



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1227877  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_



1227877

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
--	---

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)*

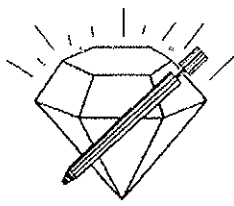
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
STC/Mathias1dst1

Company Webco Oil Company, Inc. Lease & Well No. Mathias No. 1  
Elevation 1904 KB Formation Lansing "G" Effective Pay \_\_\_\_\_ Ft. Ticket No. J3194  
Date 3-7-14 Sec. 12 Twp. 16S Range 12W County Barton State Kansas  
Test Approved By Wyatt Urban Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,127 ft. to 3,147 ft. Total Depth 3,147 ft.  
Packer Depth 3,122 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,127 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,130 ft. Recorder Number 30046 Cap. 6,000 psi.  
Bottom Recorder Depth (Outside) 3,144 ft. Recorder Number 13498 Cap. 6,000 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 2 Drill Collar Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 50 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 8.9 Water Loss 8.0 cc. Drill Pipe Length 3,107 ft I.D. 3 1/2 in.  
Chlorides 2,000 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 20 ft. Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, 1 in. blow decreasing to a surface blow. No blow back during shut-in.

2nd Open: Fair blow increasing to 4 ins. No blow back during shut-in.

Recovered 130 ft. of gas in pipe  
Recovered 50 ft. of slightly oil & gas cut mud = .711500 bbls. (Grind out: 10%-gas; 3%-oil; 87%-mud)  
Recovered 50 ft. of TOTAL FLUID = .711500 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks Tool Sample Grind Out: 4%-oil; 96%-mud

Time Set Packer(s) 9:10 A.M. Time Started off Bottom 11:55 A.M. Maximum Temperature 100°  
Initial Hydrostatic Pressure.....(A) 1492 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 15 P.S.I. to (C) 21 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 443 P.S.I.  
Final Flow Period.....Minutes 60 (E) 24 P.S.I. to (F) 35 P.S.I.  
Final Closed In Period.....Minutes 45 (G) 436 P.S.I.  
Final Hydrostatic Pressure.....(H) 1479 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: WEBCO

Contact: NICK WEBER

Phone: Fax: e-mail:

### Site Information:

Contact: WYATT URBAN

Phone: Fax: e-mail:

### Well Information:

Name: MATHIAS #1

Operator: WEBCO

Location-Downhole:

Location-Surface: S12/16S/12W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: WYATT URBAN

Test Type: DST #1 CONVENTIONAL Job Number: J3194

Test Unit:

Start Date: 2014/03/07 Start Time: 07:40:00

End Date: 2014/03/07 End Time: 13:30:00

Report Date: 2014/03/07 Prepared By: JOHN RIEDL

Remarks: Qualified By: WYATT URBAN

RECOVERY: 130' GAS IN PIPE, 50' SLIGHTLY OIL+GAS CUT MUD

WEBCO

Start Test Date: 2014/03/07

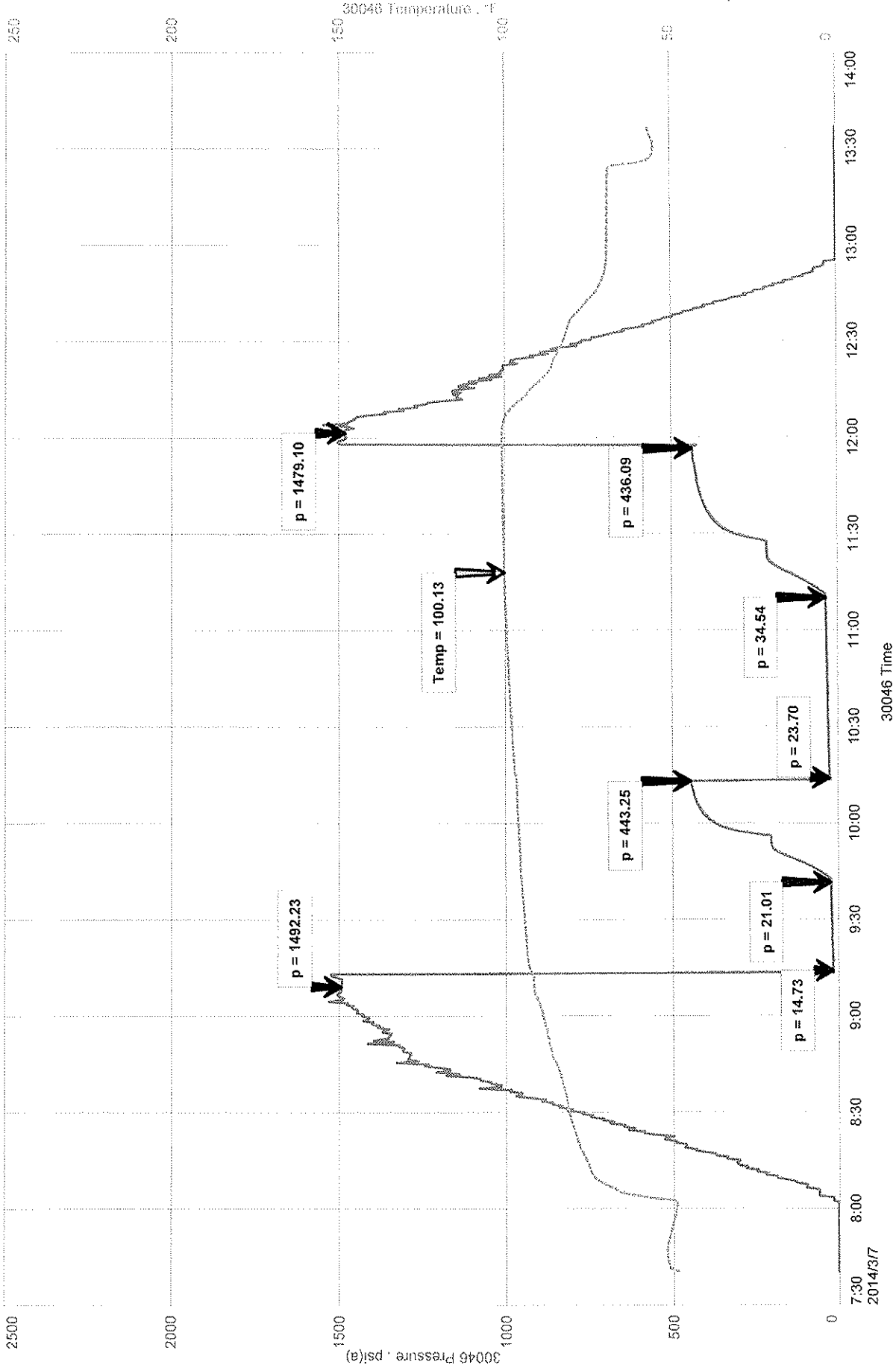
Final Test Date: 2014/03/07

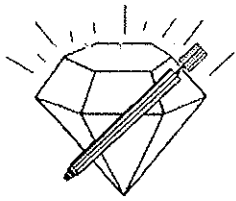
# MATHIAS #1

MATHIAS #1

Formation: LANSING "G"

Job Number: J3194





**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
STC/Mathias1dst2

Company Webco Oil Company, Inc. Lease & Well No. Mathias No. 1  
Elevation 1904 KB Formation Lansing "H" - "J" Effective Pay \_\_\_\_\_ Ft. Ticket No. J3195  
Date 3-8-14 Sec. 12 Twp. 16S Range 12W County Barton State Kansas  
Test Approved By Wyatt Urban Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,202 ft. to 3,275 ft. Total Depth 3,275 ft.  
Packer Depth 3,197 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,202 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,205 ft. Recorder Number 30046 Cap. 6,000 psi.  
Bottom Recorder Depth (Outside) 3,272 ft. Recorder Number 13498 Cap. 6,000 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 2 Drill Collar Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 55 Weight Pipe Length \_\_\_\_\_ ft. I.D. \_\_\_\_\_ in.  
Weight 9.2 Water Loss 8.0 cc. Drill Pipe Length 3,182 ft. I.D. 3 1/2 in.  
Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 73 ft. Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, 1/2 in. blow decreasing to 1/4 in. No blow back during shut-in.

2nd Open: Very weak, 1/4 in. blow. Died in 20 mins. No blow back during shut-in.

Recovered 20 ft. of oil specked drilling mud = .284600 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 3:30 A.M. Time Started off Bottom 6:00 A.M. Maximum Temperature 96°  
Initial Hydrostatic Pressure.....(A) 1535 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 13 P.S.I. to (C) 16 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 470 P.S.I.  
Final Flow Period.....Minutes 45 (E) 17 P.S.I. to (F) 21 P.S.I.  
Final Closed In Period.....Minutes 45 (G) 451 P.S.I.  
Final Hydrostatic Pressure.....(H) 1522 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: WEBCO

Contact: NICK WEBER

Phone: Fax: e-mail:

### Site Information:

Contact: WYATT URBAN

Phone: Fax: e-mail:

### Well Information:

Name: MATHIAS #1

Operator: WEBCO

Location-Downhole:

Location-Surface: S12/16S/12W

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: WYATT URBAN

Test Type: DST #2 CONVENTIONAL Job Number: J3195

Test Unit:

Start Date: 2014/03/08 Start Time: 02:20:00

End Date: 2014/03/08 End Time: 07:40:00

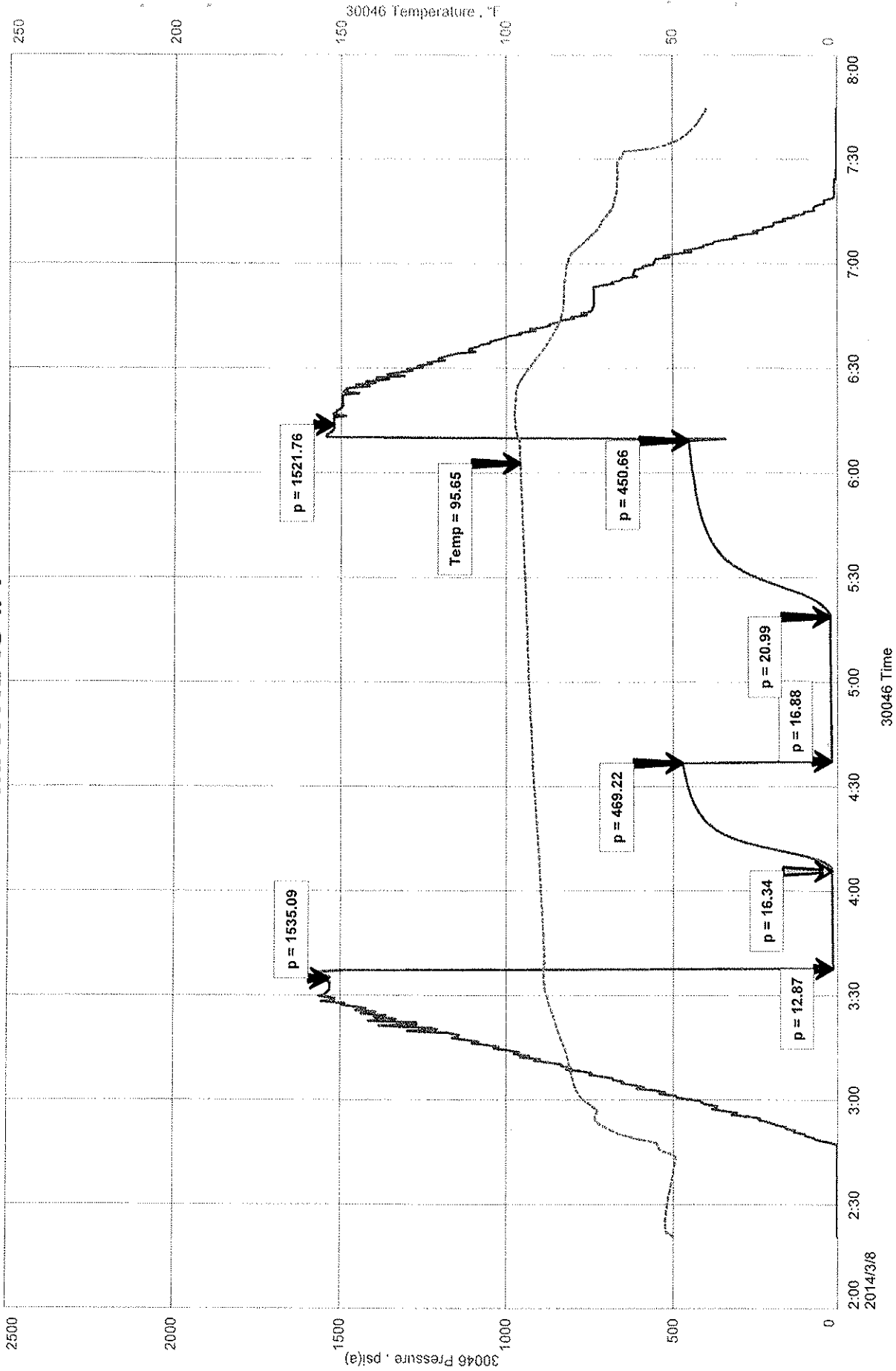
Report Date: 2014/03/08 Prepared By: JOHN RIEDL

Qualified By: WYATT URBAN

### Remarks:

RECOVERY: 20' OIL SPECKED DRILLING MUD

# MATHIAS #1





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7168

Date	3-3-14	Sec.	12	Twp.	16	Range	12	County	Barton	State	Ks	On Location		Finish	11:15PM
Location													Beaver Ks - 3E to Odin Blacktop		

Lease	Mathias		Well No.	1	Owner	2 1/4 N E 1 into	
Contractor	Southwind #2		To Quality Oilwell Cementing, Inc.			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	Surface		Charge To			Webco oil Company	
Hole Size	12 1/4"	T.D.	389'		Street		
Csg.	8 5/8"	Depth	389'		City		
Tbg. Size		Depth			State		
Tool		Depth			The above was done to satisfaction and supervision of owner agent or contractor.		
Cement Left in Csg.	15'	Shoe Joint	15'		Cement Amount Ordered		
Meas Line		Displace	23 3/4		200 Com 3% cc 2% Gel		

**EQUIPMENT**

Pumptrk	5	No.	Cementer		Common	200
			Helper	Lonnie W.	Poz. Mix	
Bulktrk	14	No.	Driver	Clayton	Gel.	4
			Driver		Calcium	7
Bulktrk	p.u.	No.	Driver	Rick		

**JOB SERVICES & REMARKS**

Remarks	Cement did Circulate	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	

Big Reported fluid loss ran an extra 20 sx of Cement.

**FLOAT EQUIPMENT**

Handling	211
Mileage	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge Surface  
Mileage 32

X Signature *William Sanders*

Tax  
Discount  
Total Charge



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 3/3/2014  
 Invoice # 7168

P.O.#:

Due Date: 4/2/2014  
 Division: Russell

# Invoice

**Contact:**

Webco Oil Company  
 Address/Job Location:  
 Webco Oil Company  
 2136 NE 90th Ave  
 Hoisington Ks 67544

**Reference:**

MATHIAS 1

**Description of Work:**

SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	200	\$ 3,352.94	Yes				
Bulk Truck Matl-Material Service Charge	211	\$ 471.65	No				
Calcium Chloride	7	\$ 435.46	Yes				
Pump Truck Mileage-Job to Nearest Camp	32	\$ 356.93	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	32	\$ 208.87	No				
Premium Gel (Bentonite)	3	\$ 54.59	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 5,900.98

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (885.15)

SubTotal for Taxable Items: \$ 3,266.54

SubTotal for Non-Taxable Items: \$ 1,749.29

Total: \$ 5,015.83

Tax: \$ 233.56

7.15% Barton County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 5,249.39**

**Applied Payments:**

**Balance Due: \$ 5,249.39**

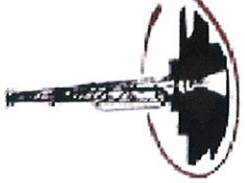
Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

©2008-2013 Straker Investments, LLC. All rights reserved.

*paid 3-10-14*  
*ck # 12612*  
*N.R.*





# Mudgrove

**PETROLEUM CORPORATION**  
Clifton, Kansas

## NOTES

Company: Webco Oil Company, Inc.

Lease: Mathias #1

Field: Kraft-Prusa

Location: NE-NW-SW (1269' FSL & 345' FWL)

Sec: 12 Twsp: 16S Rge: 12W

County: Barton State: Kansas

KB: 1904' GL: 1895'

API #: 15-009-25946-00-00

Contractor: Southwind Drilling, Inc. ( Rig # 2)

Spud: 03/01/2014 Comp: 03/08/2014

RTD: 3355'

Mud Up: 2500' Type Mud: Chemical

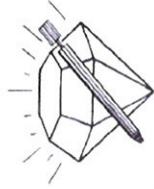
Samples Saved From: 2600' to RTD  
Drilling Time Kept From: 2600' to RTD  
Samples Examined From: 2600' to RTD  
Geological Supervision from: 2850' to RTD  
Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8@ 388'

Electronic Surveys: None

## WEBCO OIL CO. WELL COMPARISON

DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
Webco Oil-Mathias #1				Webco Oil- Weber A #8				Webco Oil-Weber A			
NE-NW-SW				C-NE-SE-SE				C-SE-NW-SW			
12-16S-12W				11-16S-12W				12-16S-12W			
1904 KB				1902 KB				1894 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Log
Topeka	2658	-754									
Hebner	2945	-1041		2948	-1046			2688	-794	40	
Toronto	2957	-1053	1904								
Douglas	2974	-1070	1904								
Brown Lime	3036	-1132	1904								
Lansing	3050	-1146	1904	3050	-1148	2	3052	3048	-1154	8	
BKC	3308	-1404	1904					3295	-1401	-3	
Arbuckle	3349	-1445	1904					3308	-1414	-31	
RTD	3328	-1424	1904					3313	-1419	-5	
LTD											



**DIAMOND TESTING**  
P.O. Box 157  
HOISINGTON, KANSAS 67544  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: STCMathias1dst1

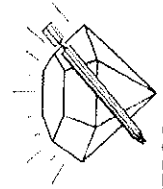
TIME ON: 07:40 3/7/2014  
TIME OFF: 13:30 3/7/2014

Company: WEBCO Lease & Well No. MATHIAS #1  
Contractor: SOUTHWIND DRLG RIG 2 Charge to WEBCO  
Elevation: 1904 K.B Formation: LANSING "G" Effective Pay:          Ft. Ticket No. j3194  
Date: 3/07/14 Sec: 12 Twp: 16 S Range: 12 W County: BARTON State: KANSAS  
Test Approved By: WYATT URBAN Diamond Representative: JOHN RIEDL

Formation Test No. 1 Interval Tested from: 3127 ft. to 3147 ft. Total Depth 3147 ft.  
Packer Depth 3122 ft. Size 6 3/4 in. Packer depth          ft. Size 6 3/4 in.  
Packer Depth 3127 ft. Size 6 3/4 in. Packer depth          ft. Size 6 3/4 in.  
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3130 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
 Bottom Recorder Depth (Outside) 3144 ft. Recorder Number 13498 Cap. 6000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type CHEMICAL Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 8.9 Water Loss 8 Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 2,000 P.P.M. Drill Pipe Length 3107 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 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: WEAK (1" DECREASING TO SURFACE BLOW) NO BB  
 2nd Open: FAIR (BUILDING THROUGHOUT TO 4") NO BB  
 Recovered 130 ft. of GIP  
 Recovered 50 ft. of SLOGGM (3%OIL 10%GAS 87%MUD)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Price Job \_\_\_\_\_  
 Other Charges \_\_\_\_\_  
 Insurance \_\_\_\_\_  
 Total \_\_\_\_\_  
 Remarks: TOTAL FLUID REC:50" IN DRILL PIPE  
 TOOLSAMPLE GRINDOUT: 4%OIL 96%MUD

Time Set Packer(s) 9:10 A.M. Time Started Off Bottom 11:55 A.M. Maximum Temperature 100  
 Initial Hydrostatic Pressure (A) 1492 P.S.I.  
 Initial Flow Period (B) 30 Minutes 15 P.S.I. to (C) 21 P.S.I.  
 Initial Closed In Period (D) 30 Minutes 443 P.S.I.  
 Final Flow Period (E) 60 Minutes 24 P.S.I. to (F) 35 P.S.I.  
 Final Closed In Period (G) 45 Minutes 436 P.S.I.  
 Final Hydrostatic Pressure (H) 1479 P.S.I.



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: STCMathias1ds12

TIME ON: 02:20 3/8/2014  
 TIME OFF: 07:40 3/8/2014

Company WEBCO Lease & Well No. MATHIAS #1  
 Contractor SOUTHWIND DRLG RIG 2 Charge to WEBCO  
 Elevation 1904 K B Formation LANSING "H.I.J." Effective Pay Ft. Ticket No. j3185  
 Date 3/08/14 Sec 12 Twp 16 S Range 12 W County BARTON State KANSAS  
 Test Approved By WYATT URBAN Diamond Representative JOHN RIEDL

Formation Test No. 2 Interval Tested from 3202 ft. to 3275 ft. Total Depth 3275 ft.  
 Packer Depth 3197 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.  
 Packer Depth 3202 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3205 ft. Recorder Number 30046 Cap. 6000 P.S.I.  
 Bottom Recorder Depth (Outside) 3272 ft. Recorder Number 13498 Cap. 6000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type CHEMICAL Viscosity 55 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 8 Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 3,000 P.P.M. Drill Pipe Length 3252 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 73 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 (1/2" DECREASING TO SURFACE BLOW) NO BB  
 2nd Open: VERY WEAK (1/4" DEAD IN 20 MINUTES) " "

Recovered 20 ft. of OILSPECKED DRILLING MUD  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Price Job \_\_\_\_\_  
 Other Charges \_\_\_\_\_  
 Insurance \_\_\_\_\_  
 Total \_\_\_\_\_  
 Remarks: TOTAL FLUID REC:20" IN DRILL PIPE  
 TOOLSAMPLE GRINDOUT: 100% MUD

Time Set Packer(s) 3:30 A.M. Time Started Off Bottom 6:00 A.M. Maximum Temperature 96  
 Initial Hydrostatic Pressure (A) 1535 P.S.I.  
 Initial Flow Period (B) 30 Minutes 13 P.S.I. to (C) 16 P.S.I.  
 Minutes 30 470

Initial Closed In Period: \_\_\_\_\_ P.S.I.  
 Final Flow Period: 45 (E) 17 P.S.I. to (F) 21 P.S.I.  
 Final Closed In Period: 45 (G) 451 P.S.I.  
 Final Hydrostatic Pressure: \_\_\_\_\_ (H) 1522 P.S.I.

**ROCK TYPES**

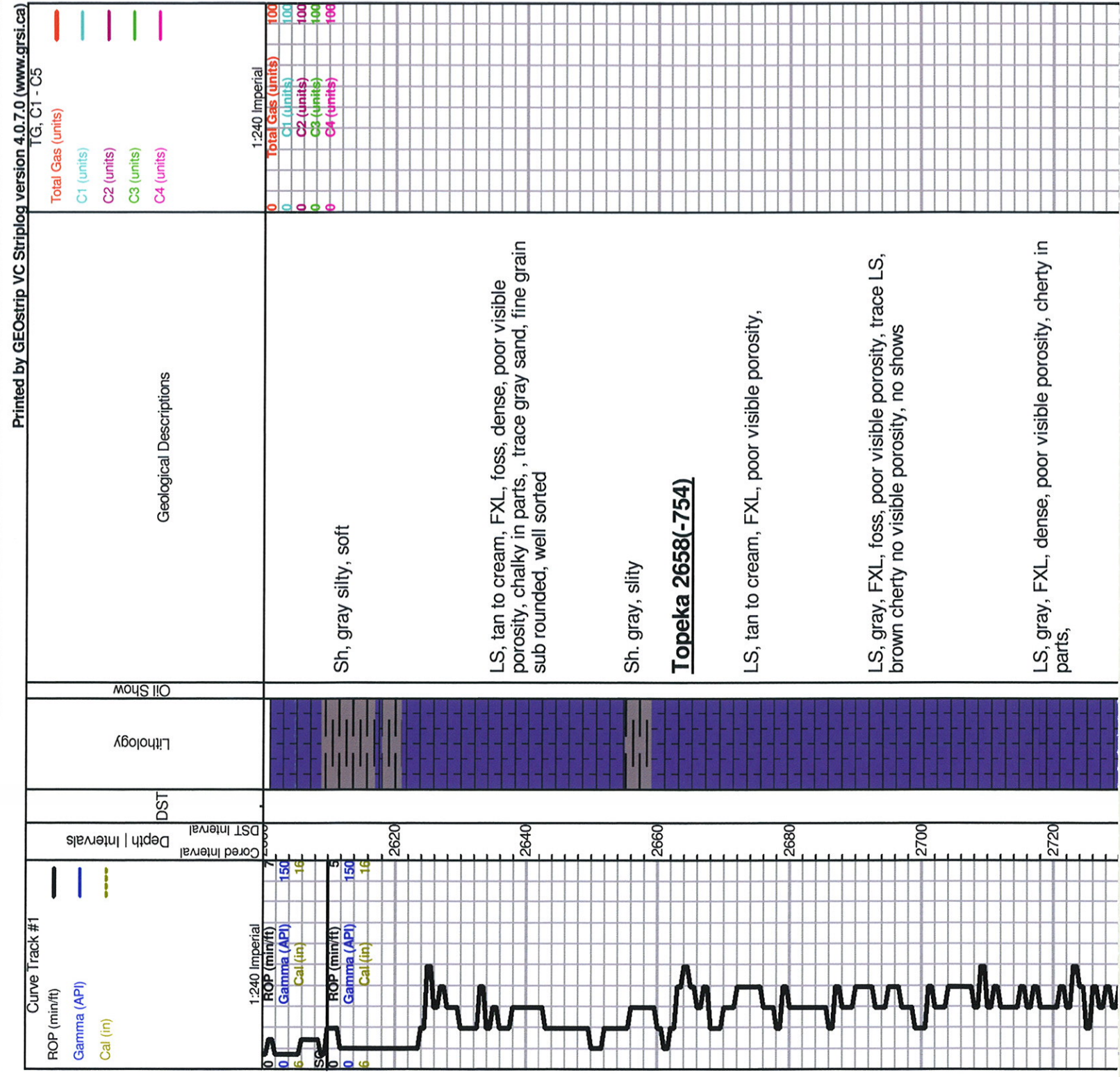
	Chitcong Doloprim		Dolsec Lmst fw<7		shale, grn		Carbon Sh shale, red		Shool
	shale, grn		shale, grn		shale, grn		shale, grn		shale, grn

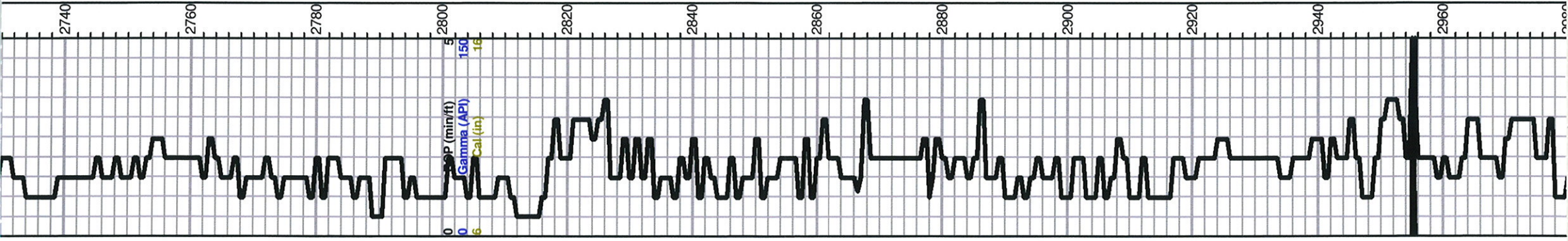
**ACCESSORIES**

<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
φ Oolite	~~~~ Chert	C Chalky
		FX FinexIn

**OTHER SYMBOLS**

	Good Show		DST Int
	Fair Show		DST alt
	Poor Show		Core
	Spotted or Trace		tail pipe
	Questionable Stn		
	Dead Oil Stn		
	Fluorescence		
	Gas		





LS, gray, tan, FXL, poor scattered porosity, chalky, few  
foss, trace gray silty sh.

LS, gray, cream, FXL dense, poor vis porosity

Sh. gray greenish, maroon, silty,

LS, gray, foss, FXL, poor visible porosity, trace  
maroon, sh. silty, soft,

Black carb Sh .

LS, gray to tan, FXL, dense, poor visible porosity, no  
shows, trace tan chert

LS, gray, FXL, poor -fair visible porosity, chalky, in  
parts, trc. tan ool, chert

LS, gray, tan, FXL, chalky, poor visible porosity, chalky  
in parts, trc. brown stain, Lt. trc SFO, faint odor

LS, tan, FXL, chalky, few foss, poor visible porosity,

**HEEBNER 2945 (-1041)**

Black carb Sh.

**Toronto 2957 (-1053)**

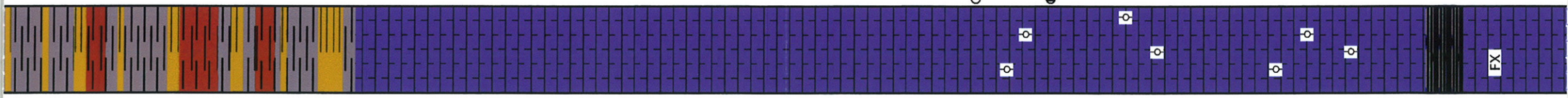
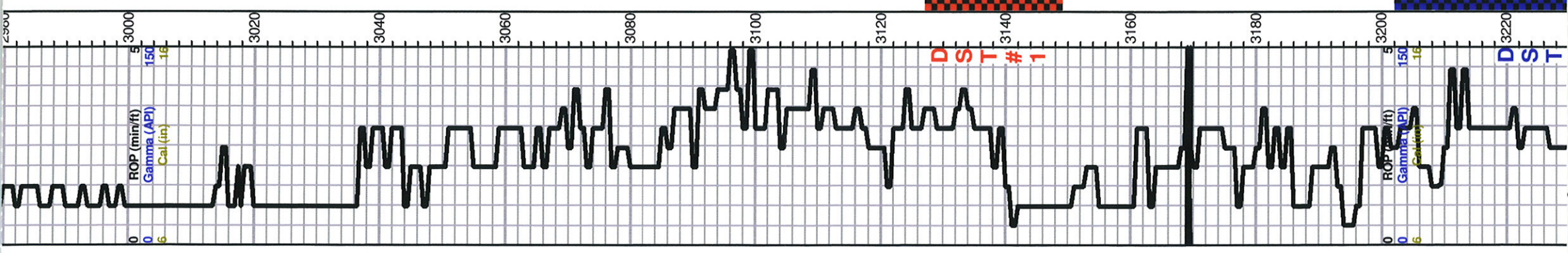
LS, tan, P.P. porosity, Lt. SFO, trace brown stain, faint  
odor

LS, tan, FXL, dense poor visible porosity, chalky in  
parts, no shows

**Dundas 2974 (-1070)**



CFS 20-40-60



Sh. maroon, gray, silty, soft

Sh. gray, greenish, maroon, trace sand, gray, F-grained, well sorted, NSFO

Sh. gray, green, silty, soft maroon, trc. sand, V.fine grained, well sorted, Lt. trc. black stain, Lt. flor. cut, odor???

Sh. gray, maroon, soft, silty

**Brown Lime 3036 (-1132)**

LS, tan to brown, FXL, dense, cherty, no visible porosity,

LS, cream to tan, FXL, cherty, poor visible porosity, no shows

**Lansing 3050 (-1146)**

LS, cream to tan, FXL, few foss, poor scattered porosity, trace black stain, NSFO

LS, cream, chalky in parts, poor visible porosity, trace black stain,

LS, cream chalky, P.P. porosity, trace SFO, Lt. brown stain, faint odor

LS, gray, FXL, ool, cherty, poor visible porosity, poor scattered porosity, no shows

LS, tan, chalky, poor visible porosity, trace brown stain, no shows, trace gray silty shale

LS, cream to tan, chalky, poor scattered porosity, poor INXLN porosity, trace black stain, no shows

LS, cream, tan, ool, poor scattered porosity, trace Lt. SFO, Lt. brown stain, Lt. flor. cut, odor???

LS, white, cream, ool, good vuggy porosity, SFO, golden brown stain, Ft. odor,

LS, white to cream, ool, good vuggy porosity, trace. black stain, NSFO, no odor

Sh. black carb, gray silty

LS, cream, tan, FL, dense poor visible porosity, no shows, trace ool, poorly developed, no visible porosity

LS, cream, ool, poorly developed, poor scattered porosity, dense, no shows

LS, tan to cream, P.P. scattered porosity, Lt. SFO, Lt. brown stain, chalky, odor  
Sh. black carb

LS, tan to brown, FXL, cherty dense, poor visible porosity, no shows,



CFS 20-40-60





