



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1082324  
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: \_\_\_\_\_

1082324

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Schwien 1
Doc ID	1082324

Tops

Name	Top	Datum
Anhydrite	838	+991
Anhydrite (base)	876	+953
Topeka	2720	-891
Plattsmouth	2896	-1067
Heebner	2944	-1115
Toronto	2961	-1132
Lansing A	3000	-1171
Lansing B	3020	-1191
Lansing C	3034	-1205
Lansing F	3076	-1247
Lansing G	3086	-1257
Lansing H	3138	-1313
Lansing I	3157	-1328
Lansing K	3208	-1379
Arbuckle	3236	-1407
RTD	3333	
LTD	3332	

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 23, 2012

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

Re: ACO1  
API 15-167-23789-00-00  
Schwien 1  
SW/4 Sec.30-14S-14W  
Russell 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

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Measured Depth Log

Well Name: SCHWIEN # 1

Location: W2NENESW 30-14S-14W RUSSELL COUNTY, KANSAS

License Number: 15-167-23789

Region: MIDCONTINENT

Spud Date: 4-23-2012

Drilling Completed: 5-1-2012

Surface Coordinates: 2310' FSL & 2120' FWL

### Bottom Hole Coordinates:

Ground Elevation (ft): 1818

K.B. Elevation (ft): 1829

Logged Interval (ft): 2500

To: 3333'

Total Depth (ft): 3333'

Formation: TOPEKA, LKC, & ARBUCKLE

Type of Drilling Fluid: CHEMICAL

Printed by WellSight Log Viewer 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

DEPTH	ANGLE
825'	1
1327'	1
3050'	3/4


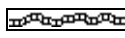
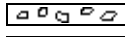
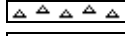
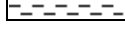
### DSTs


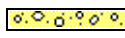



DST#1 2976-3050', DST#2 3055-3100, DST# 3 3150-3200, DST#4 3192-3246, DST#5 3248-53'



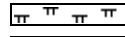
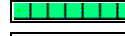
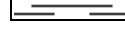
### Comments

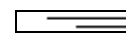
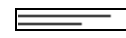



SET 5 1/2 PRODUCTION PIPE

### ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst

	Coal
	Congl
	Dol
	Gyp
	Igne

	Lmst
	Meta
	Mrlst
	Salt
	Shale

	Shcol
	Shgy
	Sltst
	Ss
	Till

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral

- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY

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

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

#### OIL SHOW

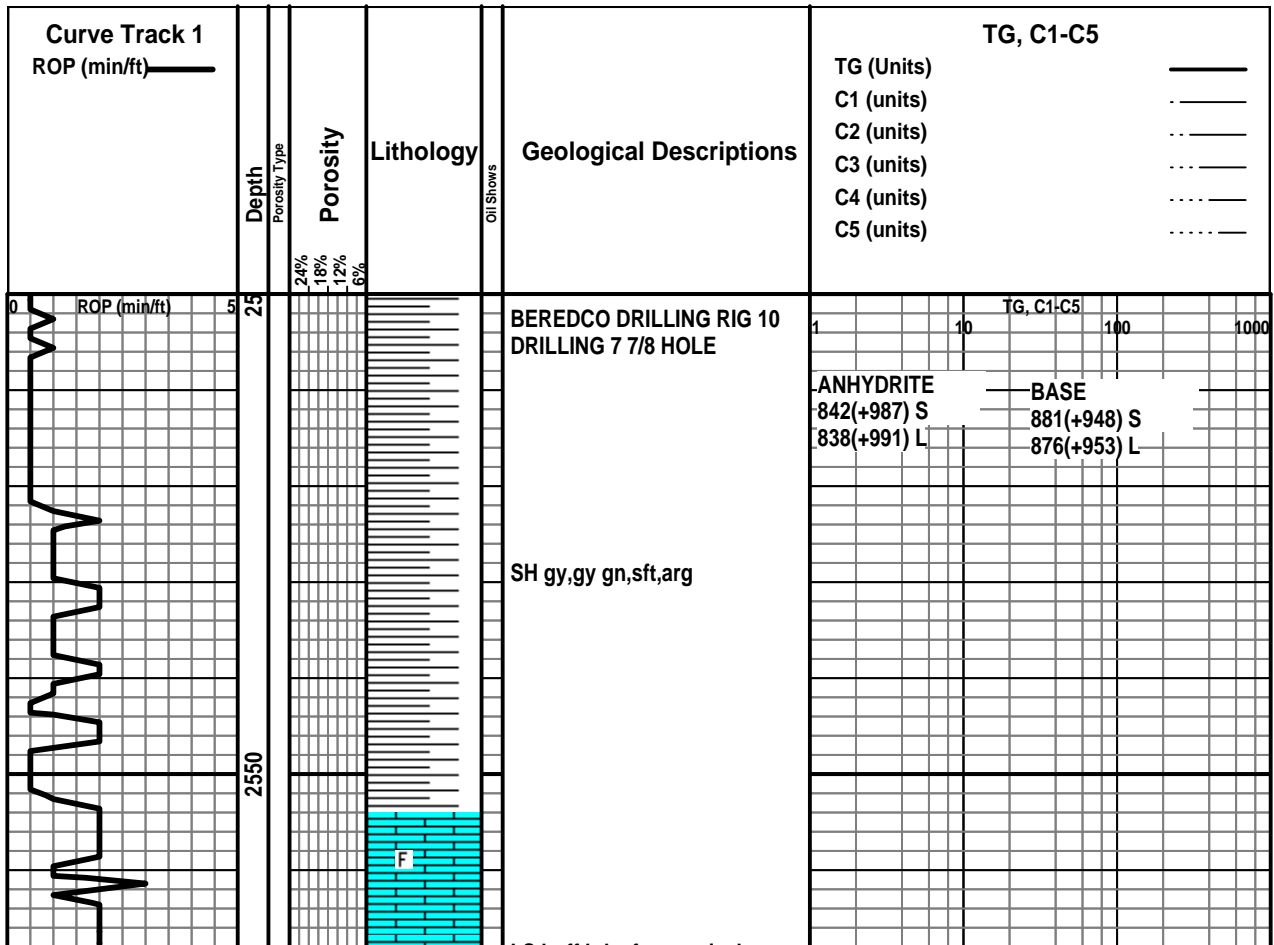
- Even
- Spotted
- Ques
- Dead

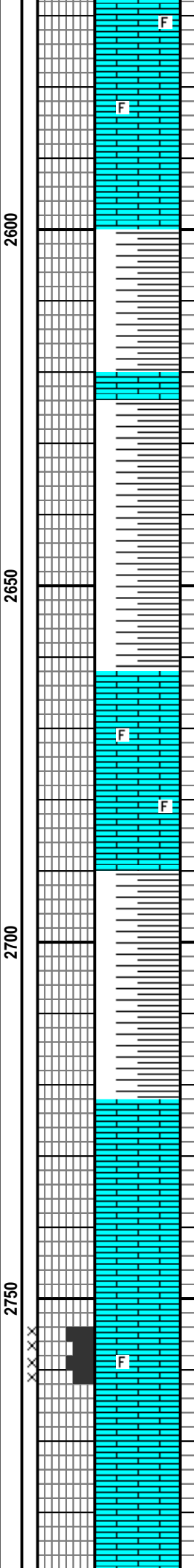
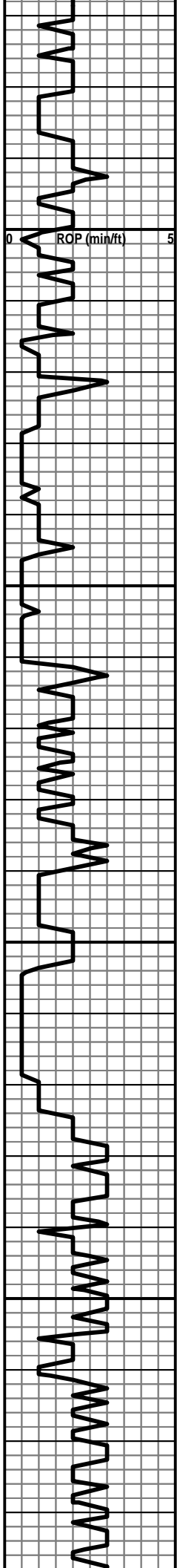
#### INTERVAL

- Dst
- Dst

#### EVENT

- Rft
- Sidewall





LS buff,hd,v fousus,micxln,p por,ns

SH aa with thin LS aa

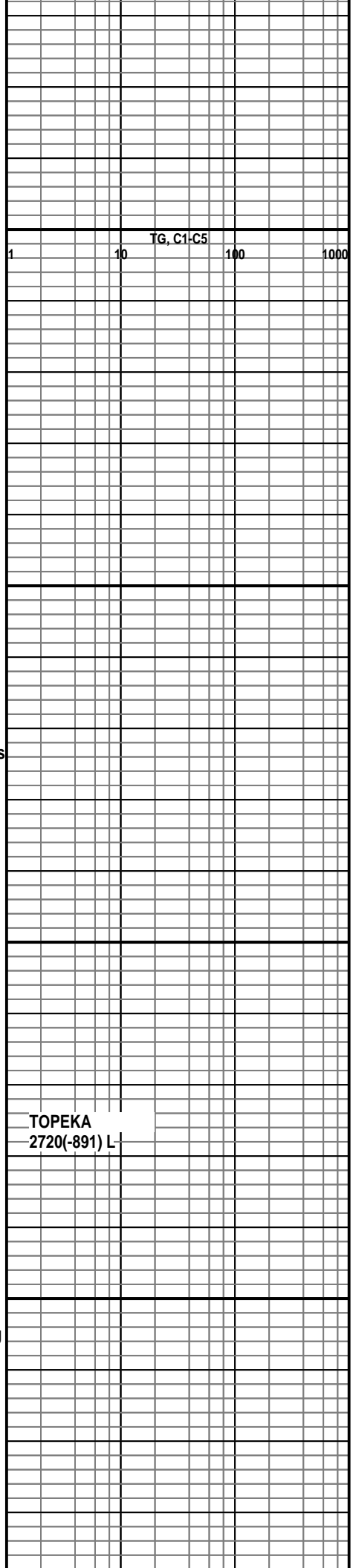
LS buff,hd,fousus, dirty,p por,ns

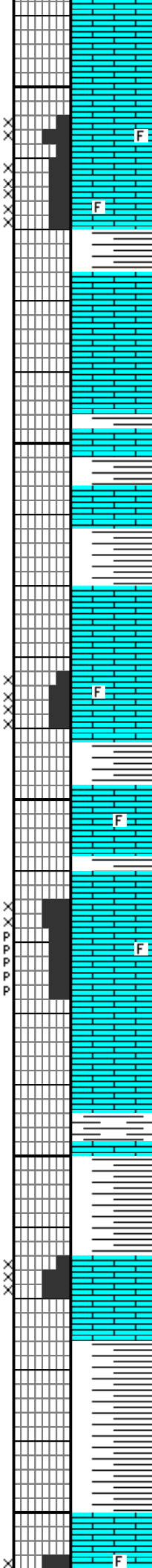
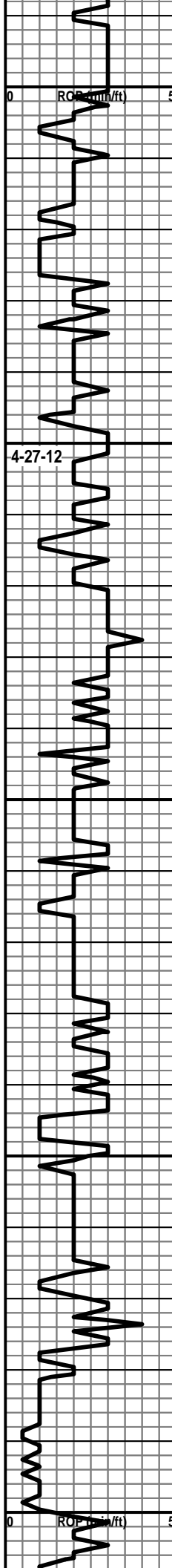
SH aa

LS buff, v hd,dns, blk,ns

LS buff,frm,fousus, sl arg,fr intg por,ns

LS buff,v hd,dns, aa, ns





LS buff,frm,sl arg, fous,p-fr  
micxn por,ns

LS buff,hd,blky,p por, sl  
fous,ns with thin bedded SH  
blk,gy,gn,frm,fiss, carb

LS buff,frm,sl arg,fous,fr  
micxn por,ns with thin SH aa

LS buff,sl hd, micxn,v fous,p  
por,ns with thin SH aa

LS wh,frm,micxn, p xln & pp  
vuggy por,v spty live brn stn,g  
cut

LS buff,v hd,dns, ns

SH blk,gy,gn,frm, fiss,carb with  
thin LS buff, v hd,dns

SH red,gn,gy,frm,v arg

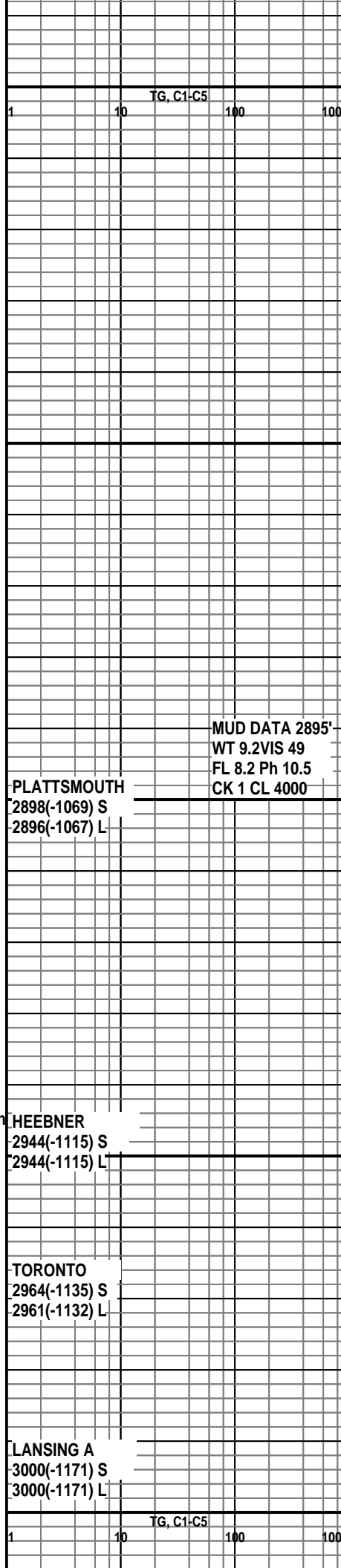
LS buff,frm,fous, micxn,sl  
chky,fr intxn por,spty brn live  
stn,g cut

LS buff,v hd,dns

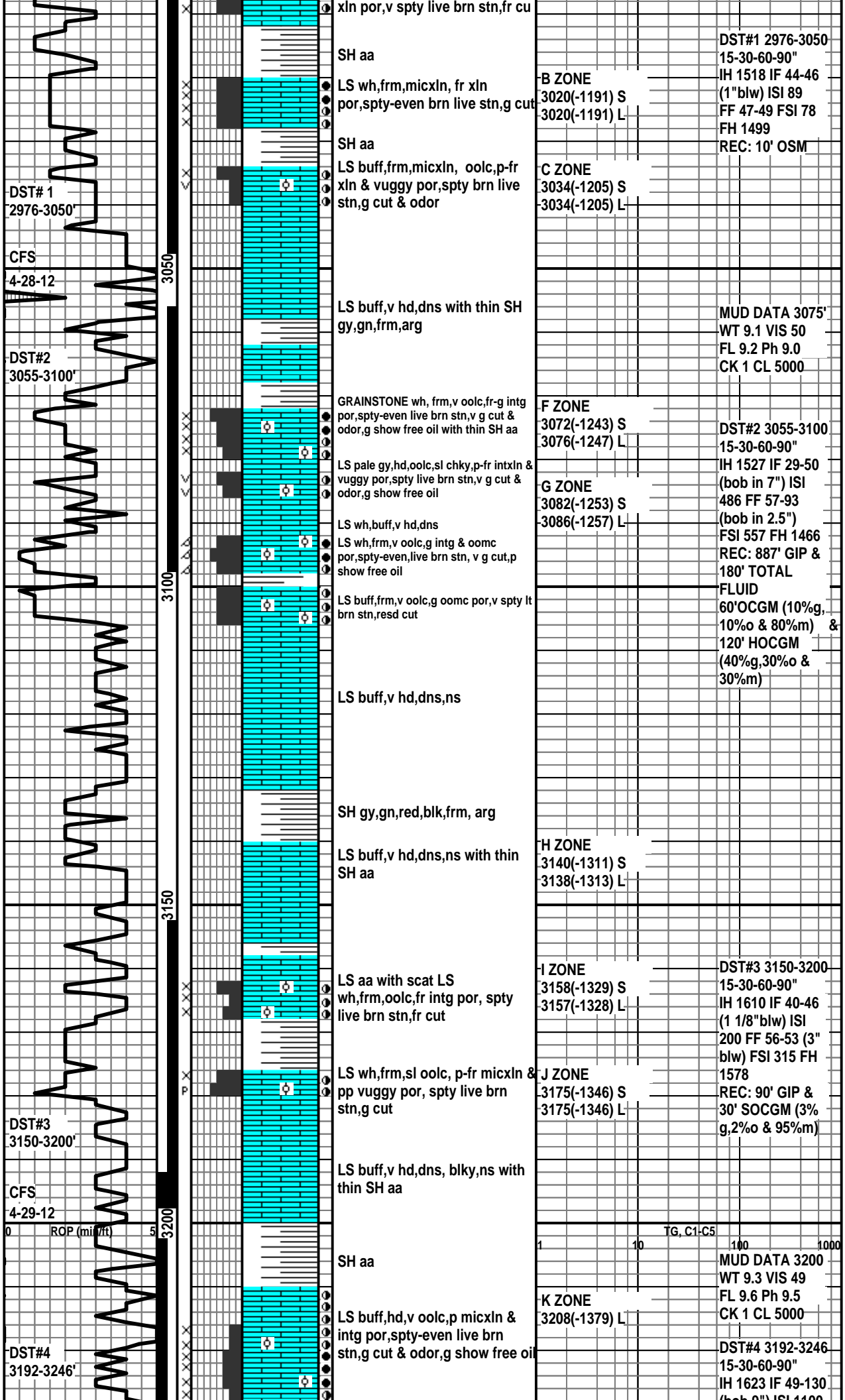
SH aa

LS buff,v hd,dns

LS buff,frm,fous, micxn,p-fr







DST#1  
2976-3050'

CFS  
4-28-12

DST#2  
3055-3100'

DST#3  
3150-3200'

CFS  
4-29-12

DST#4  
3192-3246'

SH aa

LS wh,frm,micln, fr xln  
por,spty-even brn live stn,g cut

SH aa

LS buff,frm,micln, oolc,p-fr  
xln & vuggy por,spty brn live  
stn,g cut & odor

LS buff,v hd,dns with thin SH  
gy,gn,frm,arg

GRAINSTONE wh, frm, v oolc,fr-g intg  
por,spty-even live brn stn,v g cut &  
odor,g show free oil with thin SH aa

LS pale gy,hd,oolc,sl chky,p-fr intxln &  
vuggy por,spty live brn stn,v g cut &  
odor,g show free oil

LS wh,buff,v hd,dns

LS wh,frm,v oolc,g intg & oomc  
por,spty-even,live brn stn, v g cut,p  
show free oil

LS buff,frm,v oolc,g oomc por,v spty lt  
brn stn,red cut

LS buff,v hd,dns,ns

SH gy,gn,red,blk,frm, arg

LS buff,v hd,dns,ns with thin  
SH aa

LS aa with scat LS  
wh,frm,oolc,fr intg por, spty  
live brn stn,fr cut

LS wh,frm,sl oolc, p-fr micln &  
pp vuggy por, spty live brn  
stn,g cut

LS buff,v hd,dns, blk,ns with  
thin SH aa

SH aa

LS buff,hd,v oolc,p micln &  
intg por,spty-even live brn  
stn,g cut & odor,g show free oil

B ZONE  
3020(-1191) S  
3020(-1191) L

C ZONE  
3034(-1205) S  
3034(-1205) L

F ZONE  
3072(-1243) S  
3076(-1247) L

G ZONE  
3082(-1253) S  
3086(-1257) L

H ZONE  
3140(-1311) S  
3138(-1313) L

I ZONE  
3158(-1329) S  
3157(-1328) L

J ZONE  
3175(-1346) S  
3175(-1346) L

K ZONE  
3208(-1379) L

DST#1 2976-3050  
15-30-60-90"  
IH 1518 IF 44-46  
(1"blw) ISI 89  
FF 47-49 FSI 78  
FH 1499  
REC: 10' OSM

MUD DATA 3075'  
WT 9.1 VIS 50  
FL 9.2 Ph 9.0  
CK 1 CL 5000

DST#2 3055-3100  
15-30-60-90"

IH 1527 IF 29-50  
(bob in 7") ISI  
486 FF 57-93  
(bob in 2.5")  
FSI 557 FH 1466  
REC: 887' GIP &  
180' TOTAL

FLUID  
60'OCGM (10%g,  
10%o & 80%m) &  
120' HOCGM  
(40%g,30%o &  
30%m)

DST#3 3150-3200  
15-30-60-90"

IH 1610 IF 40-46  
(1 1/8"blw) ISI  
200 FF 56-53 (3"  
blw) FSI 315 FH  
1578

REC: 90' GIP &  
30' SOCGM (3%  
g,2%o & 95%m)

MUD DATA 3200  
WT 9.3 VIS 49  
FL 9.6 Ph 9.5  
CK 1 CL 5000

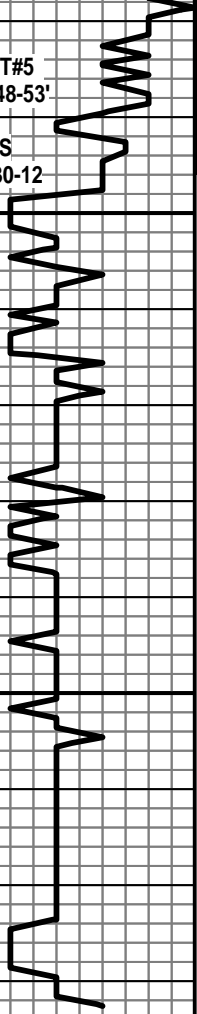
DST#4 3192-3246  
15-30-60-90"  
IH 1623 IF 49-130  
(bob 0") ISI 1100

ROP (min/ft)

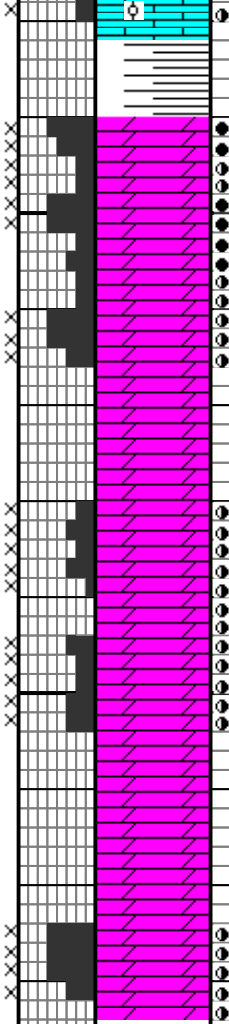
TG, C1-C5

DST#5  
3248-53'

CFS  
4-30-12



3250  
3300  
3350



SH aa

DOL wh,frm,micsuc tex,fr-g intxln  
por,even live brn stn,v g cut & odor,g  
show free oil

DOL wh,sl hd,scy ip,micxln,p-fr xln  
por,spty live brn stn,g cut & odor,fr  
show free oil

DOL wh,frm,micsuc-suc tex,scy ip,gd  
xln por,v g cut & odor,g show free oil

DOL wh,hd,micxln, p por,scy ip,spty  
brn stn,fr cut

DOL wh,frm,micsuc,g intxln por,spty  
live brn stn,fr cut,p show free oil

DOL wh,hd,dns,p por,ns,some p-fr  
intxln por,ns

DOL wh frm,micsuc tex, fr-gd xln  
por,spty faint brn stn,fr cut,no free oil

DOL wh,hd,dns,p por,ns, some DOL aa  
p por,v spty faint stn,p cut

DOL wh,hd,dns,p por,ns

DOL wh,frm,micsuc tex,g xln por,v spty  
brn stn,p cut,no free oil

RTD 3333'

LTD 3332'

ARBUCKLE  
3240(-1411) S  
3236(-1407) L

SLOWED TABLE,  
TORQUE

(bob 9") ISI 1100  
(3/4" bb) FF 140-  
311 (bob 9")  
FSI 1103(10.5"bb  
) FH 1595  
REC: 598'GIP &  
736' GASSY OIL  
(20%g & 80%o)

DST#5 3248-53'  
15-30-60-90"  
IH 1616 IF 83-293  
(bob 1.5") ISI  
1112(bob 15 1/4"  
bb) FF 310-693  
(bob 2.5") FSI  
1113 (bob bb in  
72") FH 1564  
REC: 1085' GIP,  
360' OCMW (15%  
o,60%w & 25%  
m) & 1453' CO  
(40%g,60%o)

# ALLIED OIL & GAS SERVICES, LLC 056946

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell

DATE <u>4.24.12</u>	SEC <u>30</u>	TWP <u>143</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION	JOB START <u>6:16</u>	JOB FINISH <u>6:30</u>
LEASE <u>Schuler</u>	WELL # <u>1</u>	LOCATION <u>Balta 55 Links</u>			COUNTY <u>Russell</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR Braxton #10  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 825  
 CASING SIZE 8 7/8 DEPTH 822  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 15'  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 51 bbl

OWNER  
 CEMENT  
 AMOUNT ORDERED Local: 60/100 60.6 gal 4.50 @ 31.4

tail: 1633 A 31.4L 21.6 gal

COMMON	<u>260 (365)</u>	<u>165</u>	@	<u>16.25</u>	<u>5931.25</u>
POZMIX		<u>110</u>	@	<u>8.50</u>	<u>935.00</u>
GEL	<u>4</u>	<u>(18) 14</u>	@	<u>21.25</u>	<u>382.50</u>
CHLORIDE	<u>6</u>	<u>(15) 9</u>	@	<u>53.20</u>	<u>873.00</u>
ASC			@		
<u>Clay seal (1000)</u>		<u>3</u>	@	<u>2.70</u>	<u>405.00</u>
			@		
			@		
			@		
			@		
			@		
			@		
HANDLING	<u>511</u>		@	<u>2.25</u>	<u>1,149.75</u>
MILEAGE	<u>4,599 x</u>		@	<u>.11</u>	<u>505.89</u>
<u>Drayage</u>					
TOTAL					<u>10,182.39</u>

REMARKS:

Entire hole circulation  
mix cement  
Displaced 51 bbl H<sub>2</sub>O  
Cement did circulate to surface  
plug down at E.B  
Thank!

CHARGE TO: Berens LLC  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>825</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>MILV 9</u>	@	<u>7.00</u> <u>63.00</u>
MANIFOLD		@	
	<u>MILV 9</u>	@	<u>4.65</u> <u>NC</u>
		@	
TOTAL			<u>1,188.00</u>

PLUG & FLOAT EQUIPMENT

<u>HP RUBBER Plug</u>	@	<u>79</u>	<u>79.00</u>
	@		
	@		
	@		
	@		
TOTAL			<u>79.00</u>

SALES TAX (if Any) 707.72  
 TOTAL CHARGES 11,449.39  
 DISCOUNT 24% 2747.85 IF PAID IN 30 DAYS

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

PRINTED NAME \_\_\_\_\_  
 SIGNATURE [Signature]



# ALLIED OIL & GAS SERVICES, LLC

056400

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell Ks.

DATE	5-2-12	SEC.	30	TWP.	14s	RANGE	14w	CALLED OUT		ON LOCATION		JOB START		JOB FINISH	6:00 AM
LEASE	Schwartz	WELL #	1	LOCATION	Russell Ks. <sup>West</sup> <del>East</del> BALTO ED				COUNTY	Russell	STATE	Kansas			
OLD OR NEW (Circle one)	<input checked="" type="radio"/> OLD <input type="radio"/> NEW														

CONTRACTOR Boedco Drilg Rig # 10  
 TYPE OF JOB PRODUCTION STRING  
 HOLE SIZE 7 7/8 T.D. 3333  
 CASING SIZE 5 1/2 New DEPTH 3329  
 TUBING SIZE 14 # CSG DEPTH  
 DRILL PIPE 2 3/8 Surface DEPTH 825  
 TOOL LATCH Down Plug Assy DEPTH 3293  
 PRES. MAX 2,000 # MINIMUM 1000 #  
 MEAS. LINE SHOE JOINT 85'  
 CEMENT LEFT IN CSG. 85  
 PERFS.  
 DISPLACEMENT 79.00 / BBL

OWNER

CEMENT

AMOUNT ORDERED 200 sx 40 8% GEL 1/4 # F10- Seal  
150 sx ASC w/ 50 Gilsonite Per / sx  
500 GAL WFR-2 MOD FLUSH  
 COMMON 120 SX @  
 POZMIX 80 SX @  
 GEL 14 SX @  
 CHLORIDE @  
 ASC 150 SX @  
Gilsonite 900 LBS @  
F10-Seal 100 LBS @  
WFR-2 MOD-FLUSH 500 GAL @  
 HANDLING 373 TOTAL SX @ 2.25  
 MILEAGE 10 Ton Mile @ 11¢

EQUIPMENT

PUMP TRUCK CEMENTER Glen G.  
 # 417 HELPER Woody O.  
 BULK TRUCK  
 # 481 DRIVER Chris G.  
 BULK TRUCK  
 # 410 DRIVER Cody H.

REMARKS:

Run 79 joints of New 14" 5 1/2 CSG. Set @  
Received Circulation (100) Cement of 155 sx 40 Pump Flush  
Followed by 150 sx ASC. Clear-line Release  
LATCH Down Plug. + Displace 79.00 / BBL H<sub>2</sub>O - Land  
@ 2,000 #. Release Pressure + Plug (Hold)  
15 sx @ Marsehole  
30 sx @ Bathole

SERVICE

DEPTH OF JOB  
 PUMP TRUCK CHARGE  
 EXTRA FOOTAGE @  
 MILEAGE 10 HV MI @ 2.00  
 MANIFOLD @  
10 LV MI @ 4.00

CHARGE TO: Boedco LLC  
 STREET  
 CITY STATE ZIP

TOTAL

PLUG & FLOAT EQUIPMENT

WATERFORD  
1-FLOAT Shoe @  
11 TURBO-CONTROLLERS @  
1- LATCH Down Plug Assy @  
1-Limit Clamp @

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)  
 TOTAL CHARGES  
 DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME  
 SIGNATURE Renno Rumer





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco LLC  
2020 N Bramblewood  
Wichita Ks 67206 + 1094  
ATTN: Bruce Meyer

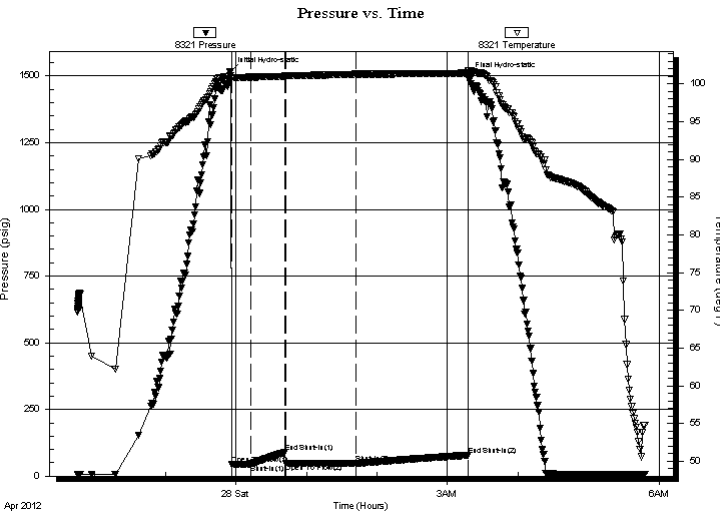
**30-14s-14w**  
**Schwie n #1**  
Job Ticket: 44781      **DST#: 1**  
Test Start: 2012.04.27 @ 21:45:20

## GENERAL INFORMATION:

Formation: **Lansing-A-B-C**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 23:56:20      Tester: Jeff Brown  
Time Test Ended: 05:48:50      Unit No: 44  
**Interval: 2976.00 ft (KB) To 3050.00 ft (KB) (TVD)**      Reference Elevations: 1829.00 ft (KB)  
Total Depth: 3050.00 ft (KB) (TVD)      1819.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 10.00 ft

**Serial #: 8321      Inside**  
Press @ Run Depth: 48.70 psig @ 3014.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.04.27      End Date: 2012.04.28      Last Calib.: 2012.04.28  
Start Time: 21:45:21      End Time: 05:47:50      Time On Btm: 2012.04.27 @ 23:55:50  
Time Off Btm: 2012.04.28 @ 03:17:50

**TEST COMMENT:** IFP-Weak blow built to 1 in  
ISI-Dead no blow back  
FFP-Dead no blow  
FSI-Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1517.84	101.06	Initial Hydro-static
1	43.68	100.80	Open To Flow (1)
17	45.77	100.89	Shut-In(1)
46	89.42	101.01	End Shut-In(1)
47	47.32	100.99	Open To Flow (2)
107	48.70	101.27	Shut-In(2)
202	78.36	101.41	End Shut-In(2)
202	1498.89	101.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w ith oil spots	0.05

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco LLC

**30-14s-14w**

2020 N Bramblewood  
Wichita Ks 67206 + 1094

**Schwien #1**

Job Ticket: 44781

**DST#: 1**

ATTN: Bruce Meyer

Test Start: 2012.04.27 @ 21:45:20

## 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: 8.19 in<sup>3</sup>

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 with oil spots	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

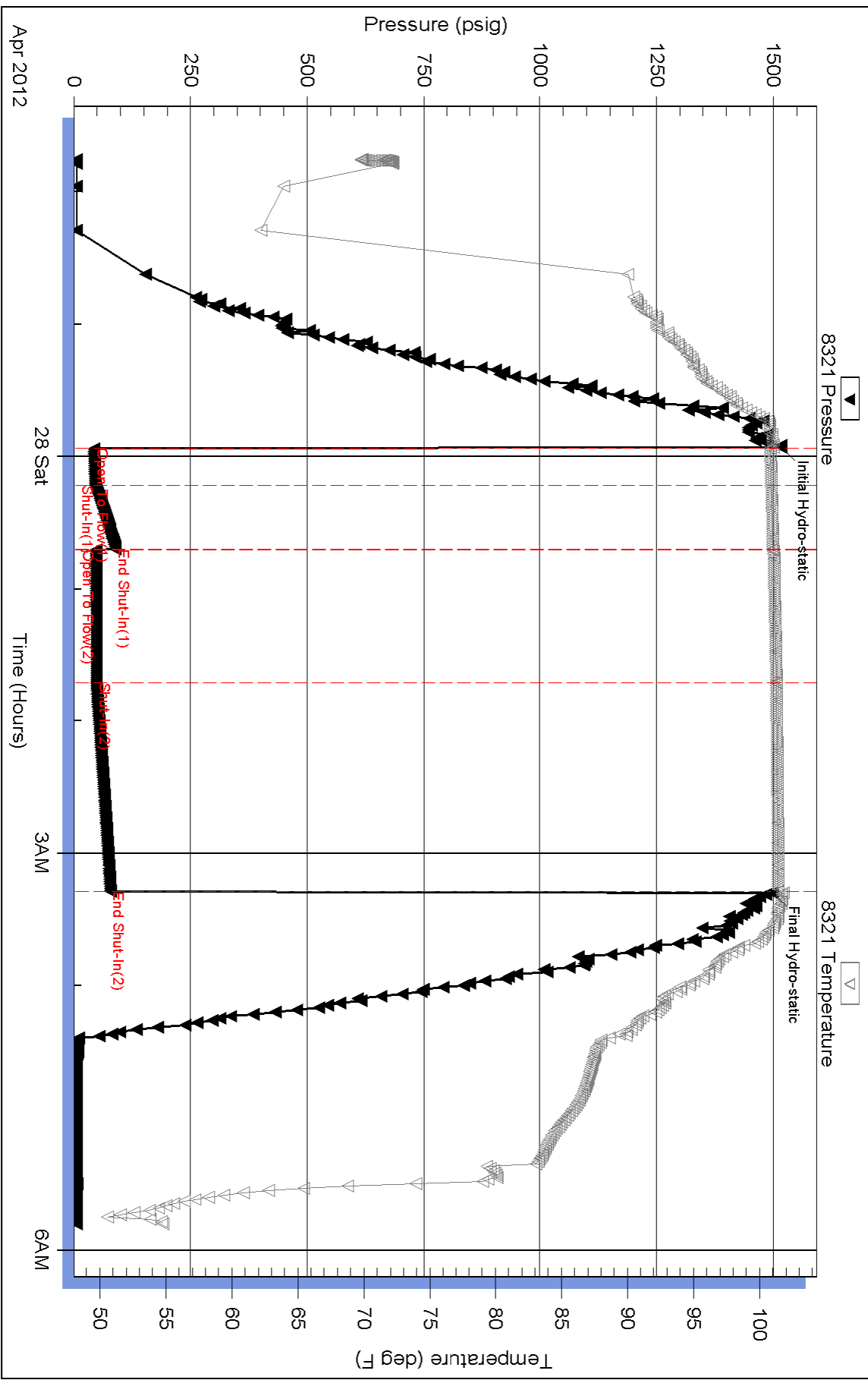
Serial #:

Laboratory Name:

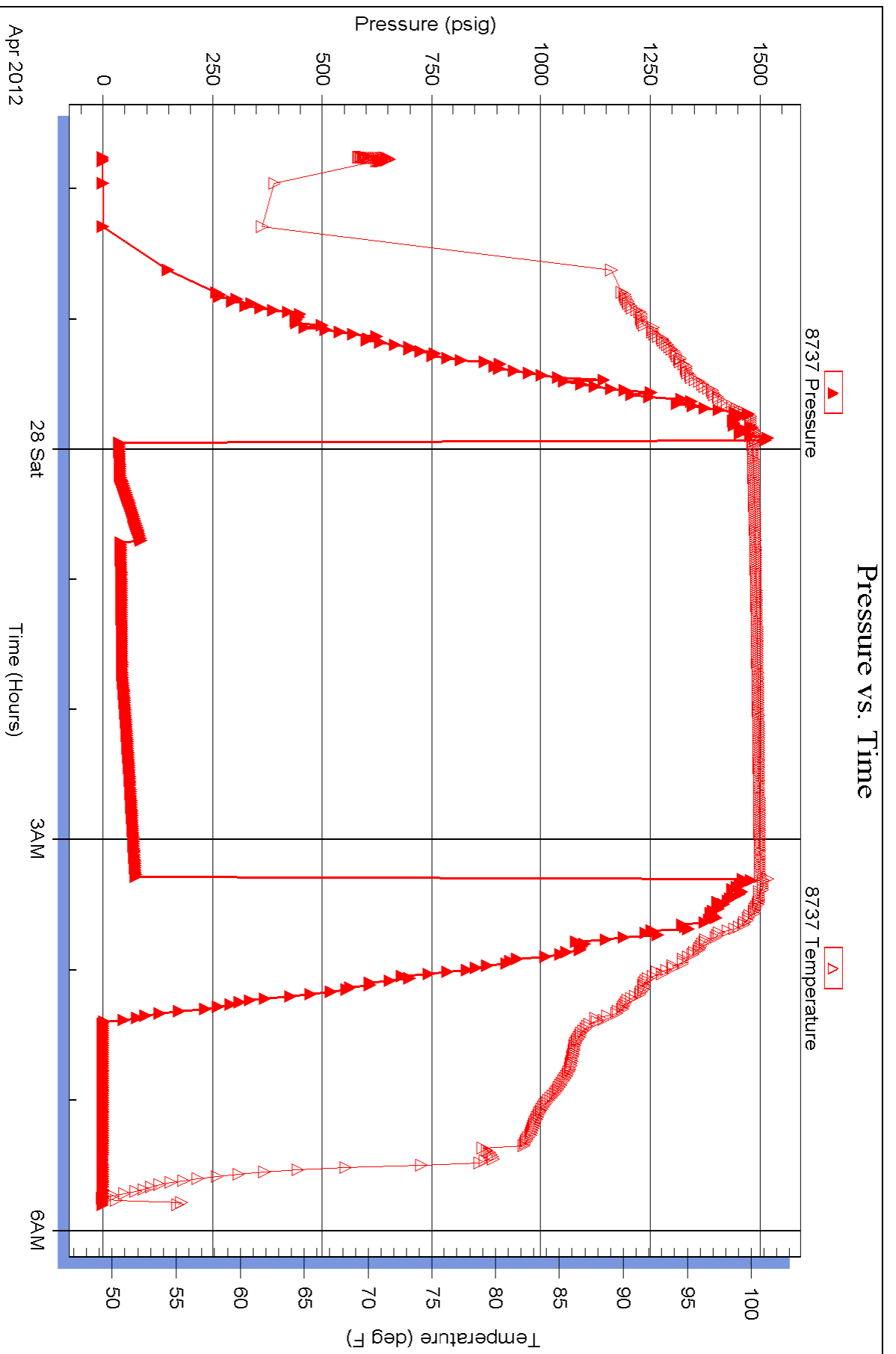
Laboratory Location:

Recovery Comments:

# Pressure vs. Time









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco LLC  
2020 N Bramblewood  
Wichita Ks 67206 + 1094  
ATTN: Bruce Meyer

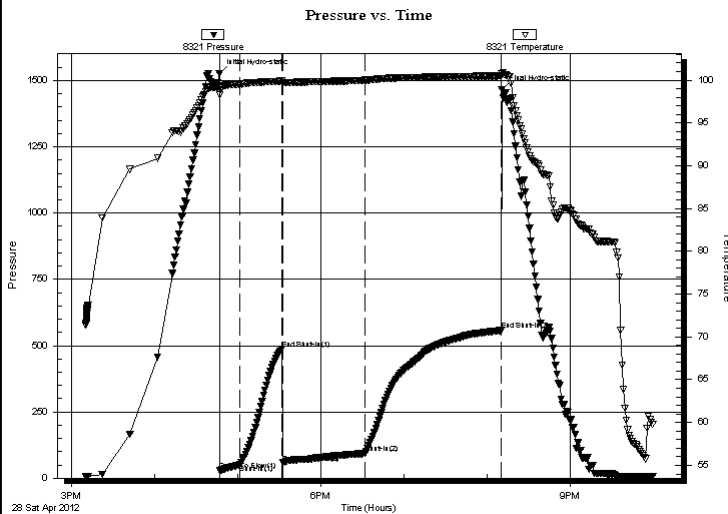
**30-14s-14w**  
**Schwien #1**  
Job Ticket: 44782      **DST#: 2**  
Test Start: 2012.04.28 @ 15:10:20

## GENERAL INFORMATION:

Formation: **Lansing-F & G**  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 16:47:20  
Time Test Ended: 22:00:20  
Interval: **3055.00 ft (KB) To 3100.00 ft (KB) (TVD)**  
Total Depth: 3100.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jeff Brown  
Unit No: 44  
Reference Elevations: 1829.00 ft (KB)  
1819.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8321      Inside**  
Press @ Run Depth: 93.45 psig @ 3060.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.04.28      End Date: 2012.04.28      Last Calib.: 2012.04.28  
Start Time: 15:10:21      End Time: 22:00:20      Time On Btm: 2012.04.28 @ 16:46:50  
Time Off Btm: 2012.04.28 @ 20:10:50

**TEST COMMENT:** IFP-Good Blow BOB in 7 1/2 min  
ISI-Weak surface blow back died out in 5 min  
FFP-Strong blow BOB in 2 1/2 min  
FSI-Weak surface blow back built to 1/8 in died out in 18 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1527.30	99.14	Initial Hydro-static
1	29.47	98.23	Open To Flow (1)
15	50.13	99.50	Shut-In(1)
45	486.03	99.86	End Shut-In(1)
46	57.17	99.73	Open To Flow (2)
106	93.45	99.98	Shut-In(2)
204	556.81	100.49	End Shut-In(2)
204	1466.35	100.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCGM 10%G 10%O 80%M	0.30
120.00	HOCGM 40%G 30%O 30%M	0.59
0.00	887-GIP	0.00

\* 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

**30-14s-14w**

2020 N Bramblewood  
Wichita Ks 67206 + 1094

**Schwien #1**

Job Ticket: 44782

**DST#: 2**

ATTN: Bruce Meyer

Test Start: 2012.04.28 @ 15:10:20

## 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: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OCCGM 10%G 10%O 80%M	0.295
120.00	HOCGM 40%G 30%O 30%M	0.590
0.00	887-GIP	0.000

Total Length: 180.00 ft      Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

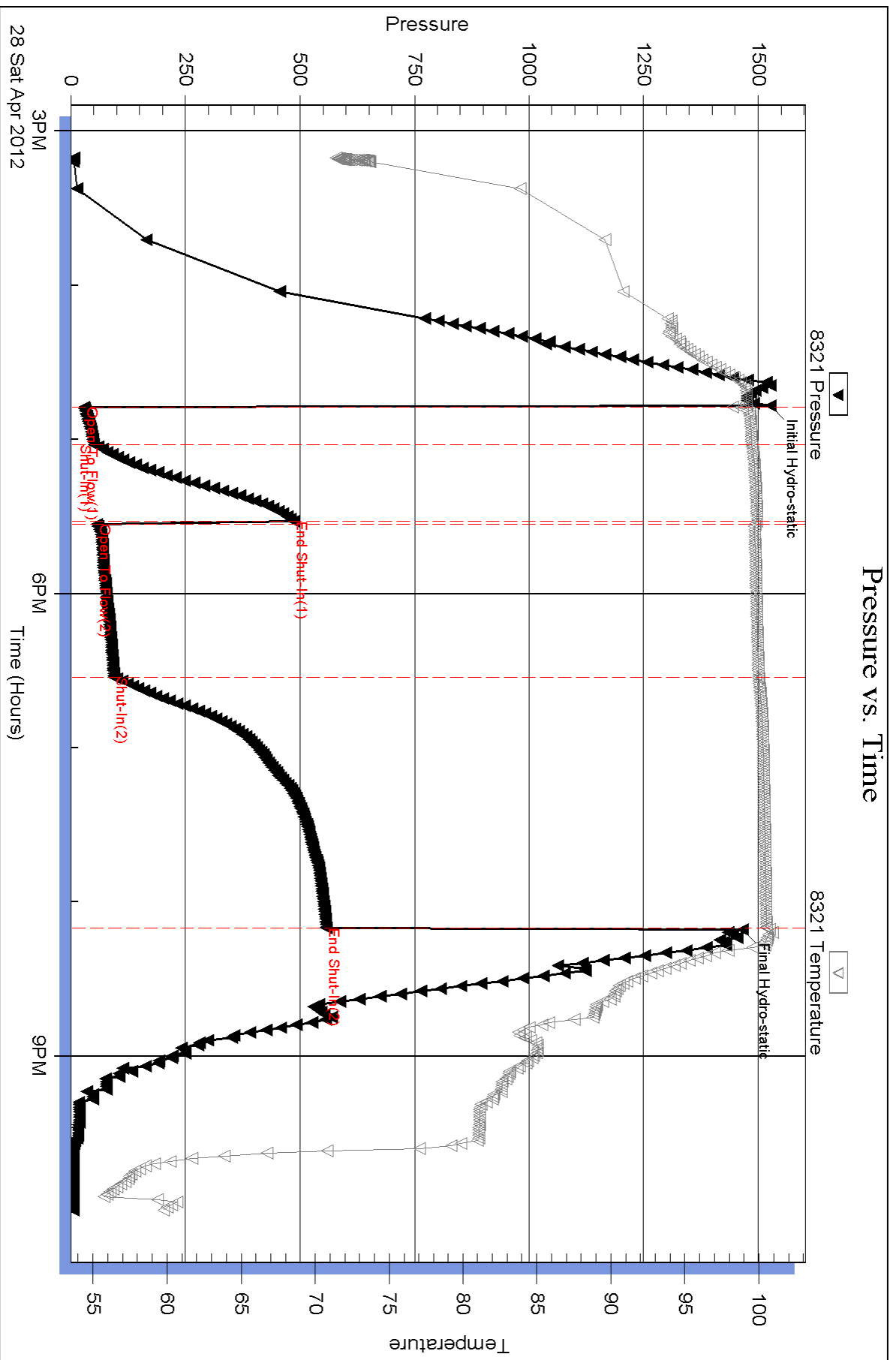
Inside

Berexco LLC

Schwien #1

DST Test Number: 2

### Pressure vs. Time



28 Sat Apr 2012

Triobite Testing, Inc

Ref. No: 44782

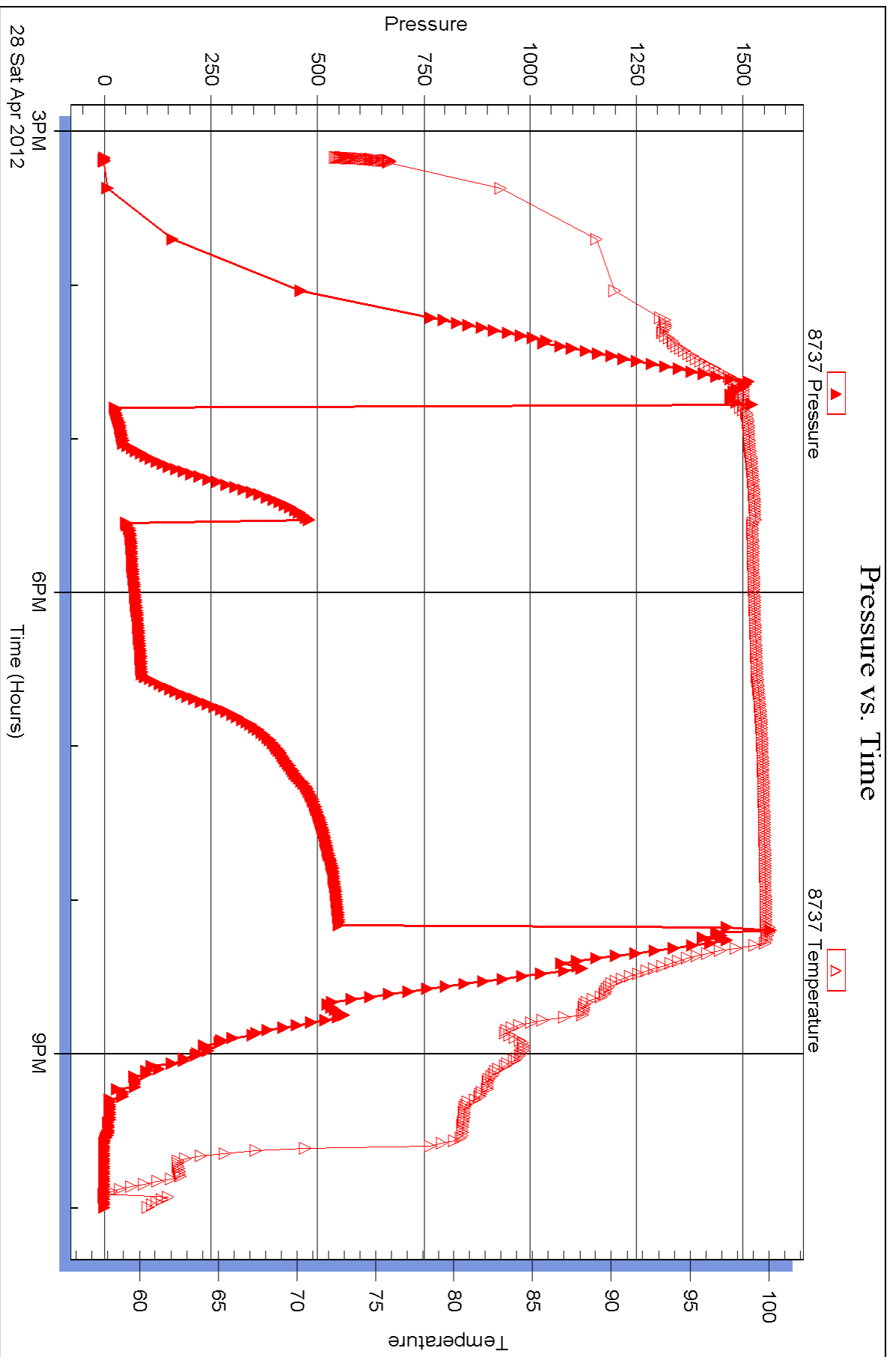
Printed: 2012.04.29 @ 14:01:04

Serial #: 8737

Outside Berexco LLC

Schwien #1

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco Co LLC  
 2020 N Bramblewood  
 Wichita Ks 67206 + 1094  
 ATTN: Bruce Meyer

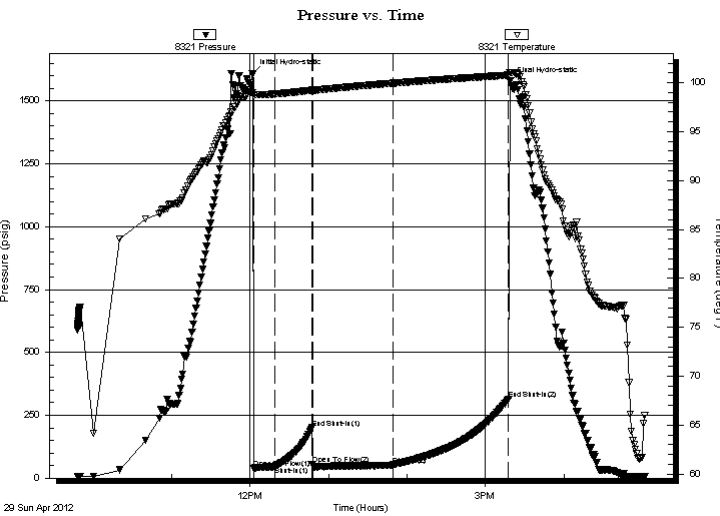
**30-14s-14w**  
**Schwien #1**  
 Job Ticket: 44783      **DST#: 3**  
 Test Start: 2012.04.29 @ 09:48:12

**GENERAL INFORMATION:**

Formation: **LKC-I & J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:02:42  
 Time Test Ended: 17:02:42  
**Interval: 3150.00 ft (KB) To 3200.00 ft (KB) (TVD)**  
 Total Depth: 3200.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 1829.00 ft (KB)  
 1819.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8321 Inside**  
 Press @ Run Depth: 52.99 psig @ 3187.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.04.29 End Date: 2012.04.29 Last Calib.: 2012.04.29  
 Start Time: 09:48:13 End Time: 17:01:42 Time On Btm: 2012.04.29 @ 12:02:12  
 Time Off Btm: 2012.04.29 @ 15:18:42

**TEST COMMENT:** IFP-Weak blow built to 1 1/8 in  
 ISI-Dead no blow back  
 FFP-Weak blow built to 3 in  
 FSI-Dead no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1609.68	98.97	Initial Hydro-static
1	40.12	98.64	Open To Flow (1)
17	46.47	98.84	Shut-In(1)
45	200.23	99.22	End Shut-In(1)
46	55.82	99.16	Open To Flow (2)
107	52.99	99.95	Shut-In(2)
196	314.67	100.77	End Shut-In(2)
197	1578.24	101.05	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	V SOCGM # %G 2%O 95%M	0.15
0.00	90-GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Berexco Co LLC

**30-14s-14w**

2020 N Bramblewood  
Wichita Ks 67206 + 1094

**Schwien #1**

Job Ticket: 44783

**DST#: 3**

ATTN: Bruce Meyer

Test Start: 2012.04.29 @ 09:48:12

## 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: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	VSOCGM#%G 2%O 95%M	0.148
0.00	90-GIP	0.000

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

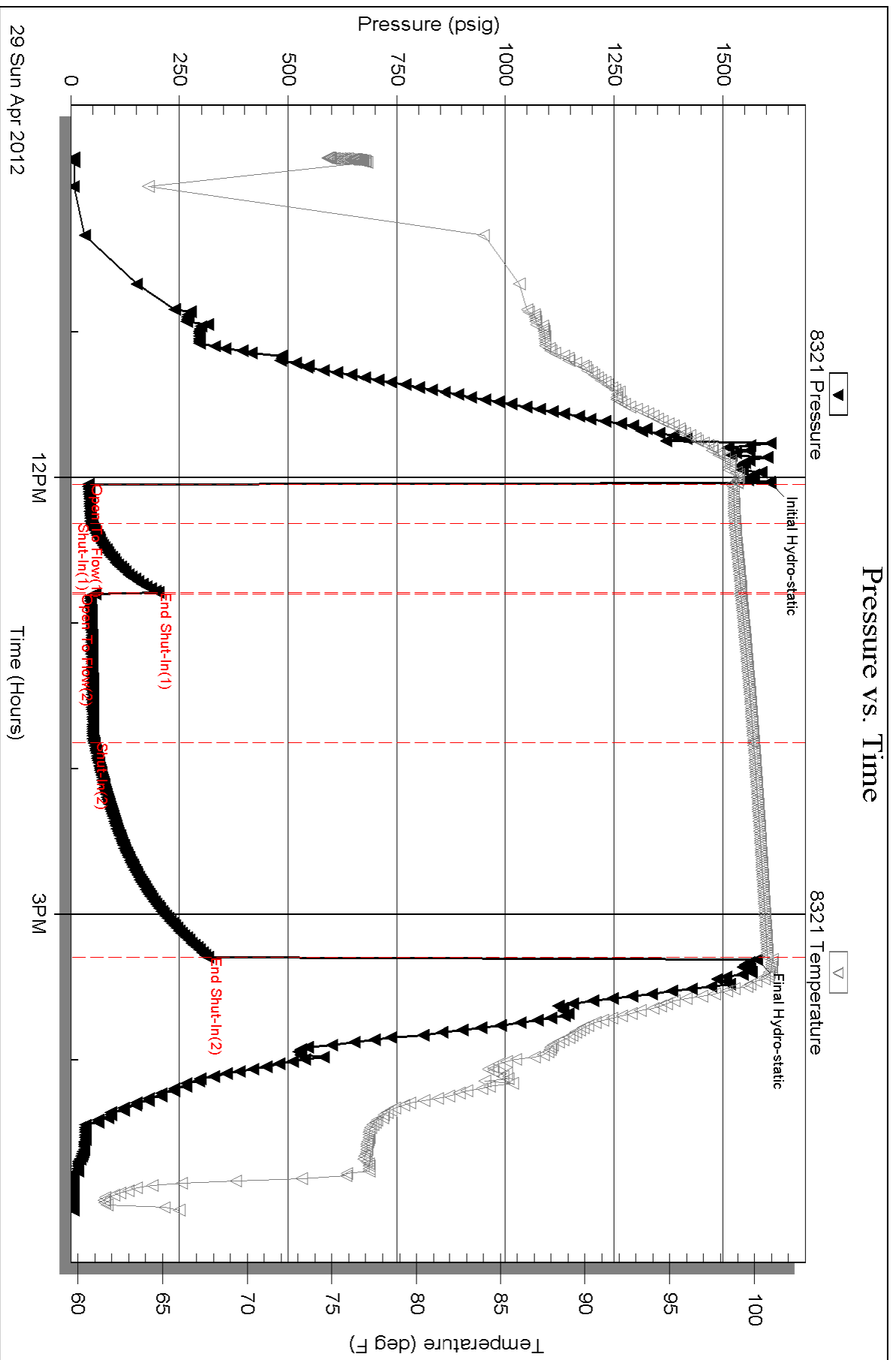
Laboratory Name:

Laboratory Location:

Recovery Comments:



# Pressure vs. Time







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Berexco LLC

**30-14s-14w**

2020 N Bramblewood  
Wichita Ks 67206 + 1094

**Schwien #1**

Job Ticket: 44784

**DST#: 4**

ATTN: Bruce Meyer

Test Start: 2012.04.30 @ 02:02:36

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
736.00	Gassy Oil 20%G 80%O	5.387
0.00	598-GIP	0.000

Total Length: 736.00 ft      Total Volume: 5.387 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

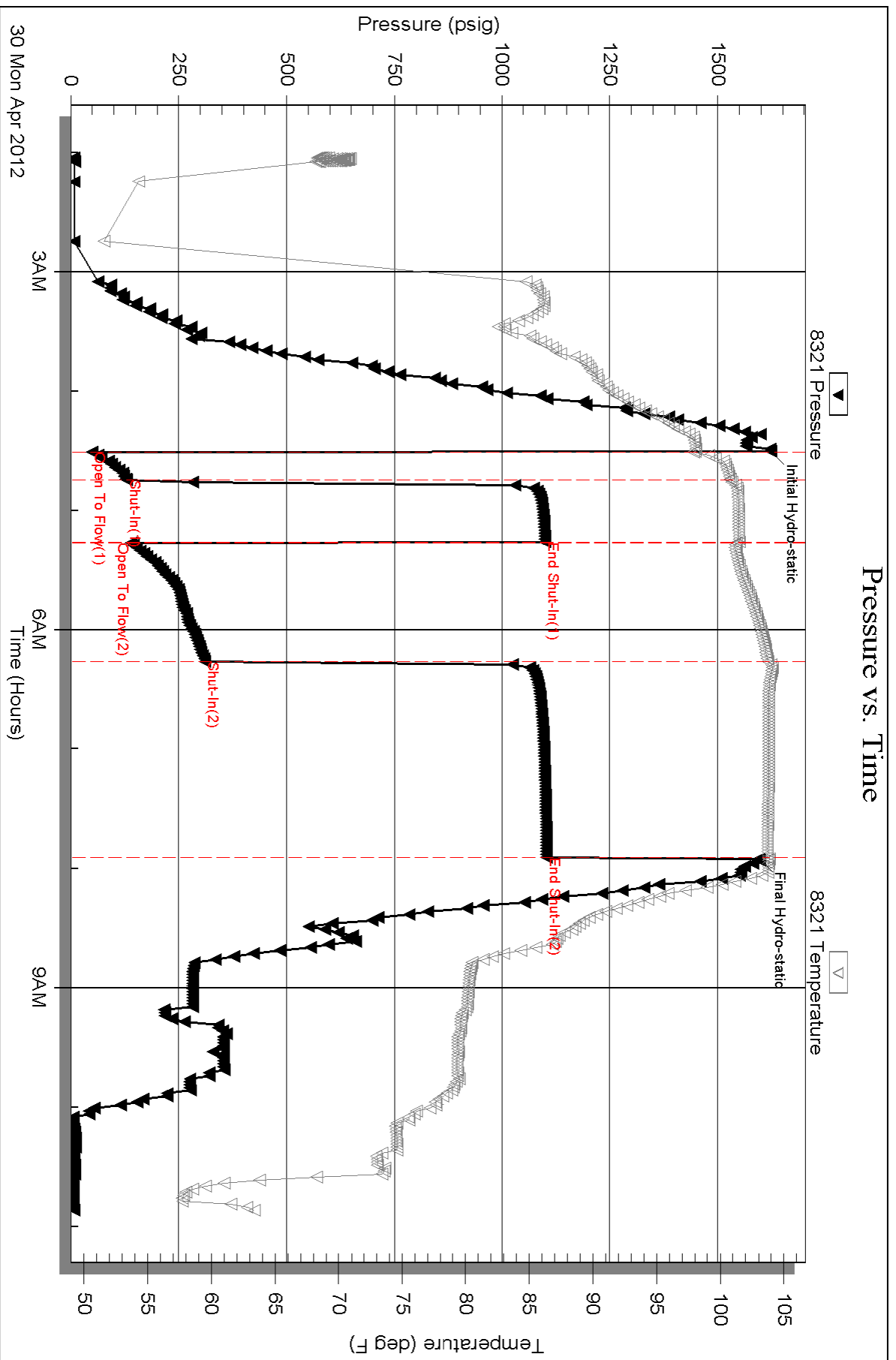
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Berexco LLC

**30-14s-14w**

2020 N Bramblewood  
Wichita Ks 67206 + 1094

**Schwien #1**

Job Ticket: 44785

**DST#: 5**

ATTN: Bruce Meyer

Test Start: 2012.04.30 @ 18:50:26

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	OCMW 15%O 25%M 60 %W	1.770
1453.00	Gassy Oil 40%G 60%O	18.724
0.00	1085-GIP	0.000

Total Length: 1813.00 ft      Total Volume: 20.494 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

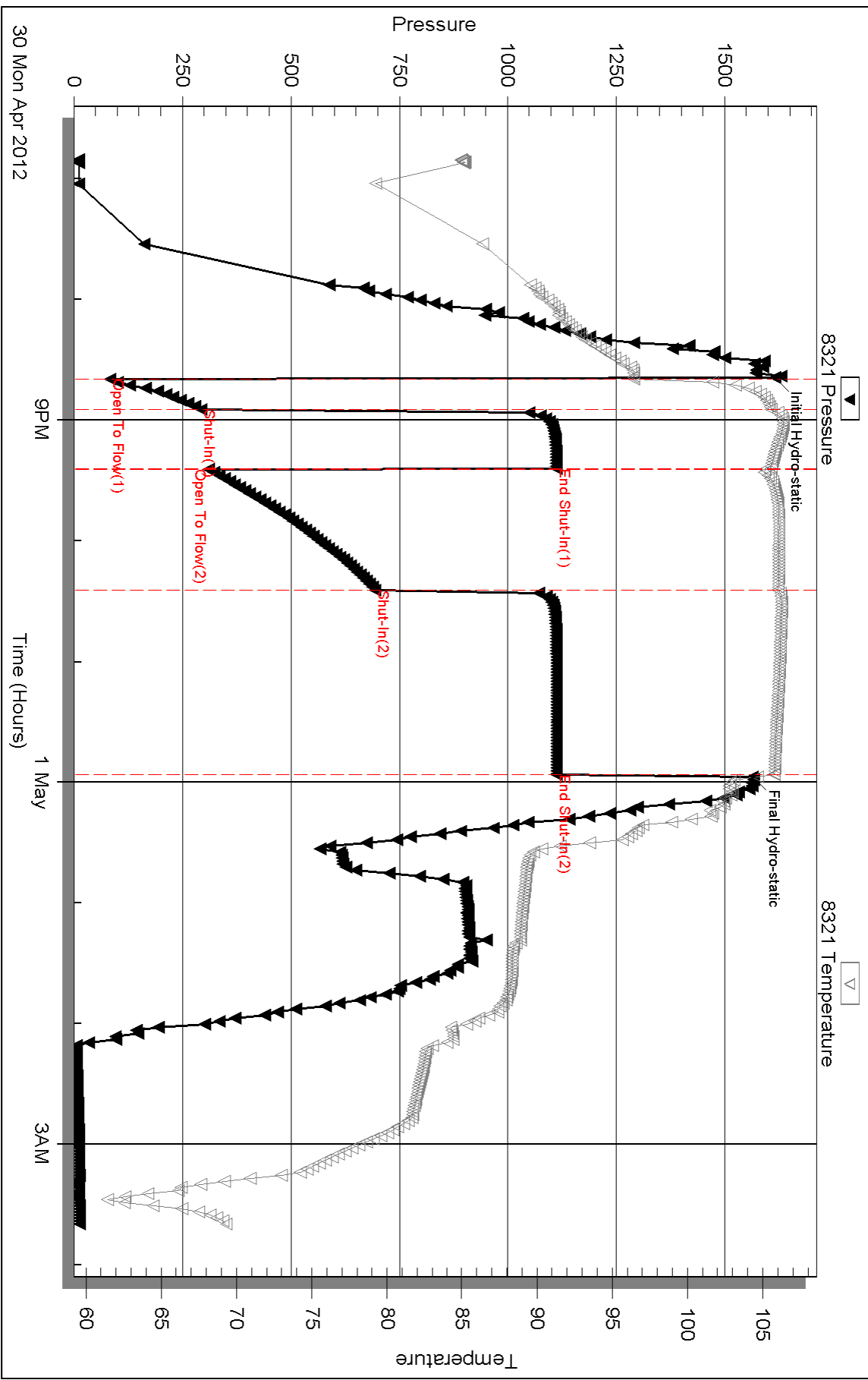
Inside

Berexco LLC

Schwien #1

DST Test Number: 5

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44785

Printed: 2012.05.01 @ 07:48:10

**BEREXCO, LLC.  
SCHWIEN # 1  
W2NENESW 30-14S-14W  
RUSSELL COUNTY, KANSAS**

**GEOLOGIST  
WILLIAM B. BYNOG**



## DISCUSSION

Schwien # 1 was drilled a total depth of 3333 feet testing the Lansing Kansas City and Arbuckle formations in Russell County, Kansas.

Structurally, Schwien # 1 came in two feet low to Hummel # 5 on the Lansing top and flat on the Arbuckle.

There were good sample shows in the Lansing A, B, and C zones with fair porosity development. All three of these zones were tested on drill stem test # 1 recovering only 10 feet of oil spotted mud. Pressures were very low due to productive wells in the area. The F and G zones had good porosity development and good sample shows and were tested on drill stem test # 2 with good results, recovering 887 feet of gas in pipe and 180 feet of heavy oil and gas cut mud. Drilling continued to the Kansas City I and J zones. Both these zones had good sample shows and were tested on drill stem test # 3 recovering 90 feet of gas in pipe and 30 feet of oil cut gassy mud.

There were two drill stem test in the Arbuckle, #4 in the top four feet and # 5 covering the next five feet. Drill stem test # 4 recovered all oil and gas with good pressures. Drill stem test # 5 recovered mainly all oil and gas with some water and also good pressures.

Logs agreed with sample evaluation recording fair porosity development in the Lansing Kansas City zones with high resistivity. The two upper zones in the Arbuckle looked good on logs and had very good sample shows. We tested the first bench recovering all oil with good pressures. The second bench was also tested with good results, recovering gas, oil and little water.

A decision was made to run production pipe based on drill stem tests in the Lansing Kansas City and upper Arbuckle.

SCHWIEN #1 SAMPLE DESCRIPTIONS  
BEREDCO DRILLING RIG 10 DRILLING 7 7/8 HOLE

SCHWIEN # 1 SAMPLE DESCRIPTIONS

2500-55 SHALE gray,gray green,soft,argillaceous

2555-2600 LIMESTONE buff,hard,very fossiliferous,micxln,poor porosity,no shows

2600-60 SHALE as above with thin LIMESTONE as above

2660-90 LIMESTONE buff,hard,fossiliferous, dirty,poor porosity,no shows

2690-2724 SHALE as above

TOPEKA

2724-54 LIMESTONE buff, very hard,dense, blocky,no shows

2754-60 LIMESTONE buff,firm,fossiliferous, slightly argillaceous,fair intg porosity,no shows

2760-2804 LIMESTONE buff,very hard,dense, as above, no shows

2804-26 LIMESTONE buff,firm,slightly argillaceous, fossiliferous,poor to fair micxln porosity,no shows

## SCHWIEN #1 SAMPLE DESCRIPTIONS

2820-82 LIMESTONE buff,hard,blocky,poor porosity, slightly fossiliferous,no shows with thin bedded SHALE black,gray,green,firm,fissile, carbonaceous

2882-98 LIMESTONE buff,firm,slightly argillaceous,fossiliferous,fair micxln porosity,no shows with thin SHALE as above

### PLATTSMOUTH

2898-2914 LIMESTONE buff,slightly hard, micxln,very fossiliferous,poor porosity,no shows with thin SHALE as above

2914-28 LIMESTONE white,firm,micxln, poor crystalline and pinpoint vuggy porosity,very spotty live brown stain,good cut

2928-44 LIMESTONE buff,very hard,dense, no show

### HEEBNER

2944-50 SHALE black,gray,green,firm, fissile,carbonaceous with thin LIMESTONE buff, very hard,dense

2950-64 SHALE red,green,gray,firm,very argillaceous

### TORONTO

2964-70 LIMESTONE buff,firm,fossiliferous, micxln,slightly chalky,fair intxln porosity,spotty brown live stain,good cut

## SCHWIEN #1 SAMPLE DESCRIPTIONS

2970-76 LIMESTONE buff,very hard,dense

2976-3000 SHALE as above

LANSILNG A

3000-06 LIMESTONE buff,very hard,dense

3006-10 LIMESTONE buff,firm,fossiliferous, micxln,poor to fair crystalline porosity,very spotty live brown stain,fair cut

3010-20 SHALE as above

B

3020-28 LIMESTONE white,firm,micxln, fair crystalline porosity,spotty to even brown live stain,good cut

3028-34 SHALE as above

C

3034-40 LIMESTONE buff,firm,micxln, oolitic,poor to fair crystalline and vuggy porosity,spotty brown live stain,good cut and odor

3040-72 LIMESTONE buff,very hard,dense with thin SHALE gray,green,firm,argillaceous

## SCHWIEN #1 SAMPLE DESCRIPTIONS

F

3072-80 GRAINSTONE white, firm, very oolitic, fair to good intg porosity, spotty to even live brown stain, very good cut and odor, good show free oil with thin SHALE as above

G

3082-85 LIMESTONE pale gray, hard, oolitic, slightly chalky, poor to fair intxln and vuggy porosity, spotty live brown stain, very good cut and odor, good show free oil

3085-92 LIMESTONE white, buff, very hard, dense

3192-98 LIMESTONE white, firm, very oolitic, good intg and oomoldic porosity, spotty to even, live brown stain, very good cut, poor show free oil

3098-3106 LIMESTONE buff, firm, very oolitic, good oomoldic porosity, very spotty light brown stain, residue cut

3106-30 LIMESTONE buff, very hard, dense, no shows

3130-40 SHALE gray, green, red, black, firm, argillaceous

H

3140-58 LIMESTONE buff, very hard, dense, no shows with thin SHALE as above

I



## SCHWIEN #1 SAMPLE DESCRIPTIONS

3158-76 LIMESTONE as above with scattered LIMESTONE white,firm,oolitic,fair intg porosity, spotty live brown stain,fair cut

J

3176-80 LIMESTONE white,firm,slightly oolitic, poor to fair micxln and pinpoint vuggy porosity, spotty live brown stain,good cut

3180- 3200 LIMESTONE buff,very hard,dense, blocky,no shows with thin SHALE as above

3200-16 SHALE as above

K

3216-32 LIMESTONE buff,hard,very oolitic,poor micxln and intg porosity,spotty to even live brown stain,good cut and odor,good show free oil

3232-40 SHALE as above

ARBUCKLE

3240-44 DOLOMITE white,firm,micsuc texture,fair to good intxln porosity,even live brown stain,very good cut and odor,good show free oil

3244-48 DOLOMITE white,slightly hard,sandy in part,micxln,poor to fair crystalline porosity,spotty live brown stain,good cut and odor,fair show free oil

3248-52 DOLOMITE white,firm,micsuc to sucrosic texture,sandy in part,good crystalline porosity,very

SCHWIEN #1 SAMPLE DESCRIPTIONS

good cut and odor,good show free oil