



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



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

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

INSTRUCTIONS: Show important tops 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 <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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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				

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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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OPERATOR

Company: BLACK DIAMOND OIL, INC.
 Address: P.O. BOX 641
 HAYS, KS 67601

Contact Geologist: KENNETH VEHIGE
 Contact Phone Nbr: (785) 625-5891
 Well Name: MULDER #1
 Location: NW SW SE SE 21 - 3S - 21W
 Pool:
 State: KANSAS

API: 15-137-20633-00-00
 Field: WILDCAT
 Country: USA

Scale 1:240 Imperial

Well Name: MULDER #1
 Surface Location: NW SW SE SE 21 - 3S - 21W
 Bottom Location:
 API: 15-137-20633-00-00
 License Number: 7076
 Spud Date: 2/22/2013 Time: 2:00 PM
 Region: NORTON
 Drilling Completed: 2/27/2013 Time: 1:54 AM
 Surface Coordinates: 335' FSL & 1185' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2305.00ft
 K.B. Elevation: 2313.00ft
 Logged Interval: 3200.00ft To: 3831.00ft
 Total Depth: 3830.00ft
 Formation: LANSING - KANSAS CITY
 Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.6875991 Latitude: 39.7711817
 N/S Co-ord: 335' FSL
 E/W Co-ord: 1185' FEL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785)259-3737
 Logged By: Geologist Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC
 Rig #: 12
 Rig Type: MUD ROTARY
 Spud Date: 2/22/2013 Time: 2:00 PM
 TD Date: 2/27/2013 Time: 1:54 AM
 Rig Release: 2/28/2013 Time: 8:00 AM

ELEVATIONS

K.B. Elevation: 2313.00ft Ground Elevation: 2305.00ft
 K.B. to Ground: 8.00ft

NOTES

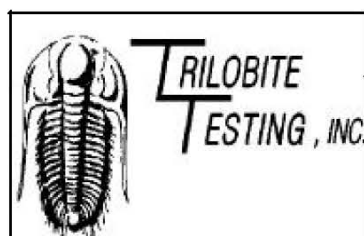
DUE TO LACK OF RECOVERY ON THE DRILL STEM TEST AND LOG ANALYSIS DECISION WAS MADE TO PLUG & ABANDON THE MULDER #1.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	MULDER#1				HATTIE SCOTT#1				REESER #1				HAYS#1				MADDDY#1			
	2313		2272		2320		2313		2283		2313		2283		2313		2283			
	LOG TOPS	SAMPLE TOPS	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.	COMP. CARD	LOG	SAMPL.
ANHYDRITE TOP	2018	295	2023	290	1979	293	+ 2	- 3	1985	335	- 40	- 45	2011	302	- 7	- 12	1973	310	- 15	- 20
BASE	2045	268	2056	257	2007	265	+ 3	- 8									2000	283	- 15	- 26
HOWARD					3272	-1000														
TOPEKA	3247	-934	3245	-932													3299	-1016	+ 82	+ 84
HEEBNER SHALE	3542	-1229	3544	-1231	3510	-1238	+ 9	+ 7	3544	-1224	- 5	- 7	3545	-1232			3497	-1214	- 15	- 17
TORONTO	3572	-1259	3570	-1257					3570	-1250	- 9	- 7	3569	-1256			3524	-1241	- 18	- 16
LKC	3588	-1275	3588	-1275	3555	-1283	+ 8	+ 8	3589	-1269	- 6	- 6	3586	-1273			3541	-1258	- 17	- 17
BKC	3778	-1465	3780	-1467	3745	-1473	+ 8	+ 6	3777	-1457	- 8	- 10	3786	-1473	+ 8	+ 6	3730	-1447	- 18	- 20
ARBUCKLE					3813	-1541			3860	-1540			3850	-1537						
RTD			3830	-1517	3855	-1583		+ 66	3895	-1575		+ 58	3868	-1555		+ 38	3795	-1512		- 5
LTD	3831	-1518			3855	-1583	+ 65										3792	-1509	- 9	

DST #1 LKC D-F 3625' - 3667'



DRILL STEM TEST REPORT

Black Diamond Oil Inc
 P O Box 641
 Hays Ks 67601-0641
 ATTN: Ken Vehige

21-3s-21w Norton
Molder #1
 Job Ticket: 50359
 Test Start: 2013.02.26 @ 06:00:53
DST#: 1

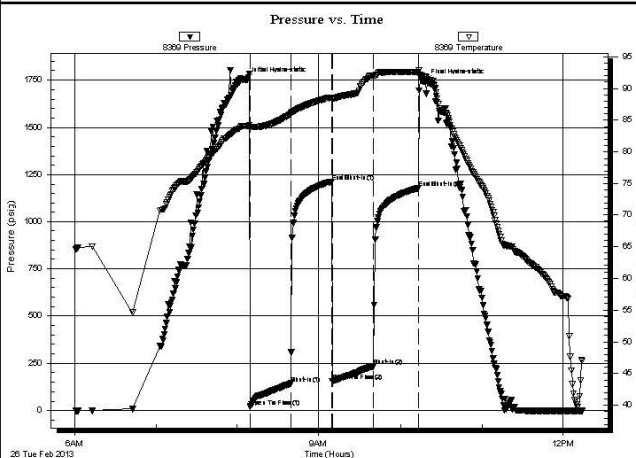
GENERAL INFORMATION:

Formation: LKC C-D
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:09:33
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager

Time Test Ended: 12:14:32 Unit No: 42
 Interval: 3625.00 ft (KB) To 3667.00 ft (KB) (TVD) Reference Elevations: 2313.00 ft (KB)
 Total Depth: 3667.00 ft (KB) (TVD) 2305.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8369 Inside
 Press@RunDepth: 233.59 psig @ 3631.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.26 End Date: 2013.02.26 Last Calib.: 2013.02.26
 Start Time: 06:00:53 End Time: 12:14:32 Time On Btm: 2013.02.26 @ 08:06:03
 Time Off Btm: 2013.02.26 @ 10:17:32

TEST COMMENT: 30-IFP-wk to strg in 9min
 30-ISIP-no bl bk
 30-FFP-wk to a fr bl surface to a 6"bl
 30-FSIP-no bl



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.65	84.06	Initial Hydro-static
4	21.93	83.87	Open To Flow(1)
34	144.03	86.00	Shut-In(1)
63	1213.53	88.58	End Shut-In(1)
64	155.08	88.35	Open To Flow(2)
94	233.59	91.97	Shut-In(2)
128	1179.27	92.60	End Shut-In(2)
132	1740.22	91.87	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	MW 15%M85%W w/show of oil	0.44
300.00	Water	3.93

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 50359 Printed: 2013.02.26 @ 13:52:16

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ROCK TYPES

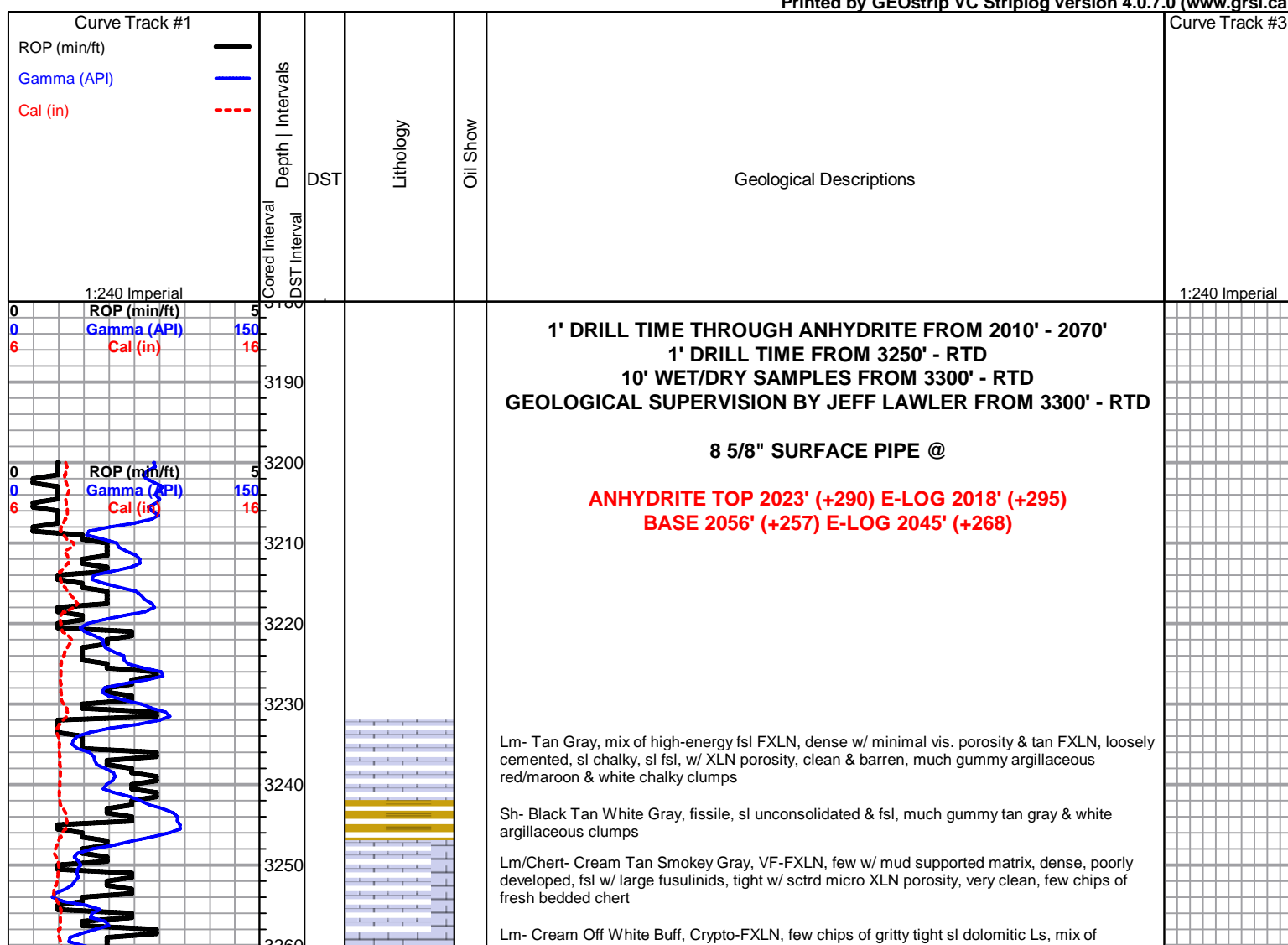
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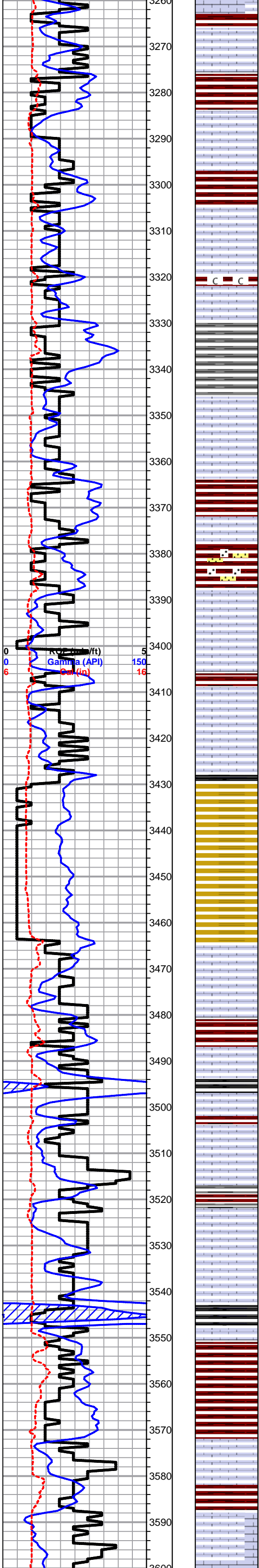
MINERAL
 . Sandy
STRINGER
 ~ Chert
 * Sandstone
 ■ red shale
TEXTURE
 C Chalky

OTHER SYMBOLS

DST
 ■ DST Int
 ■ DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





lithographic crypto XLN w/o vis. grains or porosity, densely packed fsl FXLN w/ minimal vis. porosity

Lm- Cream Off White Gray, Vf-Fn Grn FXLN, mostly soft, loosely cemented, mud supported matrix, few poorly developed FXLN, dense, massive & well cemented w/ minimal vis. porosity

Sh- Red White Lm Green, gritty & earthy, washed & gummy argillaceous clumps

Lm- Cream Gray, FXLN, dense, poorly developed w/ minimal vis. porosity, sl high-energy mix w/ fsl fragments

Sh- Brick Red, gritty & earthy

Lm- Buff Tan Cream, Fn Grn FXLN, all dense, tight w/ minimal vis. porosity, some w/ sctrd XLN porosity, sl fsl

C C C

Lm- Cream Off White Buff, Vf-F Grn, dense, chalky mud supported matrix, loosely cemented

Sh- Lt Gray Lm Green White, soft, silty, calcareous, gray & green wash, gummy white clumps

TOPEKA 3245' (-932) E-LOG 3247' (-934) Lm- Cream Off White, F-Med XLN, well cemented, poorly developed, fsl w/ good XLN porosity, some w/ sctrd secondary micro XLN porosity

Lm- Cream Off White, densely packed mud supported matrix, interbedded fsl, loosely cemented, some chips of fsl siltstone

Lm- Cream Buff, Vf-F Grn, dense, well cemented, some chalky in part, most w/o vis. porosity, tight

Lm/Chert- Cream Off White Salmon- FXLN, sl developed w/ consistant XLN porosity, loosely cemented, clean, several chips of fresh bedded salmon chert

Sh/Ss- Red White Mint Green, mix of sandy lime, sandy shale & vry shaley Ss, red wash & earthy

Lm- Off White, FXLN, densely packed oolites in clean siliceous cementation, sctrd micro XLN porosity w/ sctrd secondary porosity, tight w/ minimal effective porosity, clean & barren

Lm- Buff, FXLN, poorly developed mix of salmon & smokey white fresh bedded chert, dolomitic chert, & dolomitic Ls, vry well cemented, tight w/ minmal vis. porosity, NS

Lm- Cream Buff, Crypt-FXLN, dense, vry well cemented & brittle, some sl cherty Ls w/o vis. porosity, some w/ rare sctrd XLN secondary recrystallization porosity, very clean, barren

Lm- Cream Off White, FXLN, dense, well cemented, poorly developed w/ sctrd XLN porosity, vry clean

Sh- Black Gray, fissile, carbonaceous, silty & soft

Sh- Tan Lt Green, washed gummy sandy lime

Lm- Cream Lt Gray, FXLN, dense, well cemented, poorly developed, sl fsl, tight w/ XLN porosity

Sh- Maroon, gritty & earthy

Lm- Tan, FXLN, gritty well cemented dolomitic Ls, mostly consistant XLN porosity, poorly developed

Sh- Black Red Lm Green, sl unconsolidated & trashy, fissile, carbonaceous gritty & earthy, much red wash

Lm- Cream, FXLN, densely packed oolites in clear siliceous cementation, tight w/ no effective porosity, well cemented, poorly developed, some chips massive w/ sctrd vry fn ppt porosity, all clean & barren

Sh- Red, gritty & earthy

Lm- Cream Off White, FXLN, moderately developed, fsl, loosely cemented, XLN & sctrd vry fn ppt porosity, very clean, barren

Lm- A/A w/ sl chalky matrix, loosely cemented & crumbley

HEEBNER 3544' (-1231) E-LOG 3542' (-1229) Sh- Black Maroon, abundant fissile, soft carbonaceous, gritty & earthy

Sh- Gray Maroon, much gummy gray wash, gritty & earthy maroon chips

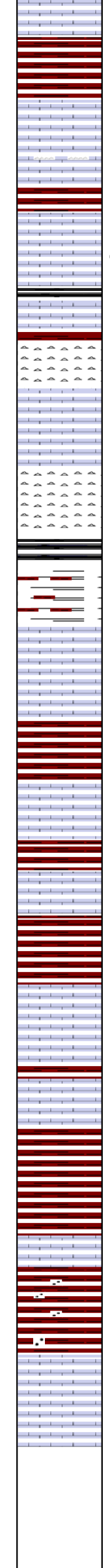
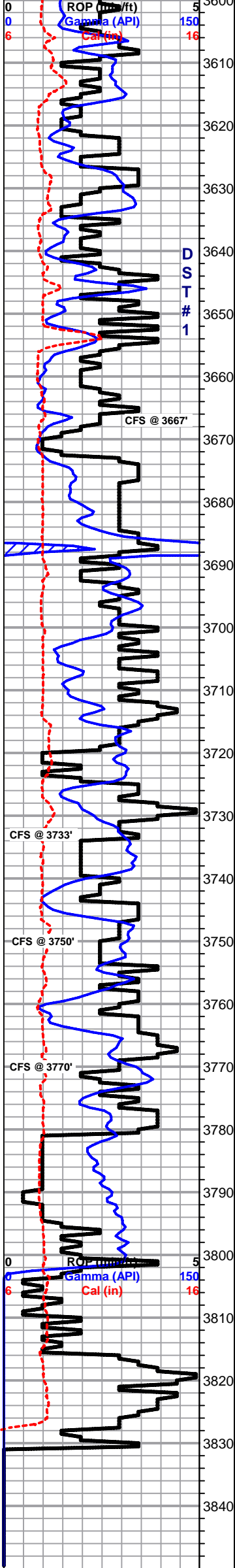
Sh- much red wash & gummy argillaceous clumps

TORONTO 3570' (-1257) E-LOG 3572' (-1259) Lm/Chert- FXLN, mix of smokey gray fsl fresh bedded chert & sl cherty Ls, poorly developed, loosely-well cemented, sctrd micro porosity, very clean

Sh- Red Purple Brown, gritty & earthy, few gummy argillaceous clumps

LKC 3588' (-1275) E-LOG 3588' (-1275) Lm- Cream Lt Green Tint, poorly developed mix of sl fsl FXLN, well cemented, w/ sctrd XLN porosity & dense well cemented gritty algal Ls w/ no vis. porosity

Lm- Cream Vf-FXLN, dense, well cemented, fsl w/ interbedded fusulinids, tight w/ sctrd dense XLN porosity, some w/ secondary recrystallization voids, vry clean, barren, poorly developed



XLN porosity, some w/ secondary recrystallization veins, vry clean, barren, poorly developed

Sh- Red Maroon, gritty & earthy, gummy argillaceous clumps

Lm/Chert- Tan Golden Brown, FXLN, dense, tight, well cemented gritty cherty Ls w/ no vis. porosity & fresh bedded chert

Sh- Brick Red Maroon Mnt Green White, gritty & earthy, few chips of red iron stone, gummy white chalk, some w/ pyrite inclusions, much gummy red & green argillaceous clumps

Lm- Cream Off White, Med XLN, oolitic, FR-GD development, sctrd ppt interoolitic porosity, SUB-SAT DRK STN, FR SFO, NO ODR

Sh- Black Gray Maroon, fissile, soft, silty, gritty & earthy

Lm- White Off White, Vf Grn & VFXLN, dense, soft, loosely cemented, much soft white chalk

Chert- White Smokey Semi-Translucent, fresh bedded chert

Lm- Off White, FXLN, well cemented, oolitic/oomoldic, partial skeletal dissolution, poor intermoldic connectivity, poorly developed, mostly tight w/ sctrd XLN porosity, vry clean, barren

Chert- White Semi-Translucent Golden brown, fresh bedded, sharp angular bedded chert

Sh- Black Lt Gray Maroon, fissile, carbonaceous, much gummy argillaceous gray & maroon clumps, gritty & earthy maroon chips

Lm- Off White Buff, Fn Grn & FXLN, dense, mix of tight FXLN w/ minimal vis. porosity & well cemented algal Ls w/o vis. porosity

Lm- Cream w/ Ylw tint, loosely cemented, fsl biomicrite, sl unconsolidated & trashy

Sh- Maroon Gray, gummy argillaceous clumps

Lm- Cream/Red, mottled, gritty dense fn grn, calcareous algal Ls, sl shaley Ss, poorly developed, loosely cemented

Sh- Abundant red gummy argillaceous clumps

Lm- Cream Off White, FXLN, mix of loosely cemented & chalky and dense, poorly developed, some sl oolitic, mostly tight w/ sctrd XLN porosity, clean & barren

Sh- Red Maroon Brown Gray Black, many gummy clumps, gritty & earthy, silty, fissile, sl unconsolidated, carbonaceous

Lm- Off White, FXLN, poorly developed mix, loosely cemented & crumbley, chalky in part to well cemented, sl fsl & oolitic, tight w/ minimal vis. porosity, clean & barren

Sh- Maroon Brown, gritty & earthy

Lm- Off White, FXLN, sl unconsolidated & shaley, loosely cemented & crumbley

BKC 3780' (-1467) E-LOG 3778' (-1465) Sh- Red Maroon Gray Lm Green, much gritty & earthy, some red wash sandy lime, some sl unconsolidated & pebbly, silty & calcareous

Lm- Cream w/ Maroon tint, F-Med XLN, vry loosely cemented & crumbley, heavily mottled w/ shale

Sh/Ss- Fn Grn red sandy shale/shaley Ss, calcareous

Lm- Cream Buff, FXLN, dense, loosely-well cemented, mix of gritty sl dolomitic Ls & dense tight Ls w/ sctrd micro XLN porosity, some sl mottled

SHORT TRIP
STRAP +1.52'
SURVEY 3/4
dgr

DST #1
LKC D-F
3625' - 3667'

RTD 3830' (-1517) LTD 3831' (-1518) @ 01:52 2/27/2013

MINI TRIP
CTCH
SURVEY
TOH FOR LOG

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. 6387

Date	2-22-13	Sec.	21	Twp.	3	Range	21	County	Norton	State	Ks	On Location		Finish	12:00 AM		
Lease	Mulder		Well No.		1		Location		Logan, Ks - W to E 12 Rd, 7N to R Rd, 1W to 11 Rd, 1N to Q Rd, 1/4 W, N 1/2 Int								
Contractor	W-W # 12		Owner		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		Black Diamond												
Hole Size	12 1/4		T.D.		221'												
Csg.	8 5/8"		Depth		220'												
Tbg. Size			Depth														
Tool			Depth		The above was done to satisfaction and supervision of owner agent or contractor.												
Cement Left in Csg.	20'		Shoe Joint		20'												
Meas Line			Displace		12 3/4 BLS 2% Gel												
EQUIPMENT													Common 150				
Pumptrk	16	No.	Cementer	Travis												Poz. Mix	
Bulktrk	14	No.	Driver	Billy												Gel.	3
Bulktrk	p.u.	No.	Driver	Rick												Calcium	5
JOB SERVICES & REMARKS													Hulls				
Remarks:	Cement did Circulate.											Salt					
Rat Hole												Flowseal					
Mouse Hole												Kol-Seal					
Centralizers												Mud CLR 48					
Baskets												CFL-117 or CD110 CAF 38					
D/V or Port Collar												Sand					
												Handling 158					
												Mileage					
FLOAT EQUIPMENT																	
												Guide Shoe					
												Centralizer					
												Baskets					
												AFU Inserts					
												Float Shoe					
												Latch Down					
												Pumptrk Charge Surface					
												Mileage 65					
												Tax					
												Discount					
												Total Charge					
X Signature	Mal Borge																