



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1072081
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: _____

1072081

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

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

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <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	John 1
Doc ID	1072081

Tops

Name	Top	Datum
Topeka	2896	-926
Plattsmouth	3098	-1127
Heebner	3130	-1259
Toronto	3154	-1183
Lansing/KS City	3190	-1219
Pawnee	3520	-1549
Cherokee	3556	-1585
Viola	3602	-1631
RTD	3602	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 17, 2012

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

Re: ACO1
API 15-141-20440-00-00
John 1
NW/4 Sec.34-09S-15W
Osborne 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 CEMENTING CO., LLC. 035197

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
RUSSELL

DATE <u>1-2-12</u>	SEC. <u>34</u>	TWP. <u>9 S</u>	RANGE <u>15 W</u>	CALLED OUT	ON LOCATION	JOB START <u>11 AM</u>	JOB FINISH <u>11:30 PM</u>	
LEASE <u>JOHN</u>		WELL # <u>1</u>		WELL FILE		LOCATION <u>NATOMA KS</u>	COUNTY	
OLD OR NEW (Circle one)			LOCATION <u>1/4 E TO Rd 657 - 4 N - 1 E - 1 S - EAST INTO</u>					STATE

CONTRACTOR Beredco #10

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 310

CASING SIZE 8 5/8 DEPTH 307

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 FT

PERFS.

DISPLACEMENT 18.5 bbl

OWNER

CEMENT

AMOUNT ORDERED 200 SK
3% OIL + 2% GEL

COMMON	<u>200</u>	@	<u>16.25</u>	<u>3250.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>21.25</u>	<u>85.00</u>
CHLORIDE		@		
ASC		@		
<u>CC</u>	<u>7</u>	@	<u>58.20</u>	<u>407.40</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>211</u>	@	<u>2.25</u>	<u>474.75</u>
MILEAGE	<u>31 x 211 x .11</u>			<u>719.51</u>
	<u>Drayage 6541</u>			
TOTAL				<u>4936.66</u>

REMARKS:

CMT CIRCULATED TO SURFACE

THANK YOU
BOB SMITH & CREW

CHARGE TO: BEREDCO BEREXCO

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 307

PUMP TRUCK CHARGE 1125 1125.00

EXTRA FOOTAGE 7 @ 0.95 6.65

MILEAGE 31 @ 7.00 217.00

MANIFOLD _____ @ _____

mileage 31 @ 4.00 124.00

TOTAL 1342.00

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL <u>0</u>		

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

PRINTED NAME Mylo Salinas

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 6278.66

DISCOUNT 24% IF PAID IN 30 DAYS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco Drilling LLC.

34-9s-15w Osborne

2020 N Bramblewood
Wichita Ks. 67206

John#1

Job Ticket: 44591

DST#: 1

ATTN: Bryon Bynog

Test Start: 2012.01.07 @ 07:30:05

GENERAL INFORMATION:

Formation: **LKC"B+C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:39:40

Time Test Ended: 16:43:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 3198.00 ft (KB) To 3245.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3245.00 ft (KB) (TVD)

1960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 48.82 psig @ 3205.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.07

End Date: 2012.01.07

Last Calib.: 2012.01.07

Start Time: 07:30:05

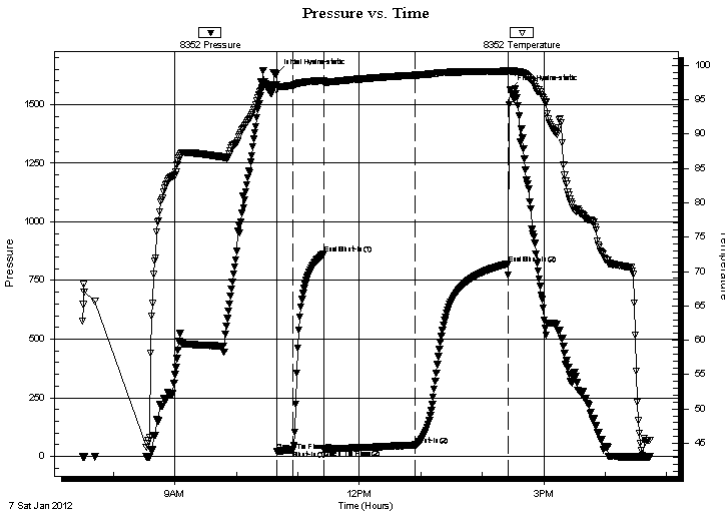
End Time: 16:43:39

Time On Btm: 2012.01.07 @ 10:39:10

Time Off Btm: 2012.01.07 @ 14:27:09

TEST COMMENT: IF:(15min) Built To 2 inches
IS:(30min) No Return
FF:(90min) 2 inch in 30 min. 3 inch in 68 min. 4 inch in 87 min
FS:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.67	97.21	Initial Hydro-static
1	20.00	96.30	Open To Flow (1)
17	27.38	97.06	Shut-In(1)
46	863.48	97.78	End Shut-In(1)
47	29.22	97.47	Open To Flow (2)
136	48.82	98.55	Shut-In(2)
226	821.80	99.14	End Shut-In(2)
228	1561.75	99.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
59.00	WM w =40% m=60%	0.29
1.00	Oil	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco Drilling LLC.

34-9s-15w Osborne

2020 N Bramblewood
Wichita Ks. 67206

John#1

Job Ticket: 44591

DST#: 1

ATTN: Bryon Bynog

Test Start: 2012.01.07 @ 07:30:05

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:

21000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 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
59.00	WM w =40% m=60%	0.290
1.00	Oil	0.005

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

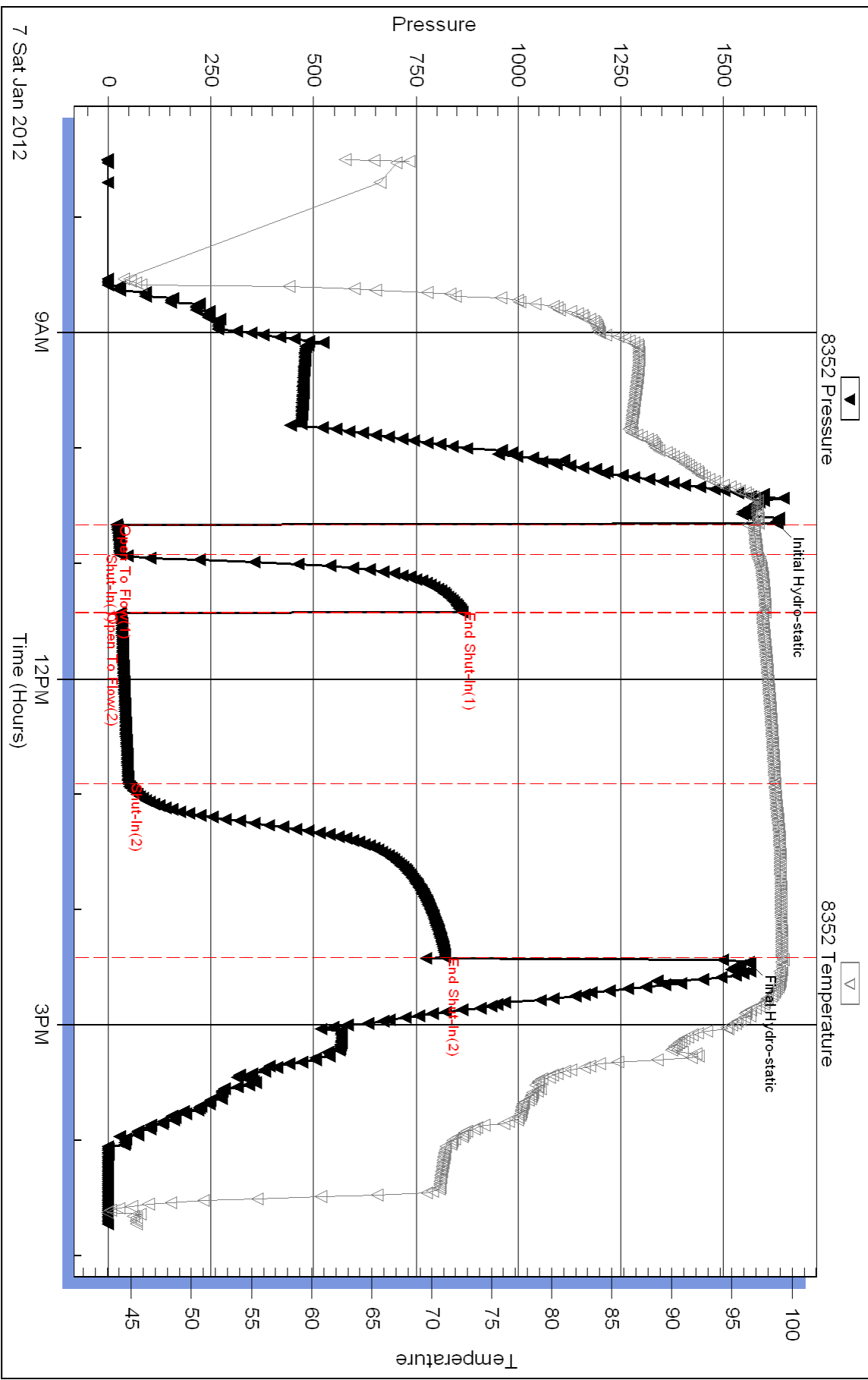
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity- .33 @ 64deg= 21000

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco Drilling LLC.
 2020 N Bramblewood
 Wichita Ks. 67206
 ATTN: Bryon Bynog

34-9s-15w Osborne
John#1
 Job Ticket: 44592 **DST#: 2**
 Test Start: 2012.01.08 @ 03:35:05

GENERAL INFORMATION:

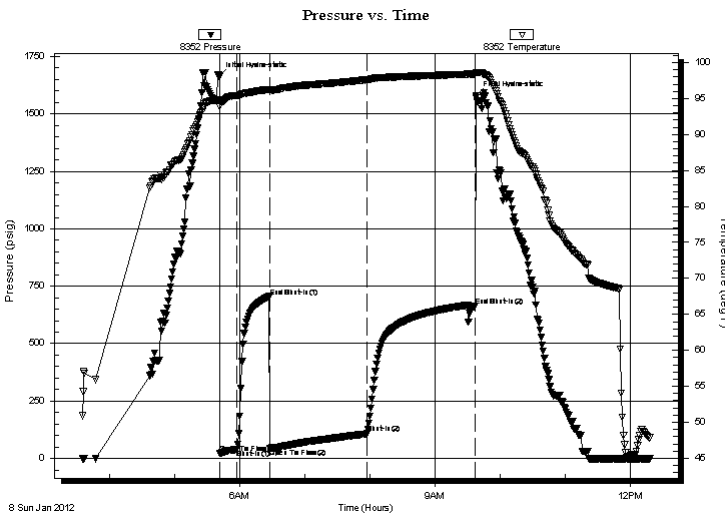
Formation: **LKC " F&G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:41:20
 Time Test Ended: 12:18:20
 Interval: **3245.00 ft (KB) To 3295.00 ft (KB) (TVD)**
 Total Depth: 3295.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1971.00 ft (KB)
 1960.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press @ RunDepth: 107.98 psig @ 3252.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.01.08 End Date: 2012.01.08 Last Calib.: 2012.01.08
 Start Time: 03:35:05 End Time: 12:18:20 Time On Btm: 2012.01.08 @ 05:40:40
 Time Off Btm: 2012.01.08 @ 09:37:59

TEST COMMENT: IF:(15min) 3 inch in 15 min.
 IS:(30min) No Return
 FF:(90min) 2 inch in 8 min, 4 inch in 25 min, 7 inch in 90 min.
 FS:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.82	94.86	Initial Hydro-static
1	21.39	93.90	Open To Flow (1)
17	40.30	95.38	Shut-In(1)
47	705.40	96.22	End Shut-In(1)
48	43.68	96.01	Open To Flow (2)
137	107.98	97.60	Shut-In(2)
237	664.22	98.39	End Shut-In(2)
238	1579.09	98.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OSMW o=tr m=45% w =55%	0.89

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco Drilling LLC.

34-9s-15w Osborne

2020 N Bramblewood
Wichita Ks. 67206

John#1

Job Ticket: 44592

DST#: 2

ATTN: Bryon Bynog

Test Start: 2012.01.08 @ 03:35:05

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:

25000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.75 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 bbf
180.00	OSMW o=tr m=45% w =55%	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

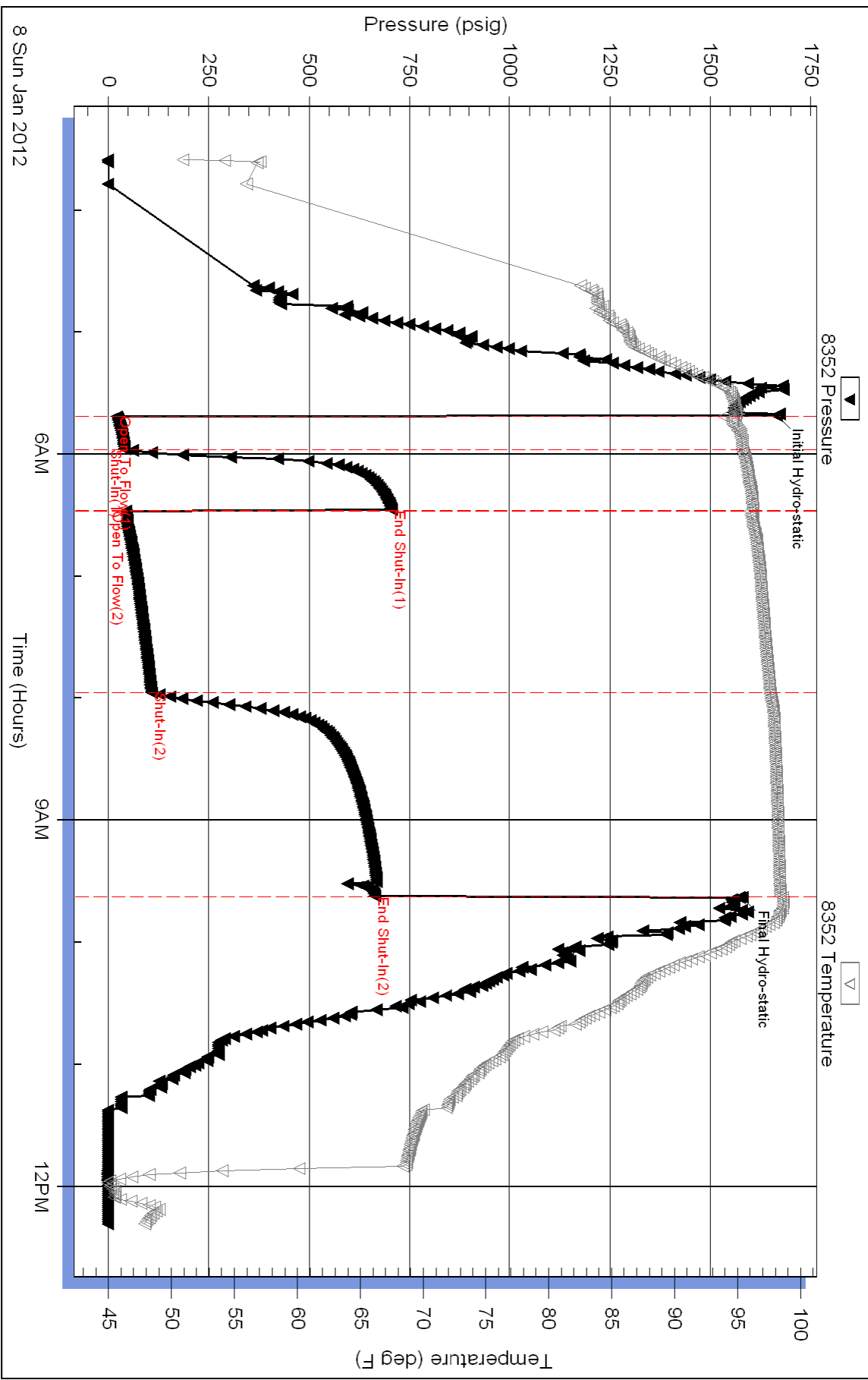
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity- .36 @ 50 deg = 25000

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco Drilling LLC.

34-9s-15w Osborne

2020 N Bramblewood
Wichita Ks. 67206

John#1

Job Ticket: 44593

DST#: 3

ATTN: Bryon Bynog

Test Start: 2012.01.09 @ 00:20:05

GENERAL INFORMATION:

Formation: **LKC"I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:52:30

Time Test Ended: 10:18:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3340.00 ft (KB) To 3390.00 ft (KB) (TVD)

Reference Elevations: 1971.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

1960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 30.85 psig @ 3347.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.09

End Date:

2012.01.09

Last Calib.:

2012.01.09

Start Time:

00:20:05

End Time:

10:18:50

Time On Btm:

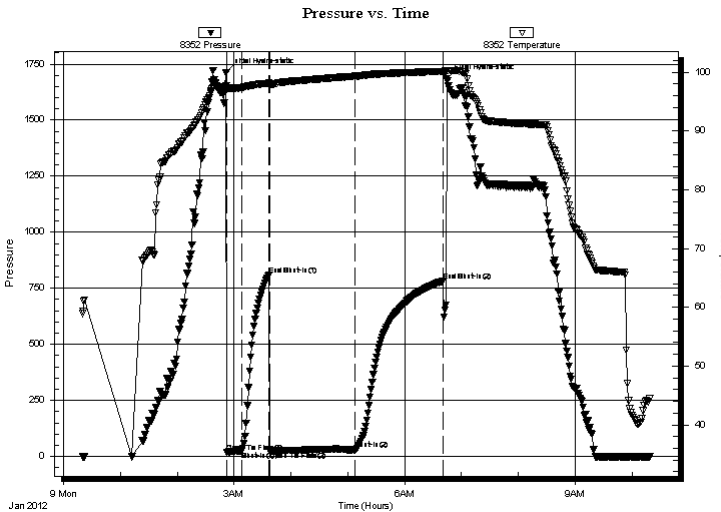
2012.01.09 @ 02:51:30

Time Off Btm:

2012.01.09 @ 06:44:50

TEST COMMENT: IF:(15min) Weak Surface Blow
IS:(30min) No Return
FF:(90min) No Blow
FS:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.45	97.65	Initial Hydro-static
1	19.52	97.15	Open To Flow (1)
17	23.73	97.40	Shut-In(1)
46	810.87	98.14	End Shut-In(1)
46	24.36	97.91	Open To Flow (2)
137	30.85	99.33	Shut-In(2)
229	782.63	100.17	End Shut-In(2)
234	1684.32	100.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w / slight oil spcks in tool	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 Drilling LLC.

34-9s-15w Osborne

2020 N Bramblewood
Wichita Ks. 67206

John#1

Job Ticket: 44593

DST#: 3

ATTN: Bryon Bynog

Test Start: 2012.01.09 @ 00:20:05

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w / slight oil spcks in tool	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

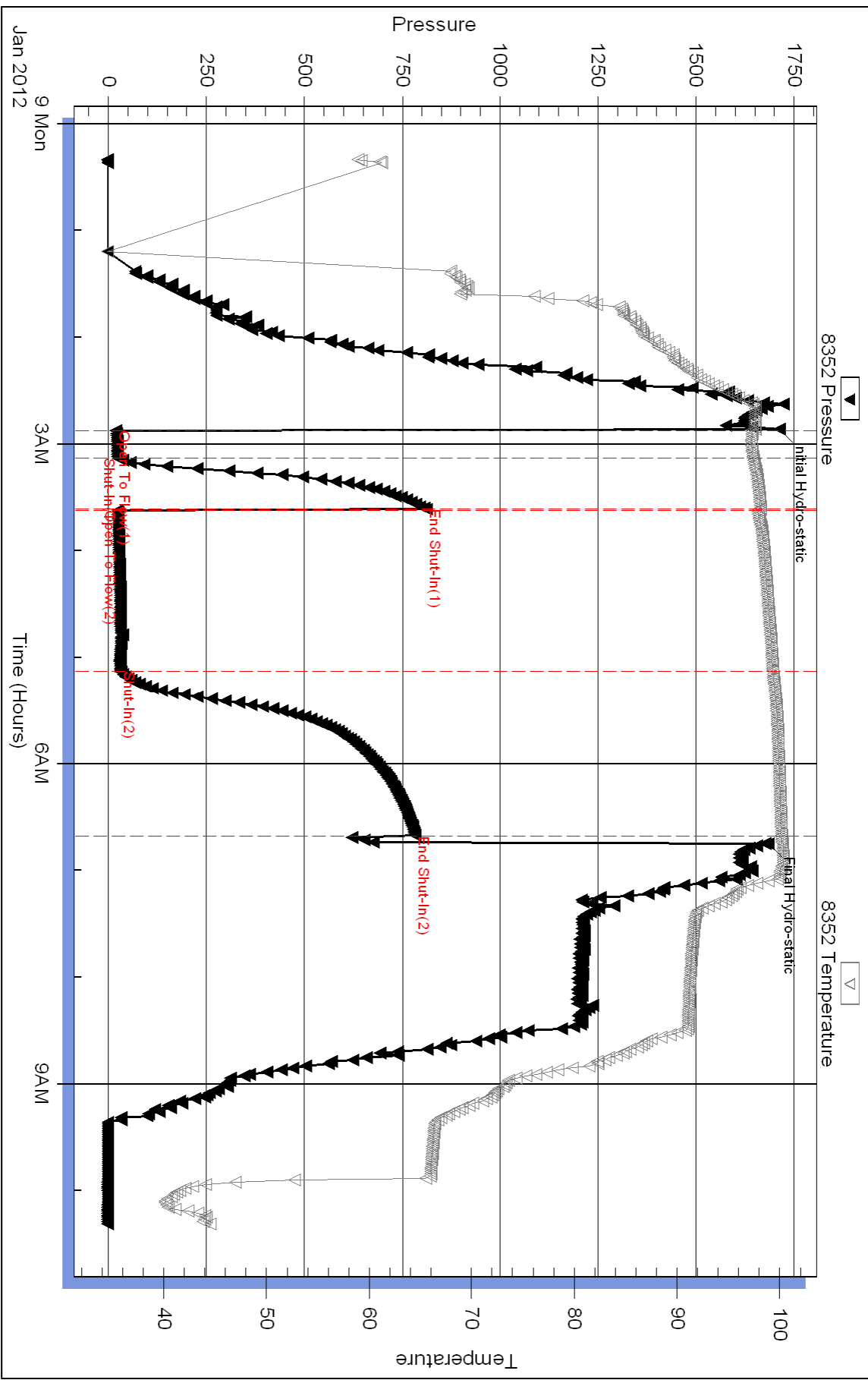
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: JOHN # 1
 Location: NESENW 34 9S-15W OSBORNE COUNTY, KS.
 Licence Number: 15-141-20440
 Spud Date: 1-2-2012
 Surface Coordinates: 3465' FSL & 2310' FWL

Region: MIDCONTINENT
 Drilling Completed: 1-10-2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1960
 Logged Interval (ft): 2700 To: 3700
 Formation: TOPEKA, LKC & CONG
 Type of Drilling Fluid: FRESH
 K.B. Elevation (ft): 1071
 Total Depth (ft): 3700

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

OPERATOR

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

GEOLOGIST

Name: WILLIAM B. BYNOG
 Company:
 Address: P.O. BOX 687
 PINECLIFFE, CO. 80471
 303-642-3681 OFFICE 303-250-0727 CELL

Cores


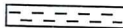



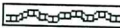


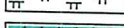
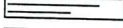
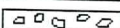
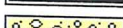



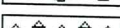
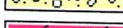

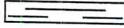

DSTs

DST#1 3198-3245, DST#2 3245-95, DST#3 3340-90




















































Comments

DRY HOLE

ROCK TYPES

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

ACCESSORIES

MINERAL		Gyp	FOSSIL		Ostra		Slststrg
	Anhy		Hvymin		Pelec		Ssstrg
	Arggrn		Kaol		Pellet	TEXTURE	
	Arg		Marl		Pisolite		Boundst
	Bent		Minxl		Plant		Chalky
	Bit		Nodule		Strom		Cryxln
	Brecfrag		Phos	STRINGER			Earthy
	Calc		Pyr		Anhy		Finexln
	Carb		Salt		Arg		Grainst
	Chtdk		Sandy		Bent		Lithogr
	Chtlt		Silt		Coal		Microxln
	Dol		Sil		Dol		Mudst
	Feldspar		Sulphur		Gyp		Packst
	Ferrpel		Tuff				



Ferr
Glau



Gastro
Oolite



Ls
Mrst



Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOW

- Even

Spotted

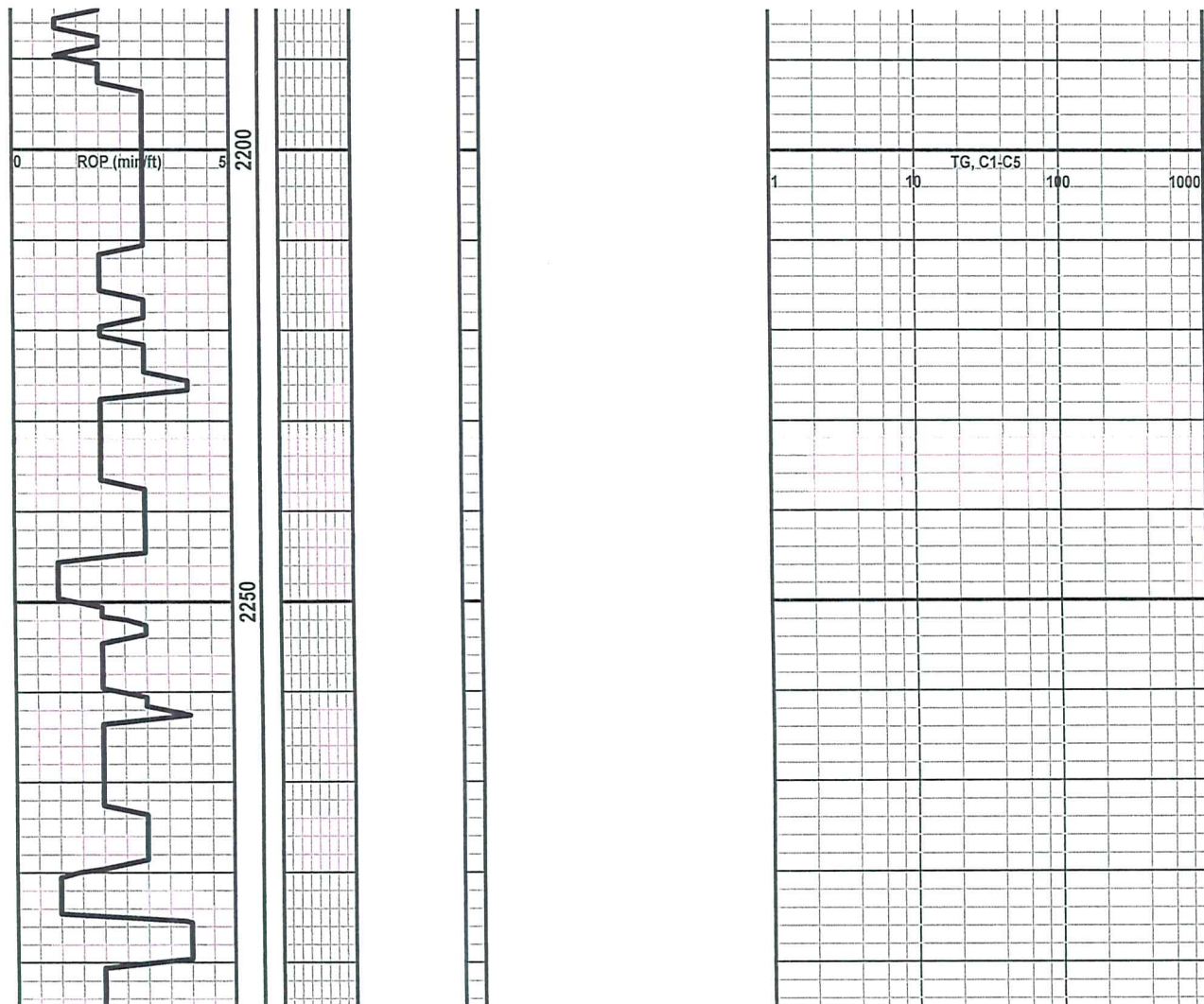
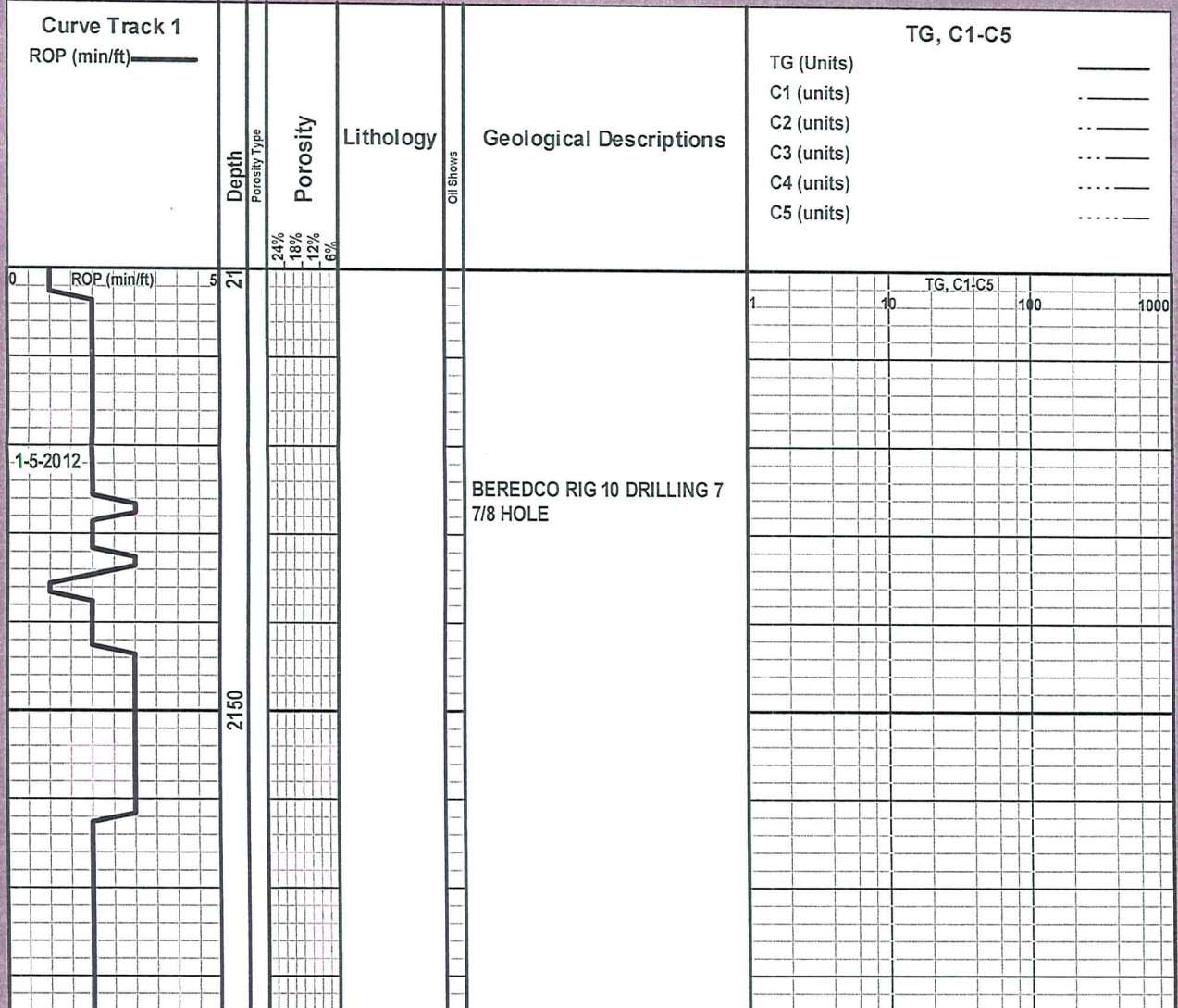
- Ques
- Dead

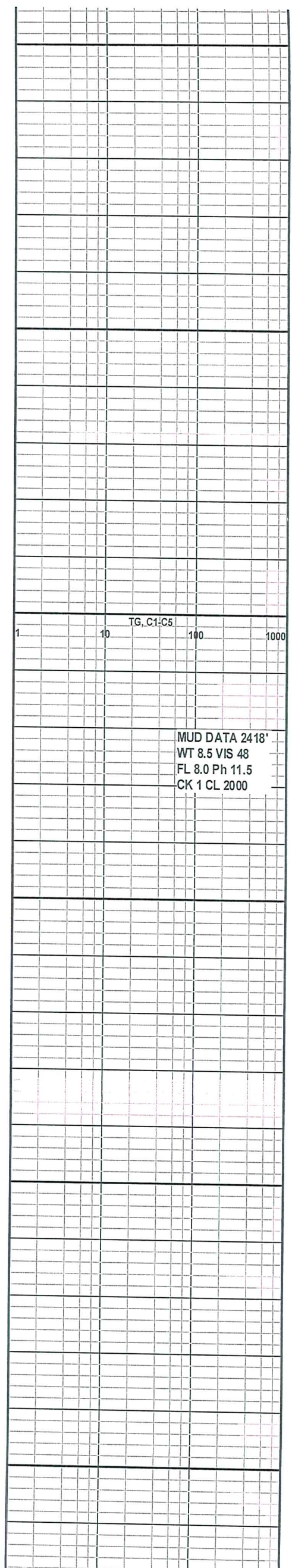
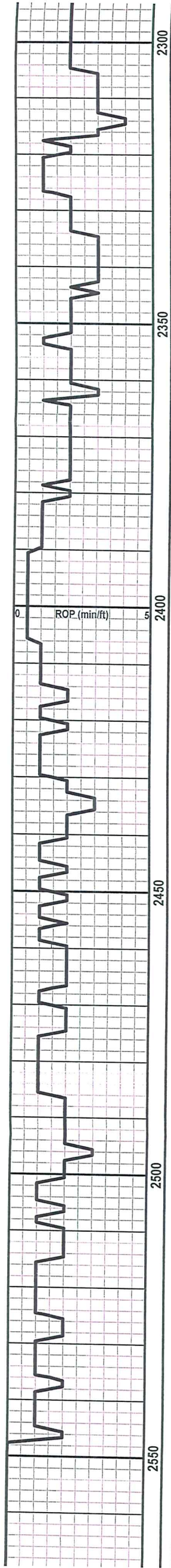
INTERVAL

- Dst
- Dst

EVENT

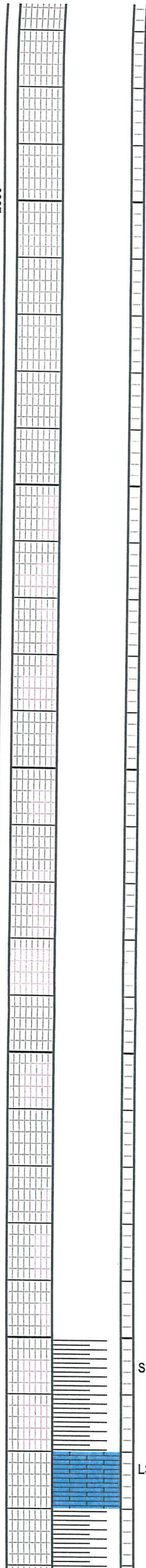
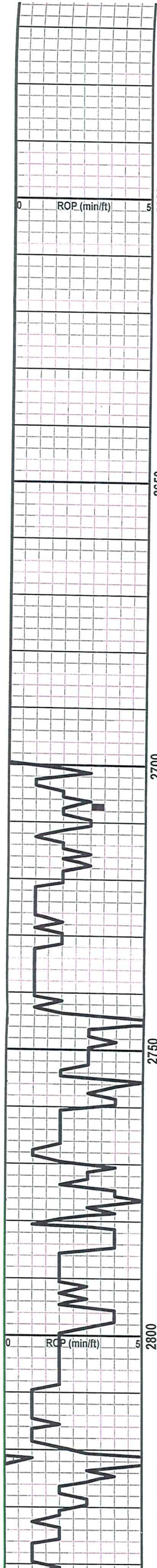
- Rft
- Sidewall





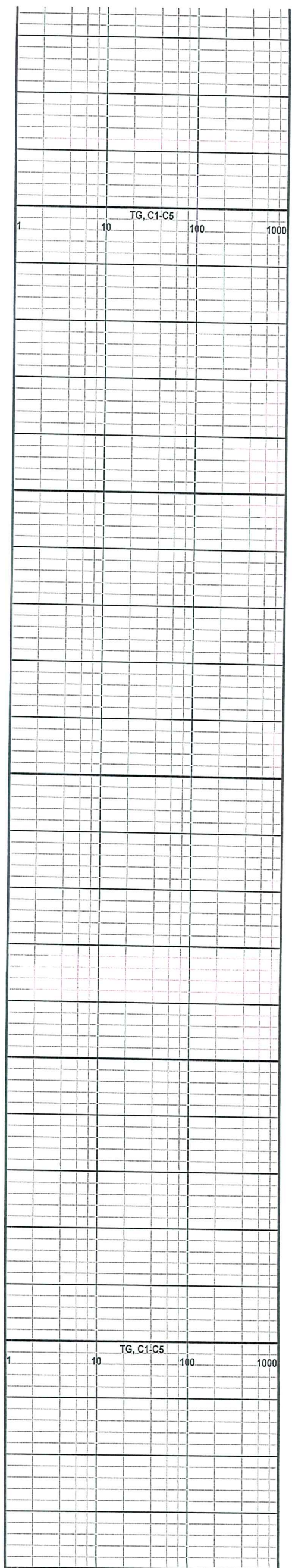
TG, C1-C5
1 10 100 1000

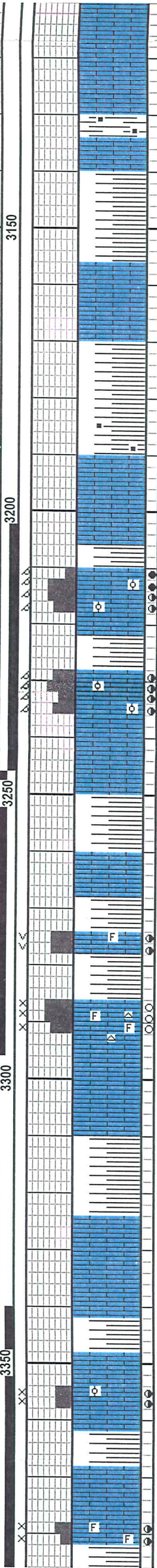
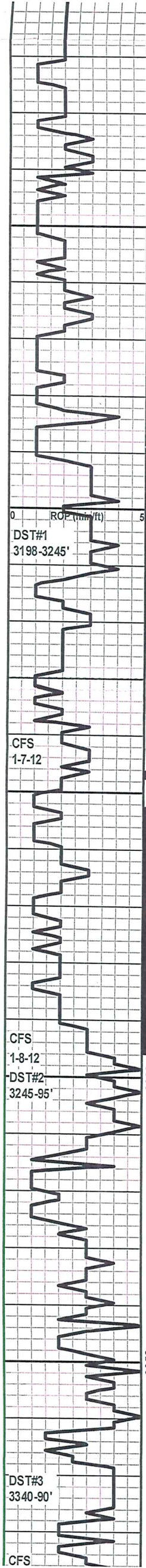
MUD DATA 2418'
WT 8.5 VIS 48
FL 8.0 Ph 11.5
CK 1 CL 2000



SH gy,frm,blk

LS buff,hd,dns, blk





LS buff, v hd, dns, blk, blk

SH dk gy blk, blk, fiss, carb

LS aa dns, ns

SH gy, red, arg

LS buff, v hd, dns, blk, ns

SH aa some blk, carb

LS buff, v hd, dns, blk, ns

SH red, gn, sft, arg

LS buff, frm, micro xln, g oomoldic & xln por, spty-even lt brn stn, v g cut, g show free oil, g odor

SH aa

LS buff, oomoldic, g moldic por, spty brn live stn, g cut, g odor, fr free oil

LS buff, v hd, dns, blk

SH red, gn, gy, frm, arg

LS buff, gy, v hd, dns, blk

SH aa

LS buff, sl hd, foss, p-fr vuggy por, spty live brn stn, g cut & odor, g show free oil

SH aa

LS wh, frm, foss, chky, abnt Cht wh, fr intgr & vuggy por, spty faint brn stn, p cut, no free oil

LS buff, v hd, dns, ns

SH red, gn, sft, v arg

LS gy, v hd, dns, arg, p por, ns

SH aa

LS gy, v hd, dns, arg, ns

LS wh, sl hd, oolitic, chky, p-fr intgr por, spty live brn stn, g cut, fr show free oil

LS gy, v hd, dns

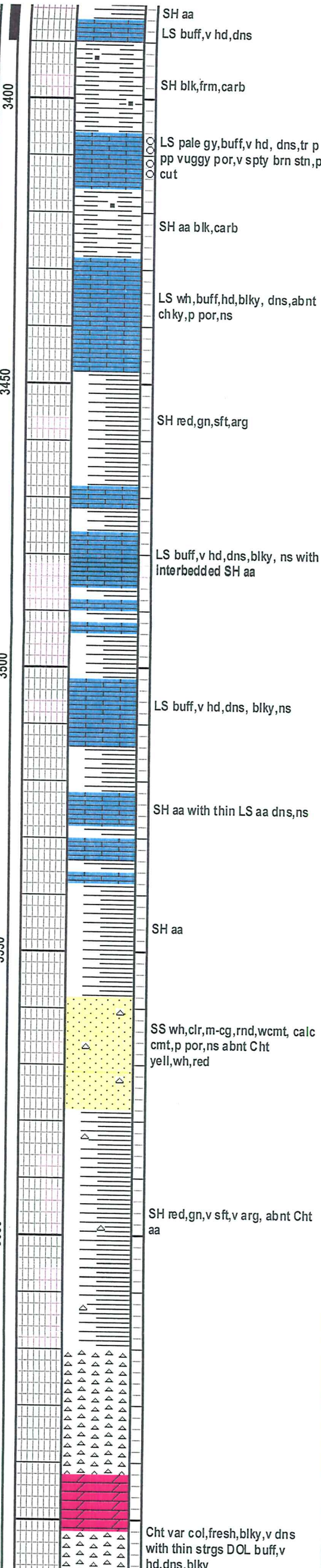
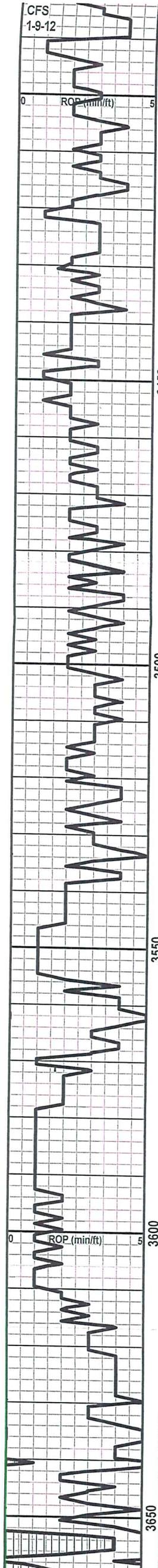
SH aa

LS buff, v hd, dns

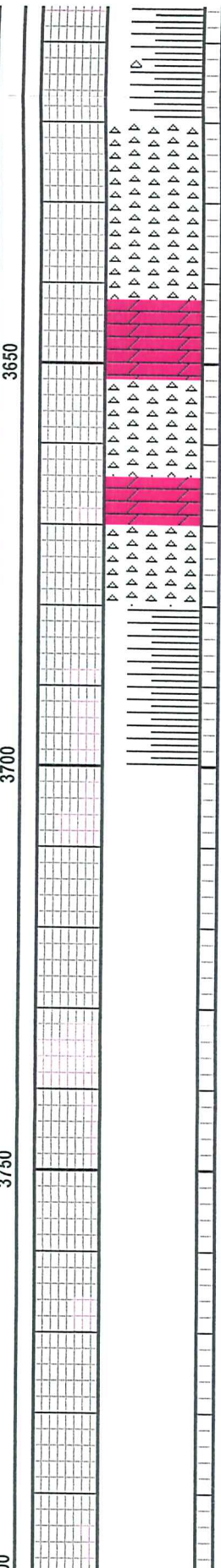
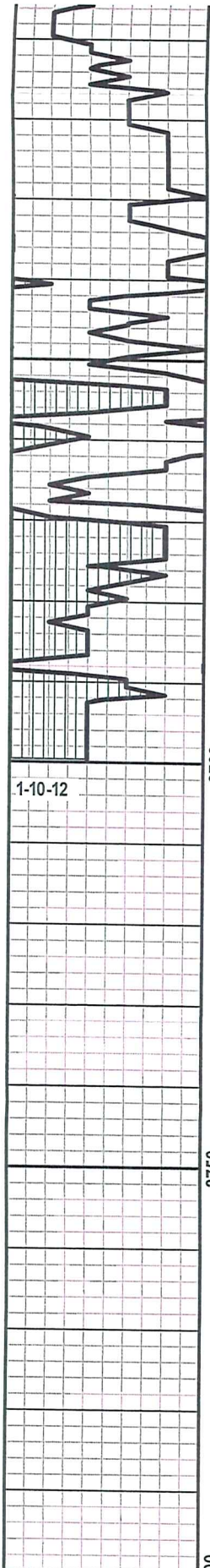
LS buff, frm, foss, sl chky, p-fr microxln & vuggy por, spty live brn stn, g cut & odor, p show free oil

SH aa

HEEBNER		
3130(-1259) S		
3130(-1259) L		
TORONTO		
3156(-1185) S		
3154(-1183) L		
LANSING A		
3190(-1219) S		
3190(-1219) L		
	TG, C1-C5	
1	10	100 1000
B ZONE	DST#1 3198-3245'	
3210(-1239) S	15-30-90-90"	
3210(-1239) L	IH1631 IF 20-27	
	(op blt to 2") ISI	
	863 FF 29-48 (op	
	blt to 4") FSI 821	
	FH 1561	
C ZONE	REC: 60' TOTAL	
3228(-1257) S	1'FREE OIL & 59'	
3228(-1257) L	WM(40%W)	
PIPE STRAP	MUD DATA 3245'	
AGREED WITH	WT 9.4 VIS 60	
RIG TALLY	FL 8.0 Ph 10.5	
	CK 1 CL 3000	
E ZONE		
3259(-1288) S		
3258(-1287) L		
F ZONE	DST#2 3245-95'	
3274(-1303) S	15-30-90-90"	
3274(-1303) L	IH 1664 IF 21-40	
	(op blt to 3") ISI	
	705 FF 43-107	
	(op blt to 7") FSI	
	664 FH 1579	
	REC: 180 OSMW	
G ZONE		
3286(-1315) S		
3284(-1313) L		
H ZONE		
3325(-1354) S		
3326(-1355) L		
I ZONE		
3348(-1377) S		
3348(-1377) L		
J ZONE	DST#3 3340-90'	
3367(-1396) S	15-30-90-90"	
3366(-1395) L	IH 1712 IF 19-23	
	(op wk blw) ISI	
	810 FF 24-30 FSI	
	782 FH 1684	
	REC: 10'SOSM	



MUD DATA 3390'			
		WT 9.4	VIS 46
		FL 8.8	Ph 10.5
		CK 1	CL 6000
TG, C1-C5			
1	10	100	1000
K ZONE			
-3405(-1434) S			
3404(-1434) L			
L ZONE			
3428(-1457) S			
3428(-1457) L			
PAWNEE			
3520(-1549) S			
3520(-1549) L			
CHEROKEE			
3560(-1589) S			
3556(-1585) L			
VIOLA			
3620(-1649) S			
3602(-1631) L			
TG, C1-C5			
1	10	100	1000



Cht var col, fresh, blk, v dns
with thin strgs DOL buff, v
hd, dns, blk

SH aa

RTD 3700'
LTD 3700'

VIOLA
3620(-1649) S
3602(-1631) L

**BEREXCO, LLC.
JOHN # 1
NESENW 34 9S-15W
OSBORNE COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

JOHN # 1 SAMPLES

BEREDCO RIG 10 DRILLING 7 7/8 HOLE

ANHYDRITE 1186(+785) L

BASE 1224(+747) L

2800-20 SHALE gray,firm,blocky

2820-30 LIMESTONE buff,hard,dense, blocky

2830-70 SHALE as above with thin LIMESTONE gray,firm,very fossils,no shows

2870-80 LIMESTONE buff,light brown,slightly hard, fossils,poor vuggy porosity,no shows

2880-93 SHALE as above abundant pyrite

TOPEKA

2993-21 LIMESTONE buff,very hard,dense,slightly fossils,poor porosity,no shows

35' TOPEKA

2921-30 LIMESTONE buff,gray,firm,very fossils,argillaceous,chalky,poor porosity,no shows

2930-2990 LIMESTONE buff,gray,very hard,dense,slightly fossils,blocky

2990-3010 LIMESTONE as above some gray black chert with thin SHALE black, green, fissile, carbonaceous

3010-25 SHALE gray,green,firm

3025-50 LIMESTONE buff,very hard,dense, blocky

3050-75 LIMESTONE and SHALE as above

JOHN # 1 SAMPLES

3075-85 LIMESTONE buff,hard,blocky,dense

3085-94 LIMESTONE buff,firm,very fossils, granular texture,no shows

3194-3100 SHALE gray,green,firm,slightly carbonaceous

PLATTSMOUTH

3100-04 LIMESTONE buff,hard,dense

3104-08 LIMESTONE buff,soft,micro sucrosic,texture,fair micrxln porosity,even brown stain,good cut

3108-30 LIMESTONE buff,very hard,dense, blocky

HEEBNER

3130-34 SHALE dark gray black,black, fissile,carbonaceous

3134-40 LIMESTONE as above dense,no shows

3140-56 SHALE gray,red,argillaceous

TORONTO

3156-70 LIMESTONE buff,very hard,dense,blocky,no shows

3170-90 SHALE as above some black, carbonaceous

LANSOING A

3190-3206 LIMESTONE buff,very hard,dense,blocky, no shows

3206-10 SHALE red,green,soft,argillaceous

B ZONE

JOHN # 1 SAMPLES

3210-18 LIMESTONE buff,firm,micro crystalline,good oomoldic and crystalline porosity,spotty to even light brown stain,very good cut,good show free oil,good odor

3218-28 SHALE as above

C ZONE

3228-35 LIMESTONE buff,oomoldic,good moldic porosity,spotty brown live stain,good cut,good odor,fair free oil

3235-50 LIMESTONE buff,very hard,dense,blocky

3250-60 SHALE red,green,gray,firm,argillaceous

E ZONE

3260-68 LIMESTONE buff,gray,very hard,dense,blocky

3268-74 SHALE as above

F ZONE

3274-78 LIMESTONE buff,slightly hard,fossils, poor to fair vuggy porosity,spotty live brown stain,good cut and odor,good show free oil

3278-85 SHALE as above

G ZONE

3285-90 LIMESTONE white,firm,fossils,chalky,abundant Chert white,fair intergranular and vuggy porosity, spotty faint brown stain,poor cut,no free oil

3290-3310 LIMESTONE buff,very hard,dense, no shows

3310-25 SHALE red,green,soft,very argillaceous

H ZONE

JOHN # 1 SAMPLES

3325-40 LIMESTONE gray,very hard,dense,argillaceous, poor porosity,no shows

3340-48 SHALE as above

I ZONE

3348-55 LIMESTONE gray,very hard,dense,argillaceous,no shows

3355-58 LIMESTONE white,slightly hard,oolitic,chalky,poor to fair intergranular porosity,spotty live brown stain,good cut,fair show free oil

3358-62 LIMESTONE gray,very hard,dense

3362-68 SHALE as above

3368-78 LIMESTONE buff,very hard,dense

J ZONE

3368-82 LIMESTONE buff,firm,fossils,slightly chalky,poor to fair microcrystalline and vuggy porosity,spotty live brown stain,good cut and odor,poor show free oil

3382-86 SHALE as above

3386- 90 LIMESTONE buff,very hard,dense

3390-94 SHALE black,firm,carbonaceous

K ZONE

3404-16 LIMESTONE pale gray,buff,very hard, dense,trace poor pinpoint vuggy porosity,very spotty brown stain,poor cut

3416-28 SHALE as above black,carbonaceous

L ZONE

JOHN # 1 SAMPLES

3428-48 LIMESTONE white, buff, hard, blocky, dense, abundant chalky, poor porosity, no shows

3448-68 SHALE red, green, soft, argillaceous

3468-3502 LIMESTONE buff, very hard, dense, blocky, no shows with interbedded SHALE as above

3502-14 LIMESTONE buff, very hard, dense, blocky, no shows

PAWNEE

3514-40 SHALE as above with thin LIMESTONE as above dense, no shows

3540-60 SHALE as above

CHEROKEE

3560-80 SANDSTONE white, clear, m to cg, rounded, wcm, calcareous cement, poor porosity, no shows abundant Chert yell, white, red

3580-3620 SHALE red, green, very soft, very argillaceous, abundant Chert as above

VIOLA

3620- 3680 Chert var color, fresh, blocky, very dense with thin stringers DOLOMITE buff, very hard, dense, blocky

3680-3700 SHALE as above

RTD 3700'

ALLIED CEMENTING CO., LLC. 035207

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
RUSSELL

DATE <u>1-11-12</u>	SEC. <u>34</u>	TWP <u>9S</u>	RANGE <u>15^W</u>	WELL FILE	ON LOCATION	JOB START <u>5AM</u>	JOB FINISH <u>5:30 AM</u>
LEASE <u>JOHN</u>	WELL # <u>1</u>	LOCATION <u>NATOMA KS 4^N-1^E-1^S</u>			COUNTY <u>OSBORNE</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>E/S TO LOCATION</u>			JAN 24 2012	

CONTRACTOR BEREDCO #10

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 3650

CASING SIZE 8 5/8 DEPTH 307

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT

AMOUNT ORDERED 255 69/44/4% GEL
1/4 FLO-SEAL PER SACK

COMMON	<u>147</u>	@	<u>16.25</u>	<u>2388.75</u>
POZMIX	<u>98</u>	@	<u>8.50</u>	<u>833.00</u>
GEL	<u>9</u>	@	<u>21.25</u>	<u>191.25</u>
CHLORIDE		@		
ASC		@		
<u>FLO-SEAL</u>	<u>62</u>	@	<u>2.70</u>	<u>167.40</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>257</u>	@	<u>2.25</u>	<u>578.25</u>
MILEAGE	<u>25 X 257 X .11</u>			<u>706.75</u>
<u>Drayage</u>	<u>6425</u>			
TOTAL				<u>4865.40</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bob Smith

409 HELPER Todd

BULK TRUCK

481 DRIVER ROBERT

BULK TRUCK

_____ DRIVER _____

REMARKS:

- P1- 3650' - 25 SK
- P2- 1200' - 25 SK
- P3- 820' - 100 SK
- P4- 360' - 40 SK
- P5- 40' - 10 SK
- RAT - 30 SK
- MOUSE - 15 SK

SERVICE

DEPTH OF JOB	<u>3650'</u>			
PUMP TRUCK CHARGE				<u>1250.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>H 25 35</u>	@	<u>7.00</u>	<u>175.00</u>
MANIFOLD	<u>LV</u>	@	<u>4.00</u>	<u>140.00</u>
<u>WAIT TIME</u>	<u>1.5</u>	@	<u>300.00</u>	<u>450.00</u>
TOTAL				<u>1875.00</u>

CHARGE TO: BEREXCO

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@			
	@			
	@			
	@			
	@			
TOTAL				<u>0</u>

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

PRINTED NAME Mylo Salinas

SIGNATURE Mylo Salinas

SALES TAX (If Any) _____

TOTAL CHARGES 6740.40

DISCOUNT 240 IF PAID IN 30 DAYS