



**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

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: \_\_\_\_\_



1095409

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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Neal LaFon Realty Inc. dba Meridian Energy Inc.
Well Name	Kortan 1
Doc ID	1095409

Tops

Name	Top	Datum
Anh	1796	+530
Topeka	3238	-912
Heebner	3495	-1169
Kansas City	3533	-1207
Base KC	3768	-1442
Marmaton	3780	-1454
Cong	3768	-1442
Arbuckle	3847	-1521

## WELL REPORT

Well: Meridian Energy Inc. #1 Kortan  
NW SE SW NE Section 20  
2215' FNL x 1915' FEL  
T. 9 S., R. 21 W.  
Graham County, Kansas

Elevation: GL 2319  
KB 2326

Total Depth: Driller 3900  
Logger 3897

Date spudded: 3/23/12

Date completed: 3/30/12

Drill Stem Test: F-G zones and Arbuckle

Results: Ran pipe to test further

Drilling Contractor: Royal Rig 2

Mud Contractor: Andy's Mud

Logs Run: DIL/CNL/FDC Microlog

Wellsite Geologist: Neal LaFon- Franktown, Colorado

### FORMATION TOPS

Anhydrite	1796	+530
Topeka	3238	-912
Heebner	3495	-1169
Kansas City A	3533	-1207
Base KC	3768	-1442
Marmaton	3780	-1454
Cong	3768	-1442
Arbuckle	3847	-1521

TD 3900

### SAMPLE DESCRIPTIONS

**Not lagged**

3000-3030 Ls, gray, vvf xtln, hd, tt, no

3030-3060 Ls, a/a some wt, ns

3060-3090 Ls, a/a gray, some brn, foss, m-c xtln, hd tt, no

3090-3110 Ls, drk gray-blk, vf xtln, hd, tt, ns, ls brn m xtln, foss hd, tt, no

3110-3120 Ls, brn a/a tr ss, vvf grn, well rned/sorted, hard, glauc, poor p, ns

3120-3130 Ls, drk gray,-blk, hd tt, micro xtln, hd, tt, ns, some brn, f-m xtln, foss, hd tt, ns  
3130-3140 Ss, gray, vf grn, carbonaceous, well rnded/sorted, glauc, sl fri poor p and p, ns. Ls, brn, m xtln, hd, tt ns.  
3140-3150 Ss, a/a exc siltier, finer grned, ns  
3150-3160 Ls, brn, f-m xtln, foss, tt, no tr Ss a/a.  
3160-3170 Ls, wt, a/a finer grned, f xtln to micro xtln, foss, tt, ns, one grn oolitic w/ooclastic por, fair por, barren  
3170-3180 Ls, a/a  
3180-3190 a/a few pieces chalky  
3190-3200 Ls, wt-br, foss, most f xtln, hd, tt, ns tr chalky, ls soft, ns  
3200-3210 Ls, buff, vvf xtln, finer than above, foss, hd, tt, no some micro xtln, ns  
3210-3220 Ls, gran peletoidal shaly, tt ns  
Ls, st-buff micro xtln, hd, tt, ns  
Ls, f xtln, foss tt, ns  
Ls, wt chalky  
3220-3230 Ls, buff, f xtln, tt, no  
Ls, gray argillaceous, tt, ns  
3230-3240 Ls, a/a  
3240-3250, Ls, vf xtln, soft ns, some ls, gray, vf xtln, tt, ns

### **SAMPLES LAGGED**

#### Topeka

3238- 3251 Ls, buff, f xtln, foss, tt, ns  
3251-3280 Ls, gray, argillaceous, tt, ns  
3284- 3300 Ls, buff, f-m xtln some med grnstn, very tt, ns  
3300-3310 Ls, wt, sucrosic, vf grn, sl soft to hard, ns  
3314-3330 Ls, buff, vvf grn sucrosic, most hard, ns  
3330-3338 Ls, gray, micro xtln dirty, ns  
3338-3345 Ls, wt, chalky soft, ns  
3350- 3360 Ls, st, a/a  
3360-3374 Ls, buff, vf grn hd, tt, ns  
3374-3400 Ls, mix, gray micro xtln, chalky, buff vf xtln soft, buff med xtln hd, ns  
3400-3408 Ls, f-m xtln, tt, ns  
3408-3416 Ls, wt, chalky  
3424-3430 Ls, wt, chalky, soft, ns  
3438- 3450 Ls, buff, f xtln, tt, ns tr chalky  
3458-3495 Ls, buff, f-m grn stn w/vug por, barren, ns

#### Toronto

3516-3268 Ls, wt, vf xtln-micro xtln, hd, tt, ns

#### Kansas City

#### A zone

3532-3595 Ls, wt, f xtln, hd, tt, ns

B zone

3595-3560 Ls, wt, micro xtl, hd, tt, tr chalky

C zone

3573-3583 Ls, wt, micro xtl, tt, ns trace ls, wt, med grn stn, foss, tr vug por, foss/ooclastic por, w /drk dead oil stn, NSFO tr por, one grn very tt, when broken, por in foram w/ FO.

D zone

3590-3600 Ls, wt, micro xtl, a/a, w/dead oil bitumen, in very scant por, NSFO

E-F Zone

3600-3613 Ls, wt, micro xtl, tt, ns some grn med grn stn, cemented up, tr vug por, dk stn NSFO

G Zone

3615- 3624 Ls, wt, med-coar grn stn, inter gran vug por, gd blk stn,, tr tarry, rest gd live oil, gd oil scum on cups, f-gd por, GSFO. (2-3 foot drilling break- DSTed.)

3628-3650 Ls, wt, micro xtl, hd, tt, ns

H zone

3666-3683 Ls, wt, micro xtl, hd, tt, ns,

I zone

3690-3716 Ls, wt-gray , micro xtl, hd, tt, ns (log shows perm at 3706- didn't see any por or show in here)

J-K Zone

3721-3750 Ls, wt, vf xtl, hd, tt, ns

K zone

3738- 3604 Ss, clear, f grn, well rnded/sorted very soft, about 1/2 w /dead bitumen

Marmaton

3780-3793 Ls, wt, vvf grn sucrosic, hd, tt, ns lots of black bitumen, dead, NSFO some patchy, some fully saturated

3800-3819 Ls, a/a, w tr dead bitumen.

3826-3834 Chert, orange, ls, a/a

Arbuckle zone

3847-3855 (CFS) 40" sample @ 3855

Dolo, brn, vvf xtl, sucrosic, drk stn, tr FO when crushed, p-f SFO.

60" sample Gd slug sample Dolo, sucrosic, vf xtl, gd scum oil on cups, gd odor, one grn with small vug GSFO.

3855-3869 Mainly, sh, green

Dolo, clear, granular, gd por, gd stn some oil scum on cups, gd odor, poor samples.

3870-3877 Dolo, f xtl, glassey, all cemented, blocky, hd, tt, ns, some pink dolo, m xtl, hd, tt, ns.

3877-3900 98% Dolo, pink/wt m xtl, hd, tt ns. Trace w/ dead oil stn/bitumen in vug & inter gran por.

### **MUD RECORD**

3/26/12 @2900	MW 8.6	VIS 52	WL 7.6	MC 1/32
3/27/12 @3511	MW 9.1	VIS 59	WL 8.0	MC 1/32
3/28/12 @3682	MW 9.2	VIS 60	WL 8.0	MC 1/32
3/29/12 @ 3872	MW 9.3	VIS 60	WL 8.8	MC 1/32

### **DEVIATION SURVEYS**

3/23/12 @211 1 degree	3/25/12 @1913 1/2 degree
3/27/12 @ 3642 1 degree	3/29/12 @ 3900 1 1/4 degree

### **DRILL STEM TESTS**

Dst #1 3607-3642 F-G zones

OP2 SI 45 OP 60 SI 90

FP 16-16 16-23 SIP 639-621

REC: 15' M

Dst #2 3834-3855 Arbuckle

OP2 SI 45 OP 60 SI 90

FP 38-54 58-508 SIP 1126-1125

REC: 154' GO (15% G, 85% O)

372' GWO (10% G, 60% O, 30% W)

620' MW (90% W, 10% M)

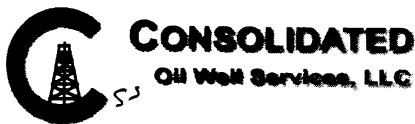
Grav 23 degree, RW .1521 @ 58 degrees 54,000 ppm

### COMMENTS

The well came in pretty high on the Arbuckle as expected. The DST recovered a significant amount of water, suggesting some drainage has occurred from the field to the north. All significant shows in the Kansas City were tested and proved negative.

Neal La Fon  
Geologist  
Franktown, CO  
4/6/12





PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

TICKET NUMBER 34461

LOCATION Oaklay Ks

FOREMAN miles Shaw  
Walt Dinkel

**INTERE**  
**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-11-12	5665	Karton #1	20	93	21W	Erskine
CUSTOMER <u>Meridian Energy</u>			Walcornway n to R.L			
MAILING ADDRESS			E to 350			
CITY			2N to J			
STATE			314655			
ZIP CODE			TRUCK #	DRIVER	TRUCK #	DRIVER
			456-T118	Damon M.		
			528-T127	Cody Roots		

JOB TYPE Part Collar HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING 2 7/8 OTHER P.C 1763'  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting, rig up equipment, Pressure Test casing to 1000#  
open Tool, establish circ, mixed 275 sks 60/40 por, 8% bel, 1/4# Flo-Seal  
Displace 9 BBL H2O, Test @ 1000# after closing Tool, held, ran 4 Jts, circ  
clean  
Cement Die/Circ

Thank You  
Walt, Miles + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1,325.00	1,325.00
5406	50	MILEAGE	5.00	250.00
1131	275 SKS	60/40 por,	15.10	4,152.50
118B	1896 #	bel	1.25	474.00
1107	69 #	Flo-Seal	2.82	194.58
5407A	11.83	Ton Mileage Delivery	1.67	988.00
				7,384.08
		Less 10% Disc	-	738.41
				6,645.67
		248970	SALES TAX	327.59
			ESTIMATED TOTAL	6973.26

Ravin 3737

AUTHORIZATION [Signature]

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 265

Cell 785-324-1041

Date	3/23/12	Sec.	20	Twp.	9	Range	21	County	Graham	State	KS	On Location		Finish	10:00 PM
Lease	Kortan			Well No.	1			Location	Palo, Rollins, W to 350 Rd, 2 N, 1/2 E, S, W to						
Contractor	Royal Drilling Rig #1							Owner	To Quality Oilwell Cementing, Inc.						
Type Job	Surface							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.	211'			Charge To	Meridian Energy						
Csg.	8 5/8"			Depth	211'			Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	15'			Shoe Joint				Cement Amount Ordered 150 s x Com 3 1/2 cc 2% gel							
Meas Line				Displace	12 1/2 bbls.										

**EQUIPMENT**

Pumptrk	9	No.	Cementer	Paul	Common	150	
			Helper				
Bulktrk	14	No.	Driver	Matt	Poz. Mix		
			Driver				
Bulktrk	PU	No.	Driver	Brain	Gel.	3	
			Driver				
<b>JOB SERVICES &amp; REMARKS</b>						Calcium	5

Remarks:	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	
Est. Core	Sand	
Mix 150 ex	Handling	158
Displace	Mileage	
Cement Circulated		

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	8 5/8"
Baskets	
AFU Inserts	Swage
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	46

Thank You!!

X Signature W. B. Buey

Tax  
Discount  
Total Charge