



KANSAS CORPORATION COMMISSION 1147837  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

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: \_\_\_\_\_



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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<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> _____ _____
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Johnson County, KS  
 Well: Mackey #6  
 Lease Owner: D.E. Exploration

**Town Oilfield Service, Inc.**  
 (913) 837-8400

Commenced Spudding:  
 April 9, 2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-9	Soil/Clay	9
3	Sandy Clay	12
26	Sandy Shale	38
19	Shale	57
7	Lime	64
5	Shale	69
16	Lime	85
8	Shale	93
9	Lime	102
8	Shale	110
17	Lime	127
16	Shale	143
19	Lime	162
9	Shale	171
56	Lime	227
21	Shale	248
9	Lime	257
14	Shale	271
, 11	Lime	282
4	Shale	286
9	Lime	295
34	Shale	329
1	Lime	330
11	Shale	341
26	Lime	367
5	Shale	372
24	Lime	396
4	Shale	400
5	Lime	405
4	Shale	409
7	Lime	416
66	Shale	482
42	Sandy Shale	524
6	Shale & Lime	530
8	Sand	538
51	Shale	589
6	Lime	595
11	Shale	606
7	Lime	613
16	Shale	629





# Short Cuts

## TANK CAPACITY

BBLs. (42 gal.) equals  $D^2 \times .14 \times h$   
D equals diameter in feet.  
h equals height in feet.

## BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004

BPH - barrels per hour

PSI - pounds square inch

## TO FIGURE PUMP DRIVES

- \* D - Diameter of Pump Sheave
- \* d - Diameter of Engine Sheave
- SPM - Strokes per minute
- RPM - Engine Speed
- R - Gear Box Ratio
- \*C - Shaft Center Distance

D -  $RPM \times d$  over  $SPM \times R$

d -  $SPM \times R \times D$  over RPM

SPM -  $RPM \times D$  over  $R \times d$

R -  $RPM \times D$  over  $SPM \times d$

$$\text{BELT LENGTH} = 2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$$

\* Need these to figure belt length

$$\text{TO FIGURE AMPS: } \frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$$

746 WATTS equal 1 HP

# Log Book

Well No. 6

Farm Mackey

KS Johnson  
(State) (County)

28 14 22  
(Section) (Township) (Range)

For D.E. Exploration  
(Well Owner)

## Town Oilfield Services, Inc.

1207 N. 1st East  
Louisburg, KS 66053  
913-710-5400

Mackey Farm: Johnson County

KS State; Well No. 6

Elevation 1050

Commenced Spuding April 9, 2013

Finished Drilling April 22, 2013

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Greg Perry

Tool Dresser's Name Ryan Ward

Tool Dresser's Name Colt Stone

Contractor's Name TOS  
28 14 22

(Section) S (Township) (Range) 4160 ft.

Distance from E line, 200 ft.

3 sacks

13 hrs

1 core

CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_

8" Set \_\_\_\_\_ 8" Pulled \_\_\_\_\_

6" Set 22 6 1/4" Pulled \_\_\_\_\_

4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_

2" Set \_\_\_\_\_ 2" Pulled \_\_\_\_\_

CASING AND TUBING MEASUREMENTS

Table with 6 columns (Feet, In., Feet, In., Feet, In.) and multiple rows. Handwritten entries include 'Seat nipple' at 868.75, 'Baffle' at 900.70, and 'float' at 932.35. A large handwritten '27/8' is written in the rightmost columns.

Thickness of Strata	Formation	Total Depth	Remarks
0-9	soil-clay	9	
3	sandy clay	12	
26	sandy shale	38	
19	shale	57	
7	lime	64	
5	shale	69	
16	lime	85	
8	shale	93	
9	lime	102	
8	shale	110	
17	lime	127	
16	shale	143	
19	lime	162	
9	shale	171	
56	lime	227	
21	shale	248	
9	lime	257	
14	shale	271	
11	lime	282	
4	shale	286	
9	lime	295	
34	shale	329	
1	lime	330	
11	shale	341	
26	lime	367	
5	shale	372	
24	lime	396	



396

Thickness of Strata	Formation	Total Depth	Remarks
4	shale	400	
5	lime	405	
4	shale	409	
7	lime	416	Heath
66	shale	482	
42	sandy shale	524	
6	shale & lime	530	
8	sand	538	grey - no oil
51	shale	589	
6	lime	595	
11	shale	606	
7	lime	613	
16	shale	629	
3	lime	632	
9	shale	641	
3	lime	644	
2	shale	646	
3	lime	649	
103	shale	752	
10	sand	762	broken - slight show
10	sandy shale	772	
84	shale	856	
2	sand	861	no oil
7	shale	868	
1	sandy shale	869	
2	sand	871	no oil
18	core	889	
71	shale	960	TD

core

Thickness of Strata	Formation	Total Depth	Remarks
		871	
1	sand	872	no oil
4.5	sand	880.5	good oil - part
8.5	shale	889	



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 258221

Invoice Date: 04/24/2013 Terms: 0/0/30,n/30

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D.E. EXPLORATION  
DOUG EVANS  
P.O. BOX 128  
WELLSVILLE KS 66092  
(785) 883-4057

MACKEY #6  
41761  
28-14-22  
04-22-2013  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	131.00	11.5000	1506.50
1118B	PREMIUM GEL / BENTONITE	420.00	.2200	92.40
1111	SODIUM CHLORIDE (GRANULA	275.00	.3900	107.25
1110A	KOL SEAL (50# BAG)	655.00	.4600	301.30
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
1401	HE 100 POLYMER	.50	47.2500	23.63
4310	2 1/2" BAFFLE PLATE	1.00	46.5000	46.50

Description	Hours	Unit Price	Total
510 MIN. BULK DELIVERY	1.00	368.00	368.00
666 CEMENT PUMP	1.00	1085.00	1085.00
666 EQUIPMENT MILEAGE (ONE WAY)	30.00	4.20	126.00
666 CASING FOOTAGE	928.00	.00	.00
675 80 BBL VACUUM TRUCK (CEMENT)	3.00	90.00	270.00

Parts: 2107.08 Freight: .00 Tax: 158.55 AR 4114.63  
 Labor: .00 Misc: .00 Total: 4114.63  
 Sublt: .00 Supplies: .00 Change: .00

Signed \_\_\_\_\_

Date \_\_\_\_\_

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7664

PONCA CITY, OK  
580/762-2303

OAKLEY, KS  
785/672-8822

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914

CUSHING, OK  
918/225-2650



**CONSOLIDATED**  
Oil Well Services, LLC.

258221

TICKET NUMBER 41761

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

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

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4/22/13	2355	Mackey # 6	NE 28	14	22	JO
CUSTOMER DE Exploration			TRUCK #			
MAILING ADDRESS PO Box 128			DRIVER			
CITY Wellsville	STATE KS	ZIP CODE 66092	481	CarKen	✓	Safety/Meeting
			666	Car Moo	✓	
			510	Set Tuc	✓	
			675	Kei Det	✓	

JOB TYPE Logging HOLE SIZE 5 5/8" HOLE DEPTH 960' CASING SIZE & WEIGHT 2 7/8" REG  
 CASING DEPTH 928' DRILL PIPE \_\_\_\_\_ TUBING baffle - 900 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 28'  
 DISPLACEMENT 5.21 bbs DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200 # Premium gel followed by 10 bbs fresh water, mixed & pumped 131' sks 50/50 Pozmix cement w/ 2% gel, 5% salt, + 5# Kalseal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 5.21 bbs fresh water, pressured to 800 PSI, released pressure, shut in casing.

*Handwritten signature*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	30 mi	MILEAGE	4.20	126.00
5402	928'	Casing footage		
5407	minimum	ten mileage		368.00
5502C	3 hrs	80 vac		270.00
1124	131 sks	50/50 Pozmix cement	11.50	1506.50
1118B	420 #	Premium Gel	.22	92.40
1111	275 #	Salt	.39	107.25
1110A	655 #	Kalseal	.46	301.30
4402	1	2 1/2" rubber plug		29.50
1401	1/2 gal	Polymer		23.63
4310	1	2 1/2" baffle plate		46.50
			7.525%	158.55
			SALES TAX	158.55
			ESTIMATED TOTAL	4114.63

**Completed**

Ravin 3737

AUTHORIZATION Byron Valley

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.