



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219740
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: _____

1219740

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Timothy 2-16
Doc ID	1219740

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Timothy 2-16
Doc ID	1219740

Tops

Name	Top	Datum
Herrington	2491	+478
Krider	2522	+447
Winfield	2576	+393
Heebner (base)	3772	-803
Lansing	3826	-857
KS City A	4138	-1169
KS City (base)	4256	-1287
Marmaton	4282	-1313
Pawnee	4364	-1359
Ft. Scott	4396	-1427
Cherokee	4410	-1441
Morrow	4610	-1641
Mississippi	4690	-1721
St. Louis C	4711	-1742
RTD	4850	
LTD	4847	

ALLIED OIL & GAS SERVICES, LLC 063336

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Dakley Ky

DATE <u>6/8/14</u>	SEC. <u>16</u>	TWP. <u>22</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>Timothy</u>	WELL# <u>2-16</u>	LOCATION <u>Scott City 570 CL W to big</u>			COUNTY <u>Finney</u>	STATE <u>Ky</u>	
OLD OR NEW (Circle one) <u>NEW</u>		Location <u>570 Barlow W to Peddison 1/4. 11 E into</u>					

CONTRACTOR Bonded 1
 TYPE OF JOB Wing Surface
 HOLE SIZE 12 1/4 T.D. 1710
 CASING SIZE 8 5/8 DEPTH 1708
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 1710
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 42'
 CEMENT LEFT IN CSG. 42'
 PERFS. _____
 DISPLACEMENT 107 BBL
 EQUIPMENT _____

OWNER Scand
 CEMENT
 AMOUNT ORDERED 65 BBL 6700CL 370CL 14 PLS seal
150 Com 370CC
 COMMON 150 @ 17.90 2685.00
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE 2055 lb @ 1.10 2260.50
MSB ALW Type 1 Class A 635 SL @ 19.82 12425.00
Flaseal 157 lb @ 2.92 466.24
 Material total @ _____ 17,056.74
 (6246.38/352)
 HANDLING 880.47 CF @ 2.48 2183.57
 MILEAGE 22 mi/mile 1848 @ 20 508.00
 TOTAL _____

PUMP TRUCK CEMENTER Alan Ryan
 # 423-281 HELPER Kevin Ryan
 BULK TRUCK
 # 373 DRIVER John (Tras)
 BULK TRUCK
 # 891 DRIVER Joel (Tras)

REMARKS:

Run Com Cement, MSB ALW Tail of com 370cc
Depth Run in 108 BBL to 500.00 CF
and plug 500 PFT.
Cement Add Cement
Flant did hold
Thank You
Alan Ryan

CHARGE TO: Perex co
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 1708
 PUMP TRUCK CHARGE 2213.25
 EXTRA FOOTAGE @ _____
 MILEAGE 50 miles @ 7.70 385.00
 MANIFOLD @ 275.00 n/c
Waterwell 50 miles @ 4.50 n/c
 TOTAL 9,866.25
 (3453.18/352)

PLUG & FLOAT EQUIPMENT

Shoe-Guide @ _____ 460.00
 AFU Product @ _____ 447.00
 3 Centralizers @ 75.00 225.00
 TOTAL 1,132.00
 (337.64/302)

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 Gilbert David Jr
 SIGNATURE [Signature]

SALES TAX (if Any) _____
 TOTAL CHARGES 28,845.04
 DISCOUNT 10,039.16 (3/30)
 IF PAID IN 30 DAYS
Net 18,805.88

DIAMOND TESTING

General Information Report

General Information

Company Name	BEREXCO LLC	Representative	TIM VENTERS
Contact	EVAN MAYHEW	Well Operator	BEREXCO LLC
Well Name	TIMOTHY #2-16	Report Date	2014/06/15
Unique Well ID	DST #1, LANSING "G", 4018-4032	Prepared By	TIM VENTERS
Surface Location	SEC 16-22S-34W, FINNEY CO. KS.	Qualified By	ED GRIEVES
Field	WILDCAT		
Well Type	Vertical		
Test Type	STRADDLE		
Formation	DST #1, LANSING "G", 4018-4032		
Well Fluid Type	01 Oil		
Start Test Date	2014/06/14	Start Test Time	17:49:00
Final Test Date	2014/06/15	Final Test Time	07:58:00

Test Recovery:

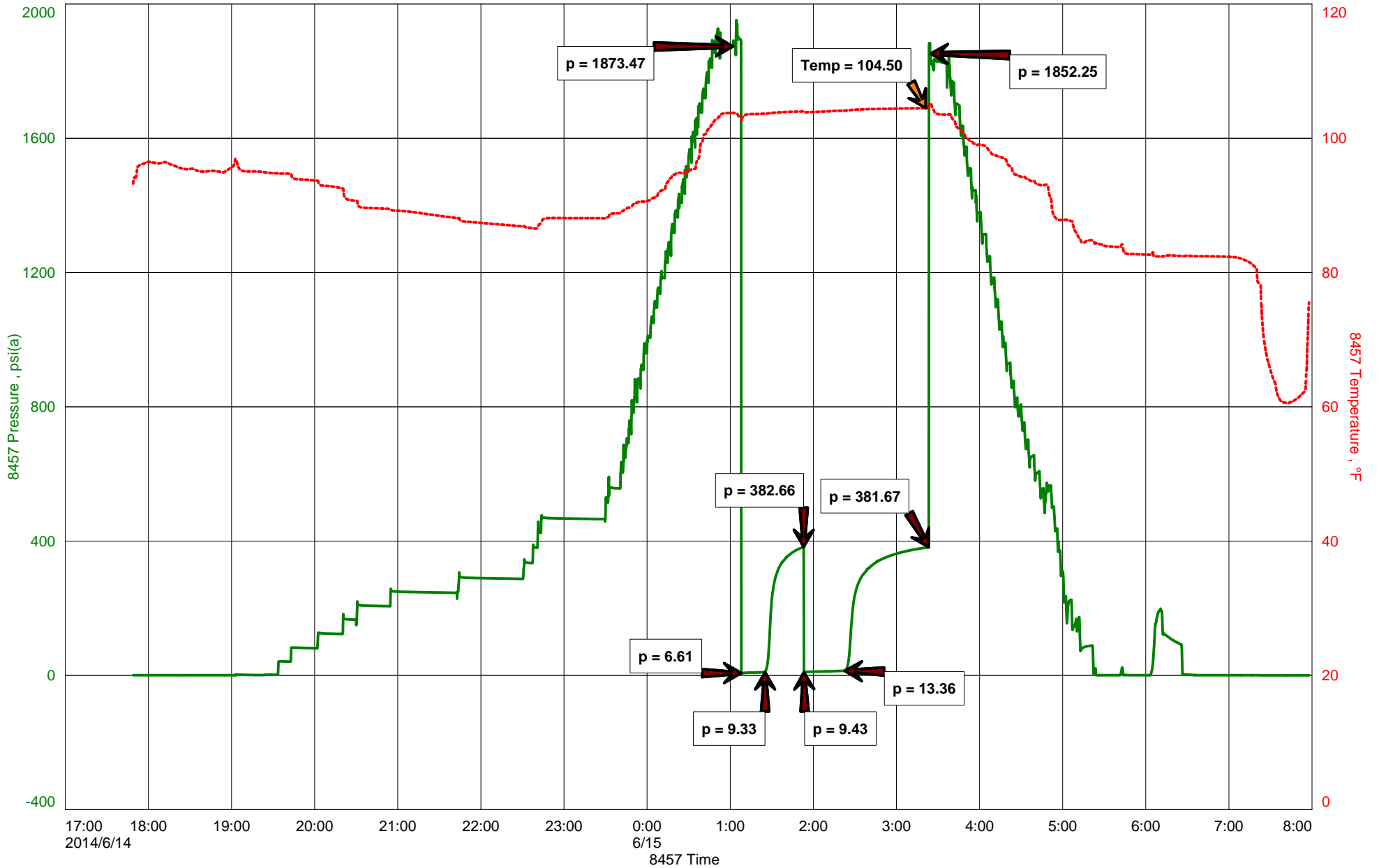
RECOVERED: 5' M W/SP. O, SPOTTY OIL, 100% MUD

TOOL SAMPLE: SPOTTY OIL, 100% MUD

BEREXCO LLC
DST #1, LANSING "G", 4018-4032
Start Test Date: 2014/06/14
Final Test Date: 2014/06/15

TIMOTHY #2-16
Formation: DST #1, LANSING "G", 4018-4032
Pool: WILDCAT
Job Number: T357

TIMOTHY #2-16





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: TIMOTHY2-16DST1

TIME ON: 17:49 6-14-14
TIME OFF: 07:58 6-15-14

Company BEREXCO LLC Lease & Well No. TIMOTHY #2-16
Contractor BEREDCO LLC Charge to BEREXCO LLC
Elevation 29772 KB Formation LANSING "G" Effective Pay _____ Ft. Ticket No. T357
Date 6-15-14 Sec. 16 Twp. 22 S Range 34 W County FINNEY State KANSAS
Test Approved By ED GRIEVES Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 4018 ft. to 4032 ft. Total Depth 4060 ft.
Packer Depth 4013 ft. Size 6 3/4 in. Packer depth 4032 ft. Size 6 3/4 in.
Packer Depth 4018 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3999 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4029 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth 4057 ft. Recorder Number 11030 Cap. 5,025 P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 617 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,900 P.P.M. Drill Pipe Length 3368 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 14 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: VERY WEAK SURFACE BLOW, LASTING 2 MIN. (NO BB)
2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered <u>5</u> ft. of <u>M W/SP. O, SPOTTY OIL, 100% MUD</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>SPOTTY OIL, 100% MUD</u>	Total

Time Set Packer(s) 1:07 AM A.M. P.M. Time Started Off Bottom 3:22 AM A.M. P.M. Maximum Temperature 105 deg.

Initial Hydrostatic Pressure..... (A) 1873 P.S.I.
Initial Flow Period..... Minutes 15 (B) 7 P.S.I. to (C) 9 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 383 P.S.I.
Final Flow Period..... Minutes 30 (E) 9 P.S.I. to (F) 13 P.S.I.
Final Closed In Period..... Minutes 60 (G) 382 P.S.I.
Final Hydrostatic Pressure..... (H) 1852 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.

DIAMOND TESTING

General Information Report

General Information

Company Name	BEREXCO LLC	Representative	TIM VENTERS
Contact	EVAN MAYHEW	Well Operator	BEREXCO LLC
Well Name	TIMOTHY #2-16	Report Date	2014/06/18
Unique Well ID	DST #3, MARMATON "B", 4295-4313	Prepared By	TIM VENTERS
Surface Location	SEC 16-22S-34W, FINNEY CO. KS.	Qualified By	ED GRIEVES
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #3, MARMATON "B", 4295-4313		
Well Fluid Type	01 Oil		
Start Test Date	2014/06/17	Start Test Time	15:30:00
Final Test Date	2014/06/18	Final Test Time	06:51:00

Test Recovery:

RECOVERED: 1155' GAS IN PIPE
30' SO&WCM, 4% OIL, 3% WATER, 93% MUD
90' SMCSUL. W W/TR. O, TRACE OIL, 86% SULFER WATER, 14% MUD
120' TOTAL FLUID

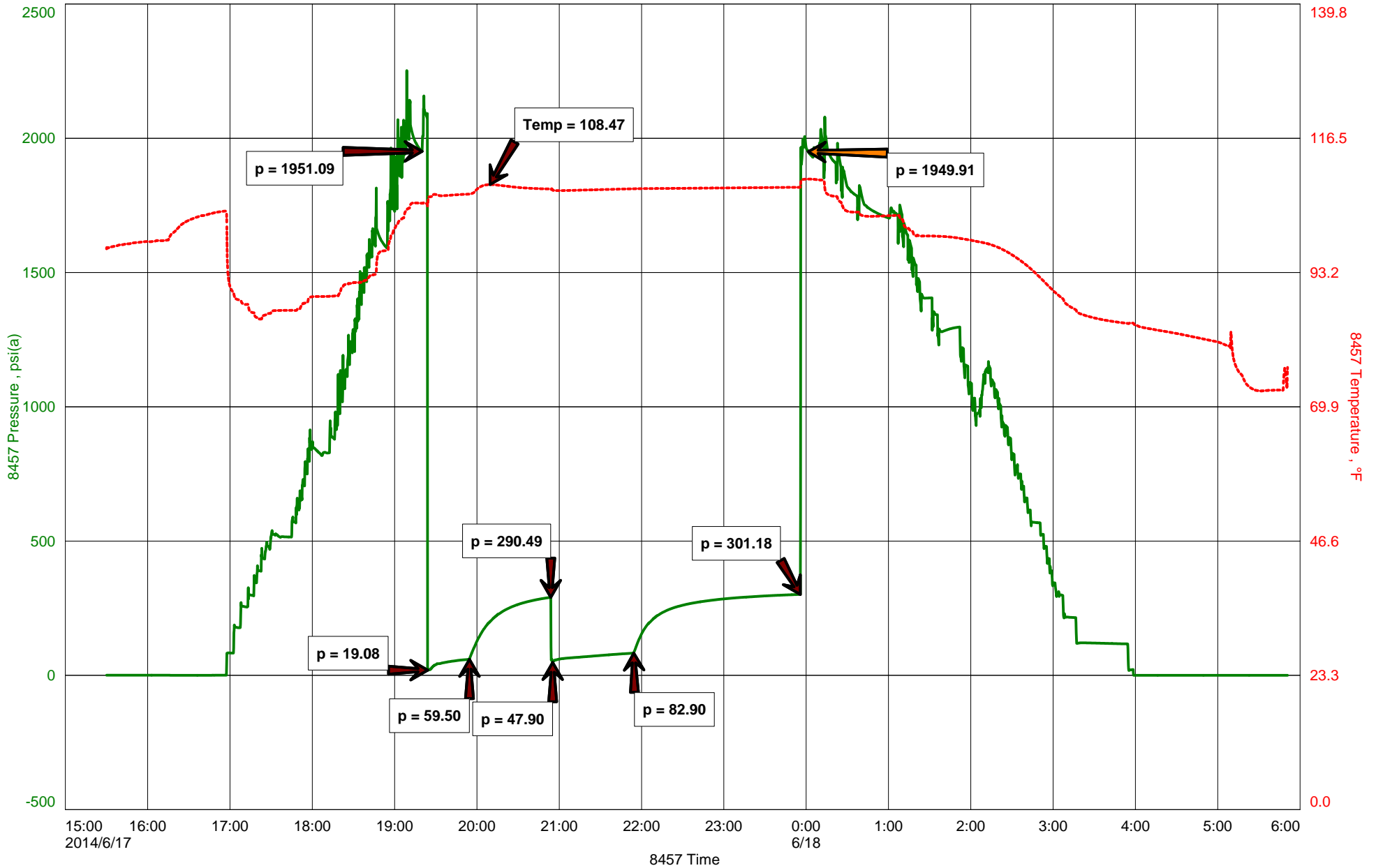
TOOL SAMPLE: 30% OIL, 59% WATER, 11% MUD

CHLORIDES: 48,000 ppm
PH: 6.5
RW: .18 @ 76 deg.

BEREXCO LLC
DST #3, MARMATON "B", 4295-4313
Start Test Date: 2014/06/17
Final Test Date: 2014/06/18

TIMOTHY #2-16
Formation: DST #3, MARMATON "B", 4295-4313
Pool: WILDCAT
Job Number: T359

TIMOTHY #2-16





DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: TIMOTHY2-16DST3

TIME ON: 15:30 6-17-14
 TIME OFF: 06:51 6-18-14

Company BEREXCO LLC Lease & Well No. TIMOTHY #2-16
 Contractor BEREDCO LLC Charge to BEREXCO LLC
 Elevation 29772 KB Formation MARMATON "B" Effective Pay _____ Ft. Ticket No. T359
 Date 6-17-14 Sec. 16 Twp. 22 S Range 34 W County FINNEY State KANSAS
 Test Approved By ED GRIEVES Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4295 ft. to 4313 ft. Total Depth 4313 ft.
 Packer Depth 4290 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4295 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4276 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 4310 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 617 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 10.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 4,000 P.P.M. Drill Pipe Length 3645 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 18 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: GOOD 1 INCH BLOW, BUILING, REACHING BOB 5 MIN. (NO BB)
 2nd Open: STRONG 1 1/2 INCH BLOW, BUILDING, REACHING BOB 1 MIN. (NO BB)

Recovered 1155 ft. of GAS IN PIPE
 Recovered 30 ft. of SO&WCM, 4% OIL, 3% WATER, 93% MUD
 Recovered 90 ft. of SMCSUL.W W/TR. O, TRACE OIL, 86% SULFER WATER, 14% MUD
 Recovered 120 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 48,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 6.6	Other Charges
Remarks: _____	RW: .18 @ 76 deg.	Insurance
TOOL SAMPLE: 30% OIL, 59% WATER, 11% MUD		Total

Time Set Packer(s) 7:23 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 11:53 PM ^{A.M.}/_{P.M.} Maximum Temperature 108 deg.

Initial Hydrostatic Pressure..... (A) 1951 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 19 P.S.I. to (C) 60 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 290 P.S.I.
 Final Flow Period..... Minutes 60 (E) 48 P.S.I. to (F) 83 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 301 P.S.I.
 Final Hydrostatic Pressure..... (H) 1950 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.

DIAMOND TESTING

General Information Report

General Information

Company Name	BEREXCO LLC	Representative	TIM VENTERS
Contact	EVAN MAYHEW	Well Operator	BEREXCO LLC
Well Name	TIMOTHY #2-16	Report Date	2014/06/19
Unique Well ID	DST #4, PAWNEE, 4365-4385	Prepared By	TIM VENTERS
Surface Location	SEC 16-22S-34W, FINNEY CO. KS.	Qualified By	ED GRIEVES
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #4, PAWNEE, 4365-4385		
Well Fluid Type	01 Oil		
Start Test Date	2014/06/19	Start Test Time	03:21:00
Final Test Date	2014/06/19	Final Test Time	15:21:00

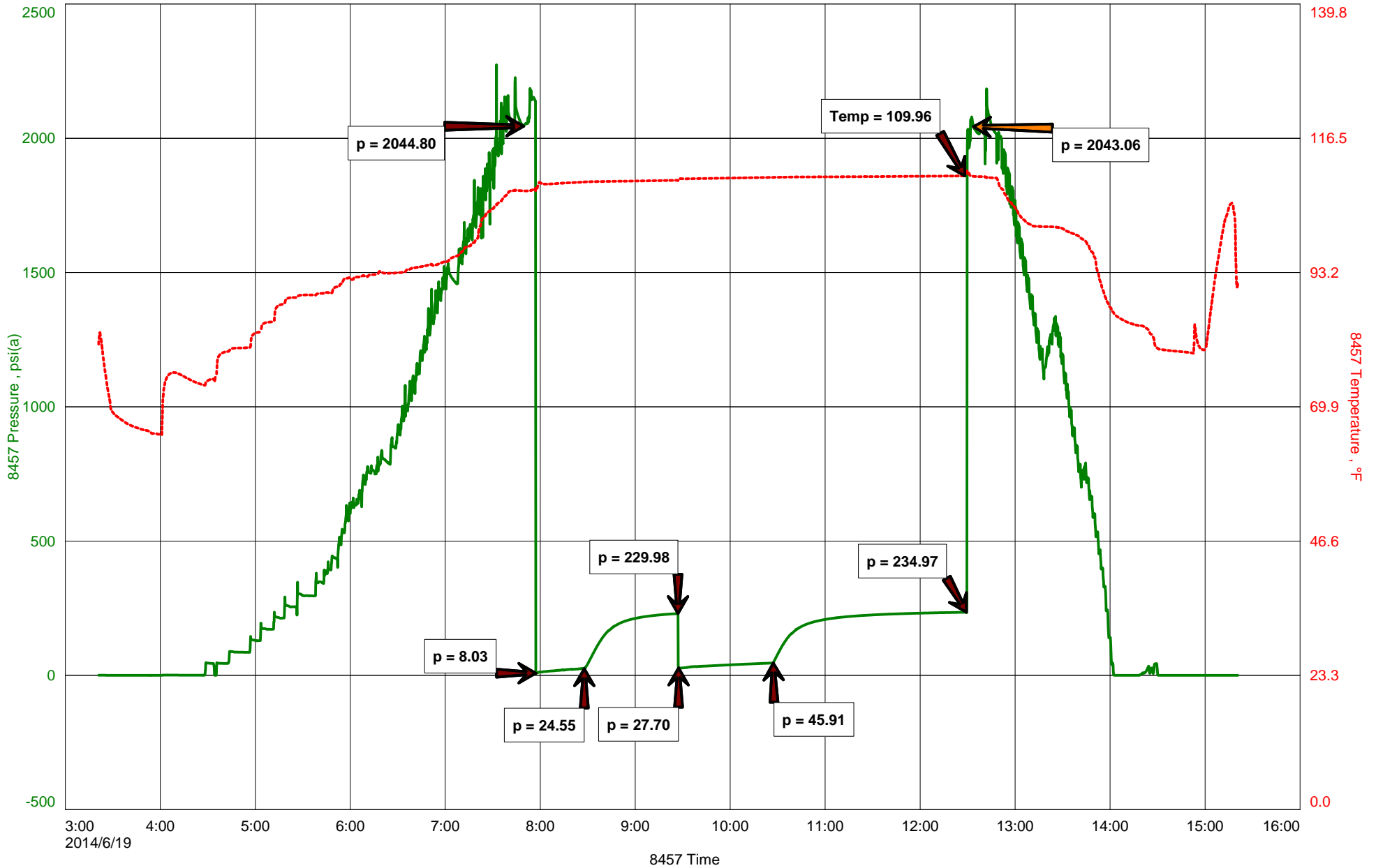
Test Recovery:

RECOVERED: 635' GAS IN PIPE
80' G, SWCM W/SC. O, 6% GAS, SCUM OIL, 12% WATER, 82% MUD

TOOL SAMPLE: SCUM OIL, 41% WATER, 59% MUD

CHLORIDES: 28,000 ppm
PH: 8.5
RW: .22 @ 84 deg.

TIMOTHY #2-16





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: TIMOTHY2-16DST4

TIME ON: 03:21
TIME OFF: 15:21

Company BEREXCO LLC Lease & Well No. TIMOTHY #2-16
Contractor BEREDCO LLC RIG #1 Charge to BEREXCO LLC
Elevation 29772 KB Formation PAWNEE Effective Pay _____ Ft. Ticket No. T360
Date 6-19-14 Sec. 16 Twp. 22 S Range 34 W County FINNEY State KANSAS
Test Approved By ED GRIEVES Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 4365 ft. to 4385 ft. Total Depth 4385 ft.
Packer Depth 4360 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4365 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4346 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4382 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 62 Drill Collar Length 617 ft. I.D. 2 1/4 in.
Weight 9.25 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,100 P.P.M. Drill Pipe Length 3715 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 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: SURFACE BLOW, BUILDING TO 10 1/2 INCHES, STILL BUILDING. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 35 1/2 MIN. (NO BB)

Recovered 635 ft. of GAS IN PIPE
Recovered 80 ft. of G,SWCM W/SC. O, 6% GAS, SCUM OIL, 12% WATER, 82% MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	CHLORIDES: 28,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 8.5	Other Charges
Remarks: _____	RW: .22 @ 84 deg.	Insurance
TOOL SAMPLE: SCUM OIL, 41% WATER, 59% MUD		Total

Time Set Packer(s) 7:56 AM A.M. P.M. Time Started Off Bottom 12:26 PM A.M. P.M. Maximum Temperature 110 deg.

Initial Hydrostatic Pressure..... (A) 2045 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 25 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 230 P.S.I.
Final Flow Period..... Minutes 60 (E) 28 P.S.I. to (F) 46 P.S.I.
Final Closed In Period..... Minutes 120 (G) 235 P.S.I.
Final Hydrostatic Pressure..... (H) 2043 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

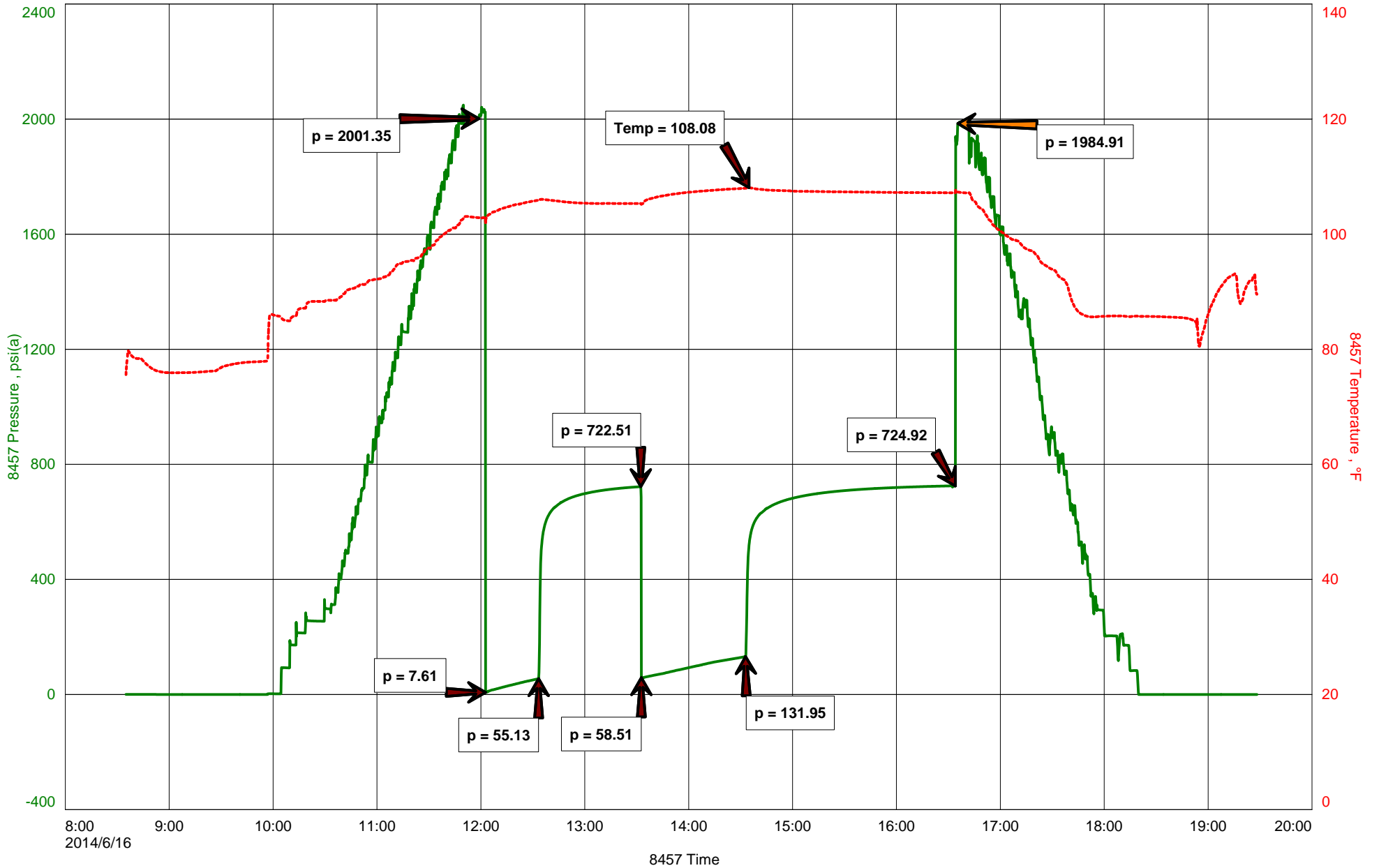
Company Name	BEREXCO LLC	Representative	TIM VENTERS
Contact	EVAN MAYHEW	Well Operator	BEREXCO LLC
Well Name	TIMOTHY #2-16	Report Date	2014/06/16
Unique Well ID	DST #2, KS. CITY "C", 4232-4255	Prepared By	TIM VENTERS
Surface Location	SEC 16-22S-34W, FINNEY CO. KS.	Qualified By	ED GRIEVES
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #2, KS. CITY "C", 4232-4255		
Well Fluid Type	01 Oil		
Start Test Date	2014/06/16	Start Test Time	08:35:00
Final Test Date	2014/06/16	Final Test Time	19:29:00

Test Recovery:

RECOVERED: 270' SMCSUL.W, 91% SULFER WATER, 9% MUD

TOOL SAMPLE: TRACE OIL, 74% SULFER WATER, 26% MUD

TIMOTHY #2-16





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: TIMOTHY2-16DST2

TIME ON: 08:35
TIME OFF: 19:29

Company BEREXCO LLC Lease & Well No. TIMOTHY #2-16
Contractor BEREDCO LLC Charge to BEREXCO LLC
Elevation 29772 KB Formation KANSAS CITY "C" Effective Pay _____ Ft. Ticket No. T358
Date 6-16-14 Sec. 16 Twp. _____ 22 S Range _____ 34 W County FINNEY State KANSAS
Test Approved By ED GRIEVES Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4232 ft. to 4255 ft. Total Depth 4255 ft.
Packer Depth 4227 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4232 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4203 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4252 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 617 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,100 P.P.M. Drill Pipe Length 3582 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 23 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: WEAK SURFACE BLOW, BUILDING TO 4 INCHES. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 6 INCHES. (NO BB)

Recovered 270 ft. of SMCSUL. W, 91% SULFUR WATER, 9% MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	CHLORIDES: 44,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 8.0	Other Charges
Remarks: _____	RW: .22 @ 92 deg.	Insurance
TOOL SAMPLE: TRACE OIL, 74% SULFUR WATER, 26% MUD		Total

Time Set Packer(s) 12:02 PM A.M. P.M. Time Started Off Bottom 4:32 PM A.M. P.M. Maximum Temperature 108 deg.

Initial Hydrostatic Pressure..... (A) 2001 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 55 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 723 P.S.I.
Final Flow Period..... Minutes 60 (E) 59 P.S.I. to (F) 132 P.S.I.
Final Closed In Period..... Minutes 120 (G) 625 P.S.I.
Final Hydrostatic Pressure..... (H) 1985 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.

ALLIED OIL & GAS SERVICES, LLC 063443

Federal Tax I.D. # 20-8661476

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

SERVICE POINT:
Oakley, KS

DATE <u>6-24-14</u>	SEC. <u>16</u>	TWP. <u>22^s</u>	RANGE <u>34^w</u>	CALLED OUT	ON LOCATION <u>12:00 PM</u>	JOB START <u>10:30 AM</u>	JOB FINISH <u>11:30 AM</u>
LEASE <u>Timothy</u> WELL # <u>2-16</u>				LOCATION <u>Golden City N to Bealok</u>		COUNTY <u>Finney</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)				<u>Ed W to Peterson Rd 1/4 N E into</u>		<u>1.0</u>	<u>1.3</u>

CONTRACTOR Berexco #1
 TYPE OF JOB DV - Production
 HOLE SIZE 7 7/8 TD
 CASING SIZE 5 1/2 DEPTH 4850.96
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DV DEPTH 3201
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 42.57
 CEMENT LEFT IN CSG. 42.57
 PERFS.
 DISPLACEMENT 114.4, 76

OWNER Some
 CEMENT
 AMOUNT ORDERED Boston stage 220 sks
ASC 125 sks 68/35.6 bags 1/4" loss
TOP 460 sks 68/35.6 bags 1/4" loss
53254 sks
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC 270.82 @ 52.5 @ 23.00 6345.00
550 sks 68/35.6 bags @ 19.88 10934.00
Flashes (146) @ 2.92 427.68
Kalical 16200 @ .98 1587.60
FL-160 128 @ 18.80 2419.20
Defoamer 6800 @ 3.52 238.00
Material Total @ (746350/3470)
 HANDLING 594, 46 cu ft @ 2.45 2416.20
 MILEAGE 2096.89 x 50 x 2.75 5716.16

EQUIPMENT
 PUMP TRUCK CEMENTER Kelly Gabel
 # 4234281 HELPER Kevin Ryan
 BULK TRUCK
 # 8914310 DRIVER John P
 BULK TRUCK
 # 566 DRIVER Juan M
600 Estabon

REMARKS:

rigged up, mixed 65/35 & tailed in
with ASC, displaced with 5000 water
64 bbl mud with high pressure oil
plug did not set, released pressure float ball
opened in well & circulated for 3 hrs,
plugged & R.H.A.M.H. mixed 65/35
tailed in with ASC, displaced plug
Cement did circulate

2096.89
 TOTAL
 SERVICE
 DEPTH OF JOB 4850'
 PUMP TRUCK CHARGE 2765.75 2406.30
 EXTRA FOOTAGE @
 MILEAGE MINV 50 @ 7.20 385.00
 MANIFOLD Head @ 275.00 NC
 MILU 50 @ 4.50 NC
 TOTAL (4688.30/3470) 13789.72


CHARGE TO: Berexco
 STREET
 CITY STATE ZIP

As per bid

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.

5/2" PLUG & FLOAT EQUIPMENT
Weatherford Industrial rubber
Aflex fast shoe (1) @ 640.00
stage collar @ 685.00
Latchman @ 660.00
basket 3 @ 305.00 1185.00
centralizer 14 @ 57.00 798.00
 TOTAL (3016.80/35%) 21618.00

SALES TAX (if Any) 2231.57
 TOTAL CHARGES 44359.2819
 DISCOUNT 15160.30/31% (if paid in 30 days)
29190.98 Net. Bal
89

PRINTED NAME
 SIGNATURE 

COMPANY Berexco LLC WELL
 LEASE Timothy NO. 2-16
 LOCATION 1644' FSL + 351' FWL
 SEC. 16 TWP. 22S RNG. 34W
 COUNTY Finney STATE Kansas
 FIELD Wildcat

ELEVATIONS
 KB 2969
 DF 2967
 GL 2957

MEASUREMENTS ARE ALL FROM KB

CASING RECORD
878' of 1700' w/ 775' SX.
 ___ of ___ w/ ___ SX.
 ___ of ___ w/ ___ SX.
 ___ of ___ w/ ___ SX.

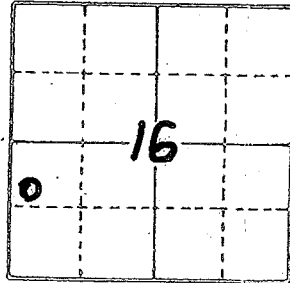
EL. LOG AR. IND. SP. GR
DENNEU TGR. CALIPER
ML. SONIC. DIPMETER

CONTRACTOR Beredco Drig Rig #1
 COMM. 6-5-2014 COMP. 6-23-2014
 RTD 4850 LTD 4847
 No. of DST'S 5 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>Reider</u>	<u>2525</u>	<u>2521</u>	<u>+ 447</u>
<u>Base Heebner</u>	<u>3766</u>	<u>3772</u>	<u>- 803</u>
<u>Lansing Fm</u>	<u>3811</u>	<u>3826</u>	<u>- 857</u>
<u>Kansas City "A"</u>	<u>4142</u>	<u>4138</u>	<u>- 1169</u>
<u>BKC</u>	<u>4258</u>	<u>4256</u>	<u>- 1287</u>
<u>Marmaton Fm</u>	<u>4286</u>	<u>4282</u>	<u>- 1313</u>
<u>Pawnee</u>	<u>4371</u>	<u>4364</u>	<u>- 1359</u>
<u>Ft Scott</u>	<u>4399</u>	<u>4396</u>	<u>- 1427</u>
<u>Cherokee Fm</u>	<u>4414</u>	<u>4410</u>	<u>- 1441</u>
<u>Morrow</u>	<u>4628</u>	<u>4610</u>	<u>- 1641</u>
<u>Mississippi</u>	<u>4691</u>	<u>4690</u>	<u>- 1721</u>
<u>St Louis "C"</u>	<u>4711</u>	<u>4711</u>	<u>- 1742</u>
<u>TD</u>	<u>4850</u>	<u>4847</u>	



API# 15-055-22311

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

Thank you for
 Edwin's
 Geo log

C1 = METHANE
 C2 = ETHANE
 C3 = PROPANE
 C4 = BUTANE
 C5 = PENTANE
 C6 = HEXANE

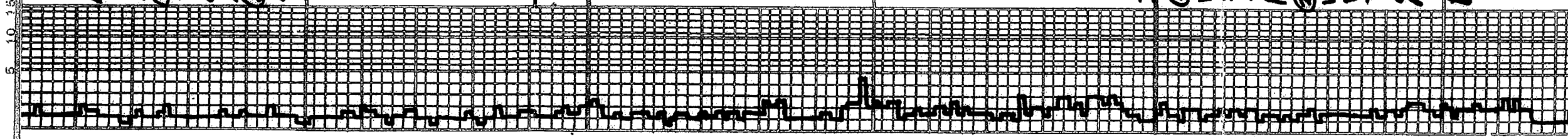
LITHOLOGY: SANDSTONE, LIMESTONE, SHALE, GYPSUM
 CHRONOSTRATIGRAPHY: SUSTONE, DOLOMITE, GRANITE WASH, ANHY & GYP
 HOT WIRE BY TOTAL GAS VOLUME

DRILL TIME SCALE: 5 10 15
 SAMPLE DESCRIPTION
 GAS SCALE

DRILL TIME SCALE

SAMPLE DESCRIPTION

GAS SCALE

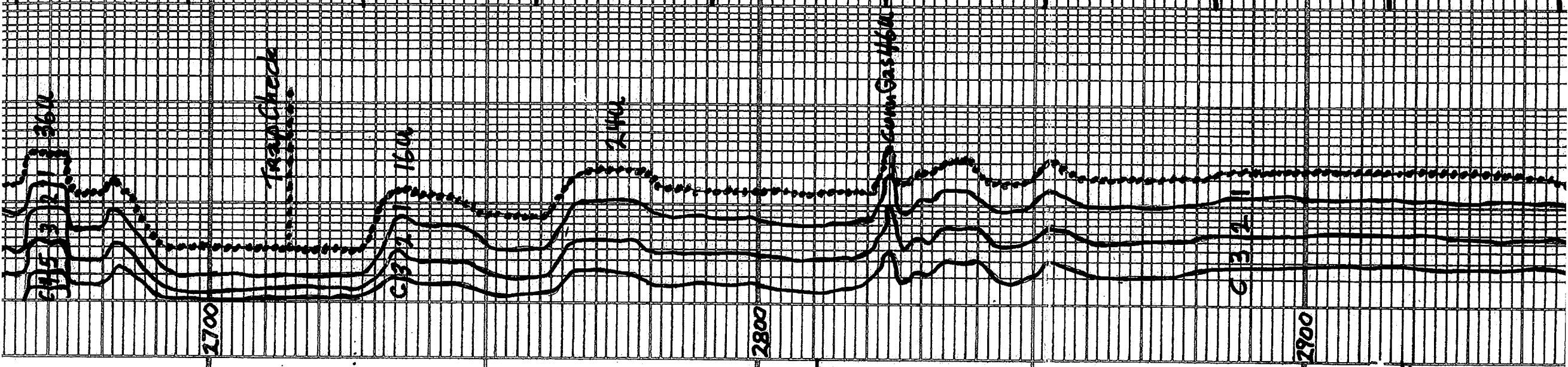


Dolg w/w ater & Native Mud
 Interbedded Anhydrite, Gypsum & Shales
 ① Anhy. & Gyp. gry. to wht, crypto. to v. v. fn. xln & massive xln; dual yellowish. wht. to whitish. yel. fluor. No Cut. No Vis. For
 ② Sh. lt. gray, Silty for sl. to very dolomitic IP's w/ Extr. abu. Callings from above orange to brick red shs; sl. to earthy silty IP's

Interbedded Dolomites & Shales

① Faster Drlg. Dolo lt. gray to Tan v. v. fn. xln; sub-sucro to extely sucro; dup. n. to lt. yel. fluor. No Cut; abu. pr. fa. gd. to excel. P.P. micro-pp & inter xln por
 ② Slower Drlg. Shly. Dolo. lt. gray; v. to extely Shly. crypto to tes. v. v. fn. xln; sub-chalk for Shly; tan. sub-sucro. + packed str. w/ dual lt. yel. fluor. IP's; No Cut. No Vis. For

③ Sh. lt. to med. gray; shly. to extely. dolomitic IP's



2700

2800

2900

Kranich

C327

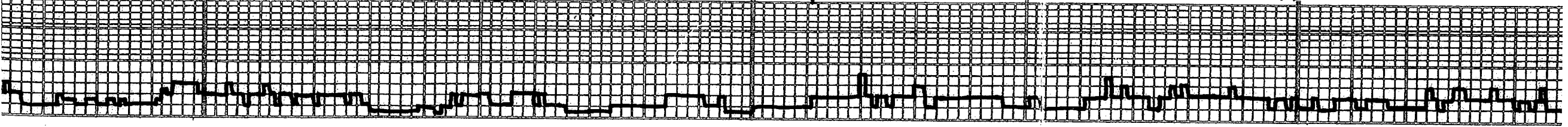
1600

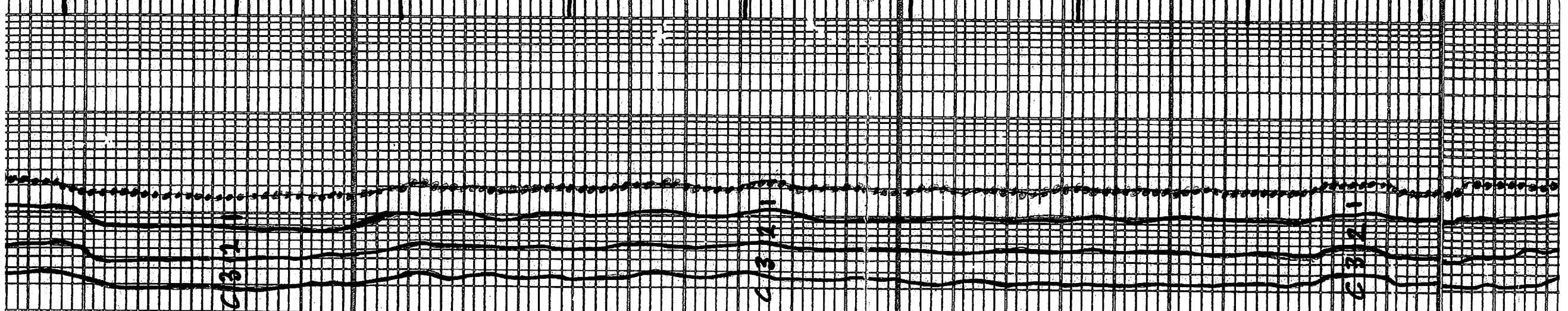
2100

cum Gas 1160

C312

Interbedded Dolomites & Shales
 similar 2491-2811 becoming
 sli. to extraly. Calc IP's
 with interbeds becoming
 Dolomitic limestones and
 Shales becoming sli. to extraly
 Calc IP's as well



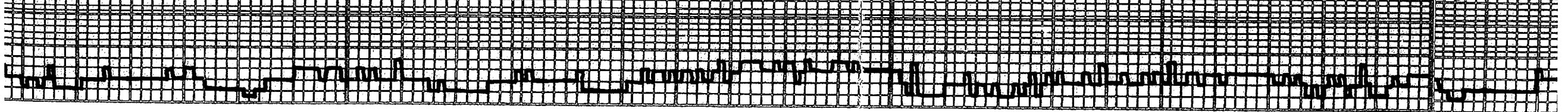


3000

3100

3200

Interbedded and/or Gradational
Dolomites, Limestones, Shales & Silts
Dolo. H. gr. To tan, gray to v.v. fa
Xln. Shly. var. calc. IP's grading to
Dolo. Sh's for Lmy. Dolo. subch. shly
IP's to sub-sucro to sucro + packstn
H. to brt. H. yel. fluor. IP's, No. Cut;



Dolo. Shls for Lmy. Dolo., sub-chalky shly
 IP's to sub-sucro to sucro + packstr
 H. to brct. H. yel. fluor. IP's. No cut.
 with individual beds w/ huytes
 PR. to text. tes. gd. micro-pp and
 inter. sh. por.

① Lms. tes. to abn. wht. to cem. chllk IP's
 and ellm. to tan. grayish IP's.
 sl. to v. dolo. IP's to v. shly
 IP's; c. ex. to v. v. fine. lmy.

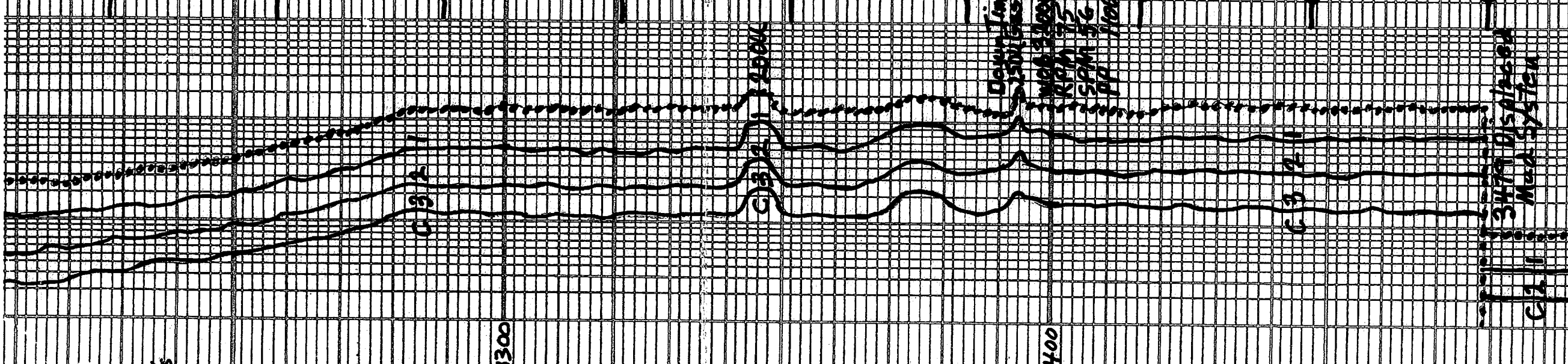
sub-chalk, sub-sucro to sucro +
 packstr.; oolitic IP's (tan to gray);
 dual. H. H. to brct. H. yel. fluor.
 No cut. with individual beds
 w/ abn. pe. fl. gd. + sl. tes. excel.
 micro-pp + inter. sh. por.

③ Shs med. to dek. gray; sl. to very
 calc. for silty IP's;

④ Siltstn. H. to med. gray; sl. to
 extly shly; sl. to v. calc IP's

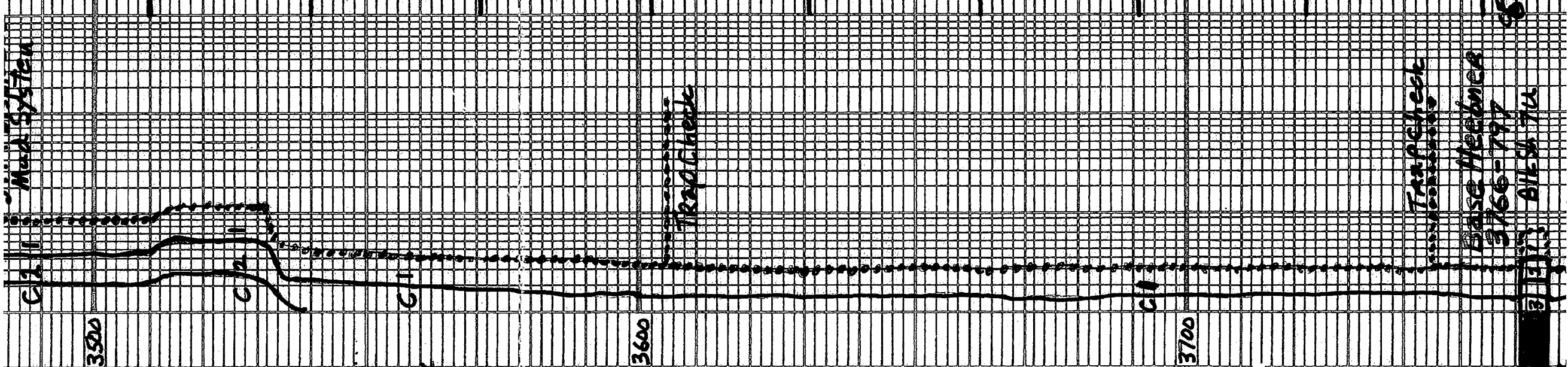
all samples w/ exte abn
 ORANGE to brick Red Shale
 Cavings from above
 Dalg w/ water + Native Mud

3479 Displaced water + Native
 mud For Good Chemical Mud
 System



mud For Good Chemical Mud System

Mud System



Interbedded Limestones and scattered thin beds shales
 ① Faster Dalg. lms. tan. to v. tan. wht to cream-chalk and tan, grayish lps crypto. to v. v. fin. xln. fine sub. blk. sub-succo. to succo. + fine pack. thin. tan lps phanton op. litic to tan. lps. 10% or more calc. lps. + fine bat. H. yel. fluor. No. calc. to zbn. p.a. to fr. + fine gd. to excel. micro-pp to inter. xtr. por

② Slower Dalg. lms. H. gray to grayish. tan - sh. to calc. sh. lps. crypto. to v. v. fin. xln. fine sub. blk. v. or sh. lps, fine sub-succo. pack. to sub-litho. graphitic. sub-lith. yel. fluor. lps. No. calc. No. U's por

③ Sh. med to dk. gray + fine v. dk. gray - calc. lps

Sh. v. dk. gray to black - carb. lms. tan to gray to v. tan. sub. calc. to fine sub. l. med

Trap Check
 Base Medina
 3766-777
 A.H.S.H. 712

Sh. v. dark gray to black - carb
Lms. tan; crypto to v. fine xlm. tes
sub-sucro. H. yel. fluor; No cut; No vis for
370-81 Sh. lt gray greenish H. yel
v. soft & mushy when wet
lms. hv. tes. whit to cam- chlk & tan
crypto. to v. v. fine xlm; sub- chlk,
sub-sucro & sucro. H. yel. fluor;
No cut w/ abn. pr. to ex. thuytes & d
micro-pp & prob. interbed. pore grad
to lms. H. gray, tanish IP's. grayish
sl. to fine shly; sub- chlk. w/ d. shly &
pachstn. tes. gul. H. yel. fluor; No cut
No vis for

Lms. tes. whit to cam- chlk & tan; crypto to
v. v. fine xlm; tes. sub- chlk; sub-sucro to
sucro. dul. H. yel. fluor; No cut; 2 bu.
pr. to ex. mic. r. oppor w/ poss.
interbed. pore gradng to ore
interbedded w/ lms. H. gray, tanish
IP's. crypto. to tes. v. v. fine xlm; sl.
shly IP's. tes. sub- chlk; tes. sub- sucro &
pachstn. to tes. sub- lithog. dul. H. yel
fluor. IP's; No cut; No vis for

Lms. H. gray. to tan; crypto. to v. fine
xlm; tes. sub- sucro. pachstn. 2nd 4th
sub- lithog. dul. H. yel. fluor. IP's
No cut; No vis for
Lms. hv. tes. whit to cam- chlk & tan
crypto. to v. v. fine xlm; tes. sub- chlk.
sub-sucro. to sucro. w/ abn. pachstn.
oolites. dul. H. to H. yel. fluor; No cut
hv. tes. to abn. pr. to ex. micro-pp. & pos
interbed. pore

3887-3923 Interbedded Lmst

① Faster Dalg. Similar 3871-3887

② Slower Dalg. Similar 3860-3871

3923-3929 Lms. H. gray to tan
crypto to v. v. fine xlm; sl. to fine
shly. IP's; sub-sucro. pachstn.
dul. H. yel. fluor; No cut; No vis for
3919-3934 Lms. tes. whit to cam-
chlk & tan to tan; crypto to v. fine
xlm; tes. sub- chlk; sub-sucro
to sucro. fa. o. i. w/ sulf. & o. d. i. yel
fluor. w/ sh. m. l. to d. a. m. 2 cuts. 2 bu.
fa. to d. micro-pp. prob. interbed. pore
3934-49 Lms. H. gray, greenish tan to tan
crypto. to v. v. fine xlm; sub- chlk; sub- sucro
& pachstn. dul. H. yel. fluor. IP's;
No cut; No vis for

Lms. hv. tes. whit to cam- chlk & tan to tan
crypto to v. v. fine xlm; tes. sub- chlk; sub- sucro
to sucro. fa. o. i. w/ sulf. & o. d. i. yel
fluor. w/ sh. m. l. to d. a. m. 2 cuts. 2 bu.
fa. to d. micro-pp. prob. interbed. pore

3860-66 Lms similar 3934-3944

3966-83 Lms tan, grayish. IP's. crypto to
v. v. fine xlm; sl. to fine chlk; tes. sub- sucro
sub-sucro to sucro. pachstn. hv. tes. pachstn.
oolites. dul. H. yel. fluor. No cut
scattered tes. pr. mic. r. opp. pore

3983-4001 Interbedded Limestones

① Faster Dalg. similar 3966-3983

② Slower Dalg. similar 3934-3944

Lms. tes. cam. to whit - chlk & tan to tan
crypto to v. v. fine xlm. sub- chlk; sub- sucro
to sucro. fa. o. i. w/ sulf. & o. d. i. yel
fluor. w/ sh. m. l. to d. a. m. 2 cuts. 2 bu.
fa. to d. micro-pp. prob. interbed. pore
3961-2.6 Lms. tes. whit to cam- chlk & tan
to tan; crypto to v. v. fine xlm; tes. sub- chlk
sub-sucro to sucro & pachstn. pachstn. oolites
to v. v. fine xlm; tes. sub- chlk; sub- sucro
to sucro. fa. o. i. w/ sulf. & o. d. i. yel
fluor. w/ sh. m. l. to d. a. m. 2 cuts. 2 bu.
fa. to d. micro-pp. prob. interbed. pore
4026-35 Lms. tan, grayish IP's. to fine
v. v. fine xlm; sub- chlk; sub- sucro
to sucro. fa. o. i. w/ sulf. & o. d. i. yel
fluor. IP's; No cut; No vis for

3766-797
3773
3781-812

Lansing Fm
3871-842

3800

3900

3900

3900

3900

3900

3900

3900

3900

3900

3900

4026-35 Lms. tan grayish, IP's, crypt. to v. fine. x10
4035-46 Lms. tan, grayish, IP's, crypt. to v. fine. x10
4046-50 Lms. tan, grayish, IP's, crypt. to v. fine. x10
Lms. similar 4026-4035 w/ tan to tan
phantom oolites

Lms. tan to H. gray; crypto. to v. fine. x10;
sub. sub-chalk, sub-succo. oolitic; sub. H. yellow
No cut, No Vis. Por.

Lms. abn. wht. to cream, chalk grayish, tan to tan
crypto. to v. fine. x10; v. to v. fine. oolitic
sub-chalk, sub-succo. oolitic; sub. H. yellow
No cut, No Vis. Por.

Lms. similar 4083-4100 w/ less
oolitic & more oolitic

Lms. tan, grayish, IP's, crypto. to v. fine. x10
tan, sub-chalk, sub-succo. oolitic; sub. H. yellow
No Vis. Por.

Sh. med. to dark gray, sl. to ext. calc. IP's
4042-75 Int. embedded Lm's
Foot. D. Lms. tan, wht. to cream, chalk & tan
crypto. to v. fine. x10; sub. sub-chalk, sub-succo.
oolitic; sub. H. yellow, sub. H. yellow, sub. H. yellow
No cut, No Vis. Por.

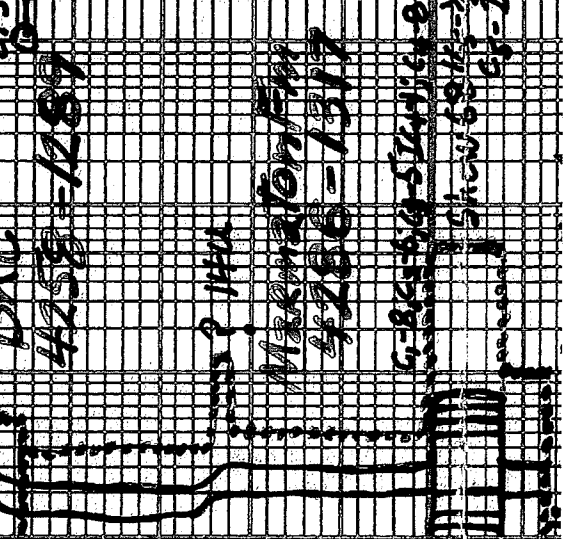
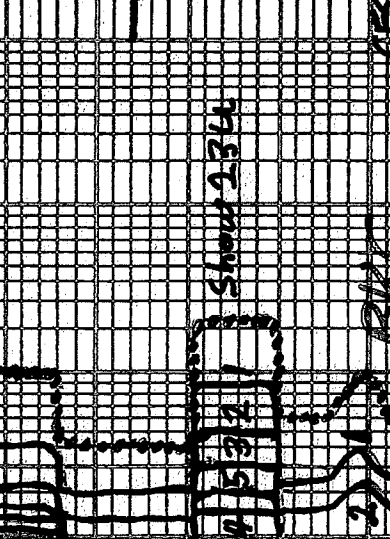
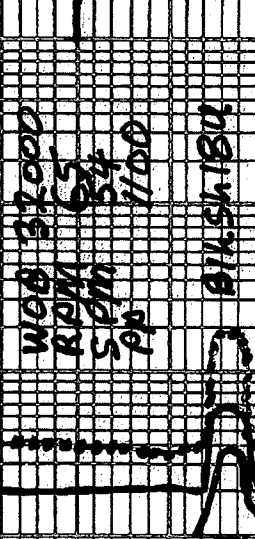
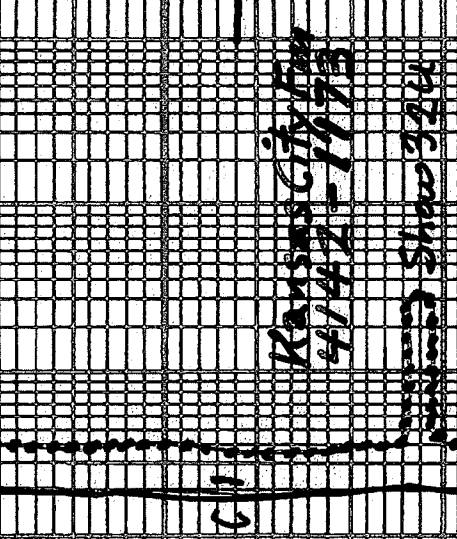
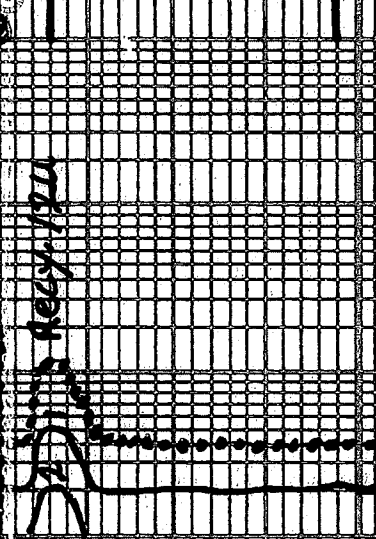
Sh. v. dark gray to black - 6386
Int. embedded limestone w/ scattered
oil shows similar 4042-4075

Lms. similar #2 description 4042-4075

Lms. tan to H. gray; crypto. to v. fine. x10
sl. shly IP's, tan, sub-chalk, sub-succo. oolitic
No Vis. Por.
4231-40 Lms. tan, wht. to cream, chalk &
tan, to tan, crypto. to v. fine. x10; v. to
ext. oolitic; sub. sub-chalk, sub-succo. oolitic
No cut, No Vis. Por.

4240-4258 Lms. similar 4216-4231
4258-4286 Sh. med. to v. dark gray;
sl. to ext. calc. IP's

4286-4300 Lms. H. gray to tan
crypto. to v. fine. x10; sub-succo.
oolitic; sub. H. yellow, sub. H. yellow
No cut, No Vis. Por.
4300-08 Lms. tan, wht. to cream, chalk
& tan, crypto. to v. fine. x10; v. to
ext. oolitic; sub. sub-chalk, sub-succo. oolitic
No cut, No Vis. Por.



Tas. sub-chalk, sly supps to success
of chert in 26m. s. to base of chert
to base of oil stn, shaly oil-slicker, sandy
bedded, yellow, gray, white, blue, green,
etc. in 26m. part, no fossil. calc. chert, sand
+ heavy clay part. to base of 26m. part
part w/ this part. in grey part
26m. w/ 6m. ext. part.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4308-44 Interebedded limests + shs
Lms tan, grayish, ls, crypto to u.v. faintly
sub-fused to a block, part of them opaline
ls; dark gray, sh. no cut, both ls + sh.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

Lms. med. gray - v. to ext. sh. gray, calc. ls
crypto to u.v. faintly, sub-calc. sub-sensu
to sub-calc. part, sh. sub-calc. sh. phenom.
part, ls. w/ heavy, sh. sub-calc. ls

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

sp. to open oil stn, w/ dark gray, calc. ls
to sub-calc. part, sh. sub-calc. sh. phenom.
part, ls. w/ heavy, sh. sub-calc. ls

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4347-49 Interebed. lms + sh. similar to 4308-44
sh. med. to dark gray, calc. to v. black gray
to black - carb
4372-76 lms. tan, whit. to cam. chalk + tan
w/ 26m. sp. to mostly even dark. tan to
v. black, sh. to calc. ls + sh. to calc. ls
9 dm. v. sh. sup. w/ faint sub-calc. ls
sh. to open oil stn, w/ dark gray, calc. ls
to sub-calc. part, sh. sub-calc. sh. phenom.
part, ls. w/ heavy, sh. sub-calc. ls

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4376-4395 Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb. looking

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4400
sh. v. dark gray to black - carb.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4500
Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4500
Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4500
Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4500
Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4500
Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4500
Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

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RPM 65-70
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Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

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Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4500
Interebedded lms + sh + ls
Similar to 4308-4344
sh. v. dark gray to black - carb.

4300
Tas. Chert
WDB 31000-36000
RPM 65-70
SPM 54
PP 1100

4628-4637 Sh. med. grey to
 v. abn H. gran, olive grey, dk
 grey, blue gran. v. silty IP's
 w/ traces H. gran. to gran silty IP's
 v. fr. silty, shale filled IP's
 → 4637-47 @ 72 Sst. tan to brn. from
 oil stn.; y. br. fr. to res. med. gr. arg
 pr. to oil solid, fair oil order,
 glau. yel. flupe. w/ flush to argol. strong
 cuts abn pr. fr. to glau. into arg. por.
 v. calc. to v. abn loose @ 72. Gas. clear
 what to some. In some oil stn

4647-4691 Interbedded Yon Gradational
 Shales & Silty Stns.

① Sh. med to dk. grey; silty to earthy
 Silty IP's

② Silty stn. med. grey v. to earthy shly
 w/ traces H. gran - clay filled w/ traces H. gran.
 to green, glauc. Yon chlorite filled

lms. H. gran, H. green to tan; crypto to v. shly
 v. to earthy micae - calcitic. trace silty. to earthy.
 calc. silty - v. fr. silty - arg. to earthy
 chlk; sub-chlk; sub-succo to the succo
 dul. H. yel. floor; No cut; Dol's for

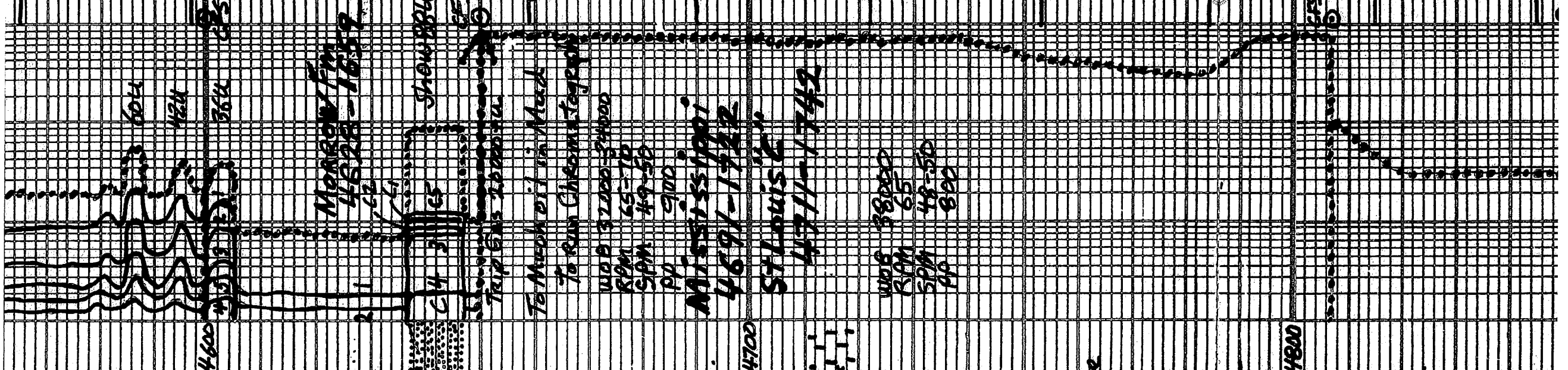
4711-19 lms. tan - green - chlk w/ chlk oolites
 & tan; w/ abn. got to even. lms. oolite
 empty calcitic IP's (silty, med. to earthy)
 sub-succo to succo w/ w/ traces w/ abn. micae
 and abn. sized to succo to
 Succo, w/ phantom oolites to the oolites
 yel. to glau. yel. flupe, flush to excel
 extending cuts; faint oil order,
 abn. succo. & succo micae w/ petole
 & 72.9d; micae to succo micae
 Por. & hyst. w/ No micae
 hyst. to abn. loose oolites

4719-4767 lms. tan, trace grey; crypto
 to U. v. fr. clay; trace chlk, trace succo
 sub-succo & pachy - abn. phantom
 calcitic to abn. calcitic succo med. v. fr.
 hyst. traces. sub-litho micae; H. gran; yel.
 floor; No cut; No v. fr. por; tan; sub-litho micae
 increases with depth

4767-4824 lms. similar 4719-4767
 w/ interbeds lms. whit. to cream;
 crypto. xlm. chlk. to sub-chlk
 w/ abn. w/ chlk. oolites IP's; dul. yel
 floor; No cut; No v. fr. Be; w/ trace heart
 gny. to tan oppe

4824-4850 lms. similar 4767-4824
 becoming dolomitic IP's

TD 4850



TD 4850

7 7/8" Bit Info
 #1 New STC FI-18H 1700 4060
 #2 ReRun STC FI-18Y 4060 4850TD

Cin. Points
 1. 3760 5. 4255 9. 4600
 2. 3960 6. 4313 10. 4650
 3. 4020 7. 4348 11. 4806
 4. 4060 8. 4385 12. 4850TD

Dev. Survey
 1. 1710 1/2 3. 4255 3/4 5. 4850 1/2
 2. 4060 1/2 4. 4650 1/2

Daily Drilg Progress

1.	2025	7:00 AM	6-10-2014
2.	2400	2:29 PM	6-10-2014
3.	2645	7:00 AM	6-11-2014
4.	3244	7:00 AM	6-12-2014
5.	3706	7:00 AM	6-13-2014
6.	4060	7:00 AM	6-14-2014
7.	4060	7:00 AM	6-15-2014
8.	4255	7:00 AM	6-16-2014
9.	4313	7:00 AM	6-17-2014
10.	4313	7:00 AM	6-18-2014

11	4385	7:00 AM	6-19-2014
12	4526	7:00 AM	6-20-2014
13	4650	7:00 AM	6-21-2014
14	4697	7:00 AM	6-22-2014
15	4850TD	7:00 AM	6-23-2014

DST #1 Lansing "G" 4018 - 4032
 IO v. weak surf. blow, built to 2 inches
 FO No Blow Max Temp 105°F
 Rec 5' 100% Mud with spotty oil

Tool Samp. 100% Mud w/ spotty oil
 IHP 1873# FFP 4 to 15 min 30 min
 IFP 1729# in 15 min FSIP 382 in 60 min
 ISIP 383# in 30 min FHP 1852#

DST #2 Kansas City "C" 4132 - 4255
 IO weak surf. blow built to 4 inches
 FO v. weak surf. blow built to 6 inches
 Rec 270' Sli. Mud cut XW 912 XW 92 Mud
 Chl 44000 ppm PiTchl 4400 ppm pH 8.2
 R w. 22 @ 92°F Max Temp 108°F
 Tool Samp. Tr. Oil 1742 sulfate w/Tr 262 Mud
 IHP 2001# FFP 596.132# in 60 min
 IFP 8755# in 30 min FSIP 725# in 120 min
 ISIP 723# in 60 min FHP 1985#

DST #3 Maramaton "B" 4295 - 4313
 IO BOB 5 min FO BOB 1 min
 Rec 1155' GIP + 120' Total Fluid
 30' sli. cut WCM 4% oil 32 w/Tr 932 Mud
 90' Sli. Mud cut surf. w/Tr. Oil 88% w/Tr 145 Mud
 Chl 48000 ppm PiTchl 4000 ppm
 pH 6.5 R w. 18276°F Max Temp 108°F
 Tool Samp. 302 oil 592 w/Tr 112 Mud
 IHP 1957# FFP 446.83# in 60 min
 IFP 19760# in 30 min FSIP 3012# in 120 min
 ISIP 290# in 60 min FHP 1950

DST #4 Pawnee 4365 - 4385
 IO surf. blow built to 10 1/2 inches
 FO w. surf. blow built to BOB 35 1/2 min
 Rec 635' GIP + 80' sli. w/Tr. cut mud w/ Seawater
 62 Gas Seawater Oil 122 w/Tr 822 Mud

FO w/ surf. blow built to BOB 35 1/2 min
 Rec 635' GIP + 80' sl. w/te cut mud by secum oil
 6% Gas Secum. Oil 12% w/te 82% Mud
 Chl 28000 ppm Pitchl 5100 ppm
 pH 8.5 Rw. 22 @ 84°F Max Temp 110°F
 Tool Sample Secum Oil 412 w/te 573 Mead
 IHP 2045# FFP 28 to 46 in 60 min
 IFP 87 to 25# in 30 min FHP 235# in 120 min
 ISIP 230# in 60 min FHP 2043

DST #5 MORROWSD 4606-4650
 TO BOB 30 Sec Blowback BOB
 FO BOB 45 Sec Blowback BOB
 Gas To Surface During ISIP
 Rec 1730' GIP + 2845 Total Fluid
 725' KGIO 232 G. 77% O Grav. 26% API
 1945' G. Si: MCO 1225 85% O 3 M.
 175' G. to CM 226 29% O 69% M
 Tool Sample 98% oil 2% Mud

IHP 2151#
 IFP 324 to 829# in 30 min
 ISIP 1115# in 60 min
 FFP 858 to 1069# in 60 min
 ESIP 1102# in 120 min

Flow Time	Flow Ck	Final Flow inches H ₂ O	MLFPD
10	1/4	2	2.37
20	1/4	2	2.37
30	1/4	3	2.92
40	1/4	3	2.92
50	1/4	5	3.71
60	1/4	6	4.12

Mud Info:

Date	6-8	6-9	6-10	6-11	6-12	6-13	6-14	6-15
Wt	9.5	9.3	9.55	9.8	9.8	8.7	8.9	8.95
Vis	30	28	30	32	32	46	45	46
PV	3	1	2	3	3	14	14	14
YP	3	2	4	4	4	15	14	15
GS	3/4	1/2	3/4	3/4	3/4	1 1/4	1 3/4	1 1/2
WL	N/C	N/C	N/C	N/C	N/C	7.6	8.0	8.4
Cake	-	-	-	-	-	1/32	1/32	1/32
pH	7.0	7.0	7.0	7.0	7.0	10.5		10.5
Chl	1500	6600	4000	28800	2300	2900	2900	2300
Ca	1120	N/C	HVY	HVY	HVY	20	20	20
LCM	1/2	0	3 1/2	1 1/2	2	1 1/2	2	2

Date	6-16	6-17	6-18	6-19	6-20	6-21	6-22	6-23
Wt	9.0	9.1	9.1	9.25	9.1	9.1	9.0	9.1
Vis	48	50	45	62	50	60	54	48
PV	15	16	14	18	16	20	17	15

Date	6-8 9:50A	6-9	6-10 9:35A	6-11 9:00A	6-12 8:35A	6-13 8:10A	6-14 7:55A	6-15 8:00A
Depth	1111 1200	N 0	1101 1100	1101 1100	1101 1100	1101 1100	1101 1100	1101 1100
WT	9.5	R	9.3	9.55	9.8	8.7	8.9	8.95
Vis	30	E	28	30	32	46	45	46
PV	3	P	1	2	3	14	14	14
YP	3	R	2	4	4	15	14	15
GS	3/4	T	1/2	3/4	3/4	15/46	13/43	14/43
N/C	N/C	R	N/C	N/C	N/C	7.6	8.0	8.4
Calc	-	I	-	-	-	1/32	1/32	1/32
pH	7.0	LW	7.0	7.0	7.0	10.5		10.5
CHI	1500	1120	6600	4000	2880	2300	2900	2300
Ca	1120	N ^c	HVY	HVY	HVY	20	20	20
LCM	1/2	T _h	0	3 1/2	1 1/2	2	1 1/2	2

Date	6-16 8:20A	6-17 8:30A	6-18 11:55A	6-19 11:55A	6-20 11:55A	6-21 11:55A	6-22 11:45A	6-23 5:40A
Depth	4255	4313	4925	4385	4560	4650	4787	4850
WT	9.0	9.1	9.1	9.25	9.1	9.1	9.0	9.1
Vis	48	50	45	62	50	60	54	48
PV	15	16	14	18	16	20	17	15
YP	16	18	15	21	17	20	18	16
GS	1/47	1/50	14/45	17/52	16/49	18/55	18/53	15/46
N/C	8.4	10.0	10.4	9.2	9.2	8.4	8.8	7.9
Calc	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	10.0	9.5	9.0	10.5	10.5	11.0	11.0	11.0
CHI	4100	4000	4300	5100	2500	2800	4300	4300
Cz	20	20	20	20	20	20	20	20
LCM	2	2	2	2	2	2	2	2

OPERATOR Berexco LLC LOCATION 1644' FSL + 351' FWL
 LEASE Timothy SEC. 16 TWP 22 S RANG. 34 W
 ELEVATION 2969 HB RTD 4850 COUNTY Finney STATE Kansas