

KANSAS CORPORATION COMMISSION 1092368  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

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

OPERATOR: License # 4567  
Name: D. E. Exploration, Inc.  
Address 1: PO BOX 128  
Address 2: \_\_\_\_\_  
City: WELLSVILLE State: KS Zip: 66092 + 0128  
Contact Person: PHIL FRICK  
Phone: ( 785 ) 883-4057  
CONTRACTOR: License # 33715  
Name: Town Oilfield Service  
Wellsite Geologist: NONE  
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 #: \_\_\_\_\_

05/25/2012	05/29/2012	05/29/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-121-29047-00-00

Spot Description: \_\_\_\_\_  
NE SW SW NE Sec. 4 Twp. 19 S. R. 24 ☒ East ☐ West  
3140 Feet from ☐ North / ☒ South Line of Section  
2099 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE    ☐ NW    ☒ SE    ☐ SW

County: Miami

Lease Name: Garberg Well #: AI-8

Field Name: BLACK

Producing Formation: SQUIRREL

Elevation: Ground: 800 Kelly Bushing: 800

Total Depth: 440 Plug Back Total Depth: 383

Amount of Surface Pipe Set and Cemented at: 25 Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: 412

feet depth to: 0 w/ 60 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 20 bbls

Dewatering method used: Evaporated

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: Deanna Gombos Date: 08/31/2012



1092368

Operator Name: D. E. Exploration, Inc. Lease Name: Garberg Well #: AI-8  
 Sec. 4 Twp. 19 S. R. 24 ☒ East ☐ West County: Miami

**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:

GAMMA RAY/NEUTRON/CCL

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

Name Top Datum  
 SQUIRREL 342 +458

### 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	9.875	7	20	25	PORTLAND	4	NA
PRODUCTION	5.625	2.875	6	412	50/50 POZ	60	SEE TICKET

### 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 (Amount and Kind of Material Used)	Depth
3	342-352 - 31 PERFS - 2" DML RTG		

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 (Explain) _____
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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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Miami County, KS  
Well: Garberg AI-8  
Lease Owner: DE Exploration

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

Commenced Spudding:  
5/25/2012

WELL LOG

Thickness of Strata	Formation	Total Depth
0-23	Soil and Clay	23
81	Shale	104
6	Shale and Lime	110
32	Shale	142
6	Sand and Lime	148
13	Shale	161
2	Sandy Lime	163
8	Sand	171
2	Sandy Lime	173
3	Lime	176
2	Shale	178
4	Lime	182
5	Shale	187
4	Lime	191
4	Shale	195
1	Lime	196
8	Shale	204
9	Lime	213
14	Shale	227
4	Lime	231
5	Shale	236
7	Sand	243
3	Shale	246
17	Lime	263
11	Shale	274
2	Lime	276
16	Shale	292
4	Lime	296
41	Shale	337
4	Sandy Shale	341
2	Sand	343
3	Sand	346
7	Sand	353
2	Sand	355
4	Sandy Shale	359
34	Shale	393
1	Lime	394
8	Shale	402
16	Sand	418
22	Shale	440-TD

# 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 - RPMxd over SPMxR

d - SPMxRx D over RPM

SPM - RPMXD over Rx D

R - RPMXD over SPMxD

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

\* Need these to figure belt length

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

746 WATTS equal 1 HP

# Log Book

Well No. AI-8

Farm Garberg

KS Miami  
(State) (County)

4 19 24  
(Section) (Township) (Range)

For D.E. Exploration  
(Well Owner)

## Town Oilfield Services, Inc.

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

Garberg Farm: Miami County  
KS State: Well No. AI-8

State: Well No. 11 0  
Elevation 800

Commenced Spuding May 25 2012

Finished Drilling May 29 2012

Driller's Name Wesley Dollard

Driller's Name \_\_\_\_\_

Driller's Name \_\_\_\_\_

Tool Dresser's Name Bocandon Stone

Tool Dresser's Name Colt Stone

**Tool Dresser's Name** \_\_\_\_\_

Contractor's Name TOS

4                      19                      24

(Section)                      (Township)                      (Range)

Distance from 5 line, 3135 ft.

Distance from E line, 2095 ft.

4 socks

1. 100

his

## CASING AND TUBING RECORD

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

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

6 1/4" Set 25 6 1/4" Pulled           

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

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

## CASING AND TUBING MEASUREMENTS

[illegible]

Thickness of Strata	Formation	Total Depth	Remarks
0-23	soil-clay	23	
81	shale	104	
6	shale & lime	110	
32	shale	142	
6	sand & lime	148	no Oil
13	shale	161	
2	sandy lime	163	no Oil
8	sand	171	50% Oil - good bleed
2	sandy lime	173	no Oil
3	lime	176	no Oil
2	shale	178	
4	lime	182	
5	shale	187	
4	lime	191	
4	shale	195	
1	lime	196	
8	shale	204	
9	lime	213	
14	shale	227	
4	lime	231	
5	shale	236	
7	sand	243	no Oil
3	shale	246	
17	lime	263	
11	shale	274	
2	lime	276	
16	shale	292	

292

[illegible]



**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 # 250213

Invoice Date: 05/30/2012 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

GARBERG AI-8  
39825  
4-19-24  
05-29-2012  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	60.00	10.9500	657.00
1118B	PREMIUM GEL / BENTONITE	201.00	.2100	42.21
1111	SODIUM CHLORIDE (GRANULA	116.00	.3700	42.92
1110A	KOL SEAL (50# BAG)	300.00	.4600	138.00
4402	2 1/2" RUBBER PLUG	1.00	28.0000	28.00
1401	HE 100 POLYMER	.50	47.2500	23.63

Description	Hours	Unit Price	Total
369 80 BBL VACUUM TRUCK (CEMENT)	2.50	90.00	225.00
495 CEMENT PUMP	1.00	1030.00	1030.00
495 EQUIPMENT MILEAGE (ONE WAY)	40.00	4.00	160.00
495 CASING FOOTAGE	412.00	.00	.00
510 MIN. BULK DELIVERY	1.00	350.00	350.00

Parts:	931.76	Freight:	.00	Tax:	70.34	AR	2767.10
Labor:	.00	Misc:	.00	Total:	2767.10		
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  
785/672-2227

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914





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

TICKET NUMBER 39825  
LOCATION Ottawa KS  
FOREMAN Fred Mader

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER		SECTION	TOWNSHIP	RANGE	COUNTY	
5/29/12	2355	Garberg <sup>W</sup> AI-8		NW 4	19	24	MI.	
CUSTOMER								
DE Exploration								
MAILING ADDRESS								
P.O. Box 128								
CITY		STATE	ZIP CODE	TRUCK #		DRIVER	TRUCK #	DRIVER
Wellsville		KS	66092	506		FREMAID	Safety vinyl	
				495		HARREC	14B	
				369		DERMAS	DM	
				520		FETTUC	ST	

JOB TYPE <u>Long string</u>	HOLE SIZE	HOLE DEPTH <u>440'</u>	CASING SIZE & WEIGHT <u>2 3/8 EOE</u>
CASING DEPTH <u>412' 0"</u>	DRILL PIPE <u>Baffle @</u>	TUBING <u>383</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>2 1/2 PLYG 25'</u>
DISPLACEMENT <u>2.26 AG</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>5.4 PM</u>

REMARKS: Establish pump rate. Mix Pump  $\frac{1}{2}$  Gal HE 100 Polymer, Circulate to condition hole. Mix Pump 100# Gal Flush. Mix Pump 100 SKS 50/50 Por mix Cement 29% Gal 59% Salt 5# Gal Seal/sk. Cement to Surface. Flush pump & lines clean. Displace 24" Rubber plug to baffle in casing. Pressure to 700# PSI. Release pressure to set Float Valve. Shut in Casing.

Tas Drilling - Wes.

Fred Mader

[illegible]

Flavin J737

250 213

**AUTHORIZATION** \_\_\_\_\_ **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**