KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1082295

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31725
Name: Shelby Resources LLC
Address 1: 2717 Canal Blvd.
Address 2: Suite C
City: HAYS State: KS Zip: 67601 + __ __ __ __
Contact Person: Chris Gottschalk
Phone: (785) 623-1524
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Keith Reavis
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
☐ Conv. to GSW
☐ Plug Back: Plug Back Total Depth
☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

02/21/2012 — Spud Date or Recompletion Date
02/27/2012 — Date Reached TD
02/28/2012 — Completion Date or Recompletion Date

API No. 15 - 15-009-25658-00-00
Spot Description:
W2 - SE - SW - SE Sec. 29 Twp. 17 S. R. 13 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
1970 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
County: Barton
Lease Name: Mary Anne Well #: 1-29
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1861 Kelly Bushing: 1863
Total Depth: 3450 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 817 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: 50000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Shelby Resources LLC
Lease Name: Clark #3 INJ License #: 31725
Quarter SW Sec. 24 Twp. 17 S. R. 14 ☐ East ☑ West
County: Barton Permit #: E-30,783

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

☐ Letter of Confidentiality Received
Date:
☐ Confidential Release Date:
☑ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution
ALT ☑ I ☐ II ☐ III Approved by: Deanna Garrison Date: 05/24/2012

Side Two

1082295

Operator Name: Shelby Resources LLC Lease Name: Mary Anne Well #: 1-29

Sec. 29 Twp. 17 S. R. 13 ☐ East ☑ West County: Barton

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	3028	-1165
Lansing	3126	-1263
Lansing H	3253	-1390
Conglomerate	3332	-1469
Arbuckle	3378	-1515
Total Depth	3450	-1587

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	817	60/40 Poz	350	2% gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Mary Anne 1-29
Doc ID	1082295

All Electric Logs Run

Dual Induction
Compensated Neutron
Sonic
Micro

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. 594

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-22-12	29	17	13	Barton	Ks		7:30 PM

Lease Mary Anne Well No. 1-29 Location Hoisington Ks - 1N on Susank Rd, 1/4W, N/S

Contractor Sterling #4		Owner	
Type Job Surface		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.	
Hole Size 12 1/4"	T.D. 820'		
Csg. 8-5/8"	Depth 817'	Charge To Shelby Resources	
Tbg. Size	Depth	Street	
Tool	Depth	City	State
Cement Left in Csg. 17.39'	Shoe Joint 17.39'	The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line	Displace 51 BLS	Cement Amount Ordered 350 sx 60/40 3%CC 2%Gel	

EQUIPMENT

	No.		
9 Pumptrk		Cementer / Helper	Matt
Bulktrk	12	Driver / Driver	Brian
~~Bulktrk~~ p.u.		Driver / Driver	Paul

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	

Common	210	
Poz. Mix	140	
Gel.	7	
Calcium	13	
Hulls		
Salt		
Flowseal		
Kol-Seal		
Mud CLR 48		
CFL-117 or CD110 CAF 38		
Sand		
Handling	~~360~~ 370	
Mileage		

FLOAT EQUIPMENT

Guide Shoe	1	
Centralizer		
Baskets		
AFU Inserts		
Float Shoe		
Latch Down		
	1- Baffle plate	
	1- Rubber plug	
Pumptrk Charge	Long Surface	
Mileage	14	
Tax		
Discount		
Total Charge		

X
Signature [signature]

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. 632

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-27-12	29	17	13	Barton	KS		1:00 am.

Lease Mary Anne Well No. 1-29 Location Hoisington 1/2 W 1/2 N into

Contractor Sterling		Owner
Type Job Rotary Plug		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.
Hole Size 7 7/8	T.D. 3450	
Csg.	Depth	Charge To Shelby Resources
Tbg. Size	Depth	Street
Tool	Depth	City State
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line	Displace	Cement Amount Ordered 190 60/40 4% Gel 1/4# Flo

EQUIPMENT

Pumptrk 5 No.	Cementer / Helper	Cody
Bulktrk No.	Driver / Driver	Craig
Bulktrk 8 No.	Driver / Driver	Michael

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30 sk

Mouse Hole 15 sk

Centralizers

Baskets

D/V or Port Collar

1st	3350	25 sk
2nd	875	50 sk
3rd	375	60 sk
4th	40	10 sk

Item	
Common 114	
Poz. Mix 76	
Gel. 7	
Calcium	
Hulls	
Salt	
Flowseal 50#	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

FLOAT EQUIPMENT

Item	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Dry Hole plug	
Pumptrk Charge plug	
Mileage 14	
Tax	
Discount	
Total Charge	

X Signature [signature]

APPROVED [initials]

OPERATOR

Company:	Shelby Resources, LLC		
Address:	445 Union Blvd. Ste. 208 Lakewood, CO 80228		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	720-274-4682		
Well Name:	Mary Anne #1-29		
Location:	Sec. 29 - T17S - R13W	API:	15-009-25658-0000
Pool:		Field:	un-named
State:	Kansas	Country:	USA

Scale 1:240 Imperial

Well Name:	Mary Anne #1-29		
Surface Location:	Sec. 29 - T17S - R13W		
Bottom Location:			
API:	15-009-25658-0000		
License Number:	31725		
Spud Date:	2/21/2012	Time:	00:00
Region:	Barton		
Drilling Completed:	3/26/2012	Time:	06:00
Surface Coordinates:	330' FSL & 1970' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1854.00ft		
K.B. Elevation:	1863.00ft		
Logged Interval:	2700.00ft	To:	3450.00ft
Total Depth:	3450.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:		Latitude:	
N/S Co-ord:	330' FSL		
E/W Co-ord:	1970' FEL		

LOGGED BY

Keith Reavis
Consulting Geologist

Company:	Keith Reavis, Inc.		
Address:	3420 22nd Street Great Bend, KS 67530		
Phone Nbr:	620-617-4091		
Logged By:	KLG #136	Name:	Keith Reavis

CONTRACTOR

Contractor:	Sterling Drilling Company		
Rig #:	4		
Rig Type:	mud rotary		
Spud Date:	2/21/2012	Time:	00:00
TD Date:	3/26/2012	Time:	06:00
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1863.00ft	Ground Elevation:	1854.00ft
K.B. to Ground:	9.00ft		

NOTES

Due to low structural position combined with negative electrical log evaluations, it was determined that the Mary Anne # 1-29 warranted no further testing and therefore was plugged and abandoned as a dry hole.

A Tooke Daq gas detector provided by Sterling Drilling Company was employed on this well and drill time and gas curves were imported into this log.

The well samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
Keith Reavis

Shelby Resources, LLC

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
02/25/2012	3043	Geologist Keith Reavis on location @ 0630 hrs, 3027 ft., drilling ahead Topeka, Heebner, Douglas, Lansing, BKC
02/26/2012	3450	drilling conglomerate, Arbuckle, does not warrant DST, rathole ahead to TD of 3450 @ 0600 hrs, condition hole, TOH for logs, conduct and complete logging operations, geologist off location 1630 hrs

well comparison sheet

	DRILLING WELL Shelby - Mary Anne #1-29 330' FSL & 1970' FEL Sec. 29-17S-13W				COMPARISON WELL Graves, Hinkle etal-Beetz #1 NW NW NE Sec. 32-17S-13W				COMPARISON WELL Energy Three - Sullivan #1 NW SW SE Sec. 29-17S-13W			
	1863 KB				1861 KB		Structural Relationship		1860 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	2712	-849	2710	-847	2707	-846	-3	-1	no call			
Heebner	3028	-1165	3024	-1161	3023	-1162	-3	1	3027	-1167	2	6
Douglas	3052	-1189	3050	-1187	3049	-1188	-1	1	3056	-1196	7	9
Brown Lime	3109	-1246	3108	-1245	3107	-1246	0	1	3110	-1250	4	5
Lansing	3126	-1263	3125	-1262	3124	-1263	0	1	3120	-1260	-3	-2
Lansing H	3253	-1390	3254	-1391	3252	-1391	1	0	no call			
Conglomerate	3332	-1469	3332	-1469	3335	-1474	5	5	3332	-1472	3	3
Arbuckle	3378	-1515	3377	-1514	3358	-1497	-18	-17	3344	-1484	-31	-30
Total Depth	3450	-1587	3450	-1587	3366	-1505	-82	-82	3400	-1540	-47	-47

ROCK TYPES

Cht vari
Dolprim
Lmst fw<7
Lmst fw7>
shale, grn
shale, gry
Carbon Sh
shale, red

ACCESSORIES

MINERAL
- P Pyrite
- Chert White
- Mc Mica

FOSSIL
- Bioclastic or Fragmental
- F Fossils < 20%
- Oolite
- Pellets
- Oomoldic

STRINGER
- Limestone
- Siltstone
- Shale
- green shale
- red shale

TEXTURE
- C Chalky
- CX Cryptocrystalline
- FX FinexIn
- L Lithogr

OTHER SYMBOLS

DST
- DST Int
- DST alt
- Core
- tail pipe

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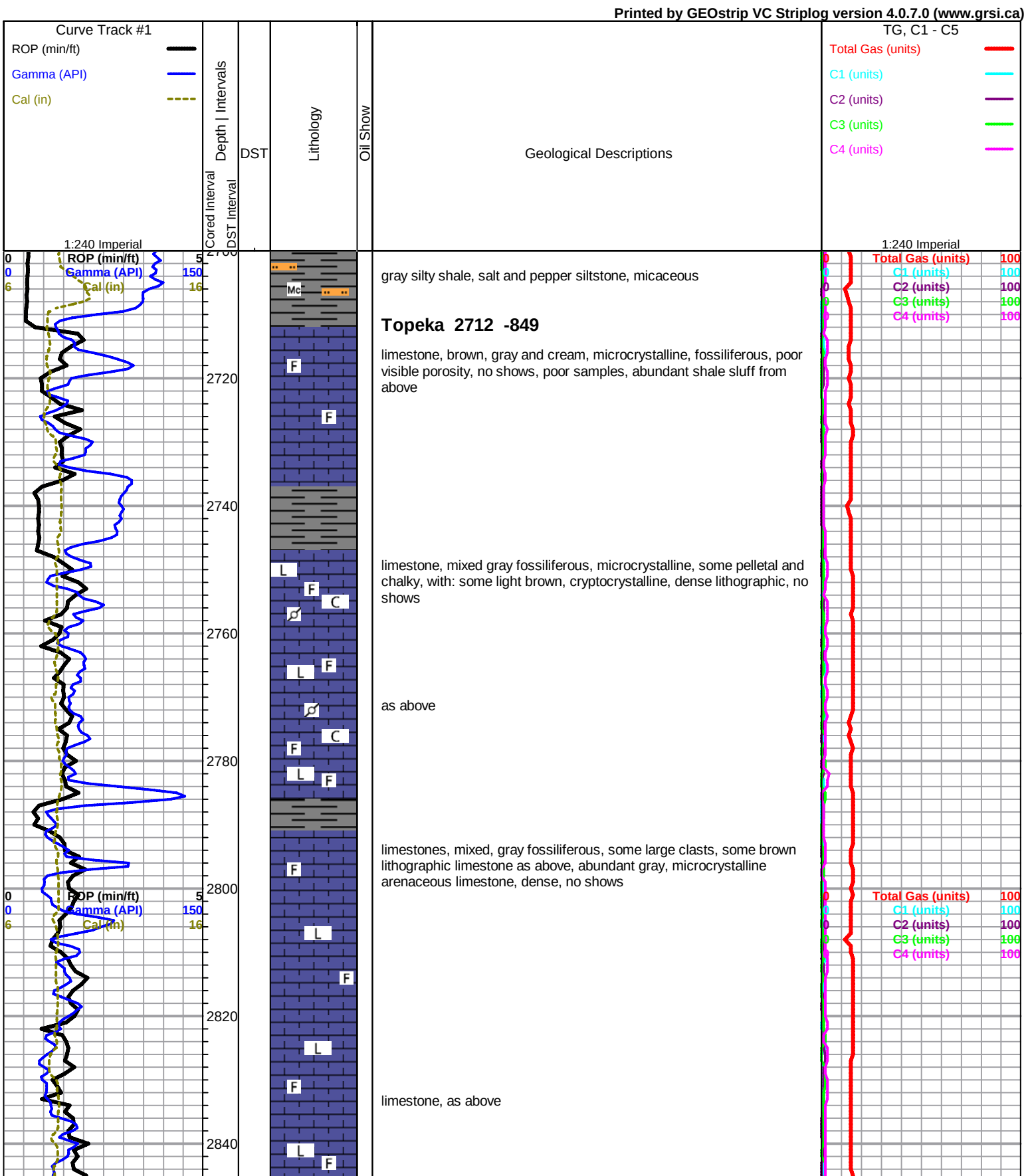


limestone, cream to light gray, fossiliferous, microcrystalline, some chalky, poor visible porosity, no shows

King Hill

limestone, cream to tan, fossiliferous, dense, no shows

limestone, white to cream, cryptocrystalline, smooth, fossiliferous, chalky to dense, with limestone, gray to brown, some mottled, very fossiliferous, some large clasts, poor visible porosity, no shows

as above

Queen Hill

limestone, cream to gray, mostly cryptocrystalline, fossiliferous, dense, poor visible porosity, no shows

as above

limestone as above, with: few small pieces limestone, light gray, fossiliferous, some pinpoint and small solution vug porosity, spotty to saturated brown/black stain, some heavy clingy oil, light sheen in tray, no odor or fluoresence, good streaming cut

limestone, cream to light gray, cryptocrystalline, dense fossiliferous, flood multicolored shales (sluff?)

Heebner 3028 -1165

shale, black carbonaceous

limestone, white to pale green, smooth cryptocrystalline, fossiliferous, dense, no shows

Douglas 3052 -1189

shale, mixed gray, green and brick red

as above

Brown Lime 3109 -1246

limestone, brown, mico-cryptocrystalline, fossiliferous, dense, cherty, no shows

Lansing 3126 -1263

limestone, cream, oolitic, small specimens, some small solution vugs between clasts, light brown fair stain, light sheen on break, some gas bubbles in vugs, no fluoresence, no odor, weak slow cut, with: limestone, cream to gray, chalky lithographic to dense fossiliferous, no shows

limestone, cream to white, crypto-microcrystalline, fossiliferous, some chalky, poor visible porosity, no shows

limestone, light gray, recrystallized fossiliferous, some small solution vugs, light brown stain, trace gas bubbles, no show free oil, no fluoresence, very slow light cut, fleeting odor

limestone, mixed gray to cream and white fossiliferous, chalky, no shows, with gray, dense, cherty limestone

limestone, cream to light gray, fossiliferous, some small solution vugs, scattered light brown stain, slight show oil and gas on break, no odor, faint fluoresence, slow pale cut

mixed limestone, trace gray and brown, with some vugs and staining, trace heavy clingy oil, no odor

limestone, cream to white and gray, fossiliferous/bioclastic to sub-oolitic and sub oomoldic, dense to chalky, few scattered pieces oolitic/bioclastic with some interclast porosity and light staining, no show oil, no odor, no fluoresence

limestone, mixed fossiliferous, abundant recrystallized dense oolitic, with white/gray mottled pelletal, some glauconitic and pyritic, dense cherty gray lithographic

mixed gray shales, fairly soft

limestone, white to light gray, chalky, fossiliferous, poor visible porosity, no shows, abundant pyrite nodules

limestone, gray, dense, fossiliferous, with limestone, white, fossiliferous, chalky, oolitic/oomoldic, some fair oomold porosity, barren

limestone, gray mixed fossiliferous, dense, with limestone, white, compact cryptocrystalline lithographic, white to light gray fossiliferous, poor visible porosity, some chalky, no shows

limestone, mixed non-descript fossiliferous

limestone, white to cream and light gray, small specimens, shaley samples, fossiliferous, few scattered vugs, mostly dense, chalky in part, found 1 piece brown slighty vuggy limestone, with dead black stain, otherwise, no noted shows or odor, scattered light fluoresence, some scattered pyrite

Conglomerate 3332 -1469

shaley conglomerate with some scattered small chert shards, gray to clear translucent, orange to yellow

mixed chert conglomerate, with some mixed limestones and shale, some sandy cherts, abundant quartz grains in tray, rough drilling

as above, smooth drilling

Arbuckle 3378 -1515

dolomite, gray to cream, crypto-microcrystalline, rhombic to re-crystallized, some scattered intercrystalline porosity and few vugs, few pieces slight black intercrystalline stain, trace free oil droplets on break, basically barren, strong sulfur odor, fair greenish white fluoresence, some pyritic, abundant boney white chert

limestone, as above, with some white, rhombic, good porosity, some caliche fill, barren, still abundant chert as above, faint odor

dolomite, gray to tan, mostly microcrystalline, rhombic to re-crystallized, some oolitic, poor overall visible porosity, trace spotty black stain, trace free oil on break, with mixed white, tan, gray and some oolitic cherts

dolomite, mixed gray to cream and tan, mixed crystalline, mostly dense with poor porosity, abundant white dolomite, micro-fine crystalline, rhombic, some fair intercrystalline porosity, barren, abundant mixed cherts as above - flood shales (sluff?)

as above

Mud-Co Mud Ck
@ 3080'
0830 hrs 2/25/12
vis 43 wt 9.2
pv 14 yp 10
wl 8.0
cake 1/32
pH 9.5
chl 6200
cal 20
sol 6.1 lcm 0#
dmc $1668.55
cmc $6725.30

jet #1 and run
pre-mix

Mud-Co Mud Ck
@ 3450'
0900 hrs 2/26/12
vis 52 wt 9.3
pv 14 yp 15
wl 7.2
cake 1/32
pH 10.0
chl 6200
cal 20
sol 6.8 lcm 0#

cfs @
3194 ft
1215 hrs
2/25/12

drill time data gap, geolograph cable tangled due to winds

cfs @
3262 ft
1630 hrs
2/25/12

cfs @
3330 ft
2055 hrs
2/25/12

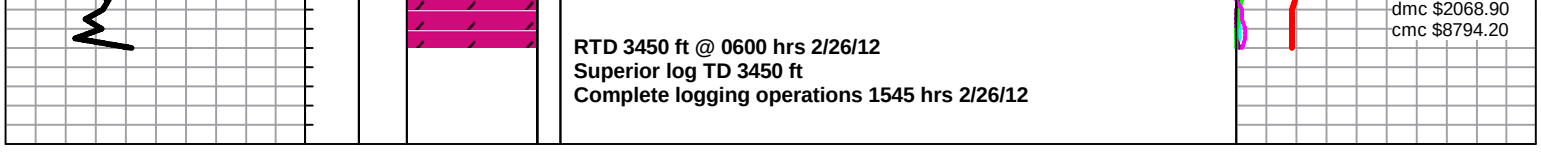
cfs @
3350 ft
2245 hrs
2/25/12

cfs @
3360 ft
0010 hrs
2/26/12

cfs @
3370 ft
0150 hrs
2/26/12

cfs @
3390 ft
0305 hrs
2/26/12

0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100


dmc $2068.90
cmc $8794.20
RTD 3450 ft @ 0600 hrs 2/26/12
Superior log TD 3450 ft
Complete logging operations 1545 hrs 2/26/12