



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1158987
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: _____



1158987

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Timothy 1-16
Doc ID	1158987

All Electric Logs Run

Compact Photo Density Compensated Neutron Microresistivity Log
Microresistivity Log
Array Induction Shallow Focused Electric Log
Compensated Sonic with Integrated Transit Time

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Timothy 1-16
Doc ID	1158987

Tops

Name	Top	Datum
Herrington	2510	+460
Winfield	2558	+412
Heebner (base)	3754	-784
Toronto	3769	-799
Lansing	3852	-1062
Marmaton	4269	-1299
Pawnee	4352	-1382
Ft. Scott	4384	-1414
Cherokee	4398	-1428
Morrow	4604	-1634
Mississippi	4675	-1705
St. Louis "C"	4710	-1740
RTD	4850	
LTD	4848	



GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY Berexco LLC
 LEASE Timothy NO. 1-16
 LOCATION 335' FSL + 335' FWL
 SEC. 16 TWP. 22 S RNG. 34 W
 COUNTY Finney STATE Kansas
 FIELD Wildcat

ELEVATIONS
 KB 2970
 DF 2967
 GL 2957
 MEASUREMENTS ARE ALL FROM KB

CASING RECORD
878 at 1788 w/ SX.
 ___ at ___ w/ ___ SX.
 ___ at ___ w/ ___ SX.
 ___ at ___ w/ ___ SX.
 EL. LOG Ind-SP-GR
Den-Next-GR-Caliper
Mk. Sonic

CONTRACTOR Beredco Drlg. Rig. No. 2
 COMM. 7-19-2013 COMP. 8-6-2013
 RTD 4850 LTD 4848
 No. of DST'S Eight No. of CORES None

SAMPLES SAVED FROM 2400 TO TD
 DRILLING TIME KEPT FROM 2400 TO TD
 SAMPLES EXAMINED FROM 2400 TO TD
 GEOLOGICAL SUPERVISION FROM 2400 TO TD
 GEOLOGIST ON WELL Edwin H. Grieves

FORMATION TOPS	SAMPLE	LOG	SUBSEA
<u>Herrington</u>	<u>2488</u>	<u>2510</u>	<u>+ 460</u>
<u>Winfield</u>	<u>2540</u>	<u>2558</u>	<u>+ 412</u>
<u>Base Heebner</u>	<u>3752</u>	<u>3754</u>	<u>- 784</u>
<u>Toronto</u>	<u>3774</u>	<u>3769</u>	<u>- 799</u>
<u>Lansing Fm</u>	<u>3854</u>	<u>3852</u>	<u>- 1062</u>
<u>Maumaton</u>	<u>4277</u>	<u>4269</u>	<u>- 1299</u>
<u>Pawnee</u>	<u>4356</u>	<u>4352</u>	<u>- 1382</u>
<u>Ft Scott</u>	<u>4387</u>	<u>4384</u>	<u>- 1414</u>
<u>Cherokee</u>	<u>4401</u>	<u>4398</u>	<u>- 1428</u>
<u>Morrow Fm</u>	<u>4597</u>	<u>4604</u>	<u>- 1634</u>
<u>Mississippi</u>	<u>4680</u>	<u>4675</u>	<u>- 1705</u>
<u>St Louis "C"</u>	<u>4712</u>	<u>4710</u>	<u>- 1740</u>
<u>TD</u>	<u>4850</u>	<u>4848</u>	<u> </u>

API# 15-055-22230

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 2400 feet to total depth.

Frank J. Grieves
 Ed H. Grieves
 Geologist

LITHOLOGY

SANDSTONE
 LIMESTONE
 SHALE
 CHERT

CHROMATOGRAPHY

HOT WIRE BY
 TOTAL GAS VOLUME

SILTSTONE
 DOLOMITE
 GRANITE MASH
 ANHY & GYP

GAS SCALE

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

DRILL TIME SCALE

5 10 15

10 100 1000

SAMPLE DESCRIPTION

2400-42 Interbedded Anhydrite + Gyp + Shales

Anhy + Gyp gray to wht. cngl. to v. v. fin. x/l + massive sh.; du. yellow. Wht. to whitish. yel. fluor. No cut No. Vis for

Sh. H. gray. silty sh. to d. h. m. ti. IP.

Shales
 ① Anhy + Gyp gray to wht; crystals to v. v. fin. xln; massive xln; dull yellowish wht. to whitish. yel. fluor. No cut No. Vis Por

② Sh. H. gray, silty to dolomitic. PS w/ zbn. orange to brick red sh in samples from above

2442-2488

Shly. Dolo. to Dolo. Shs; H. to med. gyp w/ fcs. Tan; crystals to v. v. fin. xln; sub-sucro & packstn; dul. yel. to yel. fluor. No cut; mostly u. to extly shly gdedng. to dolo. Shs No Vis Por

2488-2717 Intersbedded Dolomites and Shales

① Fasten Dalg. Dolo. H. gray to tan; v. v. fin. xln; sub-sucro. to extly sucro; dul. H. to h. yel. fluor. No cut; zbn. pp; fragd to excel; pp; mikro pp + Inter xln. por

② Slower Dalg. Shly. Dolo. to Dolo. Shs similar 2442-2488; calc. pp

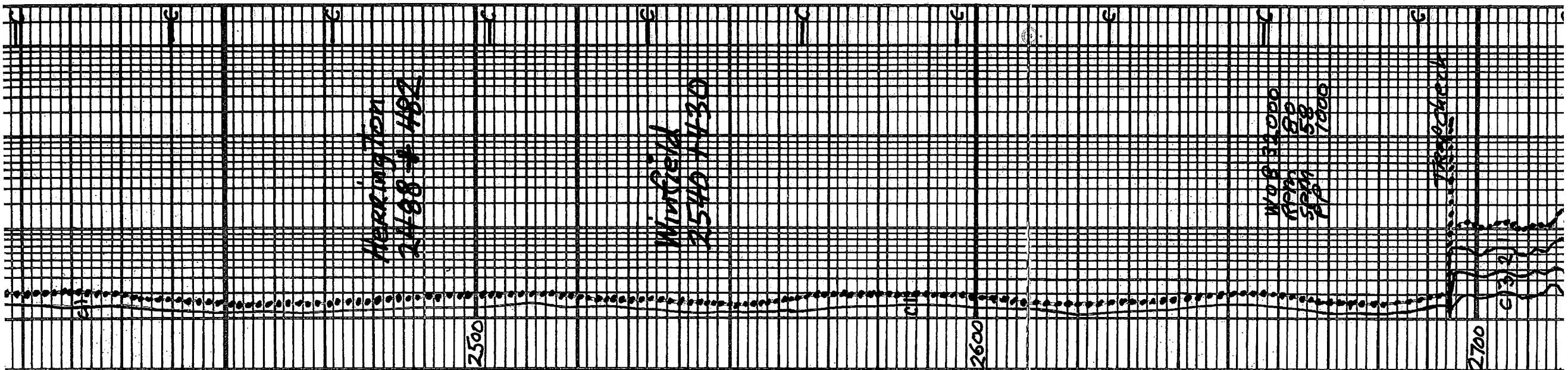
Herrington
 2488-482

Wintfield
 2540-430

WOB 34000
 RPM 88
 SPH 58
 PSI 7000

2550-2600

2700



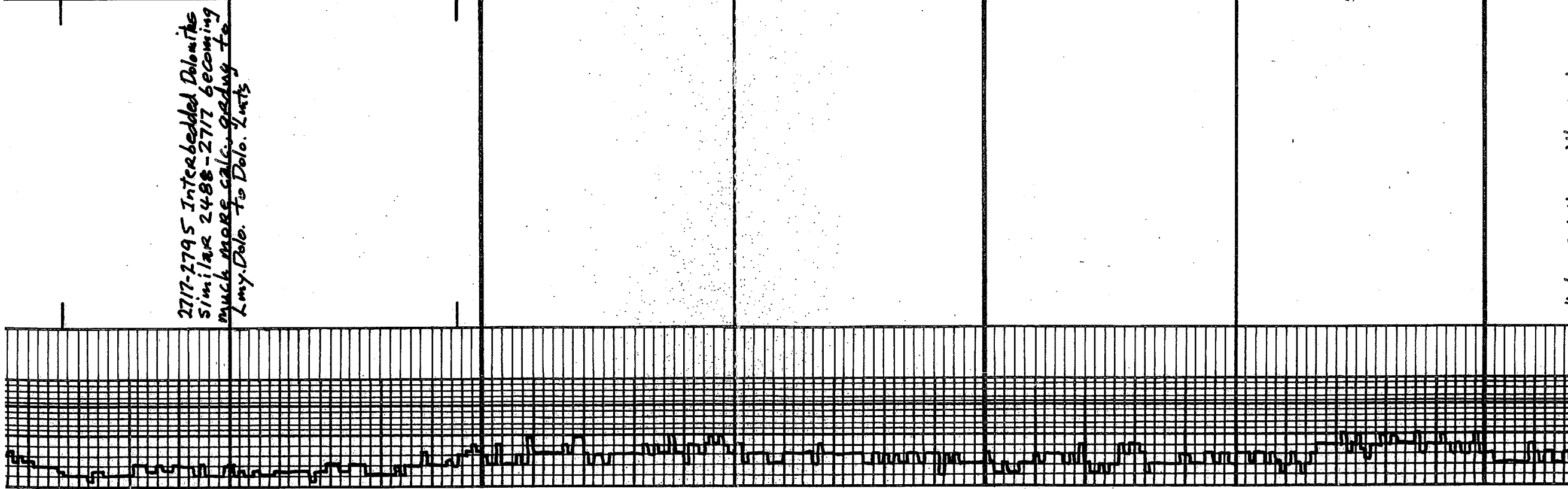
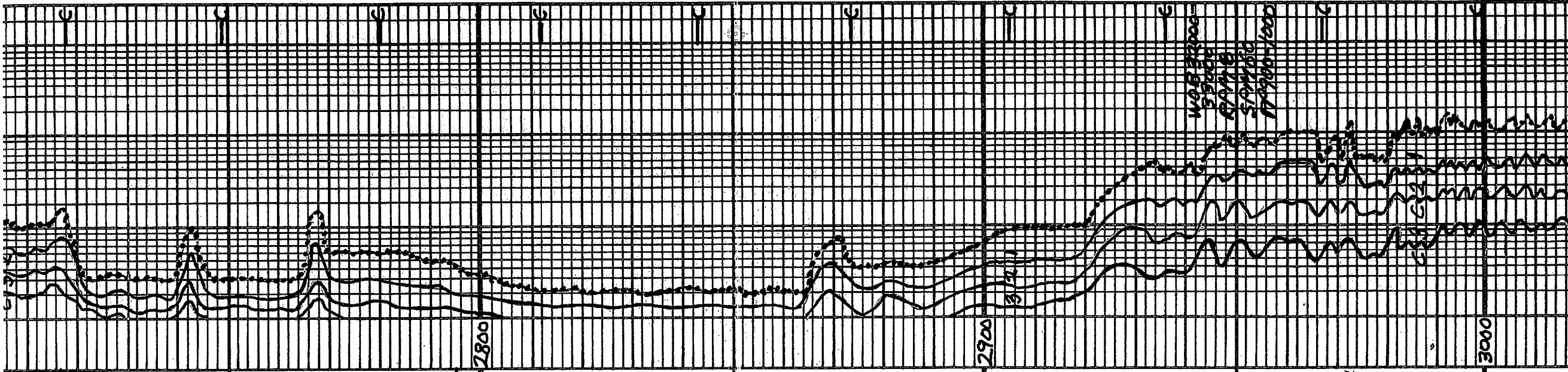
2717-2795 Interbedded Dolomites
similar 2488-2717 becoming
much more calc. grading to
Lmy. Dolo. to Dolo. Lints

2800

2900

3000

W 0.6 3200
S 1.0 3100
R 1.0 3000
S 1.0 2900

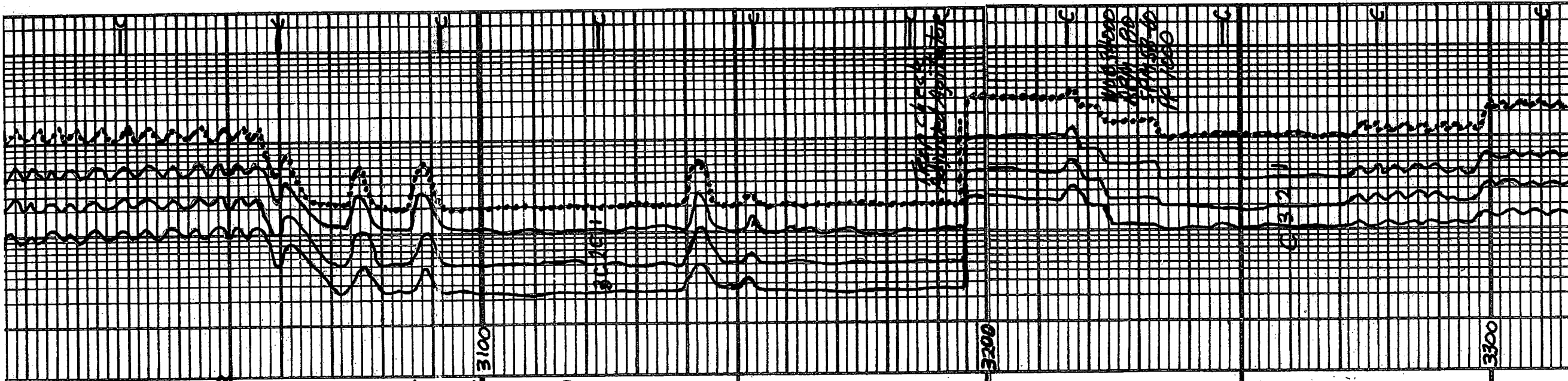


Note Drilling with Water
 SAMPLES ARE EXTREMELY
 Poor
 And
 HOMOGENIZED

2795-3486 Interbedded Amber
 Gradational Dolomites
 Limestones, Shales and Siltstones
 Dol. H. gray to tan, crypto. to
 v. fn. sh. shly for calc IP's
 grading. to Dol. Sh. starting
 Dol. sub-chalk for shly IP's
 to sub-sucro to sucro;
 chul. h. to bot. H. yel. fluor. to
 No Cut; IP's hvy. tes. pe. to fa
 and tes. gd. micro ppt to interxh.
 por.

③ Lms can't tan, grayish, IP's, sh
 to v. dol. Yors. to v. shly IP's
 sucro to v. shly IP's
 sub-chalk; sub-sucro to sucro.
 and packstn; dolitic IP's fams for
 gray; dul. H. to bot. H. yellow
 fluor. No Cut; IP's zones w/
 pr. fa. gd. + siltstns. excel. micro ppt
 to interxh. por.

④ Sh. med. to dk. gray; calc for
 silty IP's
 ⑤ Siltstns. H. to med gray; sh. to
 extely. shly, calc IP's



shly ch
 sub-sucro to sucro

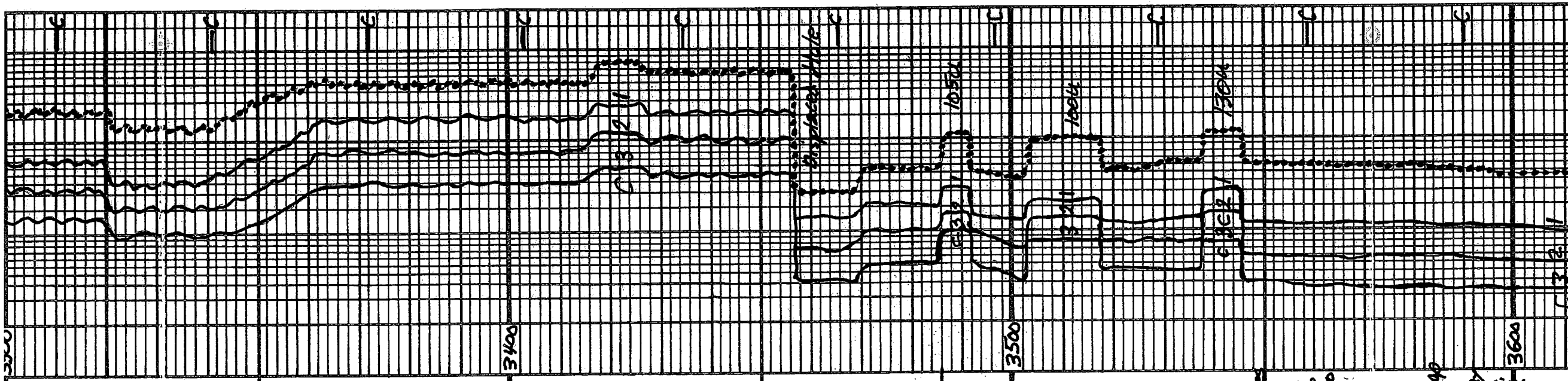
3221

3221

3100

3200

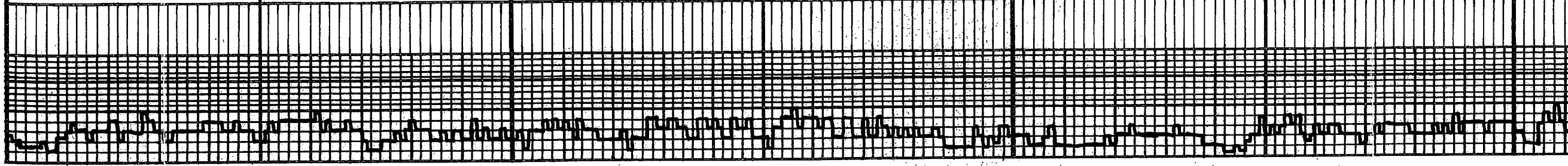
3300



3486 - 3749 Interbedded Limestones

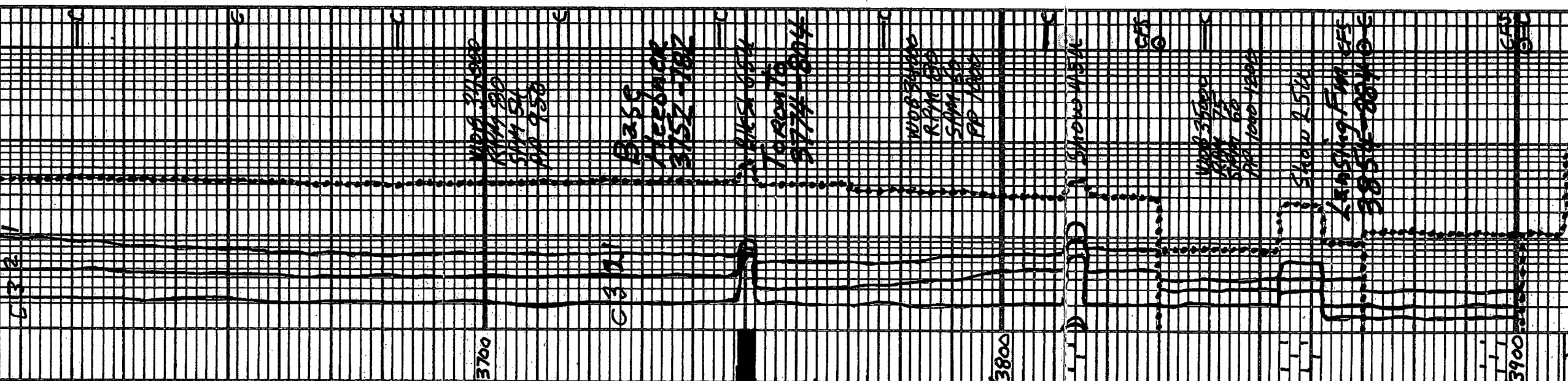
1. Faster Dalg. Lms. trs. to hvy. trs. wht. to crm. chlk + Tan CR ppt. to v.u. fu. xlm; Trs. sub-cl. in sub-sucro to sucro; + Trs. p. oolitic to hvy. trs. phant. oolitic to slt. trs. oolitic. Trs. phant. oolitic. H. to H. + sl. trs. bet. H. yet. fluor. No cut; abn. pr. to fr + trs. gd. microp. to interxln. por.

2. Slower Dalg. Lms. tan to hvy. IP's; CR ppt. to wh. fu. xlm; p. chlk. to sub-lith. trs. sub-sucro. Phant. oolitic IP's; dyl. H. yet. fluor. IP's; No cut; No V's Abr



Phan to m. oolitic l's day. 15 yr.
Fluor. IP's, No cut, No Vis for

C3 B



3700

W09 34500
RPM 500
SFM 500
PP 1000-1200

C3 R

W08 34000
RPM 500
SFM 500
PP 1000-1200

3749-3752
Sh. v. dk. gray to black - carb
3752-56 Lms. tan, grayish IP's, crypto
to v. in. in. tan, sub-succo. patches to the
sub-lithog. d. w. l. to h. yel. diam
No cut, No Vis for
3756-74 Sh. H. to med. gray, greenish IP's

W07 34000
RPM 500
SFM 500
PP 1000-1200

W06 34000
RPM 500
SFM 500
PP 1000-1200

3774-3805 Lms. v. abn. whit to can. chlk
+ CRM. to tan, crypto to v. in. x. l. m.
Sub-ch. l. k. sub-succo. to succo. and
Sl. traspach. st. H. to bot. H. yel. fluor.
No cut, 2 bu. PA to fact. tag. d. micro IP's
+ In. Feas. Pn. por
3805-3812 Lms. H. to med. gray, sl. to v. sh. l.
grading to calc. Sh. crypto. to v. in. x. l. m.
v. sh. l. sub-succo. to succo. and
yel. fluor. IP's; No Vis for

W05 34000
RPM 500
SFM 500
PP 1000-1200

W04 34000
RPM 500
SFM 500
PP 1000-1200

3800

W03 34000
RPM 500
SFM 500
PP 1000-1200

Show 3812-16 Lms. tan, w. v. 26. dan
oil stn. crypto. to v. in. x. l. m.
oolitic to red. oolitic, in. atr. r.
sub-succo. to succo. and
o. d. p. y. / succo. o. d. e. g. i. t. o. d. n.
yel. fluor. in. o. d. e. g. i. t. o. d. n.
stem. c. y. s. 2. 6. n. act. tag. h. o. r. t. s.
gd. to x. cal. p. d. m. i. c. r. o. IP's to in. f. e. n. l. y.
por. in. m. a. t. r. i. x. ; pos. U. g. P. o. r. 1. 2.
3816-54 Interbedded limest. + Sh. s
① Lms. sim. l. w. 3805-3812
② Sh. med. tan. gray - sl. to v. calc IP's

W02 34000
RPM 500
SFM 500
PP 1000-1200

W01 34000
RPM 500
SFM 500
PP 1000-1200

3900

W00 34000
RPM 500
SFM 500
PP 1000-1200

Show 3854-62 Lms. hv. tan, white
sam. ch. l. y. tan, crypto. to v. in. x. l. m.
tan, sub-ch. l. k. sub-succo. to succo. and
Pach. st. h. tan. oolitic IP's; tan. o. b. t.
med. to coarse calc. x. l. s. + Feas. Pn. por.
sp. l. h. in. oil stn. w. d. y. e. l. m. o. d. e. l. e. d.
yel. + gl. in. yel. fluor. ; th. s. to. d. s. t. o. m. a. s.
C. y. l. 2. 6. n. p. e. t. o. l. i. t. e. s. g. a. p. o. s. i. t. i. v.
exc. l. p. m. i. c. r. o. g. o. s. t. r. e. p. o. r.
+ prob. U. g. P. o. r.

W00 34000
RPM 500
SFM 500
PP 1000-1200

W00 34000
RPM 500
SFM 500
PP 1000-1200

3862-93 Interbedded Sh. s. l. m. s.
Sim. l. w. 3816-3854
Show 3893-98 Lms. hv. tan, white to can.
ch. l. k. + tan, crypto. to v. in. x. l. m.
Sub-ch. l. k. sub-succo. to succo. and
oolitic to tan. h. in. tan. oolitic
sub-fine. o. d. e. g. i. t. o. d. n. s. c. a. t. t. e. r. e. d. a. t. e. s.
s. p. t. d. h. 2. 6. n. o. i. l. s. t. n. w. y. e. l. l. o. w. e.
gl. in. yel. fluor. ; w. / fact. to the stem. s.
C. y. l. 2. 6. n. p. e. t. o. l. i. t. e. s. g. a. p. o. s. i. t. i. v.
+ prob. U. g. P. o. r. + pos. inter. in. por.

W00 34000
RPM 500
SFM 500
PP 1000-1200

W00 34000
RPM 500
SFM 500
PP 1000-1200

Show 3901-20 Lms. hv. tan, white to can.
ch. l. k. + tan, crypto. to v. in. x. l. m.
Sub-ch. l. k. sub-succo. to succo. and
oolitic to tan. h. in. tan. oolitic
sub-fine. o. d. e. g. i. t. o. d. n. s. c. a. t. t. e. r. e. d. a. t. e. s.
s. p. t. d. h. 2. 6. n. o. i. l. s. t. n. w. y. e. l. l. o. w. e.
gl. in. yel. fluor. ; w. / fact. to the stem. s.
C. y. l. 2. 6. n. p. e. t. o. l. i. t. e. s. g. a. p. o. s. i. t. i. v.
+ prob. U. g. P. o. r. + pos. inter. in. por.

W00 34000
RPM 500
SFM 500
PP 1000-1200

W00 34000
RPM 500
SFM 500
PP 1000-1200

DST # 1

DST # 2

Reason: 70% ...
 4260-4277 Sh. med. to dk. gray. s. tes
 v. dk. gray. sl. to fl. calc. IP's
 4277-4287 Lms. H. gray to tan, crypto. to
 v. v. xlm; phantoms oolitic to tes
 oolitic; matrix. sl. tes. ch. l. tes
 sub-ch. l. sub-succo. + pach. stn.
 sub. ch. l. No cut; No Vis Por
 Show 4287-4296 Lms. tan, crypto
 to v. f. xlm; v. to ext. oolitic
 for sl. to fl. oolitic; matrix
 ch. l. stn. appens. Imper. tan
 sub-succo. to v. succo. w/pt. to even
 brn. oil stn. to ext. to ext. to ext.
 H. v. w/ flush to excel. stream
 cut; 2 bn. p. f. top. 4-4 pytes
 excel. microp. to inter. xlm
 v. few sm. to 3 sample pieces
 almost v. sub. to p. p. 572C
 4296-4328 Interbedded limest. +
 Lms. 5 mi. tan. 4277-87
 ① Shs. med. to v. dk. gray; calc. IP's
 Show 4328-4332 Lms. tan. from
 even. ban. oil stn. v. xlm; phant
 oolitic IP's; sl. tes. foss. deep m.
 sub-succo. to v. succo. of oil ool.
 old m. to even. xlm. v. fl. in ore
 w/ flush to excel. stream cuts
 2 bn. p. f. top. + 4 pytes to sl. tes
 excel. microp. + inter. xlm.
 4332-4354 Interbedded and/or

Maennan
 4277-4307

DST#4

DST#5

DST#6

Gradational Lmstn
 ① Lms. tan. sl. to v. gray. sl. IP's;
 crypto. to v. w. xlm; sub-ch. l.
 sub-succo. + pach. stn. + sub-lithog.
 and. yel. Fluor. No cut; No Vis Por
 ② Lms. H. to med. gray. sl. to v. tanish
 IP's; sl. to v. sl. crypto. to v. tanish
 xlm; sub-ch. l. for sub. succo.
 and pach. stn.; No Fluor.; No cut
 No Vis Por
 4354-56 Sh. v. dk. gray to blk. carb
 4356-60 Sh. med. to v. dk. gray-calc. lls
 Show 4360-4368 Lms. tan w/pt
 to even. ban. oil stn.; crypto. to v. tanish
 v. v. f. xlm; phantoms oolitic to oolitic
 - pach. stn.; matrix sub-succo. to
 v. succo.; tes. v. sl. oolitic; sl. v.
 to ool. oil ool. mott. l. yel.
 to gl. yel. Fluor. w/ flush top.
 stream. excel. 2 bn. p. f. top. +
 4 pytes. excel. pp. w/ no opp. +
 inter. xlm. p. f.
 4368-85 Lms. H. gray to tan, crypto. to v. tanish
 xlm; tes. sub-ch. l. sub-succo. to a ch. l.
 phantoms oolitic; IP's; dk. yel. Fluor.
 No cut; No Vis Por
 4385-87 Sh. v. dk. gray to blk. carb
 Show 4387-98 Lms. tan, grayish
 to ban. crypto. to v. tanish;
 sub-ch. l. sub-succo. to tes. succo.
 + pach. stn.; ban. - pach. stn.
 sub-lithog.; phantoms oolitic IP's
 w/ pt. to even. dk. ban. oil stn.
 4 pytes; oil ool. gl. yel. Fluor.
 w/ flush to excel. stream cuts
 seal. excel. p. f. top. 4-4 pytes microp.
 + inter. xlm. p. f. top. 4-4 pytes
 4398-4401 Sh. v. dk. gray to blk. carb
 Show 4401-4410 Lms. H. gray to
 tan, crypto. to v. f. xlm; xlm;
 phantoms oolitic to oolitic
 matrix; tes. ch. l. tes. sub-ch. l.
 sub-succo. to v. succo. and
 pach. stn.; oil ool. to v. succo. and
 w/ pt. to even. dk. ban. oil stn.
 w/ flush to ext. stream cuts
 w/ tes. p. f. top. 4-4 pytes
 4400-4410 Interbedded lms + shs

① Lms. tes. white to can. - ch. l. + H. gray
 to tan, crypto. to v. f. xlm. j. a b n
 phantoms oolitic to a b n. oolitic
 tes. sub-ch. l. sub-succo. pach. stn. and
 tes. sub-lithog. id. ul. H. yel. Fluor.
 No cut; No Vis Por
 ② Lms. med. to dk. gray - sl. to ext. fl.
 shly. grading to can. sl. crypto
 xlm; sub-ch. l. for sl. + pach. stn.
 No Fluor.; No cut; No Vis Por.
 ③ Shs. med. to v. dk. gray - sl. to
 v. calc. IP's. tan. dk. gray to blk.
 carb

4410-4517 Interbedded lms + shs
 ① Lms. tes. white to can. - ch. l. + H. gray
 to tan, crypto. to v. f. xlm. j. a b n
 phantoms oolitic to a b n. oolitic
 tes. sub-ch. l. sub-succo. pach. stn. and
 tes. sub-lithog. id. ul. H. yel. Fluor.
 No cut; No Vis Por
 ② Lms. med. to dk. gray - sl. to ext. fl.
 shly. grading to can. sl. crypto
 xlm; sub-ch. l. for sl. + pach. stn.
 No Fluor.; No cut; No Vis Por.
 ③ Shs. med. to v. dk. gray - sl. to
 v. calc. IP's. tan. dk. gray to blk.
 carb



Interebedded Lms + Shs similar
 4410-4527 w/ scattered thin lms
 gr. totan. w/ spots to ore. Lk. loc.
 oil stn. sub. sucro totan. sucro +
 pack. m. silic. oidek. yel. fluor. w/
 flush to gd. Stems cut w/ yel. fl.
 totan. microp. pp. + Interx. m. por. lps
 & west. p. k.

4553-4597
 Interebedded Limestones + Shales
 similar 4410-4527

Sh. v. dark gray to black - 6386

H600-4650 Shs. med to dk. gray.
 w/ a bn. lg. gryst greens and
 trs. reds + ye. lugs w/ loss
 scattered thin interbeds
 Lms. lt. gray to tan, crys. to totan. with
 trs. sub. sucro totan. pack. sil. id. l.
 yel. fluor. lps. No cut. No lps. For
 H650-4670 Claystone
 cream, lt. gray to lt. greens
 very soft + mushy
 Show 4670-4676
 gr. sst. dk. tan from oil stn.
 v. v. f. totan. gr. sst. sub. ang.

Subsand. to red. p. to sort
 has only of clusters
 a bn. w/ clay filling. d. w. g. d. y.
 tog. d. n. yel. fluor. w/ flush to gd
 stemming cuts. faint oil orders
 sil. trs. are microp. pp. in
 some lost clusters, extra
 fire able extra. a bn. base lps. lps
 show 4676-80 Lms. can to gray
 crys. to totan. w/ interbed. micro. oolitic
 oolitic. to v. fine. lps. extra in lps.
 20. g. material. Qtz. sst. with gr.
 sub. sucro. w/ weathered looking
 h. yel. trs. sil. to v. fine. beng. lps.
 cuts. No lps. For
 4680-4702 Interebed. Y. to transitional
 Lms + Shs

① Lms. trs. wht. to cream. ch. l. m. gray totan
 crys. to totan. w/ interbed. micro. oolitic
 + sub. sucro totan. w/ even to gd. lps. in lps.
 20. g. sub. sucro totan. d. w. g. d. y.
 ② Lms. trs. can. to tan. ch. l. m. gray totan
 lps. v. to extra. oolitic. to m. e.
 m. z. ch. l. m. lps. sub. sucro
 ③ Trs. chert. gray totan. sil. trs. orange
 oolitic. to gray totan. sil. trs. orange
 4702-4712 Lms. similar
 4760-4702 Description 143
 Show 4712-4719 Lms. trs. wht. to cream
 ch. l. m. gray totan. w/ even to gd. lps. in lps.
 sil. trs. extremely oolitic. to m. e. lps. in lps.
 mainly as sub. sucro totan. lps. in lps.
 to most. trs. micro. oolitic. to m. e. lps. in lps.
 40. g. yel. fluor. w/ flush to gd. lps. in lps.
 Lms. in clusters. a bn. base lps. to gd.
 + trs. Excel. microp. pp. totan. v. l.
 por. v. few clusters. a bn. base
 oolitic. clusters. to m. e. lps. in lps.
 Trs. chert. gray totan. sil. trs. orange.
 4719-37 Lms. similar to 4680-4702.

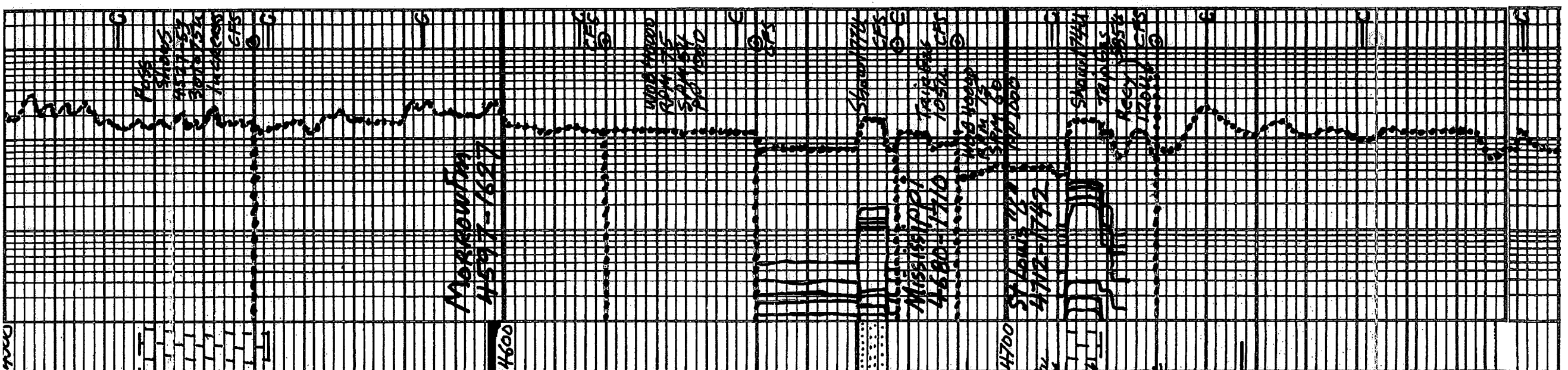
Decalc. totan. sst. + 3 w/ a bn. lms. gray totan
 tan to gray. crys. to totan. pack. sil. id. l.
 sub. lps. oolitic. d. w. g. d. y. lps. in lps.
 No cut. 20. g. lps. Por.
 Show 4787-4747 Lms. lps. wht. to cream
 ch. l. m. gray totan. w/ even to gd. lps. in lps.
 (sil. to med.) in a tr. sub. sucro totan. lps.
 + trs. sucro. sst. to red. trs. sst. to oil stn.
 sil. trs. w/ yel. fluor. lps. in lps. in lps.
 sil. trs. w/ yel. fluor. lps. in lps. in lps.

Trs. poor micro. pp. or w/ trs. chert
 gray totan. sil. trs. orange, oolitic. to m. e. lps.
 4747-4781 Lms. tan to gray. sil. tan. crys. to totan.

DST #7



DST #8



MORROWING
 4553-4597

MISSISSIPPI
 4680-4710

ST. LOUIS
 4712-4747

ST. LOUIS
 4747-4781

4410-4527
 4553-4597
 4600-4650
 4650-4670
 4680-4702
 4702-4712
 4712-4747
 4747-4781

4600-4650
 4650-4670
 4680-4702
 4702-4712
 4712-4747
 4747-4781

4680-4710
 4702-4712
 4712-4747
 4747-4781

4712-4747
 4747-4781

res. poor micro por w/tes chert
gray, to tan, sil. has orange opp. to tan
4747-4781 Lms. tan to gray sh. tan clay to
uv. tan sil. mostly oo. sil. (5 in. to med)
max. thick. chalk sub. calc. sub. oo. of
pale str. abn. have no oolites
Sug. succid. precip. res. w/tes. com
chaly. dm. Hydr. fluor. Abund. Abund. Abund.
w/tes. chert gray to tan & sil. has orange
op. to tan sil.
4781-4790 Lms. similar 4747-4781
becoming extremely chalky
4790-4856 Lms. tan to brown w/tes. gray
cryst. to uv. tan sil. res. chalky sub. calc.
tes. sub. succid. precip. & sub. th. opp.
26 in. light to heavy dolomite; u. du. y. fossils
Abund. Hydr. fluor. Abund. Abund. Abund.
res. chert milky w/tes to gray tan; opp. to
to very tan sil.

TD 4850

7 7/8 inch Bit Info:
#1 New Smith F17 Y cone button bit
in 1788 out 4850 TD

Dev. SURV:
1 851 10 4 3830 1°
2 2565 10 5 4300 1°
3 2780 3/4 6 4850 3/4° TD

CIR. Points
1. 3830 8. 4133 15. 4650
2. 3870 9. 4300 16. 4678
3. 3901 10. 4334 17. 4690
4. 3917 11. 4365 18. 4730
5. 4000 12. 4410 19. 4850 TD
6. 4010 13. 4550
7. 4035 14. 4620

Daily Drilg. Progress:

1. 2400 8:52 AM 7-23-13
2. 2660 7:00 AM 7-24-13
3. 3154 7:00 AM 7-25-13
4. 3663 7:00 AM 7-26-13
5. 3830 7:00 AM 7-27-13
6. 3917 7:00 AM 7-29-13
7. 4035 7:00 AM 7-30-13
8. 4133 7:00 AM 7-30-13
9. 4300 7:00 AM 7-31-13
10. 4334 7:00 AM 8-1-13
11. 4385 7:00 AM 8-2-13
12. 4602 7:00 AM 8-3-13
13. 4690 7:00 AM 8-4-13
14. 4730 7:00 AM 8-5-13
15. 4850 7:17 AM 8-5-13
16. 4850 7:00 AM 8-6-13

DST #1 Toronto 3810-3830
10 Weak surf. Blow built to 5 in.
FOW weak surf. Blow built to 4 1/2 in.
Rec: 325 ft surf. fluid 40 B/mud 40 B
PH 7 Rv. 27 @ 80°F Chl 2000
PIT Chl 4000 Max Temp 104°F
Tool Sample 320.1, 602 w/tes, 378 Mud

IHP 1816
IFP 8 to 58# in 30 min
FSIP 847# in 60 min
FFP 60 to 145# in 60 min
FSIP 523# in 60 min
FHP 1802# in 120 min

DST #2 Lansing "D" 3903-3917
10 Weak surf. Blow to 5 1/2 in. 30 min
FOW weak surf. Blow to 3 1/2 in. 60 min
Rec: 374 ft 5 LCM 87% surf. fluid
13% Mud

PH. 9 Rv. 3 @ 80°F Max Temp 104°F
Chl 1800 ppm PIT Chl 6000 ppm
Tool Sample 719 W-392 mud in 5 sec. Dr. 1

IHP 1833 #
IFP 740 65# in 30 min
FSIP 557# in 60 min
FFP 66 to 165# in 60 min
FSIP 552# in 120 min
FHP 1824 #

DST #3 Lansing "B" 3990-4035
10 WSB built to 3 1/2 in 30 min
FOW No Blow then built to 2 1/4 in 60 min
Rec 2 ft Clean oil Surv 34° @ 60°F
206 ft Total fluid
PH 10 Rv. 38 @ 80°F Chl 18000 ppm
PIT Chl 4500 ppm

Tool Sample 620-312 W-632 M
IHP 1877 #
IFP 8-47# in 30 min

FHP 15-19 # 14 30 min
 FSP 227 # 14 90 min
 FHP 2245 #

Mud Info:

Date	7-23 05P	7-25 3:5P	7-26 1:30P	7-27 2:00P	7-28 1:45P	7-29 1:55A	7-30 1:40P	7-31 1:40P
Depth	2153	3329	3800	3891	3917	4035	4250	4300
WT.	8.9	9.4	9.2	9.2	9.2	9.0	9.5	9.0
Vis	28	34	44	50	51	55	49	61
PV	1	8	12	14	14	14	15	21
YP	2	10	16	18	17	18	15	23
GS	1/2	10/30	14/38	12/42	13/38	14/40	14/46	14/57
N/L	N/C	N/C	8.0	8.0	6.4	6.4	8.8	9.2
Cake	—	—	1/32	1/32	1/32	1/32	1/32	1/32
PH	7.0	7.0	10.5	8.5	10.0	11.0	10.5	10.5
Chl	63400	14500	4000	6000	5000	4500	3200	2300
Ca	Hvy	Hvy	40	80	40	40	20	20
LCM	0	2	4	2	3	3	2	1

Date	8-1 1:30P	8-2 3:0P	8-3 1:45P	8-4 1:35P	8-5 1:30P
Depth	4334	4440	4678	4776	4770
WT.	9.1	9.0	9.2	9.3	9.2
Vis	61	61	55	57	49
PV	18	20	17	18	15
YP	20	20	21	19	16
GS	10/57	19/58	20/61	18/62	15/44
WT	9.2	9.6	9.2	8.4	8.8
Cake	1/32	1/32	1/32	1/32	1/32
PH	10.5	9.5	9.5	9.0	9.5
Chl	2400	3100	3400	3300	3200
Ca	20	20	20	60	20
LCM	4	4	2	4	4

OPERATOR Berexco LLC
 LEASE Timothy
 ELEVATION 2970 RD 4850

LOCATION 335' FSL + 335' FNL
 SEC. 16 TWP. 22S RNO. 34W
 COUNTY Finney STATE KANSAS

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 19, 2013

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

Re: ACO1
API 15-055-22230-00-00
Timothy 1-16
SW/4 Sec.16-22S-34W
Finney County, Kansas

Dear Production Department:

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

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

Respectfully,
Evan Mayhew



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: timothy1-16dst1

TIME ON: 00:50
TIME OFF: 10:27

Company Berexco LLC Lease & Well No. Timothy #1-16
Contractor Beredco Rig #2 Charge to Berexco LLC
Elevation 2970 KB Formation Toronto Effective Pay -- Ft. Ticket No. S0363
Date 7-27-13 Sec. 16 Twp. 22 S Range 34 W County Finn State KANSAS
Test Approved By Ed Greives Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3810 ft. to 3830 ft. Total Depth 3830 ft.

Packer Depth 3805 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 3810 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3791 ft. Recorder Number 8471 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 3814 ft. Recorder Number 5965 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 525 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 8.0 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in

Chlorides 4,000 P.P.M. Drill Pipe Length 4469 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 3 Test Tool Length 34 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WSB- Built to 5" in 30 min NOBB

2nd Open: WSB- Built to 4 1/4" in 60 min NOBB

Recovered 325 ft. of HWCM 40% W 60% M

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Water had sulfur smell

Tool Sample: 3% O 60%W 37% M

Time Set Packer(s) 3:34 AM ^{A.M.}/_{P.M.} Time Started Off Bottom 8:04 AM ^{A.M.}/_{P.M.} Maximum Temperature 104

Initial Hydrostatic Pressure..... (A) 1816 P.S.I.

Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 58 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 847 P.S.I.

Final Flow Period..... Minutes 60 (E) 60 P.S.I. to (F) 145 P.S.I.

Final Closed In Period..... Minutes 120 (G) 523 P.S.I.

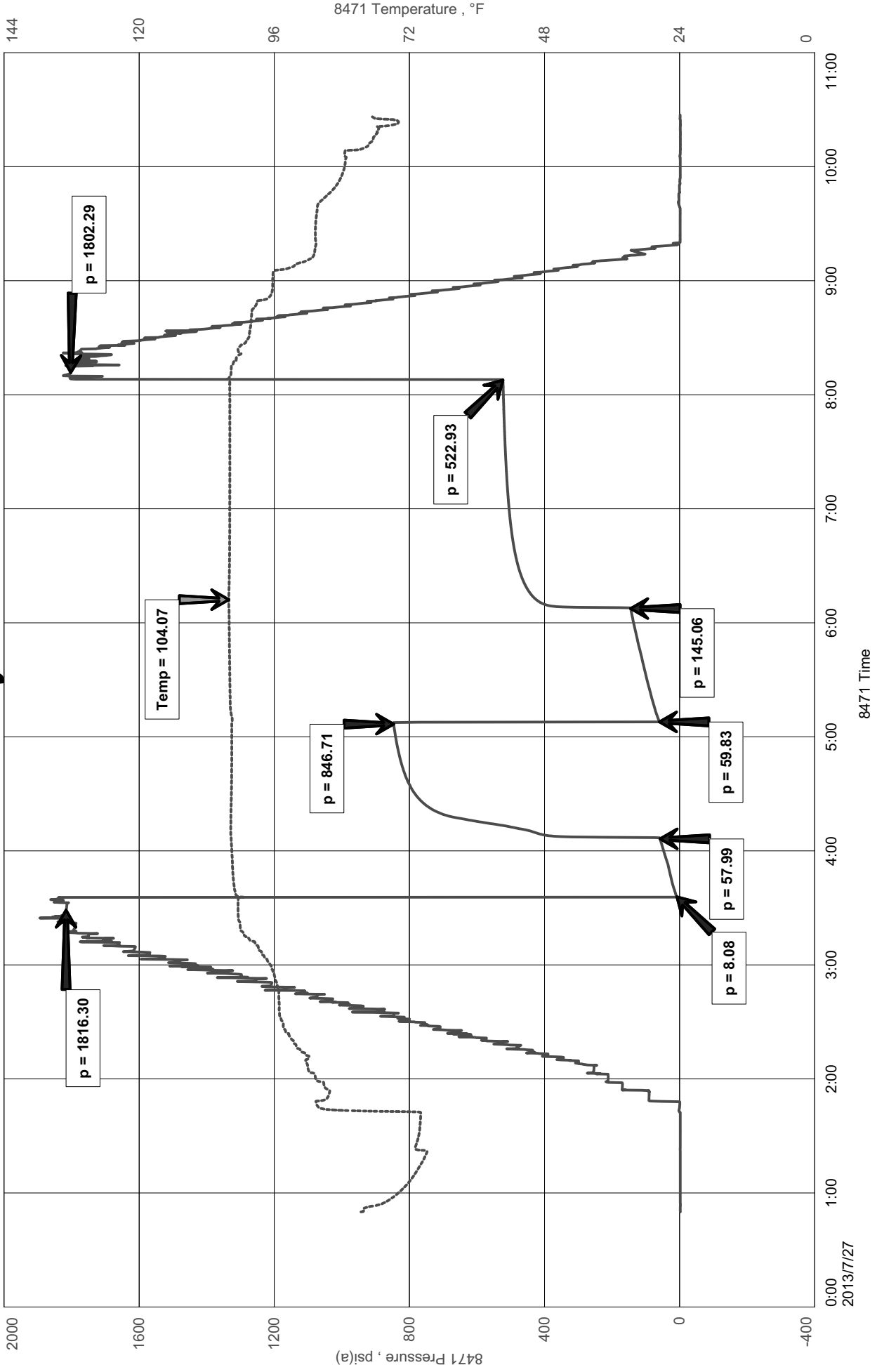
Final Hydrostatic Pressure..... (H) 1802 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Berexco LLC
DST #1 Toronto 3810-3830'
Start Test Date: 2013/07/27
Final Test Date: 2013/07/27

Timothy #1-16
Formation: DST #1 Toronto 3810-3830'
Pool: Wildcat
Job Number: S0363

Timothy #1-16



Diamond Testing

General information Report

General Information

Company Name Berexco LLC

Contact	Greg Claus	Job Number	S0363
Well Name	Timothy #1-16	Representative	Jacob McCallie
Unique Well ID	DST #1 Toronto 3810-3830'	Well Operator	Berexco LLC
Surface Location	SEC 16-22S-34W Finny County	Report Date	2013/07/27
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #1 Toronto 3810-3830'		
Well Fluid Type	06 Water	Start Test Time	00:50:00
		Final Test Time	10:27:00
Start Test Date	2013/07/27		
Final Test Date	2013/07/27		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:
325' HWCM 40% W 60% M

PH: 7
RW: .27 @ 80 degrees F
Chlorides: 20,000

Water had sulfur smell
TOOL SAMPLE:
3% O 60% W 37% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

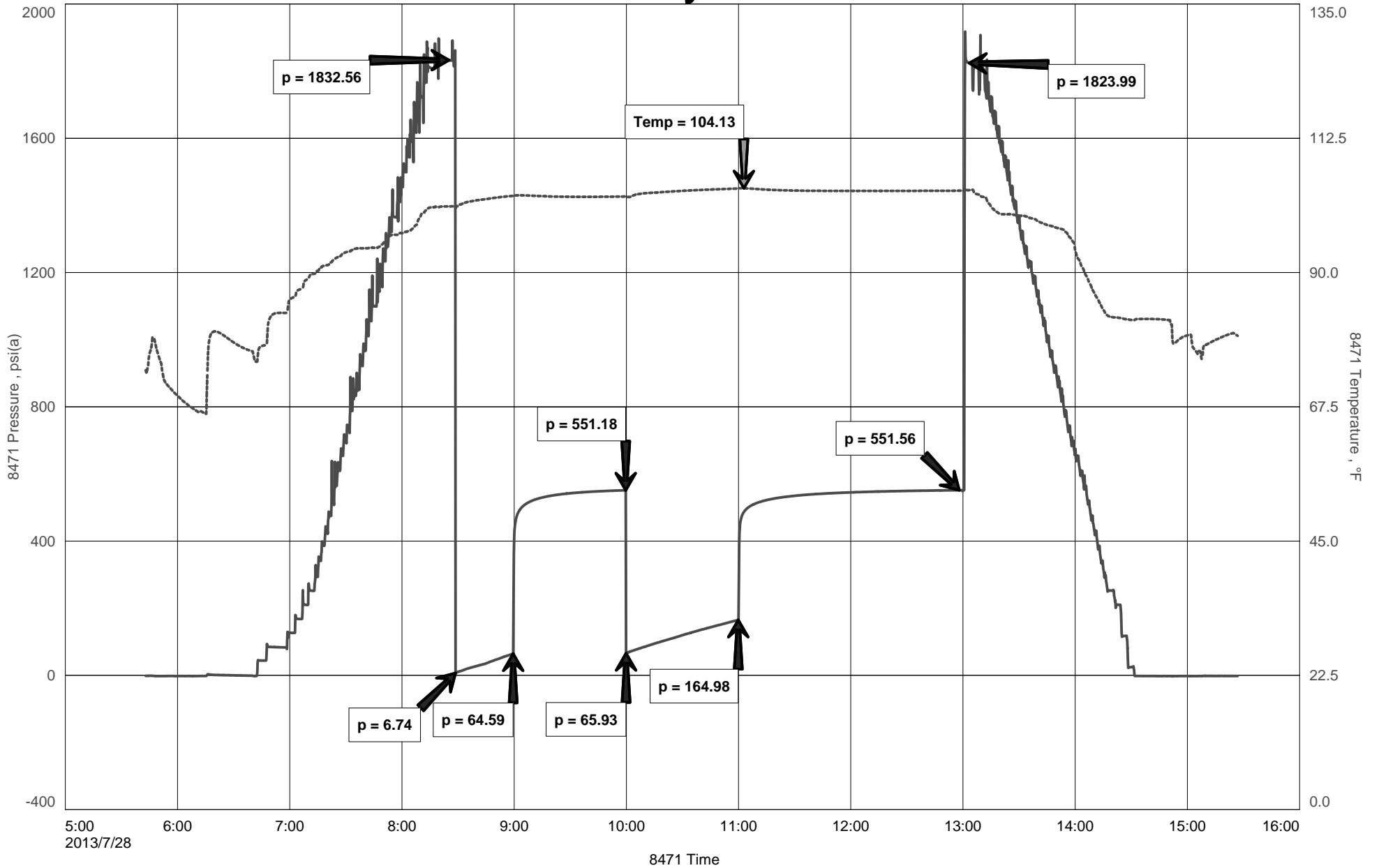
Blow: 1st Open: _____
2nd Open: _____

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

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

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Timothy #1-16



Diamond Testing

General information Report

General Information

Company Name Berexco LLC

Contact	Greg Claus	Job Number	S0364
Well Name	Timothy #1-16	Representative	Jacob McCallie
Unique Well ID	DST #2 Lans. D 3903-3917'	Well Operator	Berexco LLC
Surface Location	SEC 16-22S-34W Finny County	Report Date	2013/07/28
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	05:43:00
Formation	DST #2 Lans. D 3903-3917'	Final Test Time	15:27:00
Well Fluid Type	06 Water		
Start Test Date	2013/07/28		
Final Test Date	2013/07/28		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:
374' SLMCW 87% W 13% M

PH: 9
RW: .3 @ 80 degrees F
Chlorides: 18,000 ppm

TOOL SAMPLE:
71% W 29% M (scum of oil)



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: timothy1-16dst3

TIME ON: 11:53
 TIME OFF: 22:17

Company Berexco LLC Lease & Well No. Timothy #1-16
 Contractor Beredco Rig #2 Charge to Berexco LLC
 Elevation 2970 KB Formation _____ Lans. G-H Effective Pay _____ -- Ft. Ticket No. S0365
 Date 7-29-13 Sec. 16 Twp. 22 S Range 34 W County Funny State KANSAS
 Test Approved By Ed Greives Diamond Representative Jacob McCallie

Formation Test No. 3 Interval Tested from 3990 ft. to 4035 ft. Total Depth 4035 ft.
 Packer Depth 3985 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3990 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3971 ft. Recorder Number 8471 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 4025 ft. Recorder Number 5965 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 525 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 6.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 4,500 P.P.M. Drill Pipe Length 3431 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 3 Test Tool Length 34 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 45 (14p) ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB- Built to 3 1/2" in 30 min NOBB
 2nd Open: No Blow- Built to 2 1/4" in 60 min NOBB

Recovered 2 ft. of CO 100% O Gravity: 34 @ 60 degrees F
 Recovered 206 ft. of OSWCM 2% O 25% W 73% M
 Recovered 208 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>PH: 10</u>	Other Charges
Recovered _____ ft. of <u>RW: .38 @ 80 degrees F</u>	Insurance
Remarks: <u>CHLORIDES: 18,000 ppm</u>	
<u>Tool Sample: 6% O 31% W 63% M</u>	Total

Time Set Packer(s) 2:23 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 6:53 PM ^{A.M.}/_{P.M.} Maximum Temperature 106

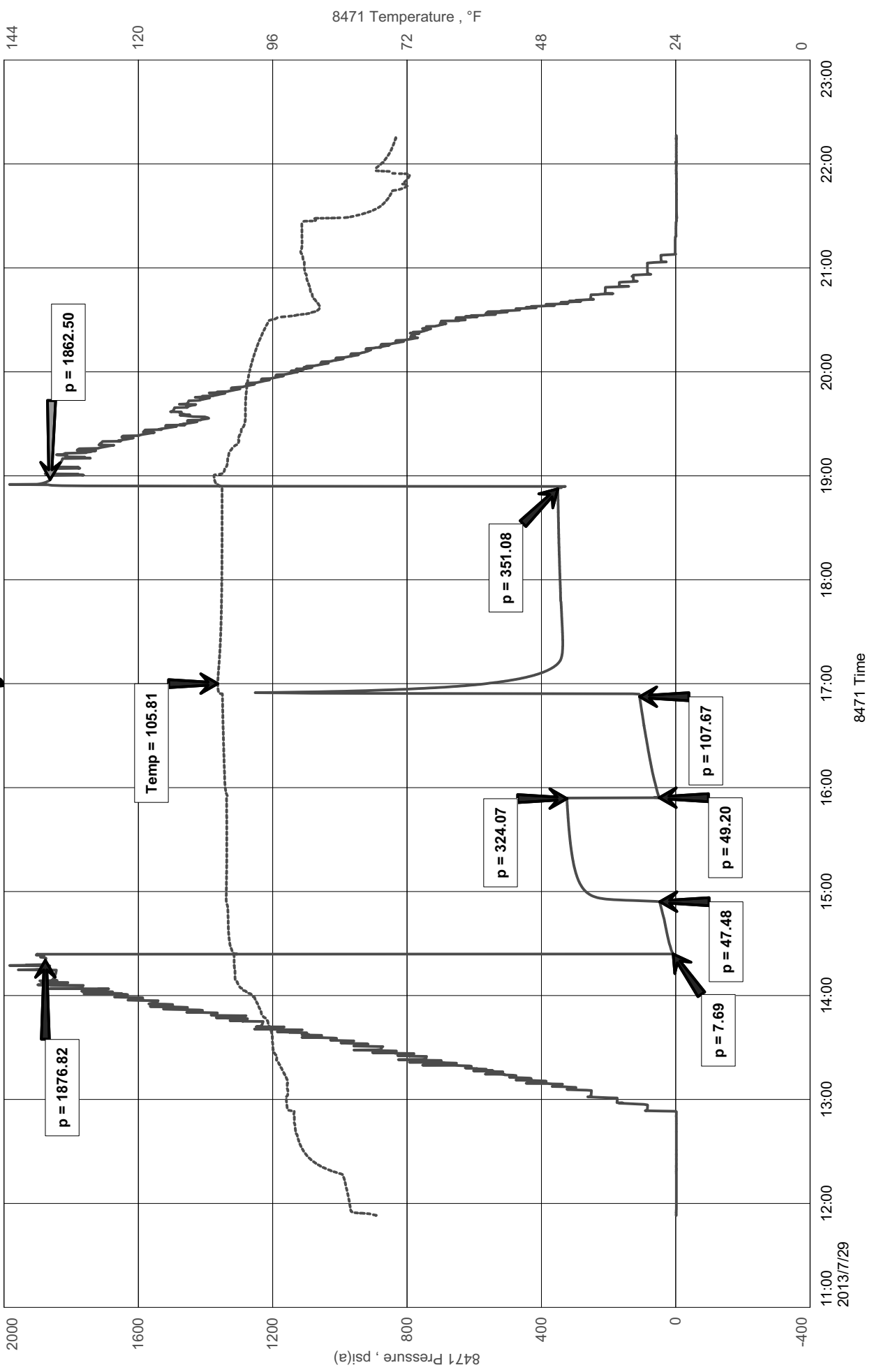
Initial Hydrostatic Pressure..... (A) 1877 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 47 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 324 P.S.I.
 Final Flow Period..... Minutes 60 (E) 49 P.S.I. to (F) 108 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 351 P.S.I.
 Final Hydrostatic Pressure..... (H) 1863 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Berexco LLC
DST #3 Lan. "G-H" 3990-4035'
Start Test Date: 2013/07/29
Final Test Date: 2013/07/29

Timothy #1-16
Formation: DST #3 Lan. "G-H" 3990-4035'
Pool: Wildcat
Job Number: S0365

Timothy #1-16



Diamond Testing

General information Report

General Information

Company Name Berexco LLC

Contact	Greg Claus	Job Number	S0365
Well Name	Timothy #1-16	Representative	Jacob McCallie
Unique Well ID	DST #3 Lan. "G-H" 3990-4035'	Well Operator	Berexco LLC
Surface Location	SEC 16-22S-34W Finny County	Report Date	2013/07/29
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #3 Lan. "G-H" 3990-4035'		
Well Fluid Type	06 Water	Start Test Time	11:53:00
		Final Test Time	22:17:00
Start Test Date	2013/07/29		
Final Test Date	2013/07/29		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:

2'	CO	100% O	GRAVITY: 34 @ 60 degrees F
206'	OSWCM	2% O 25% W 73% M	
208'	TOTAL FLUID		

PH: 10

RW: .38 @ 80 degrees F

Chlorides: 18,000 ppm

TOOL SAMPLE:

6% O 31% W 63% M



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: timothy1-16dst4

TIME ON: 01:00
 TIME OFF: 10:35

Company Berexco LLC Lease & Well No. Timothy #1-16
 Contractor Beredco Rig #2 Charge to Berexco LLC
 Elevation 2970 KB Formation Marmaton 'B' Effective Pay -- Ft. Ticket No. S0366
 Date 7-31-13 Sec. 16 Twp. 22 S Range 34 W County Finn State KANSAS
 Test Approved By Ed Greives Diamond Representative Jacob McCallie

Formation Test No. 4 Interval Tested from 4284 ft. to 4300 ft. Total Depth 4300 ft.
 Packer Depth 4279 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
 Packer Depth 4284 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4265 ft. Recorder Number 8471 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 4286 ft. Recorder Number 5965 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 525 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.
 Chlorides 3,200 P.P.M. Drill Pipe Length 3725 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 3 Test Tool Length 34 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 16 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" Blow- Built to BB in 16 min **NOBB**
 2nd Open: 1/4" Blow- Built to BB in 8 1/2 min **NOBB**

Recovered 1082 ft. of GIP
 Recovered 127 ft. of SLMCO 96% O 4% M
 Recovered 127 ft. of TOTAL FLUID

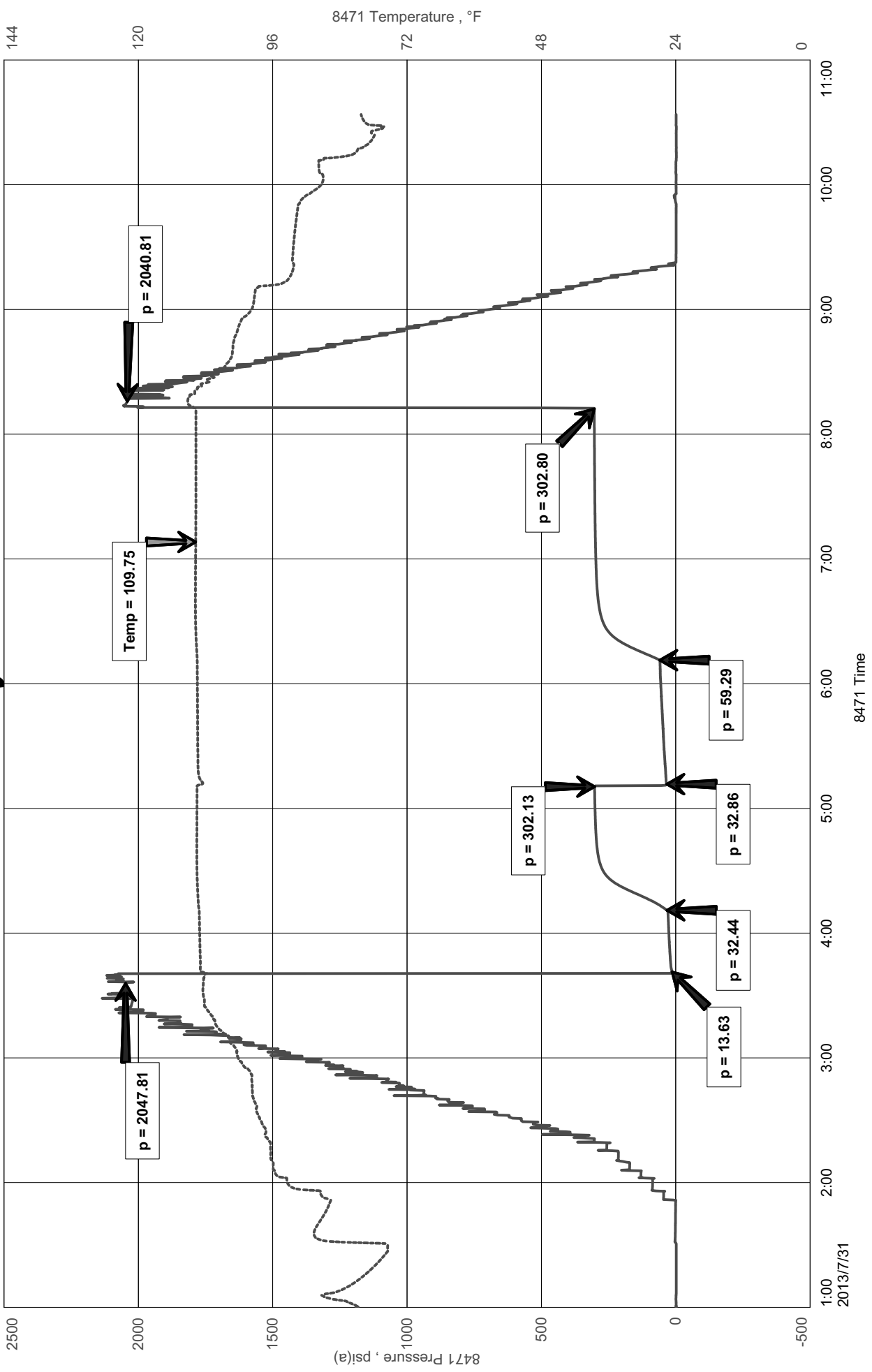
Recovered <u> </u> ft. of <u> </u>	Price Job
Recovered <u> </u> ft. of <u> </u>	Other Charges
Recovered <u> </u> ft. of <u> </u>	Insurance
Remarks: <u> </u>	
Tool Sample: <u>54% O 46% M</u>	Total

Time Set Packer(s) 3:40 AM ^{A.M.}/_{P.M.} Time Started Off Bottom 8:10 AM ^{A.M.}/_{P.M.} Maximum Temperature 110

Initial Hydrostatic Pressure..... (A) 2048 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 32 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 302 P.S.I.
 Final Flow Period..... Minutes 60 (E) 33 P.S.I. to (F) 59 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 303 P.S.I.
 Final Hydrostatic Pressure..... (H) 2041 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Timothy #1-16



Diamond Testing

General information Report

General Information

Company Name Berexco LLC

Contact	Greg Claus	Job Number	S0366
Well Name	Timothy #1-16	Representative	Jacob McCallie
Unique Well ID	DST #4 Marmaton 'B' 4284-4300'	Well Operator	Berexco LLC
Surface Location	SEC 16-22S-34W Finny County	Report Date	2013/07/31
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	01:00:00
Formation	DST #4 Marmaton 'B' 4284-4300'	Final Test Time	10:35:00
Well Fluid Type	01 Oil		
Start Test Date	2013/07/31		
Final Test Date	2013/07/31		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:
1082' GIP
127' SLMCO 96% O 4% M
127' TOTAL FLUID

TOOL SAMPLE:
54% O 46% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: timothy1-16dst5

TIME ON: 7-31 21:46
TIME OFF: 8-1 08:20

Company Berexco LLC Lease & Well No. Timothy #1-16
Contractor Beredco Rig #2 Charge to Berexco LLC
Elevation 2970 KB Formation Marmaton 'C' Effective Pay -- Ft. Ticket No. S0367
Date 8-1-13 Sec. 16 Twp. 22 S Range 34 W County Finn State KANSAS
Test Approved By Ed Greives Diamond Representative Jacob McCallie

Formation Test No. 5 Interval Tested from 4324 ft. to 4334 ft. Total Depth 4334 ft.

Packer Depth 4319 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 4324 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4305 ft. Recorder Number 8471 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4326 ft. Recorder Number 5965 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 61 Drill Collar Length 525 ft. I.D. 2 1/4 in.

Weight 9.05 Water Loss 9.2 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 2,300 P.P.M. Drill Pipe Length 3765 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 3 Test Tool Length 34 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 10 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB- No Build in 30 min NOBB

2nd Open: 1/4" Blow- Built to 2 3/4" in 60 min NOBB

Recovered 362 ft. of GIP

Recovered 10 ft. of SLOCM 10% O 90% M

Recovered 10 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Tool Sample: 32% O 68% M Total _____

Time Set Packer(s) 1:05 AM A.M. Time Started Off Bottom 5:35 AM P.M. Maximum Temperature 107

Initial Hydrostatic Pressure..... (A) 2024 P.S.I.

Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 12 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 311 P.S.I.

Final Flow Period..... Minutes 60 (E) 15 P.S.I. to (F) 19 P.S.I.

Final Closed In Period..... Minutes 120 (G) 649 P.S.I.

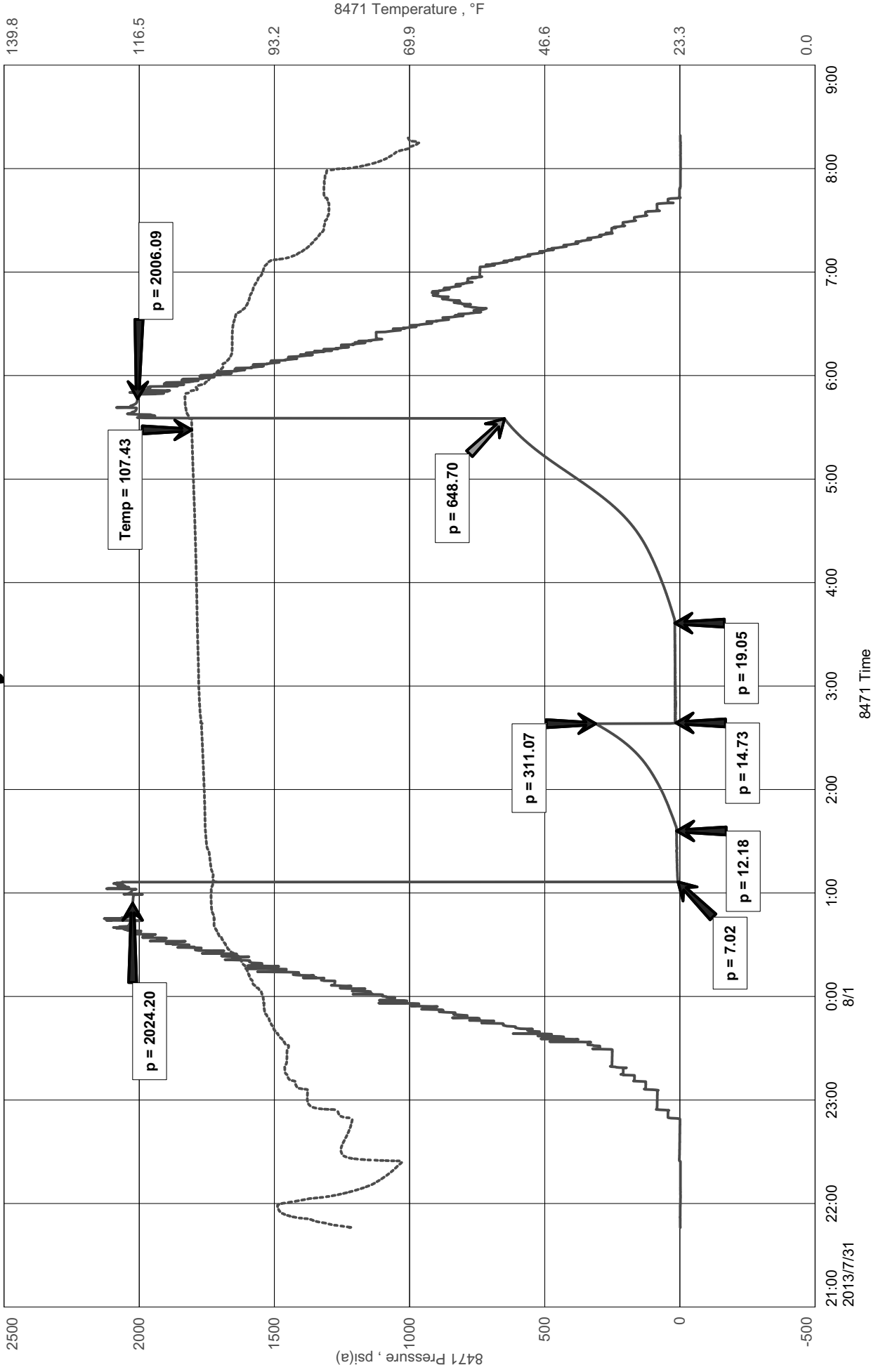
Final Hydrostatic Pressure..... (H) 2006 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Berexco LLC
 DST #5 Marmaton 'C' 4324-4334'
 Start Test Date: 2013/07/31
 Final Test Date: 2013/08/01

Timothy #1-16
 Formation: DST #5 Marmaton 'C' 4324-4334'
 Pool: Wildcat
 Job Number: S0367

Timothy #1-16



Diamond Testing

General information Report

General Information

Company Name Berexco LLC

Contact	Greg Claus	Job Number	S0367
Well Name	Timothy #1-16	Representative	Ed Grieves
Unique Well ID	DST #5 Marmaton 'C' 4324-4334'	Well Operator	Berexco LLC
Surface Location	SEC 16-22S-34W Finny County	Report Date	2013/08/01
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #5 Marmaton 'C' 4324-4334'		
Well Fluid Type	01 Oil	Start Test Time	21:46:00
		Final Test Time	08:20:00
Start Test Date	2013/07/31		
Final Test Date	2013/08/01		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:

362'	GIP	
10'	SLOCM	10% O 90% M
10'	TOTAL FLUID	

TOOL SAMPLE:

32% O 68% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: timothy1-16dst6

TIME ON: 8-1 21:56
TIME OFF: 8-2 06:54

Company Berexco LLC Lease & Well No. Timothy #1-16
Contractor Beredco Rig #2 Charge to Berexco LLC
Elevation 2970 KB Formation Pawnee Effective Pay -- Ft. Ticket No. S0368
Date 8-2-13 Sec. 16 Twp. 22 S Range 34 W County Finn State KANSAS
Test Approved By Ed Greives Diamond Representative Jacob McCallie

Formation Test No. 6 Interval Tested from 4346 ft. to 4369 ft. Total Depth 4369 ft.

Packer Depth 4341 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 4346 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4327 ft. Recorder Number 8471 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4348 ft. Recorder Number 5965 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 63 Drill Collar Length 525 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 9.2 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in

Chlorides 2400 P.P.M. Drill Pipe Length 3791 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 3 Test Tool Length 34 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 19 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WSB- Built to 1/2 in. in 30 min NOBB

2nd Open: No Blow. No Build. NOBB

Recovered 12 ft. of OSM 100%-mud w/ scum of oil

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Tool Sample: 2%-oil; 98%-mud Total _____

Time Set Packer(s) 1:05 AM A.M. Time Started Off Bottom 5:35 AM P.M. Maximum Temperature 107

Initial Hydrostatic Pressure..... (A) 2023 P.S.I.

Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 188 P.S.I.

Final Flow Period..... Minutes 30 (E) 23 P.S.I. to (F) 27 P.S.I.

Final Closed In Period..... Minutes 60 (G) 174 P.S.I.

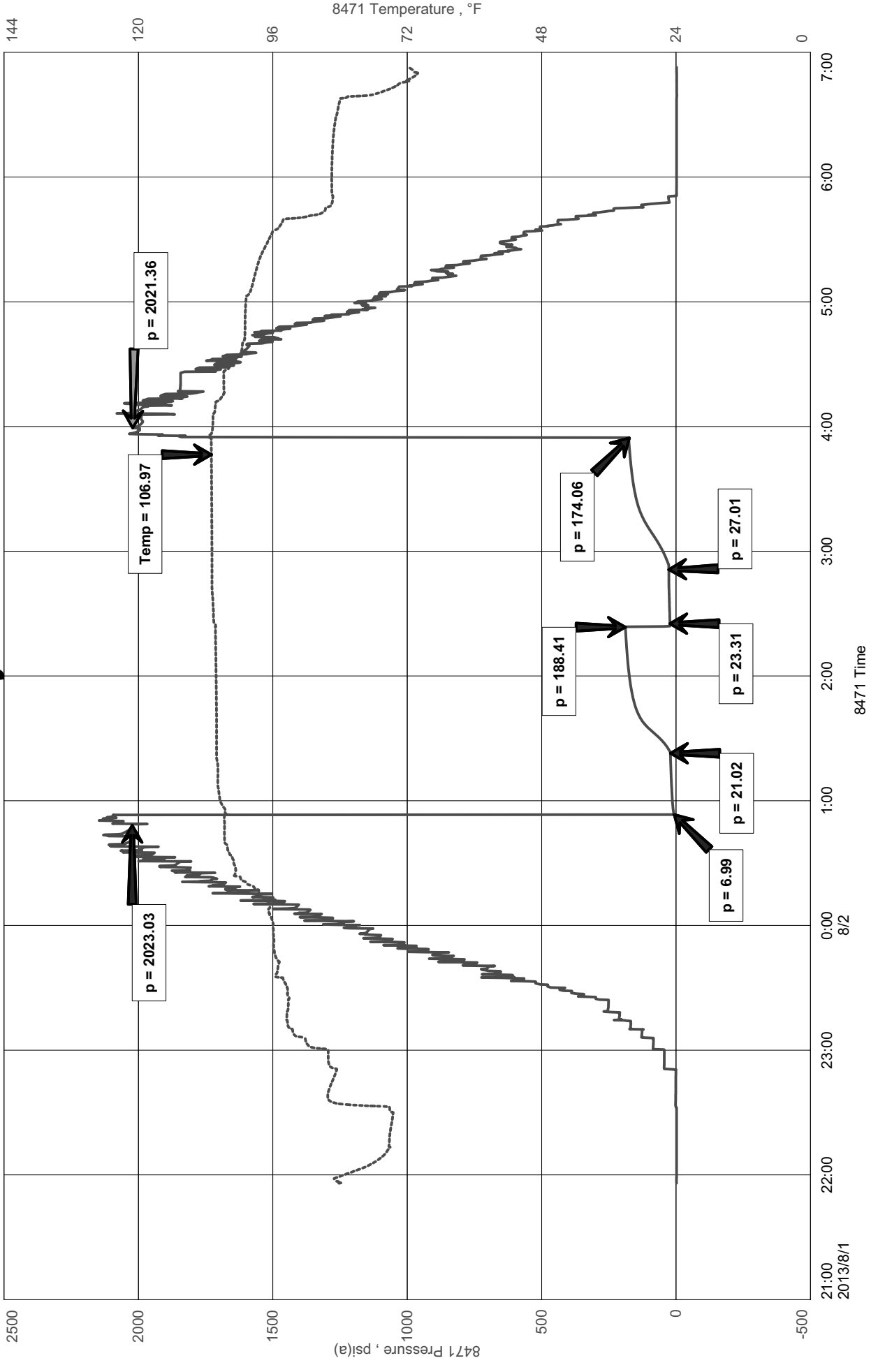
Final Hydrostatic Pressure..... (H) 2021 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Berexco LLC
DST #6 Pawnee 4346-4369'
Start Test Date: 2013/08/01
Final Test Date: 2013/08/02

Timothy #1-16
Formation: DST #6 Pawnee 4346-4369'
Pool: Wildcat
Job Number: S0368

Timothy #1-16



Diamond Testing

General information Report

General Information

Company Name Berexco LLC

Contact	Ed Grieves	Job Number	S0368
Well Name	Timothy #1-16	Representative	Jacob McCallie
Unique Well ID	DST #6 Pawnee 4346-4369'	Well Operator	Berexco LLC
Surface Location	SEC 16-22S-34W Finney County	Report Date	2013/08/02
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #6 Pawnee 4346-4369'		
Well Fluid Type	01 Oil	Start Test Time	21:56:00
		Final Test Time	06:54:00
Start Test Date	2013/08/01		
Final Test Date	2013/08/02		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:

12' OSM 100% M (scum of oil)

TOOL SAMPLE:

2% O 98% M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: timothy1-16dst7

TIME ON: 8-4 23:54
TIME OFF: 8-5 07:12

Company Berexco LLC Lease & Well No. Timothy #1-16
Contractor Beredco Rig #2 Charge to Berexco LLC
Elevation 2970 KB Formation Morrow Effective Pay -- Ft. Ticket No. S0369
Date 8-5-13 Sec. 16 Twp. 22 S Range 34 W County Finn State KANSAS
Test Approved By Ed Greives Diamond Representative Jacob McCallie

Formation Test No. 7 Interval Tested from 4671 ft. to 4690 ft. Total Depth 4690 ft.

Packer Depth 4666 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 4671 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4652 ft. Recorder Number 8471 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4673 ft. Recorder Number 5965 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 525 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 3400 P.P.M. Drill Pipe Length 4112 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 3 Test Tool Length 34 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 19 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: N/A

2nd Open: N/A

Recovered 1395 ft. of mud 100%-mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: MIS-RUN! Packer failed to seat

Tool Sample: 100%-mud

Price Job
Other Charges
Insurance
Total

Time Set Packer(s) -- A.M. P.M. Time Started Off Bottom -- A.M. P.M. Maximum Temperature --

Initial Hydrostatic Pressure..... (A) 2239 P.S.I.

Initial Flow Period..... Minutes -- (B) -- P.S.I. to (C) -- P.S.I.

Initial Closed In Period..... Minutes -- (D) -- P.S.I.

Final Flow Period..... Minutes -- (E) -- P.S.I. to (F) -- P.S.I.

Final Closed In Period..... Minutes -- (G) -- P.S.I.

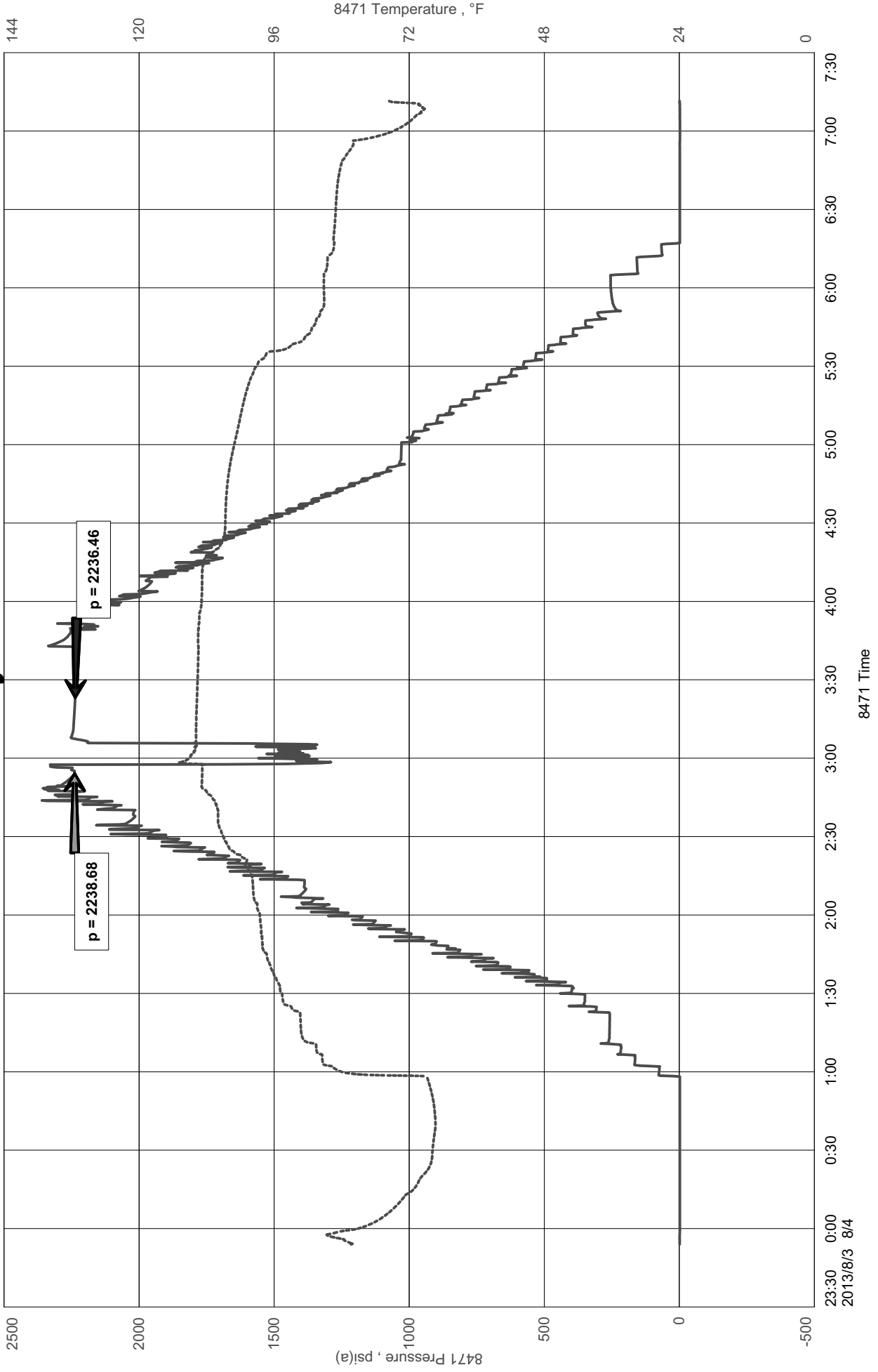
Final Hydrostatic Pressure..... (H) 2236 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Berexco LLC
DST #7 Morrow 4671-4690'
Start Test Date: 2013/08/03
Final Test Date: 2013/08/04

Timothy #1-16
Formation: DST #7 Morrow 4671-4690'
Pool: Wildcat
Job Number: S0369

Timothy #1-16



Diamond Testing

General information Report

General Information

Company Name Berexco LLC

Contact	Greg Claus	Job Number	S0369
Well Name	Timothy #1-16	Representative	Jacob McCallie
Unique Well ID	DST #7 Morrow 4671-4690'	Well Operator	Berexco LLC
Surface Location	SEC 16-22S-34W Finney County	Report Date	2013/08/04
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	23:54:00
Formation	DST #7 Morrow 4671-4690'	Final Test Time	07:12:00
Well Fluid Type	01 Oil		
Start Test Date	2013/08/03		
Final Test Date	2013/08/04		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:
1395' M 100%-M

TOOL SAMPLE:
100%-M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: timothy1-16dst8

TIME ON: 8-4 21:38
TIME OFF: 8-5 07:07

Company Berexco LLC Lease & Well No. Timothy #1-16
Contractor Beredco Rig #2 Charge to Berexco LLC
Elevation 2970 KB Formation St. Louis "C" Effective Pay -- Ft. Ticket No. S0370
Date 8-5-13 Sec. 16 Twp. 22 S Range 34 W County Finny State KANSAS
Test Approved By Ed Greives Diamond Representative Jacob McCallie

Formation Test No. 8 Interval Tested from 4706 ft. to 4730 ft. Total Depth 4730 ft.

Packer Depth 4701 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Packer Depth 4706 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4687 ft. Recorder Number 8471 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4709 ft. Recorder Number 5965 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 Drill Collar Length 525 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 8.4 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 3,300 P.P.M. Drill Pipe Length 4147 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 3 Test Tool Length 34 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 24 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB- Died in 16 1/2 min NOBB

2nd Open: No Blow- No Build NOBB

Recovered 7 ft. of HOSM 10% O 90% M

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Tool Sample: 10% O 90% M Total _____

Time Set Packer(s) 12:41 AM ^{A.M.}/_{P.M.} Time Started Off Bottom 4:11 AM ^{A.M.}/_{P.M.} Maximum Temperature 111

Initial Hydrostatic Pressure..... (A) 2274 P.S.I.

Initial Flow Period..... Minutes 30 (B) 4 P.S.I. to (C) 14 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 214 P.S.I.

Final Flow Period..... Minutes 30 (E) 15 P.S.I. to (F) 19 P.S.I.

Final Closed In Period..... Minutes 90 (G) 221 P.S.I.

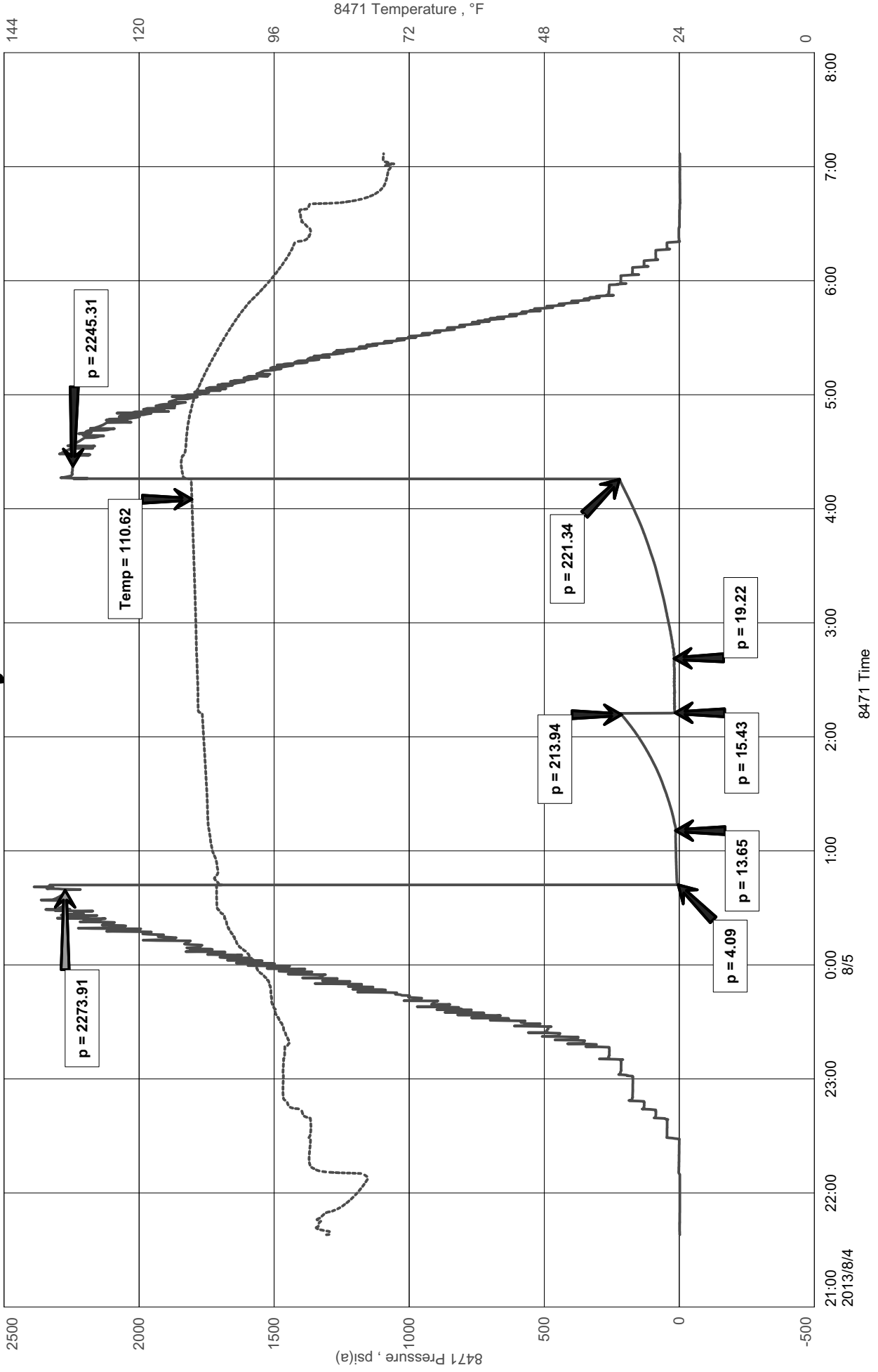
Final Hydrostatic Pressure..... (H) 2245 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Berexco LLC
DST #8 St. Louis "C" 4706-4730'
Start Test Date: 2013/08/04
Final Test Date: 2013/08/05

Timothy #1-16
Formation: DST #8 St. Louis "C" 4706-4730'
Pool: Wildcat
Job Number: S0370

Timothy #1-16



Diamond Testing

General information Report

General Information

Company Name Berexco LLC

Contact	Greg Claus	Job Number	S0370
Well Name	Timothy #1-16	Representative	Jacob McCallie
Unique Well ID	DST #8 St. Louis "C" 4706-4730'	Well Operator	Berexco LLC
Surface Location	SEC 16-22S-34W Finny County	Report Date	2013/08/05
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #8 St. Louis "C" 4706-4730'		
Well Fluid Type	01 Oil	Start Test Time	21:38:00
		Final Test Time	07:07:00
Start Test Date	2013/08/04		
Final Test Date	2013/08/05		
Gauge Name	8471		
Gauge Serial Number			

Test Results

RECOVERED:
7' HOSM 10% O 90% M

TOOL SAMPLE:
10% O 90% M

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-8651475

060349

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley, KS

DATE <u>7-22-13</u>	SEC. <u>16</u>	TWP. <u>22</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>2:00 pm</u>	JOB START <u>6:30 pm</u>	JOB FINISH <u>8:00 pm</u>
LEASE <u>Timothy</u>	WELL # <u>1-16</u>	LOCATION <u>Tennis 5 to Barlow Rd,</u>			COUNTY <u>Finney</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		W to Peterson Rd. N of Erumb					

CONTRACTOR Beredco

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>1788'</u>
CASING SIZE <u>8 3/8</u>	DEPTH <u>1787.17</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42.17'</u>
CEMENT LEFT IN CSG. <u>42.17'</u>	
PERFS.	
DISPLACEMENT <u>111.17 bbl</u>	

OWNER same.

CEMENT

AMOUNT ORDERED 650 sks 6 5/8 3% cc

3% cc 4 1/2 flo seal

150 sks com 3% cc

COMMON	<u>150 sks @ 12.90</u>	<u>2685.00</u>
POZMIX		
GEL		
CHLORIDE	<u>2.15 sks @</u>	<u>7.134400</u>
ASC		
ALCIA	<u>650 sks @</u>	<u>16.50 10725.00</u>
<u>Flowsal</u>	<u>163 # @</u>	<u>2.97 484.11</u>
HANDLING	<u>905.05 #73</u>	<u>2.48 2248.52</u>
MILEAGE	<u>38.17 km x .50 x</u>	<u>2.60 9762.10</u>
TOTAL		<u>22444.73</u>

EQUIPMENT

PUMP TRUCK CEMENTER	<u>Lakene S. Dentz</u>
# <u>423/281</u>	HELPER <u>Paul Beaver</u>
BULK TRUCK	
# <u>566/595</u>	DRIVER <u>David Scarrano</u>
BULK TRUCK	
# <u>373/308</u>	DRIVER <u>Chris Helpingstine</u>

REMARKS:

Mix 650 sks 6 5/8

Mix 150 sks com

Displace with water & mud.

Cement did circulate.

Thank you

CHARGE TO: Berexco

STREET _____

CITY _____ STATE _____ ZIP _____

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 Mylo Salinas

SIGNATURE Mylo Salinas

SERVICE

DEPTH OF JOB	<u>1787.17</u>	
PUMP TRUCK CHARGE		<u>2213.75</u>
EXTRA FOOTAGE		
MILEAGE	<u>MILW 50 @ 7.70</u>	<u>385.00</u>
MANIFOLD	<u>Head</u>	<u>275.00</u>
	<u>MILW 50 @ 4.40</u>	<u>220.00</u>
TOTAL		<u>2598.75</u>

Industrial Rubber
PLUG & FLOAT EQUIPMENT

(1) - Texas Guide shoe		<u>254.00</u>
(1) AFA Insert	@	<u>156.00</u>
(1) Rubber Plug	@	<u>87.00</u>
(1) Centralizers	@ 50.00	<u>200.00</u>
(2) Baskets	@ 243.00	<u>486.00</u>
TOTAL		<u>1183.00</u>

SALES TAX (if Any) _____

TOTAL CHARGES 26,223.48

DISCOUNT 7,342.57 IF PAID IN 30 DAYS

18,880.90 Net.



CEMENTING LOG

STAGE NO. _____

AUG 06 2013

Date 7-22-13 District Oakley, KS Ticket No. 60349
 Company Berexco Rig Beredco
 Lease Timothy Well No. 1-16
 County Finney State KS

Location 16-22-34 Field _____
Tennis 5 to Bartow Rd. 94 W of East
 CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type New Weight 24# Collar _____

Casing Depths: Top KB Bottom 1782.17

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 1788 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type 65/35 62gal Excess _____
 Amt. 650 Skys Yield 1.98 ft³/sk Density 12.8 PPG
 TAIL: Pump Time _____ hrs. Type Com 390CC Excess _____
 Amt. 150 Skys Yield 1.18 ft³/sk Density 13.8 PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 423/281 - Paul
 Bulk Equip. 566/595 - David
373/308 - Chris

Floater Equip: Manufacturer Industrial Rubber
 Shoe: Type Texas Guide Shoe Depth _____
 Floater Type A Fu insert Depth _____
 Centralizers: Quantity 4 Plugs Top 1 Btm. _____
 Stage Collars _____
 Special Equip. (2) Baskets
 Disp. Fluid Type Water Amt. 111.17 Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____ CEMENTER LaRene

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
6:30						Hold Safety meeting. Start water Start cement 650 SKS lift Weigh cement 5 times 12.8 # Start cement 150 SKS Com Weigh cement 3 times 13.8 # Stop cement Release plug 20.0 20.0 20.0 10.0 10.0 18.0 10.0 10.0 1.17 Stop water plug Land plug. plug
8:00						Hold safety meeting Thank you.

ALLIED OIL & GAS SERVICES, LLC 060773

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley

DATE <u>8-6-13</u>	SEC <u>16</u>	TWP. <u>22S</u>	RANGE <u>34W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 PM 8/20</u>	JOB FINISH <u>7:00 PM 7/20</u>
LEASEE <u>Timothy</u>		WELL # <u>1-16</u>	LOCATION <u>Big Low + Barlow Rd</u>		COUNTY <u>Finnery</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			4W N+E INTO				

CONTRACTOR Beredco 2 OWNER same

TYPE OF JOB Production (2 stage)

HOLE SIZE <u>7 7/8</u> T.D. <u>4850'</u>	CEMENT
CASING SIZE <u>5 1/2</u> DEPTH <u>4834.92</u>	AMOUNT ORDERED <u>100 sks Type 2 Lite 1/4 Flo-seal</u>
TUBING SIZE DEPTH	<u>210 sks ASC Rossall 6" Gilsonite 90% Fracture Def</u>
DRILL PIPE DEPTH	<u>455 sks Type 1 Lite 1/4 Flo-seal</u>
TOOL <u>DV TOOL</u> DEPTH <u>3177'</u>	COMMON _____ @ _____
PRES. MAX MINIMUM	POZMIX _____ @ _____
MEAS. LINE SHOE JOINT <u>42.25'</u>	GEL _____ @ _____
CEMENT LEFT IN CSG. <u>42.25'</u>	CHLORIDE _____ @ _____
PERFS. <u>Bottom</u> <u>TOP</u>	ASC <u>210 sks</u> @ <u>20.95</u> <u>4389.00</u>
DISPLACEMENT <u>114.06 BBL</u> <u>2525'</u>	_____ @ _____

EQUIPMENT

PUMP TRUCK # <u>423-281</u>	CEMENTER <u>Andrew Forslund</u>	
	HELPER <u>Paul Beaver</u>	
BULK TRUCK # <u>373</u>	DRIVER <u>Chris Helplingstar</u>	
BULK TRUCK # <u>5266</u>	DRIVER <u>Brandon W. Kinison</u>	

<u>595 sks Lite</u>	@ <u>15.95</u> <u>9490.25</u>
<u>Gilsonite 1260#</u>	@ <u>98</u> <u>123480</u>
<u>Flo-seal 148#</u>	@ <u>2.97</u> <u>439.56</u>
<u>SALT 20 sks</u>	@ <u>26.35</u> <u>N/C</u>
<u>FL-160 59#</u>	@ <u>18.90</u> <u>1115.10</u>
<u>DeFoamer 29#</u>	@ <u>9.80</u> <u>284.20</u>
HANDLING <u>928.32 cu/ft</u>	@ <u>2.48</u> <u>2302.23</u>
MILEAGE <u>2.60 ton/mile 39.37 hrs</u>	<u>5118.10</u>
TOTAL <u>24373.24</u>	

REMARKS:

mix eight 100skts mix 210 skts asc wash pump and line clean. start displacement. 900# LIFT, plug did not land. Dried up. open DV TOOL 1500#. Plug mouse hole 20 skts Ref hole 30 skts. mix 445 sks Lite down 5 1/2 casing. wash pump and line clean. Displace plug. 1100# LIFT, land plug 1800#. Tool closed Cement circulated.

Thank you

CHARGE TO: Berexco
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>4834.92</u>	TOP
PUMP TRUCK CHARGE <u>2515.25</u>	<u>2401.25</u>
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>50 miles</u>	@ <u>7.20</u> <u>385.00</u>
MANIFOLD head	@ <u>225.00</u> <u>N/C</u>
Light vehicle	@ <u>4.40</u> <u>N/C</u>
TOTAL <u>5557.00</u>	

5 1/2 PLUG & FLOAT EQUIPMENT

1 Abu float shoe	@ <u>200.00</u>
1 Latch down plug Assy	@ <u>N/C</u>
1 DV Tool	@ <u>2592.50</u>
3 Baskets	@ <u>161.25</u> <u>483.75</u>
15 Centralizers	@ <u>33.75</u> <u>506.25</u>
TOTAL <u>3797.50</u>	

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 GERSTNER
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES 3,377.74
DISCOUNT 9,443.76 IF PAID IN 30 DAYS
24,283.97 Net.

Date 8-6-13 District Oakley Ticket No. 060773
 Company Berexco Rig Berexco 2
 Lease Timothy Well No. 1-16
 County Finney State KS
 Location 16 22 34 Field Biglowe + Barlow Rd 4W N+E INTO
 CASING DATA: Conductor PTA Squeeze Misc
 Size 5/8 Surface Intermediate Production Liner
 Type new Weight 15.5 Collar _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____
 LEAD: Pump Time _____ hrs. Type LITE TYPE 2
14 FLO-5001 Excess _____
 Amt. 495 Sks Yield 1.9 ft³/sk Density 121.3 PPG _____
 TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Casing Depths: Top KB Bottom 4834.92

Pump Trucks Used 423-281
 Bulk Equip. 566
373

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 2 7/8 T.D. 4850 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 2238 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type water Amt. 25.35 Bbls. Weight _____ PPG _____
 Mud Type _____ Weight _____ PPG _____

COMPANY REPRESENTATIVE _____

CEMENTER Andrew

TIME (AM/PM)	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
<u>2:30</u>						<u>plug mouse hole</u> <u>plug rat hole</u> <u>mix cement down 5/8 casing</u> <u>cement mixed</u> <u>wash pump and line clean</u> <u>start displacement</u>
	<u>500</u>			<u>10</u>		
				<u>10</u>		
	<u>800</u>			<u>10</u>		
	<u>1000</u>			<u>10</u>		
	<u>1100</u>			<u>10</u>		
	<u>1100</u>			<u>6</u>		
<u>2:30</u>	<u>1800</u>					<u>plug landed</u> <u>TOOL CLOSED</u> <u>Cement did circulate</u>

FINAL DISP. PRESS: 1100 PSI BUMP PLUG TO 1800 PSI BLEEDBACK 1/2 BBLs. THANK YOU



CEMENTING LOG

STAGE NO. 1

Date 8-6-13 District Oakley Ticket No. 060723
 Company Dereco Rig Dereco-2
 Lease Timothy Well No. 1-16
 County Piney State KS
 Location 16 22 34 Field
Diglowe + Barlow 4w N + S in 20

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5/2 Type NRW Weight 1515 Collar

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____
 LEAD: Pump Time _____ hrs. Type Lite Type 2
 Excess _____
 Amt. 100 Skys Yield 1.9 ft³/sk Density 1213 PPG _____
 TAIL: Pump Time _____ hrs. Type ASC 10% 919
2% OGEL + Gilsonite 70 FL-110 Defoamer Excess _____
 Amt. 210 Skys Yield 1.56 ft³/sk Density 1416 PPG _____
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls. _____
 Pump Trucks Used 423-281
 Bulk Equip. 566

Casing Depths: Top KB Bottom 4834.92

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.O. 4850 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer Industrial Rubber
 Shoe: Type APL Flood shoe Depth 4834.92
 Float: Type Latchdown Plug Ass Depth 4792.67
 Centralizers: Quantity 15 Plugs Top _____ Btm. _____
 Stage Collars OV TOOL
 Special Equip. Baskets
 Disp. Fluid Type water mud Amt. 114.0 Bbls. Weight _____ PPG _____
 Mud Type _____ Weight _____ PPG _____

COMPANY REPRESENTATIVE _____ CEMENTER Andrew

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
<u>1:00</u>						<u>start mixing Lite</u>
						<u>Lite mixed start ASC</u>
						<u>ASC mixed</u>
						<u>wash pump and line clean</u>
						<u>Release Plug</u>
				<u>10</u>	<u>1.5</u>	<u>start Displacement with water</u>
				<u>10</u>	<u>1.5</u>	<u>could not get water</u>
				<u>10</u>	<u>1.5</u>	<u>start mud</u>
				<u>10</u>		<u>water in start mud</u>
				<u>10</u>		
				<u>10</u>		
				<u>10</u>		
				<u>10</u>		
				<u>10</u>		
				<u>5</u>		
				<u>2.5</u>		<u>plug did not land</u>
						<u>Dried up</u>
<u>2:00</u>						<u>Open DV TOOL</u>