

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	RA 1-6
Doc ID	1307139

All Electric Logs Run

Neutron-Density
Sonic
Resistivity
Microlog

DRILLING TIME & SAMPLE LOG

COMPANY Berexco LLC
 LEASE RA NO. 1-6
 LOCATION 800'FSL + 2975'FEL
 SEC. 6 TWP. 29S RNG. 40W
 COUNTY Stanton STATE Kansas
 FIELD Arroyo Northeast

ELEVATIONS
 KB 3330
 DF 3328
 GL 3318
 MEASUREMENTS ARE ALL FROM KB

CASING RECORD
8 7/8" at 1725' w/ SX.
 ___ at ___ w/ ___ SX.
 ___ at ___ w/ ___ SX.
 ___ at ___ w/ ___ SX.

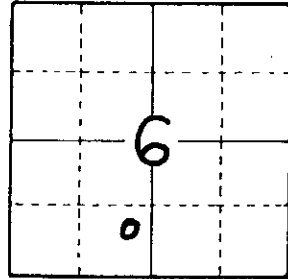
EL. LOG ACT Res: SP GR
DN NEUT GR Caliper
MI-Sonic

CONTRACTOR Beredco Delg. Rig #1
 COMM. 4-6-2016 COMP. 4-20-2016
 RTD 5672 LTD
 No. of DST'S None No. of CORES None

SAMPLES SAVED FROM 3700 TO TD
 DRILLING TIME KEPT FROM 3500 TO TD
 SAMPLES EXAMINED FROM 3700 TO TD
 GEOLOGICAL SUPERVISION FROM 4000 TO TD
 GEOLOGIST ON WELL Edwin H. Grieves

FORMATION TOPS

FORMATION TOPS	SAMPLE	LOG	SUBSEA
<u>Base Heebner</u>	<u>3709</u>		
<u>Lansing</u>	<u>3767</u>		
<u>Marionton</u>	<u>4366</u>		
<u>Ft Scott</u>	<u>4531</u>		
<u>Morrow</u>	<u>5019</u>		
<u>St. Genevieve</u>	<u>5557</u>		
<u>St. Louis</u>	<u>5604</u>		
<u>TD</u>	<u>5672</u>		



API#15-187-21325

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 4122 to total depth.

Lost Circ At 4863 - Lost over 1000 bbls of Mud

Handwritten notes:
 1000' FSL
 New Kit
 9/20/16
 Geo

LITHOLOGY

	SANDSTONE
	LIMESTONE
	SHALE
	CHERT
	SILTSTONE
	DOLOMITE
	GRANITE WASH
	LAMINAR & GTP

CHROMATOGRAPHY

HOT WIRE BY TOTAL GAS VOLUME

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

DRILL TIME SCALE

5 10 15

SAMPLE DESCRIPTION

3500

GAS SCALE

10 100 1000

DRILL TIME SCALE

5 10 15

SAMPLE DESCRIPTION

GAS SCALE

10 100 1000

3500

3600

3700

Sh. v. dark gry. to blk. - ca. ab.
- Lms. grayish. Tan; crypto. x. imp. pack str.
to sub-lithog. ; dul. yel. fluor. No cut
No Vis. pore

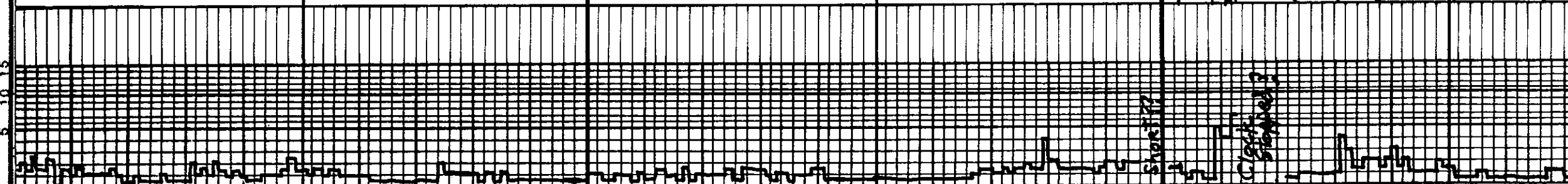
Sh. lt. gry. to lt. grn. silty IP's v. soft
mushy when wet
Lms. Tes. wh. to cream ch. l. to con. to tan; crypto
to v. v. tan. x. in; sub ch. l. s. ub. sug. ca. to
suc. ca. d. in; yel. fluor. No cut. Tes. v. PE
mic. b. - p. to pos. s. sites. inter. in pore.

Lms. lt. to med. gry. - sl. to f. sh. ly. to
grayish. tan to tan; crypto. to v. f. sh. ly.
sub-ch. l. yel. sh. ly. sub-suc. ca. and
pach. sh. ly. Tes. dul. yel. fluor. ; No cut
No Vis. pore.

Sh. lt., med. to dark. gry. ; sl. to extr. ly.
calc.

Base Heed burner
3709 = 379

TRANSING
3767-437



Lms. lt. to med. gray - sl. to fely sh. to gray sh. tan to tan. crypto. to vit. thin. sub-ch. 1/6 to 2 sh. sub-sucro and packstn. trs. dul. yel. fluor. No cut No vis por.

Sh lt. med to dark gray; sl. to extraly calc.

Chart change

Laminating
3767-437

Interbedded Limestones

1. Slower Drlg. Lms. H. to med gray - sl. to fely sh. tan to gray sh. tan. to tan. crypto. to v. v. fn. x. ln. sub-ch. 1/8 to 1/4 sh. sub-sucro. Packstn. trs. sub. No cut. No vis por. dul. yel. fluor. IP; No cut. No vis por.
2. Faster Drlg. Lms. trs. wht to cr. r. ch. ls. IP's & gray sh. tan to tan. crypto. to v. v. fn. x. ln. sub-ch. sub-sucro to trs. sucro. & packstn. trs. sl. to fely. phan tan oolitic; dul. yel. fluor. No cut; scattered trs. pr. to sl. trs. fine micro-pr. por.

3800

3900

Geological

LIME
BRECKE

Lms. v. to extr. zbn. wht. to cream-chk. and gray sh. tan to tan. crypto. to v. v. fn. x. ln. v. to extraly oolitic; No R sl. to fely to trs. v. oolitic; matrix sub-chk, sub-sucro and packstn.; dul. yel. to trs. yel. fluor. No cut; extr. zbn. fr. g. to excel oolitic por.; Quest. Fe. m.

4000

matrix sub-chk, sub-succo and
pachstn; dul. yel. to t. as yel. fluor.
No cut; extr. abn. fr. 9A to excel
oolitic por.; Quest. Perm.

4000

Lms. lt. to med. gray. - sli. to v. shly
+ grayish. tan to tan; crypto to
v. u. fine. xln; sub-chk like shly.
Sub-succo + pachstn; t. as dul. yel.
fluor. 1P5; No cut; No Vis for

4100

Lms. extr. abn. wht to cr. m. - chk and
cr. m. to lt. tan; crypto. to v. u. fine. xln;
v. to extraly oolitic for sli. to frly
oolitic; matrix sub-ly sub-succo
+ pachstn - dul. lt. to h. yel. fluor.
No cut; abn. fr. 9d to excel. oolitic
por.; Quest. Perm

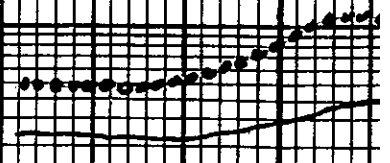
Lms. similar 4064 - 4140

Lms. tan. wht. to cr. m. - chk + tan;
crypto. to u. fine. xln. v. to extraly.
oolitic for sli. to frly. oolitic;
matrix tan. sub-chk, t. as sub-succo
+ pachstn; gldn. yel. to yel.
mottled fluor.; No cut; v. abn.
p. fr. 9d. to excel. oolitic por.
very Quest. Perm

4200

Lms. lt. med. to t. as dul. to d. k. + d. k. gey
sli. to u. shly w/ tan. to tanish gray. to
sli. tan. tan; crypto. to t. as sub-succo
sub-chk like low shly; sli. tan sub-succo
+ pachstn; v. sli. tan. dul. yel. fluor.
No cut; No Vis for

Gas Deflection Well
Starting 4027



lms. H., med. to tan dark to dull grey
 slt. to u. shly. w/ tan. to wish grey. to
 sh. tan. tan. crypto. to tan. sub-fine.
 sub-chalk. w/ tan. shly. sh. tan. sub-fine.
 + p. calc. sh. v. sh. tan. dull yellow.
 No cut. No vis por

Sh. H., med. to dk. grey; faly to
 extly. c. & l. gradu. to shly lms.

Interbedded Limestones

1. Slower Dalg. tes. wht. to cr. chalk.
 + lt. grey, cr. m. to tan; crypto. to
 v. u. fn. xln.; sub-chalk, sub-succo
 to tan; succro. pac. ch. sh. & tes
 sub-lithographic; dul. yellow. No cut.
 No vis por.

2. Faster Dalg. lms. ext. abn.
 wht. to cr. chalk + H. tan to tan,
 greyish. lps. crypto. to v. u. fn. xln.
 sub-chalk, sub-succro to succro.
 + pac. ch. sh. tes to hvy. tan shly
 to faly. oolitic. sh. to hvy. tan shly
 hvy. tes. slt. to faly. oolitic,
 dul. H. yellow. No cut.

hvy. tes. pr. to pr. micro. pp.
 to interbedded por. & tes. to hvy
 tes. pr. fr. to good oolitic
 por. Quest. form in
 oolitic por.

Nizamatom
 4300 = 1056

WOB 10000
 APM 100
 SPM 50
 PP 1000

SH 525.1-226

4300

4400

4500

4500

4600

4700

Sh. v. drk. gray to black - carb

Interbedded Limestones & Shales

- ① Lms. sh. to med. to drk. gray - sh. to extremely shaly; gradn to calc. shs. crypto. to tan; crypto. to vit. to sub-obl. sub-succ. ool. to phant. ool. to lit. IP's to fine. ool. to fine. dul. H. yellow. No cut; No vis for
- ② Lms. H. med. to drk. gray - sh. to extremely shaly; gradn to calc. shs. crypto. xlv. sub-obl. to ool. shaly. packstn. + sub-lithographic. fine. dul. yellow. IP's, No cut No vis for
- ③ Sh. H. med. to drk. gray to very drk. gray; gradn to extra sh. calc. IP's gradng. to extra sh. shaly. Lms. stns.

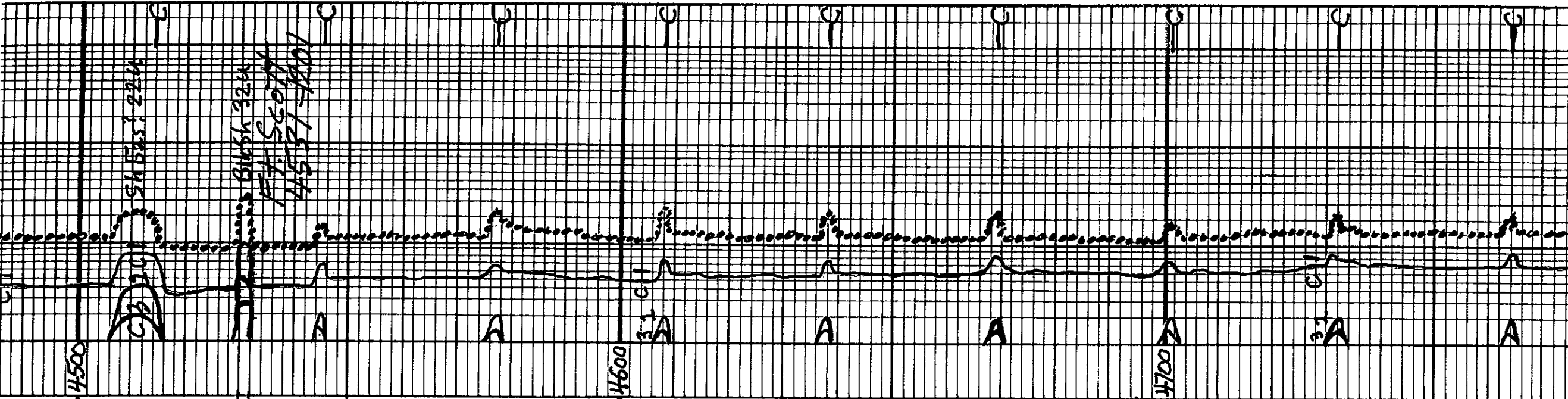


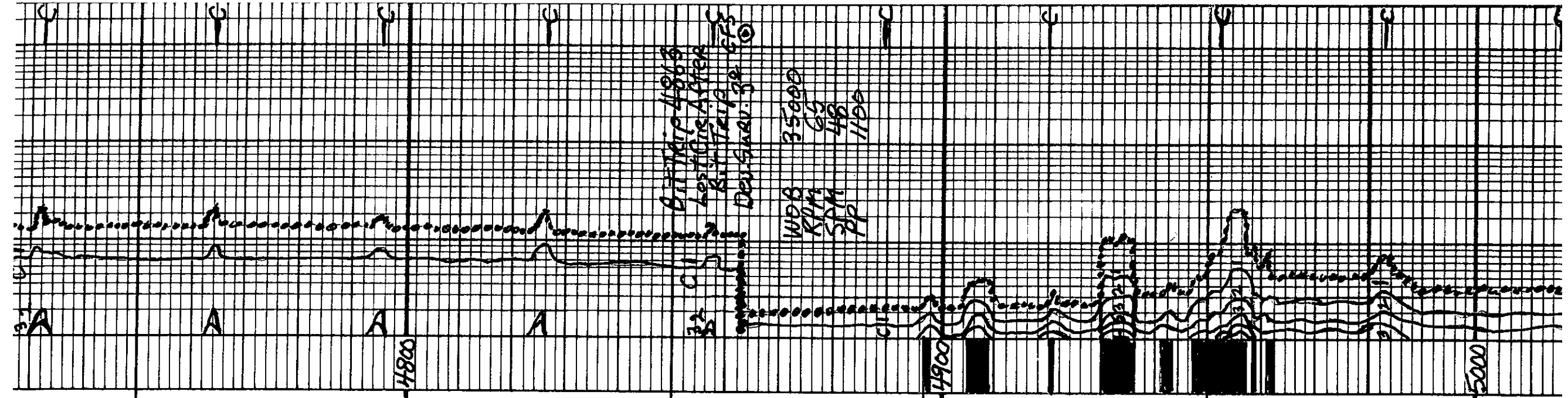
SH 5551 2214

SH 5551 2214

FT. ST. JOHN

4551 2100



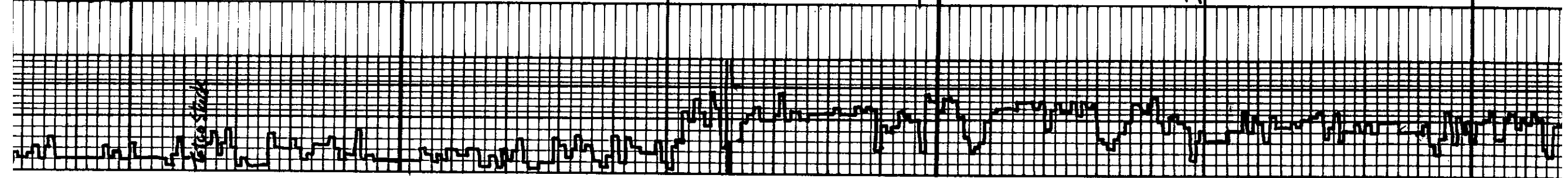


All Trip 4868
 Lestige After
 Kittling
 Des. Grav. 30 65

WDB 35000
 KPM 64
 SPM 48
 PP 1100

Interbedded Limestones & Shales
 Similar 4531-4897 w/abu
 Interbeds Shales & dk. grey.
 to black - carb.

Lestige Shale



Morrow Fan
5087-1617

Sh. med. gray, soft, w/silky luster
+ dark gray - splintery lps.
w/abu. prob. thin interbeds
Lms. H. gray, Totani, crypto. to
v.v. fine, sub-calc, res. sub-susp.
packstn + sub-lithographic;
No fluor; No cut; No U₂ for
w/tes pyrite lps

Sh. w/only sl. lms. Lmsts.
similar 5085-5206

5000

5100

5200

211

621

631

639201



Sh. w/only sl. trs. Lmsts.
similar 5085-5206

Lm. + Qtz grs Sdst 50 to 100%
Lmgas v. or 50 to 100% Qtz grs;
lt. gray to tan, mottled lps; lmg
fn to coarse. - Qtz. gas v. fn to med.
ang to tes. sub-ang. gradng to sub-Rnd
Trs to 30% glauc., No fluc., No cut
No vis por

Sh. med. gray, soft, w/silky luster to
dk. gray. - splintery lps

Qtz Sdst w/trs Lmgas; lt. gray to
tan; Qtz v. to med. gr., ang. to
trs. sub-ang. gradng to sub-Rnd.
Zero to huy trs. Lm. gas lps; v. fn to
coarse gas; trs. sl. micaceous; tes.
to abn. gray; No fluc.; No cut,
No vis por

Sh. med. gray, soft, w/silky luster -
dew. gray. - splintery lps; w/trs
Lm + Qtz Sdsts similar
5381 - 5399 w/sh. matrix lps +
abn. sl. to v. finely disseminated
pyrite

Qtz Sdst lt. gray, whitish gray to
tanish gray v. fn. to tan w/huy
Trs to abn. med to coarse gas
ang w/trs to huy trs subang to sub-Rnd
pr. sort; v. faint oil adng, mostly
sl. to v. glauc. to chloritic; huy trs
ltd. yel. fluc. w/ tan to dk. staining
cut; No vis por; No fluc.; No cut;
S. micaceous v. to v. med. lps
huy trs to 20% loose Qtz grs
Sh. similar 5399 - 5420 w/huy trs Lm
gas; can to tan, ang to 40% huy trs
ltd. yel. fluc., No cut, No vis por

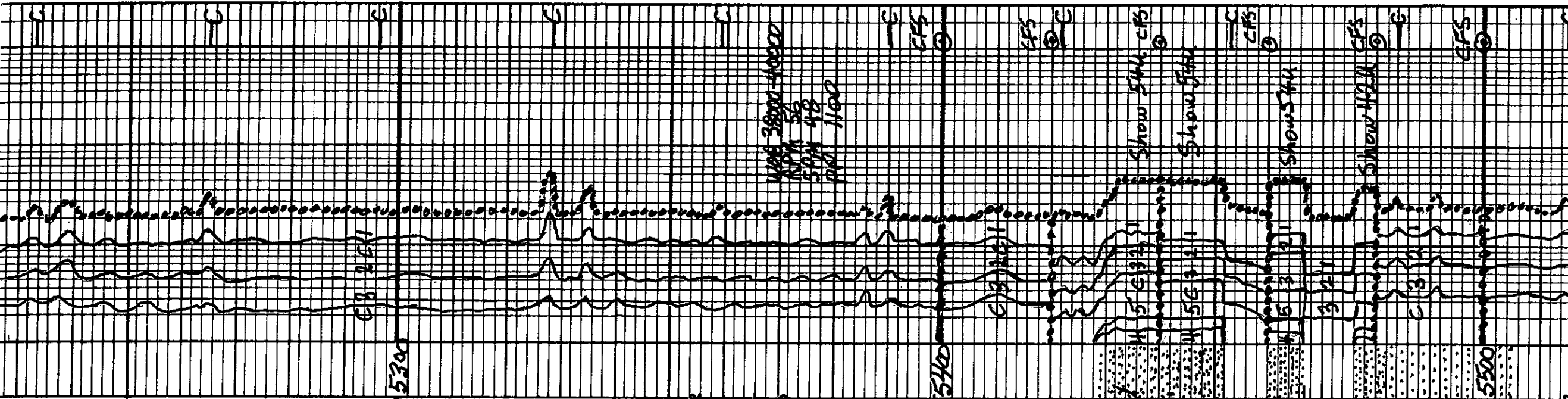
Qtz Sdst similar 5429 - 5452

Sh. w/Lms similar 5452 - 5460

Qtz. sdst. similar 5429-5452 w/
more med to coarse gas + more
sub-Rnd. to Rnd. gas

Qtz Sdst v. lt. gray to whitish gray; sl.
Trs. tan; v. fn. to v. th. gr.; ang;
Trs. blk. mingled lps by ang. sh. lps
Trs. finely disseminated pyrite,
Trs. yel. fluc. w/ faint to fe. staining
cuts; Trs. w/poor intergr. por

Sh. med. gray, soft, w/silky luster
+ dk. gray; splintery lps w/trs
2 ll. trs. to 10% trs. No cut, No vis por



Otr. Sdly v. H. gray. to wh. to dk. gray. + sh. tan; v. u. f. to u. gray. + sh. tan. b. k. m. orange. 19 as before. Sh. l. o. gas. f. finely disseminated. p. r. tan. yel. fluor. w/ faint to fl. strong cuts; tan. w/ poor interst. por.

Sh. med. gray, soft, w/ sil. cluster + drk. gray. splintery IP's w/ tan. + tr. drk. Red. Red Shale

Sh. similar to 5505-5533 w/ v. abu drk. Red Shs.

Lms. pink + red w/ tan; crypto to v. u. tan. x. l. m. + sh. med. calc. to sh. to tan. Qtz Sdly - v. o. tan. gray; matrix sub-sucro. o. p. calc. + fluor. Not more; No cut; No Vis for

Lms H. gray. to tan w/ tan pink + red; crypto to v. u. tan. x. l. m. + sh. med. calc. to sh. to tan. Qtz Sdly - v. u. tan. gray; matrix sub-sucro. to p. calc. + tan. H. vel fluor. IP's; No cut; No Vis for

Lms. tan. to h. tan. wh. to cream; chalk + grayish tan to tan; crypto to v. u. tan. x. l. m. + sh. to centrally oolitic (sum. med + tr. sh. matrix chalk sub-chalk); sub-sucro. + p. calc. + tan. No cut. H. vel. fluor. IP's; No cut. No Vis. por. w/ tan. to abu. Chert orange to H. gray and tan. tan. app. to transl.

TD 5672

7 3/8" Bit Info
#1 PDC BIT 1725-4863

#2 New Smith F271PV
in at 4863 out TD 5672

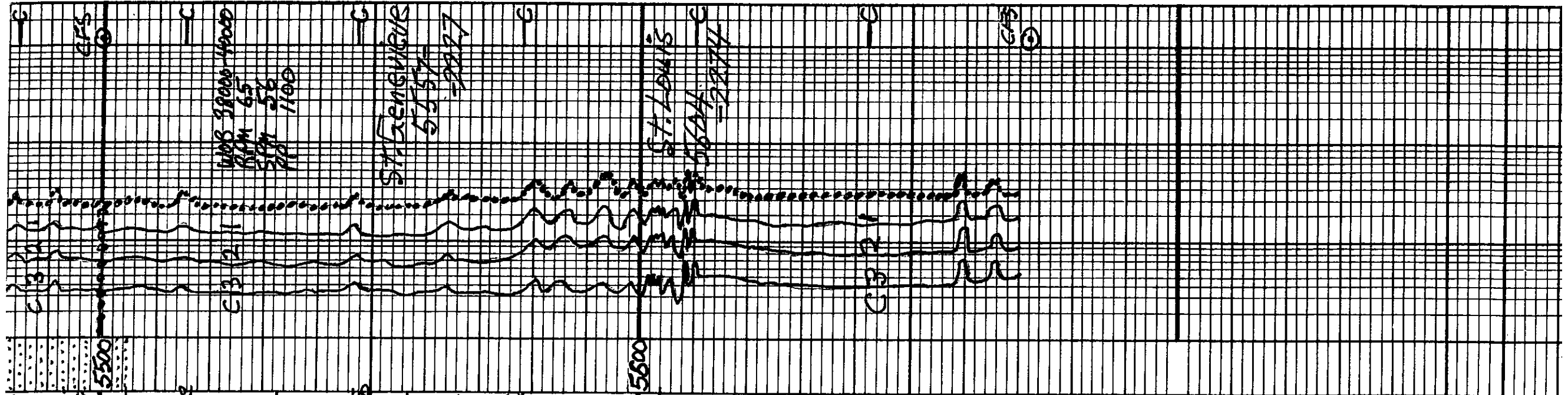
Cir. Prints

1. 4863
2. 5400
3. 5420
4. 5440
5. 5460
6. 5480
7. 5500
8. 5672

Dev. Swagers
1. 4863 30
2. 5672

Daily. Dalg. Progress

1. 3742 At 7:00 AM 4-12-16
2. 4313 At 7:00 AM 4-13-16
3. 4863 At 7:00 AM 4-14-16
4. 4863 At 7:00 AM 4-15-16
5. 5015 At 7:00 AM 4-16-16
6. 5301 At 7:00 AM 4-17-16
7. 5500 At 7:00 AM 4-18-16
8. 5660 At 7:00 AM 4-19-16



hms H. gray. tot gw / has pink + red.
 crypto to uv. fu. x ly. extra ly
 micro-collitic and / sl. to fully
 Qtz Sdy - uv. lgr. - aug. matrix
 sub-sucro. to packston. dul. H. vel
 fluora IP's; Noctus. No Vis for

Lms. tes. to huy. tas. wht. to cream
 chalk + gray bit to tan. crypto
 to uv. Ex. xln. sl. to centrally
 oolitic (sm. med + tres. g)
 matrix chlk sub-chlk.
 sub-sucro. + packston. No. cut
 dul. H. vel. fluor. No. cut
 No Vis for. w/ tas. to a bn
 chert orange to h. gray and
 tres tan. opque to transl.

TD 5672

7 7/8" Bit Info
 #1 PDC BM 1725-4863
 #2 New Smith F271PV
 in at 4863 out TD 5672

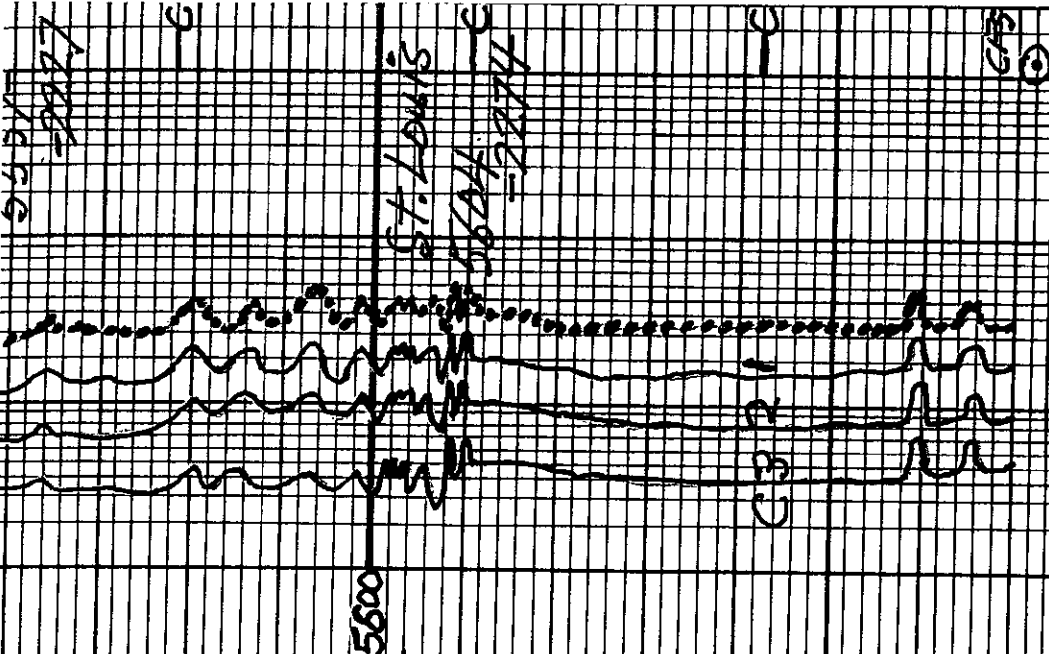
Cip Points

1. 4863
 2. 5400
 3. 5420
 4. 5440
 5. 5460
 6. 5480
 7. 5500
 8. 5672
- Dev. Surveys
 1. 4863
 2. 5672

Daily. Dalg. Progress

1.	3742	At 7:00 AM	4-12-16
2.	4313	At 7:00 AM	4-13-16
3.	4863	At 7:00 AM	4-14-16
4.	4863	At 7:00 AM	4-15-16
5.	5015	At 7:00 AM	4-16-16
6.	5301	At 7:00 AM	4-17-16
7.	5500	At 7:00 AM	4-18-16
8.	5660	At 7:00 AM	4-19-16
9.	5672	At 7:00 AM	4-20-16

No DST's Were Run



OPERATOR Berexco LLC LOCATION 800' FSL + 2975' FEL
 LEASE RA NO. L-6 SEC 6 TWP. 29S ANG. 40W
 ELEVATION 3330 KB RTD 5672 COUNTY Stanton STATE KANSAS



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Berexco	Cement Pump No.:	38117, 19919 8Hrs.	Operator TRK No.:	78939
Address:		Ticket #:	1718 13173 L	Bulk TRK No.:	14355, 37725 Sanitago 14354, 19578 Jose
City, State, Zip:	Wichita Ks	Job Type:	Z42 - Cement Production Casing		
Service District:	Liberal, Ks.	Well Type:	OIL		
Well Name and No.:	RA 1-6	Well Location:	6, 29, 40	County:	Stanton
				State:	Ks

Type of Cmt	Sacks	Additives		Truck Loaded On					
A-Con' Blend	200	2% CALCIUM CHLORIDE, 1/4# POLYFLAKE		14354, 19578 Jose	Front Back				
AA2 Cement	165	5% W-60, 10% SALT, .75% C-15, 5# GILSONITE, 1/4# DEFOAMER		14354, 19578 Jose	Front Back				
A-Con' Blend	175	2% CALCIUM CHLORIDE, 1/4# POLYFLAKE		14355, 37725 Sanitago	Front Back				
AA2 Cement	50	5% W-60, 10% SALT, .75% C-15, 5# GILSONITE, 1/4# DEFOAMER		14355, 37725 Sanitago	Front Back				
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel				
Lead:	11.4	2.93	18	586	Man Hours: 14				
Tail:	14.8	1.51	6.63	249.15					
Lead 2:	11.4	2.93	18	512.75					
Tail 2:	14.8	1.51	6.63	75.5	# of Men on Job: 4				
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials		
			T	C	Tubing	Casing			
9:00							CALLED OUT FOR JOB		
14:50							ARRIVE ON LOCATION		
2:55 PM							SAFETY MEETING		
3:10 PM							START 5 1/2 CASING AND FLOAT EQUIPMENT		
							PUT STAGE TOOL ON JT# 59 @ 3201FT		
20:00							CASING ON BOTTOM HOOK UP PC & CIRC IRON		
20:05							BREAK CIRC WITH RIG		
8:25 PM							THRU CIRC HOOK IRON TO PT		
21:20							PSI TEST LINES TO 3000		
21:25	7	78.2 slurry				530	PUMP 150SX A-CON @ 11.4#		
21:35	7.1	44.3 slurry				240	PUMP 165SX AA-2 @ 14.8#		
21:45							SHUT DOWN STUFF PLUG & WASH UP		
21:50	6	20				60	START DISPLACEMENT H2O		
	6	57.6				70			
	6	57.6				70	START DISPLACEMENT MUDD		
	5.4	70				170			
	6.3	80				320			
	3	110				820	SLOW RATE		
	3	120				930			
Size Hole	7 7/8"	Depth	5672'				TYPE	PLUG CONTAINER	
Size & Wt. Csg.	5 1/2" 15.5#	Depth	5664'	New / Used			Packer	Depth	
D.V. Tool	5 1/2"	Depth	3201'				Retainer	Depth	
Top Plugs		Type					Perfs	CIBP	
Customer Signature:							Basic Representative:	Chad Hinz, Daniel Beck	
							Basic Signature:		
							Date of Service:	4/20/2016	



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

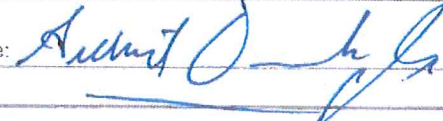
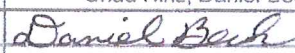
Customer:	Berexco	Cement Pump No.:	38117, 19919 8Hrs.	Operator TRK No.:	78939
Address:		Ticket #:	1718 13173 L	Bulk TRK No.:	14355, 37725 Sanitago 14354, 19578 Jose
City, State, Zip:		Job Type:	Z42 - Cement Production Casing		
Service District:	1718 - Liberal	Well Type:	OIL		
Well Name and No.:	RA 1-6	Well Location:	6, 29, 40	County:	Stanton State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
			14355, 37725 Sanitago	Front	Back
			14354, 19578 Jose	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Yield	Water Requirements	CU. FT.	Man Hours / Personnel
Lead:				0	Man Hours:
Tail:				0	# of Men on Job:

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
22:17	0	133.8				1510	LAND PLUG
22:19							RELEASE FLOAT --- HELD
10:22 PM							DROP OPENING PLUG
10:42 PM	2.5					1100	OPEN STAGE TOOL
10:56 PM							CIRC WITH RIG
2:25		26 slurry					PLUG RAT AND MOUSE HOLES W 50SX A-CON
2:42	7	91.3 slurry				270	PUMP 175SX A-CON @ 11.4#
2:56 AM	7.2	13.4 slurry				270	PUMP 50SX AA-2 @ 14.8#
3:00							SHUT DOWN DROP CLOSING PLUG & WASH UP
	6.7	20				250	PUMP DISPLACEMENT
	6.6	30				420	
	6.6	40				510	
	6.6	50				550	
	6.5	60				590	
3:17	3	66				580	BBLs IN SLOW RATE
	3	70				630	
3:22	0	76.1				630	LAND PLUG - CLOSE STAGE TOOL @ 1800PSI
							RELEASE PSI - TOOL CLOSED
							JOB COMPLETE

Size Hole	7 7/8"	Depth	5672'		TYPE	
Size & Wt. Csg.	5 1/2" 15.5#	Depth	5664'	New / Used	Packer	Depth
tbg.		Depth	3201'		Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:  Basic Representative: Chad Hinz, Daniel Beck
 Basic Signature:  Daniel Beck
 Date of Service: 4/20/2016