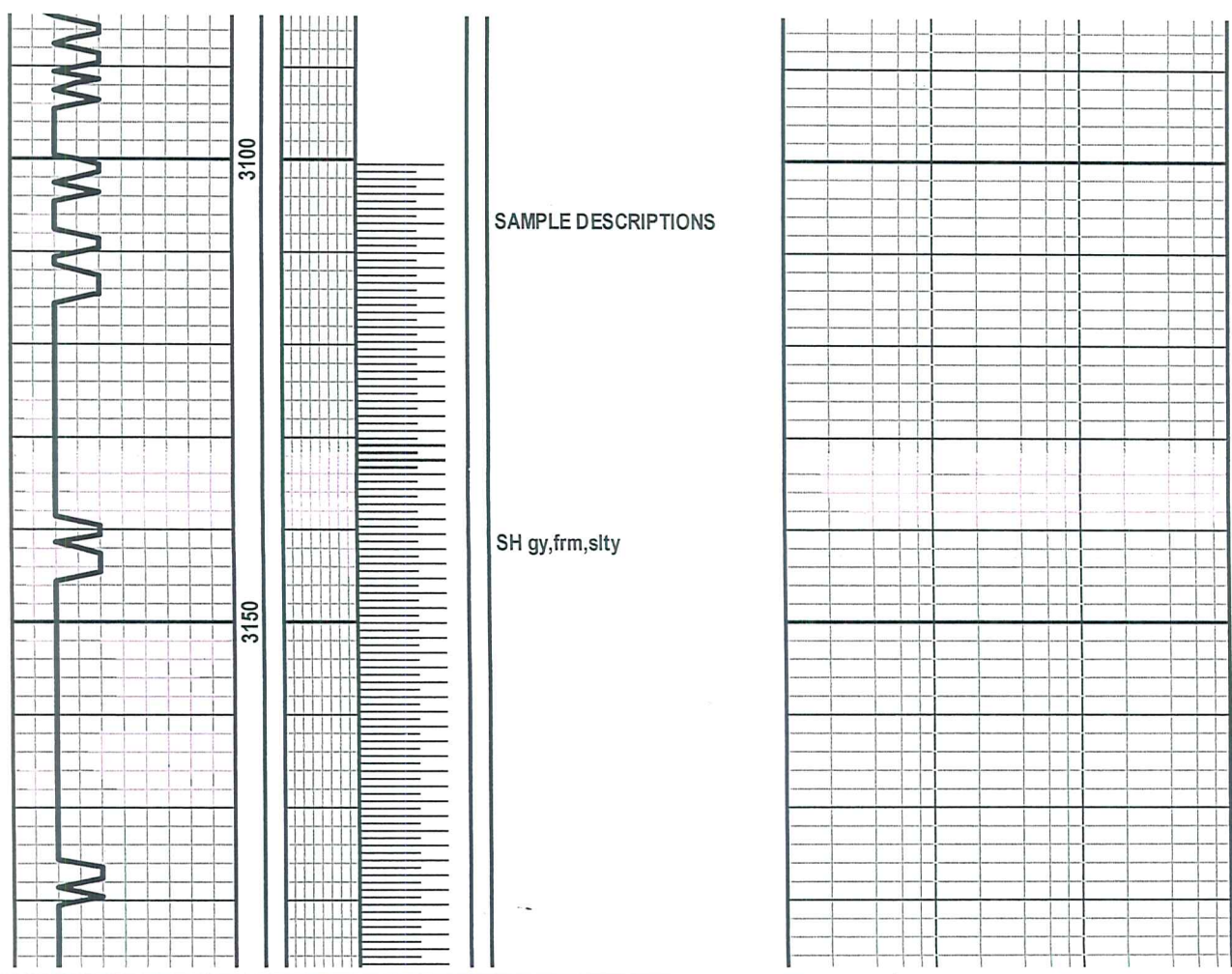
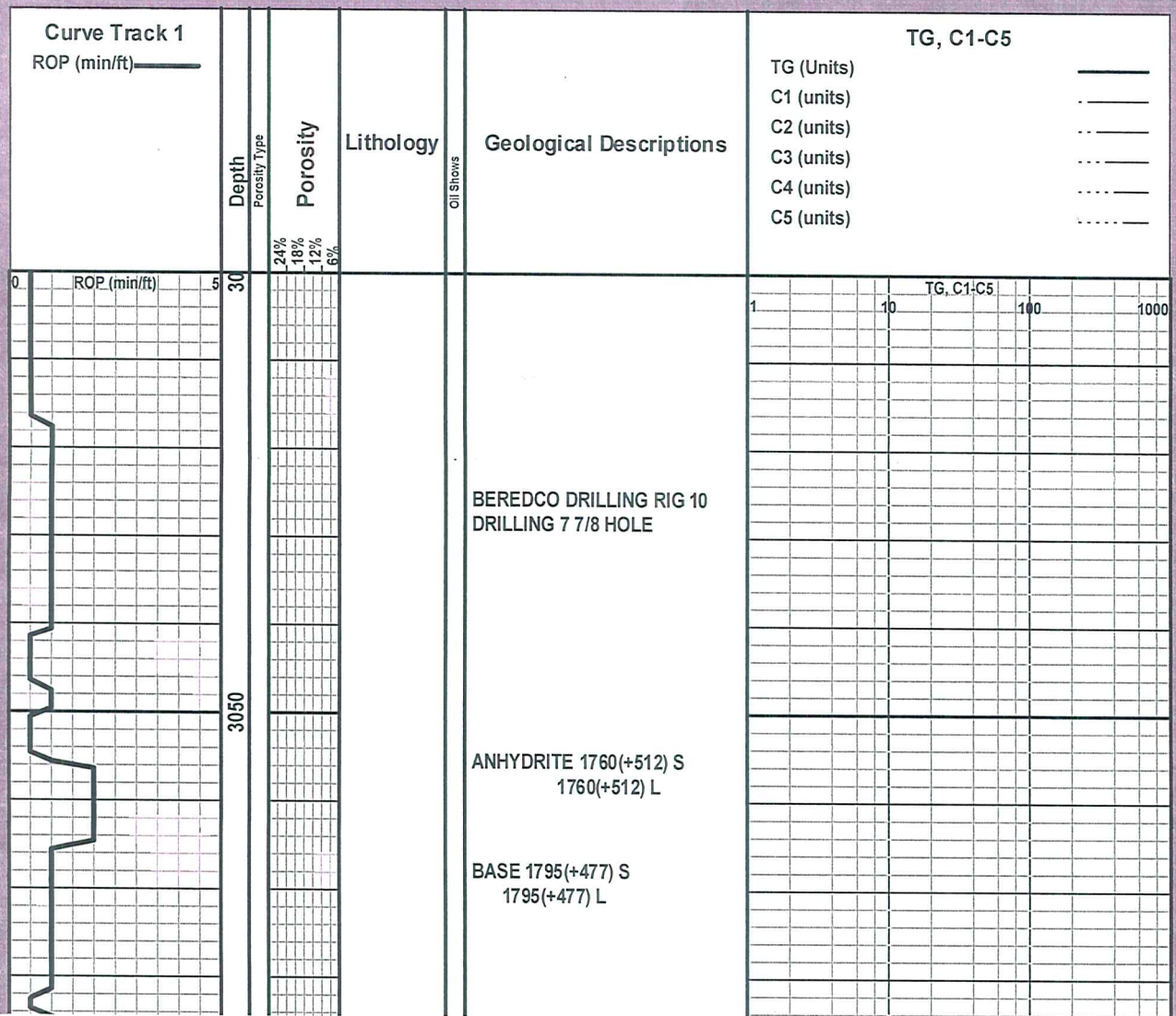
MINERAL	 Gyp	FOSSIL	 Ostra	 Sltstrg
 Anhy	 Hvymin	 Algae	 Pelec	 Ssstrg
 Arggrn	 Kaol	 Amph	 Pellet	TEXTURE
 Arg	 Marl	 Belm	 Pisolite	 Boundst
 Bent	 Minxl	 Bioclst	 Plant	 Chalky
 Bit	 Nodule	 Brach	 Strom	 Cryxln
 Brecfrag	 Phos	 Bryozoa	STRINGER	 Earthy
 Calc	 Pyr	 Cephal	 Anhy	 Finexln
 Carb	 Salt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

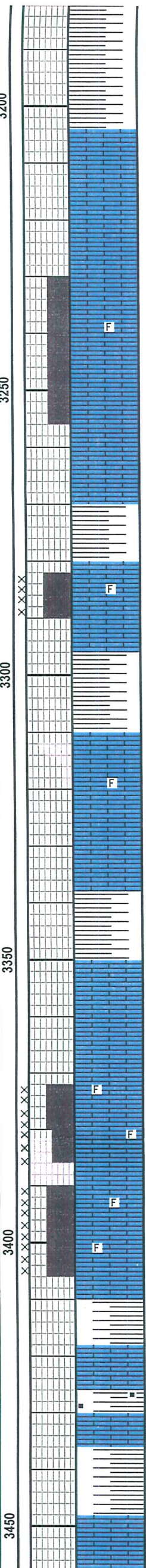
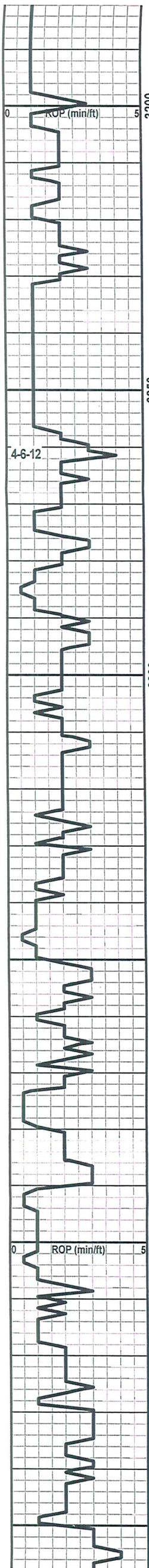
- + Feldspar
- S Sulphur
- F Foram
- C Dol
- MS Mudst
- Ferrpel
- V Tuff
- F Fossil
- D Dol
- PS Packst
- V Ferr
- G Gastro
- G Gyp
- Ls Ls
- WS Wackest
- Z Glau
- O Oolite
- Mrst Mrst

OTHER SYMBOLS

- POROSITY**
 E Earthy
 B Fenest
 F Fracture
 X Inter
 M Moldic
 O Organic
 P Pinpoint
- V Vuggy
SORTING
 W Well
 M Moderate
 P Poor
- ROUNDING**
 R Rounded
 r Subrnd
 a Subang
 A Angular
- Spotted
 Ques
 Dead
INTERVAL
 Dst
 Dst
- EVENT**
 Rft
 Sidewall

- OIL SHOW
 Even





LS gy buff,hd,foss, dirty,slty,p por,ns

LS buff,gy,frm,foss, sl chky,p-fr por,ns

LS buff,hd,dirty,p por,ns with thin SH aa

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

SH gy,red,gn,some blk,fiss

LS buff,hd,foss,dirty, p por,ns

SH aa

LS buff,hd,micxn,ns

LS buff,frm,v foss,g intgr por,ns with v thin LS brn,v hd,dns

LS aa v foss,fr por,ns

SH blk,gn,red,frm,fiss

LS lt brn,v hd,dns

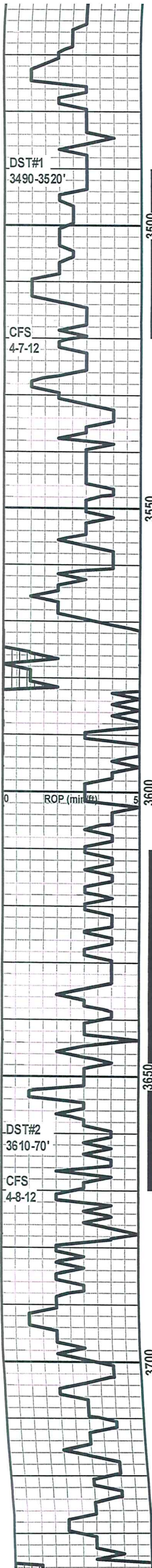
SH blk,frm,fiss,carb

LS lt brn,buff,v hd, dns

SH gy,gn,frm,arg

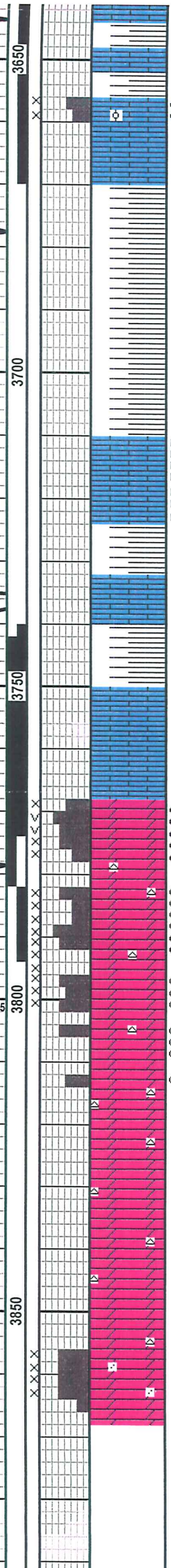
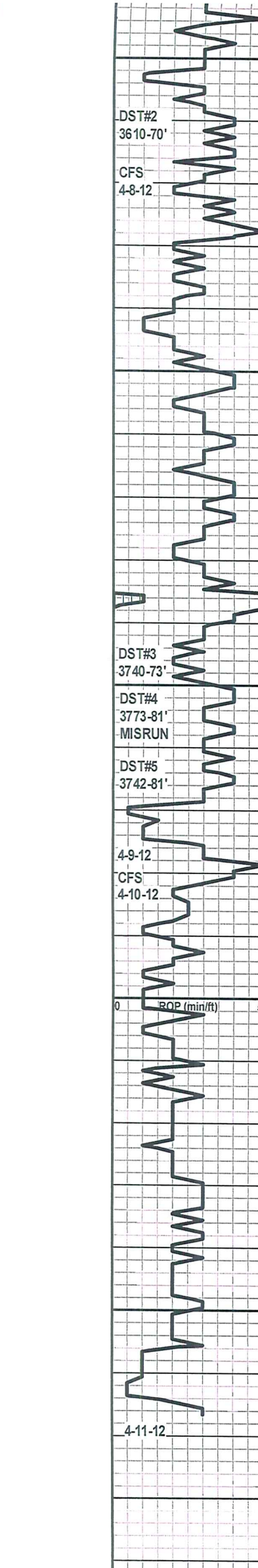
LS buff,v hd,dns,ns

		TG, C1-C5			
1	10	100	1000		
TOPEKA					
3204(-932) S					
3217(-945) L					
35' TOPEKA					
3231(-959) S					
3244(-972) L					
MUD DATA 3337'					
WT 9.2 VIS 49					
FL 7.6 Ph 12.0					
CK 1 CL 1000					
PLATTSMOUTH					
3390(-1118) S					
3394(-1122) L					
		TG, C1-C5			
1	10	100	1000		
HEEBNER					
3426(-1154) S					
3428(-1156) L					
TORONTO					
3450(-1178) S					
3454(-1182) L					



SH red,v sft,v arg
 LS wh,frm,ch ky,p por,ns,abnt Cht wh
 LS wh,buff,v hd, dns,ns
 LS wh,frm,foss, sl chky,p intg por,v spty faint brn stn,p cut
 SH red,gn,sft,arg
 LS buff,frm,v oolitic,fr-g intg & moldic por,spty-even live brn stn,g cut & odor,no free oil
 LS buff,v hd,dns,
 SH red,v sft,arg
 LS buff,v hd,dns,
 LS wh,buff,hd,sl oolitic,p vuggy por,v spty blk asph oil,g cut
 LS buff,v hd,dns, with v thin SH aa
 LS wh,frm,v chky, sl sdy,p visible por,ns
 LS buff,v hd,dns,aa
 LS gy,v hd,v dns, abnt Cht gy thin SH aa
 LS buff,v hd,dns,p por,tr blk dd stn,p cut
 SH gn,frm,wxy
 LS buff,frm,oolitic, p-fr intg & xln por,spty live brn stn,g cut & odor,fr show free oil
 LS v dns,aa & SH aa
 LS buff,v hd,dns,ns, abnt Cht wh,orng with thin SH aa
 LS wh,frm,oolitic,sl chky,p-fr intg por,spty live brn stn,g cut & odor,fr show free oil
 LS buff,v hd,dns,ns
 SH gy,gn,red,sft,arg
 LS wh,frm,chky, sdy,p por,spty dd blk stn
 SH aa
 LS buff,v hd,dns,ns

LANSING A				
3470(-1198) S				
3468(-1196) L				
				DST#1 3490-3520' 15-30-60-90" IH 1781 IF 21-74 (blt to 4") ISI 188 FF 78-147 (blt to 2") FSI 192 FH 1678 REC: 270' TOTAL FLUID
B ZONE				
3508(-1236) S				
3508(-1236) L				90' OCWM (5%O, 35%W & 60%M) & 180' MW (75% W & 25%M)
C ZONE				
3530(-1258) S				
3528(-1256) L				MUD DATA 3520' WT 9.3 VIS 60 FL 8.0 Ph 11.0 CK 1 CL 1500
E ZONE				
3548(-1276) S				
3546(-1274) L				
G ZONE				
3564(-1292) S				
3566(-1294) L				
		TG, C1-C5	10	100
H ZONE				
3602(-1330) S				
3604(-1332) L				
I ZONE				
3622(-1350) S				
3624(-1352) L				DST#2 3610-70' 15-30-60-90" IH 1881 IF 43-49 (wk blw dd in 14") ISI 603 FF 51-71 FSI 624 FH 1773 REC: 70' MUD
K ZONE				
3638(-1366) S				
3639(-1367) L				
L ZONE				
3646(-1374) S				
3656(-1384) L				MUD DATA 3670' WT 9.4 VIS 61 FL 8.0 Ph 11.0 CK 1 CL 2000
MARMATON				
3710(-1438) S				
3712(-1440) L				
				DST#3 3740-73' 15-30-60-90" IH 1915 IF 32-34 (wk blw) ISI 838 IF 36-44 (wk blw) FSI 983



LS buff, v hd, dns, ns, abnt Cht wh, org with thin SH aa

LS wh, frm, oolitic, sl chky, p-fr intg por, spty live brn stn, g cut & odor, fr show free oil

LS buff, v hd, dns, ns

SH gy, gn, red, sft, arg

LS wh, frm, chky, sdy, p por, spty dd blk stn

SH aa

LS buff, v hd, dns, ns

SH mar, gn, ble, frm, fiss

LS wh, frm, sdy, v chky, p por, ns

DOL buff, sl hd, micsuc tex, gd xln & vuggy por, even brn live stn, v g cut & odor, v g show free oil

DOL buff, frm, micsuc tex, g intxn & vuggy por, even stn, v g cut & odor, gsfo

DOL buff, hd, micxln, p-fr por, spty-even brn stn, g cut & odor, abnt Cht wh, trnsl

DOL buff, sft, micsuc tex, crse xln, g intxn & vuggy por, even brn stn, v g cut & odor, v g show free oil

DOL aa sl hd, micsuc, fr-g por, spty stn, g cut & odor, fr show free oil

DOL buff, v hd, dns, ns, abnt Cht wh, trnsl

DOL buff, frm, micsuc, sdy ip, g por, ns

RTD 3867'

LTD 3870'

3638(-1366) S			
3639(-1367) L			
L ZONE			
3646(-1374) S		MUD DATA 3670'	
3656(-1384) L		WT 9.4 VIS 61	
		FL 8.0 Ph 11.0	
		CK 1 CL 2000	
MARMATON			
3710(-1438) S			
3712(-1440) L			
		DST#3 3740-73'	
		15-30-60-90"	
		IH 1915 IF 32-34	
		(wk blw) ISI 838	
		IF 36-44 (wk	
		blw) FSI 983	
		FH 1856	
		REC: 50' TOTAL	
		FLUID	
		10' CLN OIL &	
		40' OCM (25%O &	
		75%M)	
		DST#4 3773-81'	
		MISRUN	
		DST#5 3742-81'	
		15-30-60-90"	
		IH 1895 IF 42-73	
		(2" blw) ISI 932	
		FF 80-153	
		(1" blw) FSI 926	
		FH 1839	
		REC: 320' TOTAL	
		FLUID	
		140' CO & 180'	
		OCGM (10%G, 30	
		%O & 60%M)	
		MUD DATA 3793'	
		WT 9.3 VIS 48	
		FL 8.0 Ph 9.5	
		CK 1 CL 2500	
		LCM 1.5 +	
		DST#6 3782-93'	
		15-30-60-90"	
		IH 1950 IF 24-74	
		(1 1/2" blw) ISI	
		958 FF 54-124	
		(1" blw) FSI 940	
		FH 1880	
		REC: 270' TOTAL	
		FLUID	
		210 GO (10%G &	
		90%O) & 60'	
		OCWM (10%O, 40	
		%W & 50%M)	



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47252

DST#: 1

ATTN: Bryan Bynog

Test Start: 2012.04.07 @ 07:20:05

GENERAL INFORMATION:

Formation: **LKC"B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:00:30

Time Test Ended: 15:31:59

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 3490.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: ft

Serial #: 8017

Inside

Press@RunDepth: 147.97 psig @ 3491.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.07

End Date:

2012.04.07

Last Calib.:

2012.04.07

Start Time:

07:20:05

End Time:

15:31:59

Time On Btm:

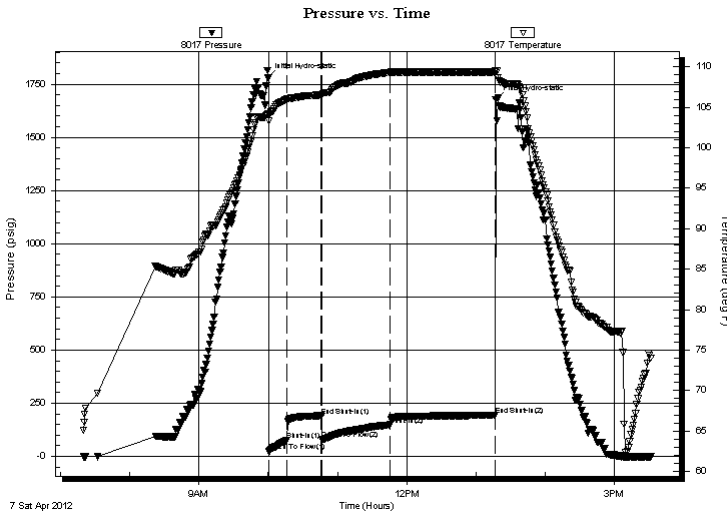
2012.04.07 @ 09:59:40

Time Off Btm:

2012.04.07 @ 13:16:59

TEST COMMENT: IF:(15min) 3" blow in 6 min. 4" in 15 min.
ISl:(30min) No Return
FF:(60min) 2" blow in 14 min. Decreased to 1" in 32 min.
FSl:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.62	104.13	Initial Hydro-static
1	21.92	103.31	Open To Flow (1)
17	74.41	106.03	Shut-In(1)
47	188.45	106.53	End Shut-In(1)
47	78.91	106.48	Open To Flow (2)
106	147.97	109.31	Shut-In(2)
197	192.58	109.35	End Shut-In(2)
198	1678.20	109.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW m=25% w=75%	0.89
90.00	OCWM o=5% w=35% m=60%	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47252

DST#: 1

ATTN: Bryan Bynog

Test Start: 2012.04.07 @ 07:20:05

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MW m=25% w=75%	0.885
90.00	OCWM o=5% w=35% m=60%	0.443

Total Length: 270.00 ft Total Volume: 1.328 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

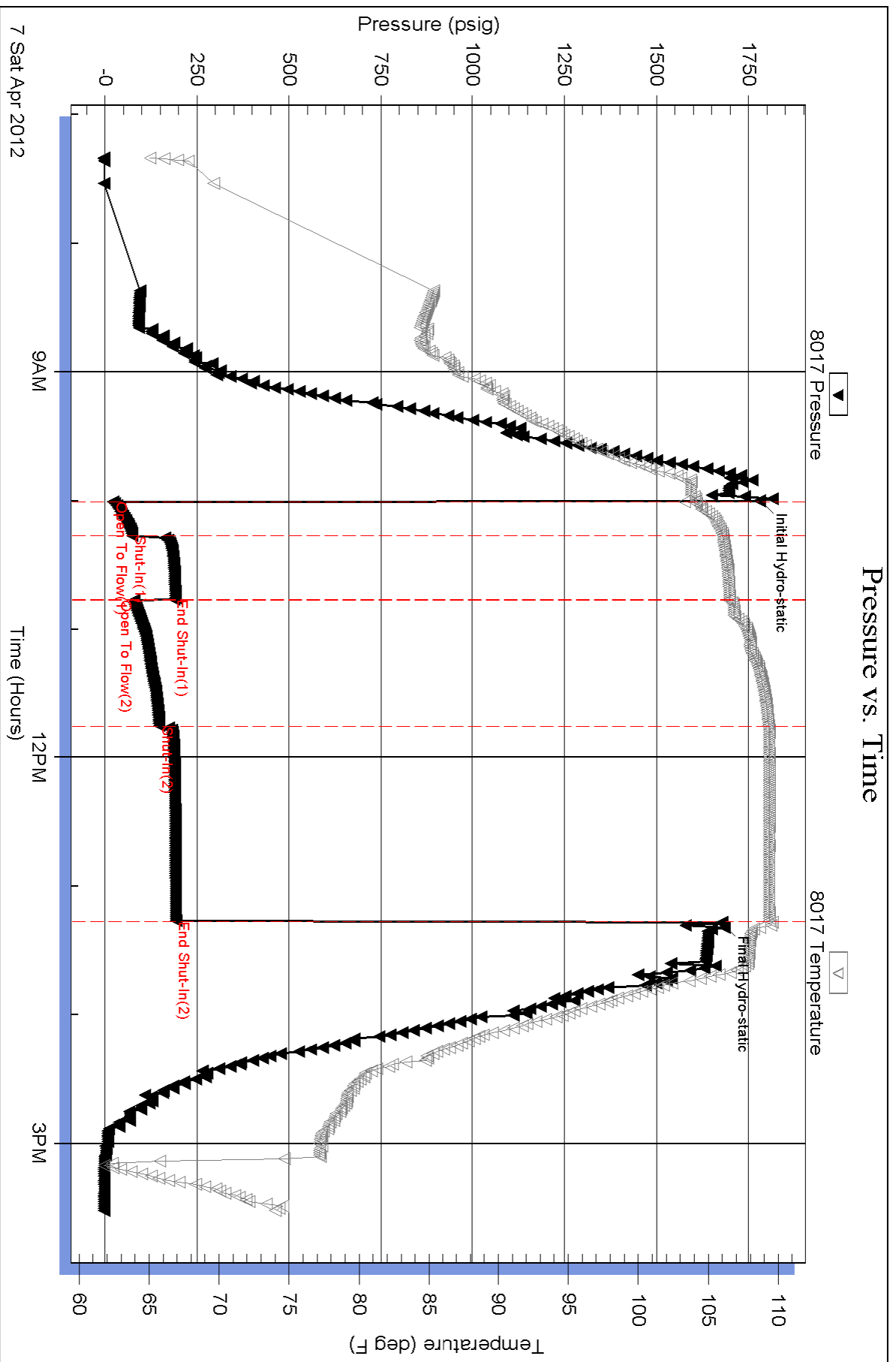
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47253

DST#: 2

ATTN: Bryan Bynog

Test Start: 2012.04.08 @ 08:31:05

GENERAL INFORMATION:

Formation: **LKC"I,J,K+L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:20:50

Time Test Ended: 16:29:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3610.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: ft

Serial #: 8647 Outside

Press @ Run Depth: 71.71 psig @ 3615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.08

End Date:

2012.04.08

Last Calib.:

2012.04.08

Start Time:

08:31:05

End Time:

16:29:20

Time On Btm:

2012.04.08 @ 11:20:30

Time Off Btm:

2012.04.08 @ 14:36:29

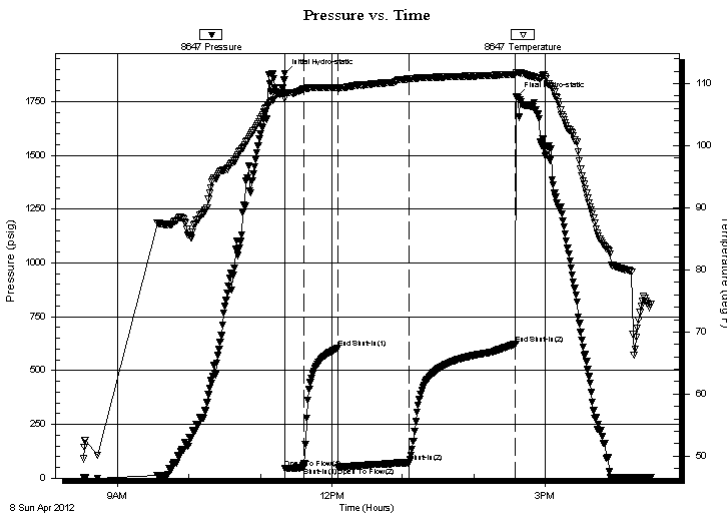
TEST COMMENT: IF:(15min) Blow died in 14 min.

IS:(30min) No Return

FF:(60min) No Blow

FS:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1881.04	108.44	Initial Hydro-static
1	43.44	107.54	Open To Flow (1)
17	49.43	109.12	Shut-In(1)
45	603.21	109.39	End Shut-In(1)
46	51.39	109.10	Open To Flow (2)
105	71.71	110.73	Shut-In(2)
195	624.07	111.40	End Shut-In(2)
196	1773.82	111.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud	0.34

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47253

DST#: 2

ATTN: Bryan Bynog

Test Start: 2012.04.08 @ 08:31:05

GENERAL INFORMATION:

Formation: **LKC"I,J,K+L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:20:50

Time Test Ended: 16:29:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3610.00 ft (KB) To 3670.00 ft (KB) (TVD)

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3670.00 ft (KB) (TVD)

ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: ft

Serial #: 8017 Inside

Press @ Run Depth: psig @ 3615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.08

End Date:

2012.04.08

Last Calib.:

2012.04.08

Start Time: 08:31:05

End Time:

16:30:50

Time On Btm:

Time Off Btm:

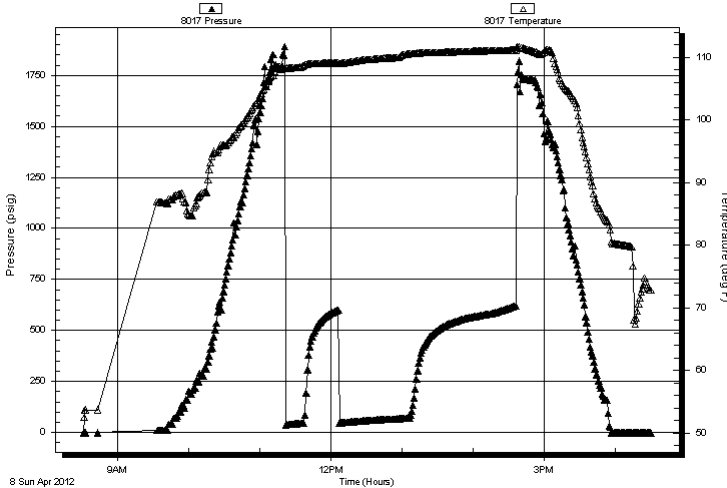
TEST COMMENT: IF:(15min) Blow died in 14 min.

IS:(30min) No Return

FF:(60min) No Blow

FS:(90min) No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Mud	0.34

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47253

DST#: 2

ATTN: Bryan Bynog

Test Start: 2012.04.08 @ 08:31:05

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Mud	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

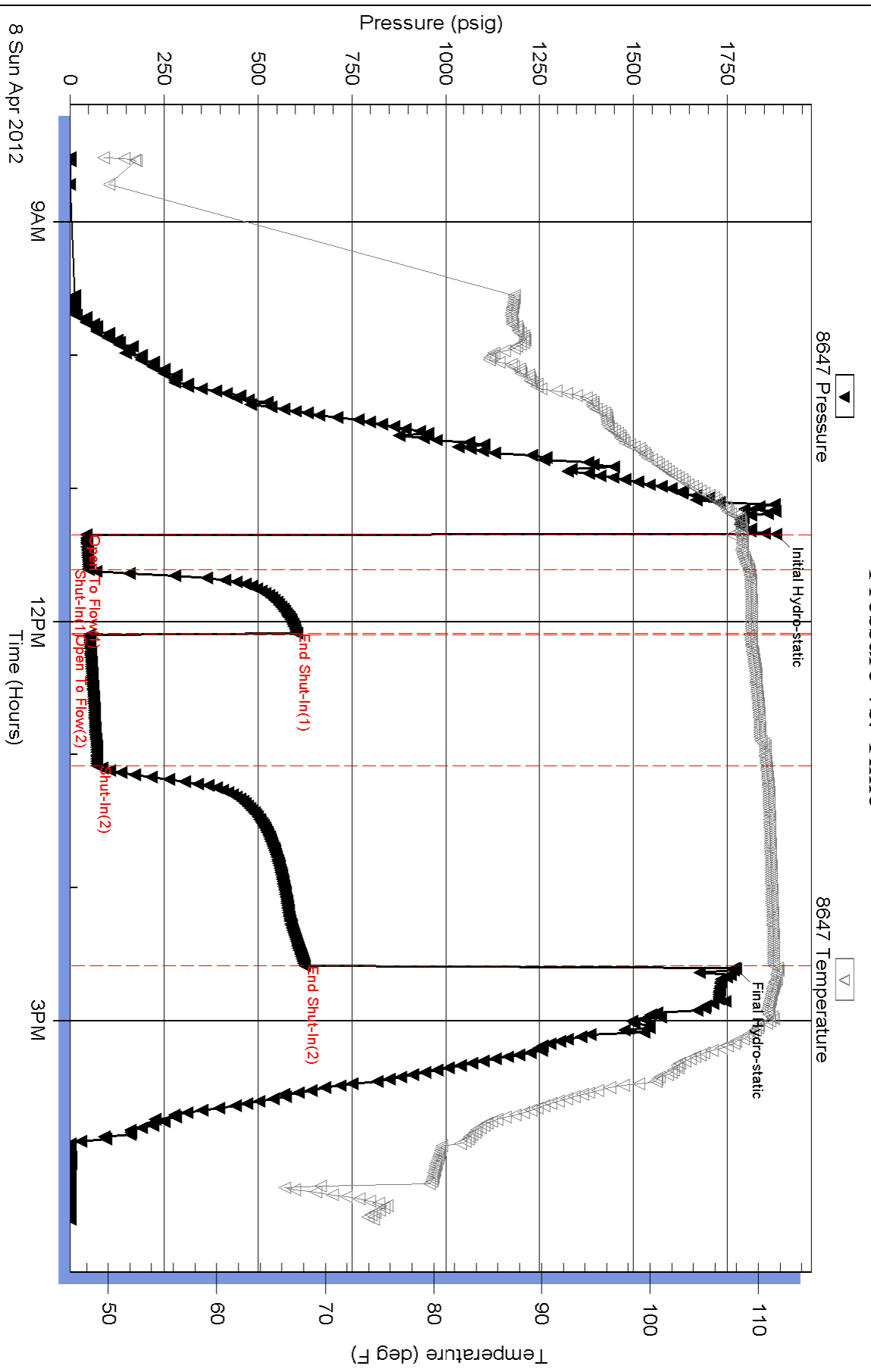
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



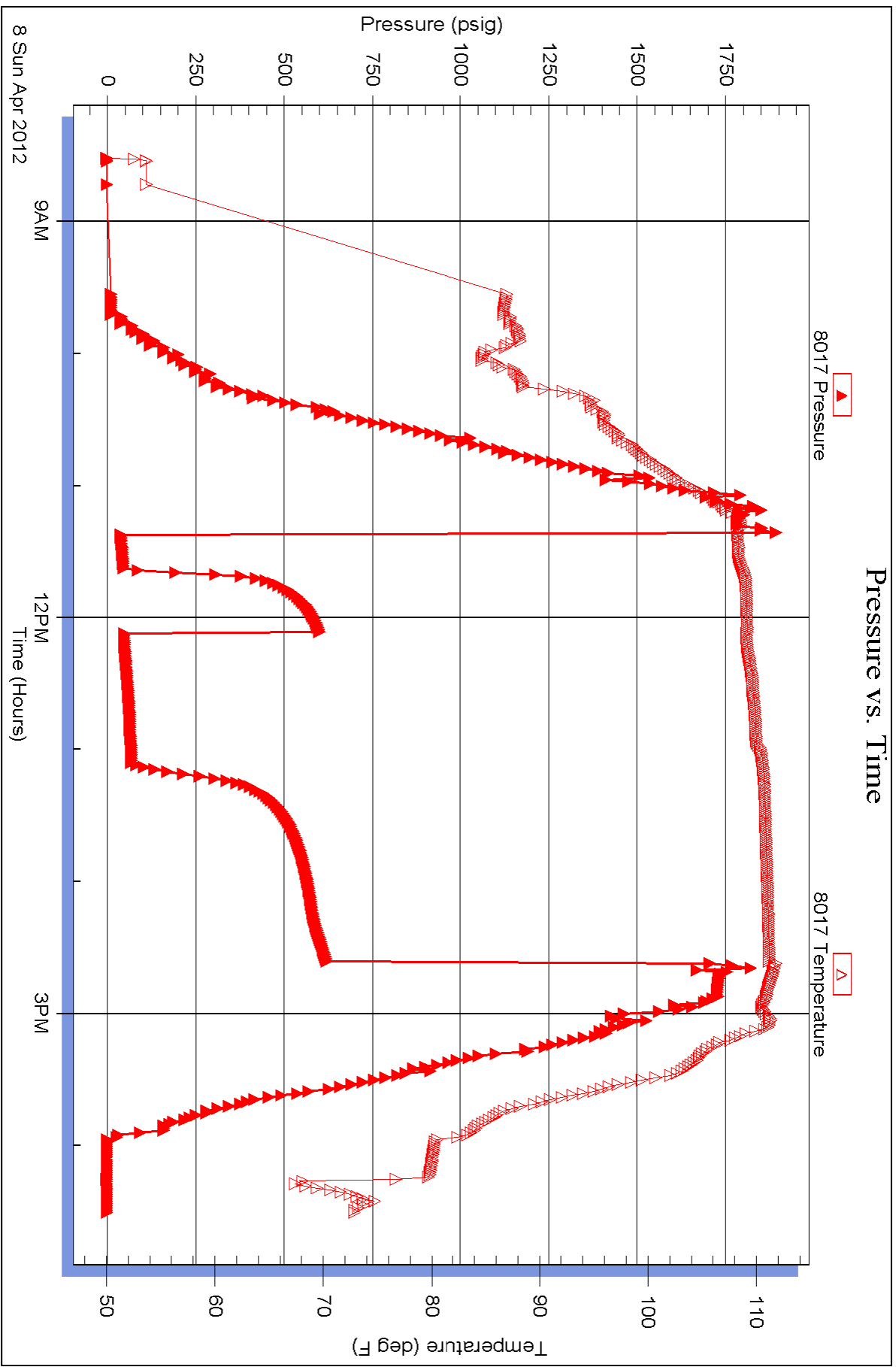
Serial #: 8017

Inside

Berexco LLC

Codey # B-21

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47254

DST#: 3

ATTN: Bryan Bynog

Test Start: 2012.04.09 @ 04:40:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:01:30

Time Test Ended: 12:07:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3740.00 ft (KB) To 3773.00 ft (KB) (TVD)

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3773.00 ft (KB) (TVD)

2266.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647 Outside

Press @ Run Depth: 44.77 psig @ 3741.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.09 End Date: 2012.04.09

Last Calib.: 2012.04.09

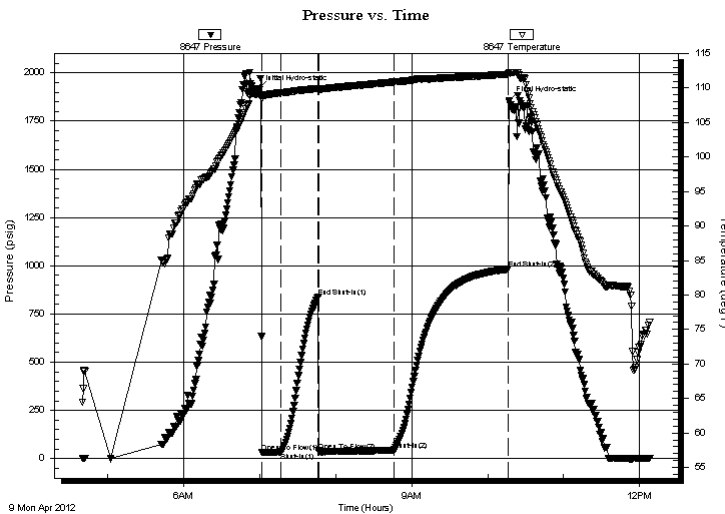
Start Time: 04:40:05 End Time: 12:07:59

Time On Btm: 2012.04.09 @ 06:59:00

Time Off Btm: 2012.04.09 @ 10:16:59

TEST COMMENT: IF:(15min) Weak surface blow
ISl:(30min) No Return
FF:(60min) Weak surface blow , Died in 16 min.
FSl:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.80	109.02	Initial Hydro-static
3	32.09	108.40	Open To Flow (1)
18	34.86	109.26	Shut-In(1)
48	838.55	109.92	End Shut-In(1)
48	36.98	109.75	Open To Flow (2)
108	44.77	110.87	Shut-In(2)
198	983.40	112.00	End Shut-In(2)
198	1856.33	112.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM o=25% m=75%	0.20
10.00	CO o=100%	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47254

DST#: 3

ATTN: Bryan Bynog

Test Start: 2012.04.09 @ 04:40:05

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	OCM o=25% m=75%	0.197
10.00	CO o=100%	0.049

Total Length: 50.00 ft Total Volume: 0.246 bbl

Num Fluid Samples: 0

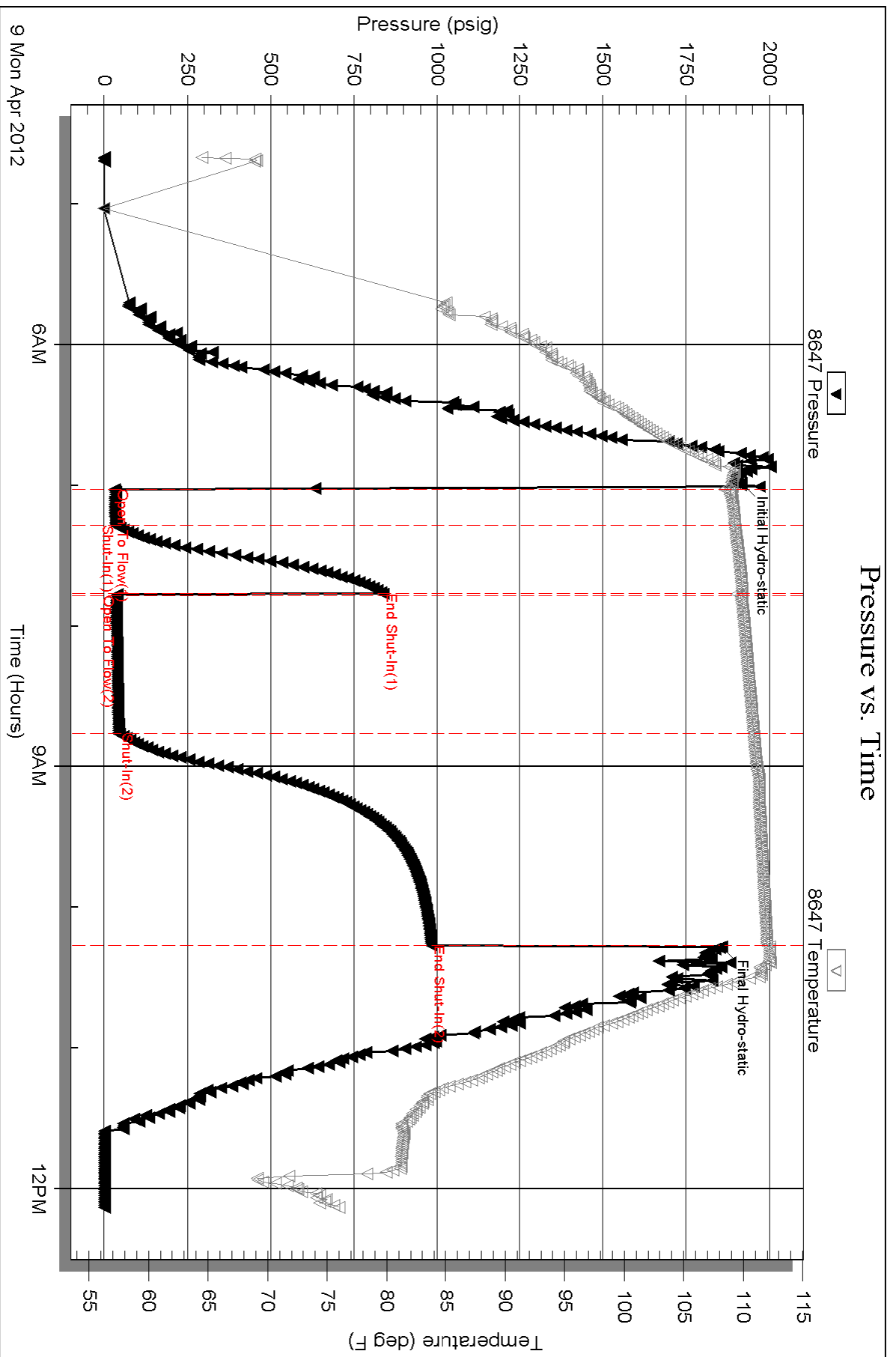
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47255

DST#: 4

ATTN: Bryan Bynog

Test Start: 2012.04.09 @ 19:05:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 23:37:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3773.00 ft (KB) To 3781.00 ft (KB) (TVD)

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3781.00 ft (KB) (TVD)

2266.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647 Outside

Press @ Run Depth: psig @ 3774.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.09

End Date:

2012.04.09

Last Calib.:

2012.04.09

Start Time: 19:05:05

End Time:

23:37:10

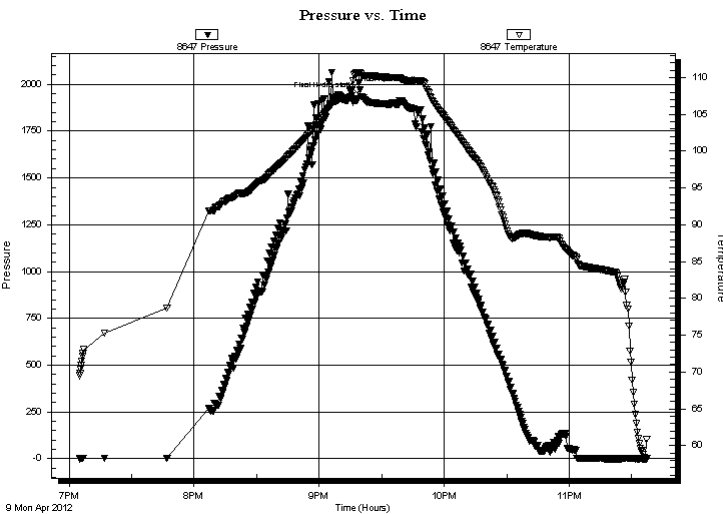
Time On Btm:

2012.04.09 @ 21:15:10

Time Off Btm:

2012.04.09 @ 21:20:10

TEST COMMENT: Misrun- Packer Failure



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.19	107.42	Initial Hydro-static
5	1934.02	110.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	Drilling Mud	1.33

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47255

DST#: 4

ATTN: Bryan Bynog

Test Start: 2012.04.09 @ 19:05:05

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	Drilling Mud	1.328

Total Length: 270.00 ft Total Volume: 1.328 bbl

Num Fluid Samples: 0

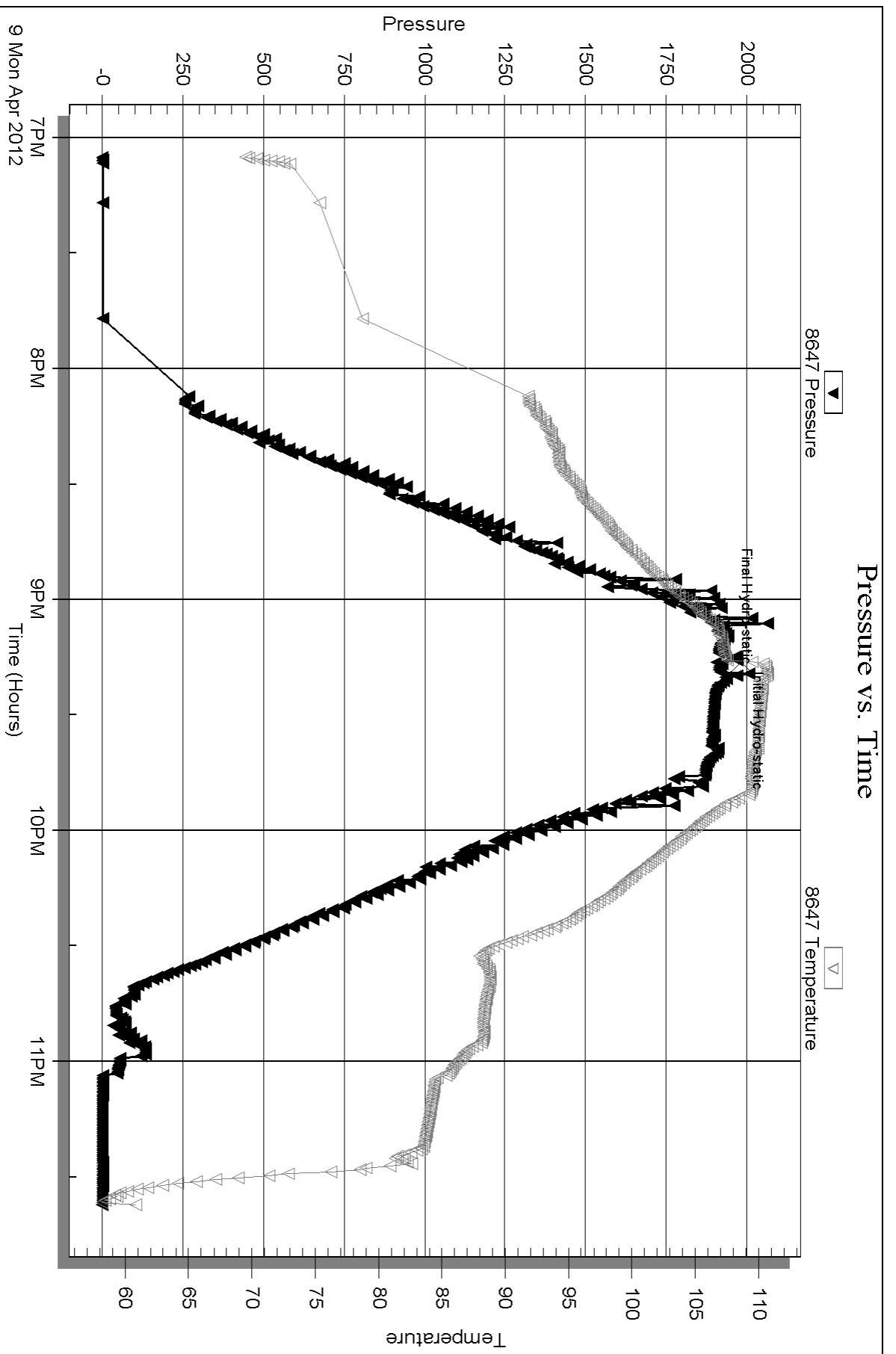
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47256

DST#: 5

ATTN: Bryan Bynog

Test Start: 2012.04.10 @ 00:14:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:16:00

Time Test Ended: 08:01:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3739.00 ft (KB) To 3781.00 ft (KB) (TVD)

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3781.00 ft (KB) (TVD)

2266.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647 Outside

Press @ Run Depth: 153.96 psig @ 3744.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.10

End Date:

2012.04.10

Last Calib.:

2012.04.10

Start Time: 00:14:05

End Time:

08:01:59

Time On Btm:

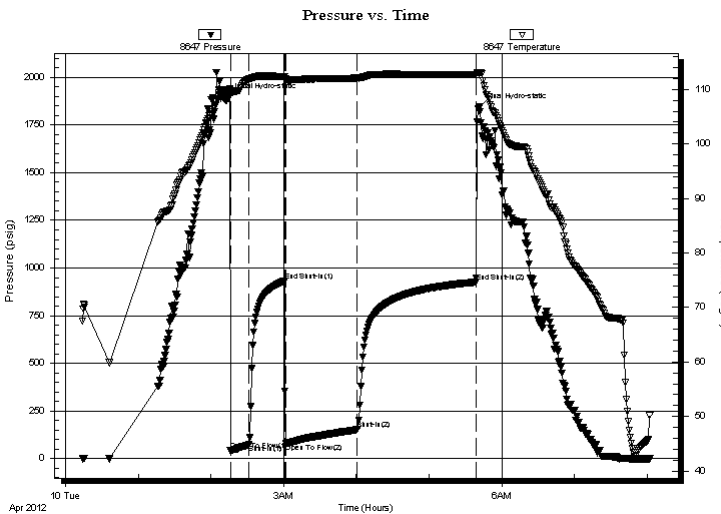
2012.04.10 @ 02:13:50

Time Off Btm:

2012.04.10 @ 05:41:20

TEST COMMENT: IF:(15min) 2" blow
IS:(30min) No Return
FF:(60min) 1" blow
FS:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.03	109.88	Initial Hydro-static
3	42.35	109.32	Open To Flow (1)
18	73.71	111.88	Shut-In(1)
48	932.40	112.31	End Shut-In(1)
48	80.96	111.99	Open To Flow (2)
107	153.96	112.06	Shut-In(2)
205	926.22	112.75	End Shut-In(2)
208	1839.23	113.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCGM g=10% o=30% m=60%	0.89
140.00	CO o=100%	0.69

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47256

DST#: 5

ATTN: Bryan Bynog

Test Start: 2012.04.10 @ 00:14:05

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OCCGM g=10% o=30% m=60%	0.885
140.00	CO o=100%	0.688

Total Length: 320.00 ft Total Volume: 1.573 bbl

Num Fluid Samples: 0

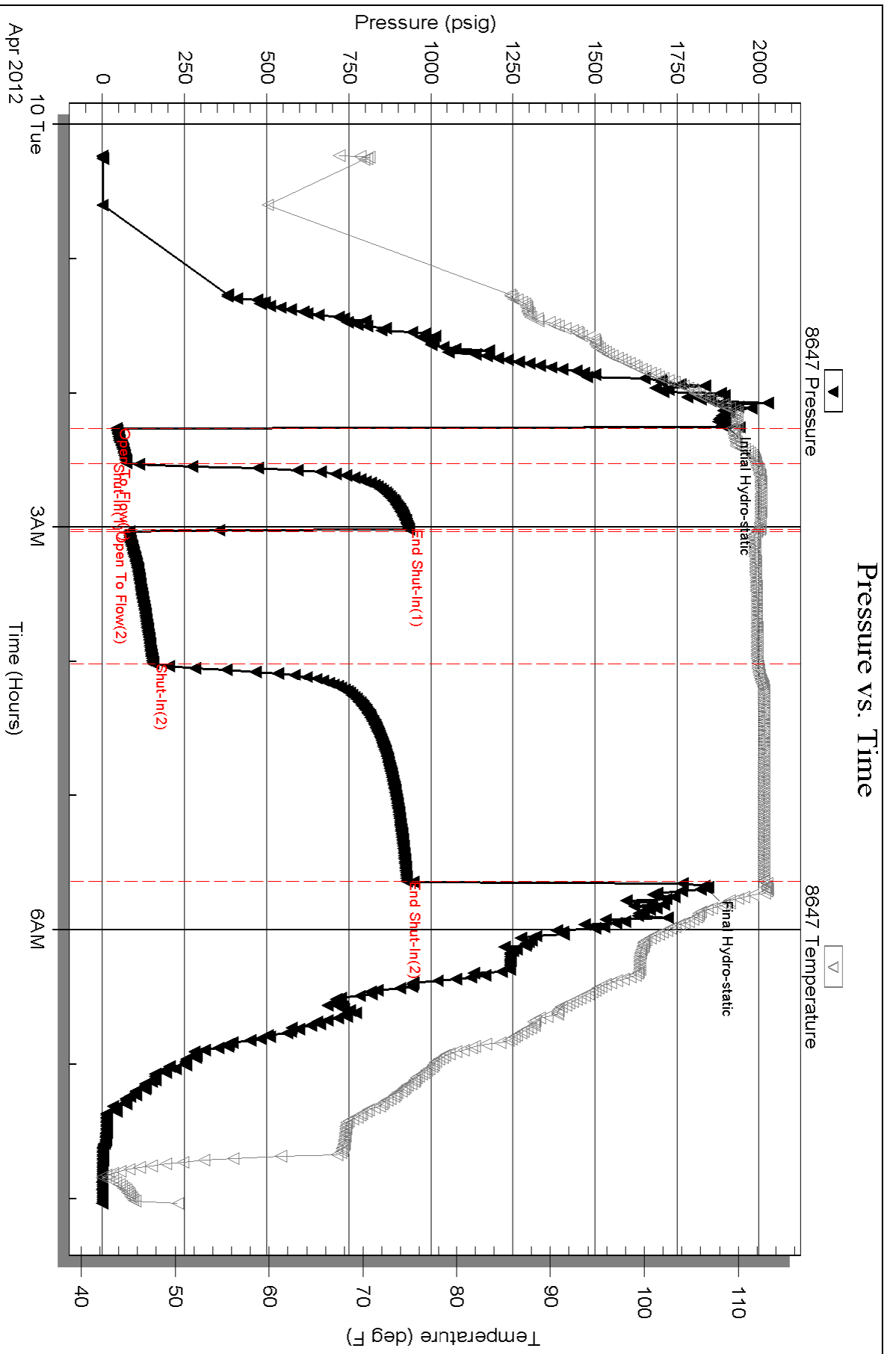
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47257

DST#: 6

ATTN: Bryan Bynog

Test Start: 2012.04.10 @ 14:43:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:35:20

Time Test Ended: 22:03:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3782.00 ft (KB) To 3793.00 ft (KB) (TVD)

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3793.00 ft (KB) (TVD)

2266.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8647 Outside

Press @ Run Depth: 47.43 psig @ 3783.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.10

End Date: 2012.04.10

Last Calib.: 2012.04.10

Start Time: 14:43:05

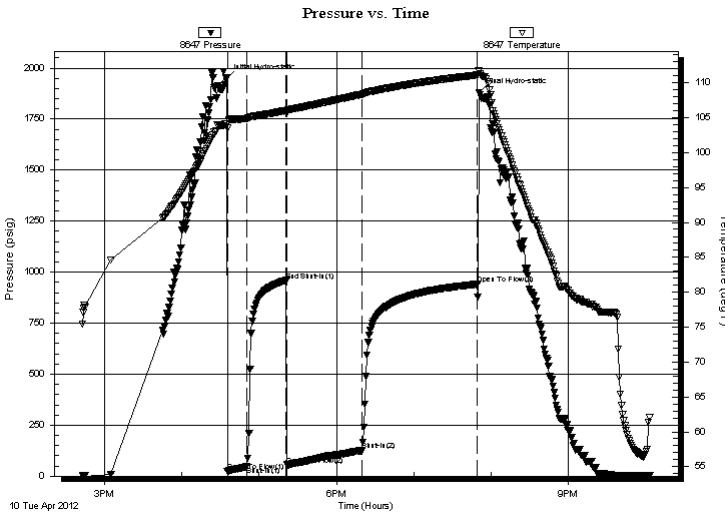
End Time: 22:03:29

Time On Btm: 2012.04.10 @ 16:34:30

Time Off Btm: 2012.04.10 @ 19:50:29

TEST COMMENT: IF:(15min) 1.5" Blow
IS:(30min) No Return
FF:(60min) 1" Blow
FS:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.07	104.12	Initial Hydro-static
1	24.28	103.49	Open To Flow (1)
16	47.43	104.91	Shut-In(1)
47	958.77	106.04	End Shut-In(1)
48	54.96	106.02	Open To Flow (2)
106	124.73	108.35	Shut-In(2)
195	940.74	111.12	Open To Flow (3)
196	1880.58	111.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCWM o=10% w=40% m=50%	0.30
210.00	GO g=10% o=90%	1.03

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC.

17-9s-21w Graham

2020 N. Bramblewood
Wichita, Ks. 67206+1094

Cooley # B-21

Job Ticket: 47257

DST#: 6

ATTN: Bryan Bynog

Test Start: 2012.04.10 @ 14:43:05

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCWM o=10% w=40% m=50%	0.295
210.00	GO g=10% o=90%	1.033

Total Length: 270.00 ft Total Volume: 1.328 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8647

Outside Berexco LLC

Codley # B-21

DST Test Number: 6

Pressure vs. Time

