KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1132758

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 # 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:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [ ] D&A
- [x] 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 #:

02/19/2013	02/20/2013	02/20/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24071-00-00
Spot Description:
NE - NE - NW - SE Sec. 1 Twp. 15 S. R. 21 [x] East [ ] West
2570 Feet from [ ] North / [x] South Line of Section
1340 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Johnson
Lease Name: Thompson Well #: I-13
Field Name:
Producing Formation: BARTLESVILLE
Elevation: Ground: 988 Kelly Bushing: 988
Total Depth: 920 Plug Back Total Depth: 860
Amount of Surface Pipe Set and Cemented at: 22 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 890
feet depth to: 0 w/ 122 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 30 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:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [x] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrison **Date:** 04/12/2013

Side Two

[redacted] 1132758

Operator Name: D. E. Exploration, Inc. Lease Name: Thompson Well #: I-13

Sec. 1 Twp. 15 S. R. 21 ☑ East ☐ West County: Johnson

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
BARTLESVILLE	822	+166

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	17	22	PORTLAND	2	NA
PRODUCTION	5.625	2.875	6.5	890	50/50 POZ	122	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	822-828 - 19 PERFS - 2" DML RTG		

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

Johnson County, KS
Well: Thompson I-13
Lease Owner: DE Exploration

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

Commenced Spudding:
2/19/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
0-10	Soil-Clay	10
4	Lime	14
2	Shale	16
17	Lime	33
6	Shale	39
9	Lime	48
6	Shale	54
19	Lime	73
16	Shale	89
7	Sand	96
4	Sandy Shale	100
25	Lime	125
35	Shale	160
12	Lime	172
19	Shale	191
8	Lime	199
6	Shale	205
10	Lime	215
13	Shale	228
6	Lime	234
7	Lime	241
7	Shale	248
5	Lime	253
33	Shale	286
2	Lime	288
10	Shale	298
24	Lime	322
7	Shale	329
23	Lime	352
4	Shale	356
4	Lime	360
3	Shale	363
7	Lime	370
25	Shale	395
25	Sandy Shale	420
121	Shale	541
6	Lime	547
4	Shale	551
4	Lime	555
9	Shale	564

Johnson County, KS
Well: Thompson I-13
Lease Owner: DE Exploration

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

Commenced Spudding:
2/19/2013

5	Lime	569
17	Sandy Shale	586
3	Lime	589
9	Shale	598
5	Lime	603
19	Shale	622
2	Lime	624
1	Shale	625
2	Lime	627
48	Shale	675
1	Lime	676
19	Shale	695
12	Sand	707
10	Sandy Shale	717
40	Shale	757
23	Sandy Shale	780
42	Shale	822
1	Sandy Lime	823
4	Sand	827
10	Sandy Shale	837
83	Shale	920-TD

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D^2x.14xh

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 - SPMxRxD over RPM

SPM - RPMXD over RxD

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

746 WATTS equal 1 HP

Log Book

Well No. I-13

Farm Thompson

KS (State) Johnson (County)

1 (Section) 15 (Township) 21 (Range)

For D. E. Exploration (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Thompson Farm: Johnson County

KS State; Well No. I-13

Elevation 988

Commenced Spuding Feb 19 20 13

Finished Drilling Feb 20 20 13

Driller's Name Wesley Dollard

Driller's Name

Driller's Name

Tool Dresser's Name Greg Perry

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

1 15 21

(Section) (Township) (Range)

Distance from S line, 2570 ft.

Distance from E line, 1340 ft.

2 sacks

CASING AND TUBING RECORD

10" Set		10" Pulled	
8" Set		8" Pulled	
6¾" Set	22	6¼" Pulled	
4" Set		4" Pulled	
2" Set		2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
860.	10	Bottle			
890	—	float		2	7/8

Thickness of Strata	Formation	Total Depth	Remarks
0-10	soil-clay	10	
4	Lime	14	
2	Shale	16	
17	Lime	33	
6	Shale	39	
9	Lime	48	
6	Shale	54	
19	Lime	73	
16	Shale - redbed	89	
7	Sand	96	no Oil
4	Sandy Shale	100	
25	Lime	125	
35	Shale	160	water
12	Lime	172	
19	Shale	191	
8	Lime	199	
6	Shale	205	
10	Lime	215	
13	Shale	228	
6	green shale & lime	234	
7	Lime	241	
7	Shale	248	
5	Lime	253	
33	Shale	286	
2	Lime	288	
10	Shale	298	
24	Lime	322	

322

Thickness of Strata	Formation	Total Depth	Remarks
7	Shale	329	
23	Lime	352	
4	Shale	356	
4	Lime	360	
3	Shale	363	
7	Lime	370	Hertha
25	shale	395	
25	sandy shale	420	
121	shale	541	
6	Lime	547	
4	shale	551	
4	Lime	555	
9	shale	564	
5	Lime	569	
17	Sandy shale	586	
3	Lime	589	
9	shale	598	
5	Lime	603	
19	shale	622	
2	Lime	624	
1	Shale	625	
2	Lime	627	
48	Shale	675	
1	Lime	676	
19	Shale	695	
12	Sand & sandy shale	707	odor - no show
10	Sandy shale	717	

717

Thickness of Strata	Formation	Total Depth	Remarks
40	shale	757	
23	sandy shale	780	
42	shale	822	
1	sandy lime	823	solid oil
4	sand	827	solid - good situation
10	sandy shale	837	
83	shale	920	TD

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 # 256970

Invoice Date: 02/26/2013 Terms: 0/0/30,n/30 Page 1

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

Thompson
~~TEA~~ I-13
38853
1-15-21
02-20-2013
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	122.00	10.9500	1335.90
1118B	PREMIUM GEL / BENTONITE	305.00	.2100	64.05
1111	SODIUM CHLORIDE (GRANULA	236.00	.3700	87.32
1110A	KOL SEAL (50# BAG)	610.00	.4600	280.60
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
495	CEMENT PUMP	1.00	1030.00	1030.00
495	EQUIPMENT MILEAGE (ONE WAY)	30.00	4.00	120.00
495	CASING FOOTAGE	.00	.22	.00
548	MIN. BULK DELIVERY	1.00	350.00	350.00
675	80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00

Parts:	1819.50	Freight:	.00	Tax:	136.93 AR
Labor:	.00	Misc:	.00	Total:	3636.43
Sublt:	.00	Supplies:	.00	Change:	.00

3636.43

Signed _____ Date _____

CONSOLIDATED
Oil Well Services, LLC

256470

TICKET NUMBER 38853
LOCATION Ottawa KS
FOREMAN Fred Mader

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
2/20/13	2355	TEA # I-13	NE 1	15	21	FO

CUSTOMER: D E Exploration
MAILING ADDRESS: P.O. Box 128
CITY: Wellsville | STATE: KS | ZIP CODE: 66092

TRUCK#	DRIVER	TRUCK#	DRIVER
506	Fre Mad	Safety	Mty
495	Nar Bec	AB	
675	Jas Ric	JR	
548	Mik Haa	MH	

JOB TYPE Long string | HOLE SIZE 5 7/8 | HOLE DEPTH 920' | CASING SIZE & WEIGHT 2 7/8 EUE
CASING DEPTH 890' | DRILL PIPE Baffle @ | TUBING @ 860' | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING 2 1/2 Plug + 30'
DISPLACEMENT 5 BBL | DISPLACEMENT PSI | MIX PSI | RATE 4 BPM

REMARKS: Held crew meeting. Establish pump rate. Mix 1/2 Gal HE-100 Polymer. Circulate well to condition hole. Mix & Pump 100# Gel flush. Mix & Pump 122 SKS 50/50 Poz Mix Cement 2% Gel 5% Salt 5# Kol Seal /sk. Cement to surface. Flush pump & lines clean. Displace 2 1/2" Rubber plug to baffle. Pressure to 800# PSI. Release pressure to set Float Valve. Shut in Casing

TDS Drilling - Wes

Fred Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495		1030.00
5406	30 mi	MILEAGE	495		120.00
5402		Casing Footage			N/C
5407	Minimum	Ton Miles	548		350.00
5502C	2 hrs	80 BBL Vac Truck	675		180.00
1124	122 SKS	50/50 Poz Mix Cement			1335.20
1118B	305#	Premium Gel			64.05
1111	236#	Granulated Salt			87.32
1111A	610#	Kol Seal			280.60
4402	1	2 1/2" Rubber Plug			25.00
1401	1/2 Gal	HE-100 Polymer			23.63
					completed
				SALES TAX	136.93
				ESTIMATED TOTAL	3636.43

SIGNATURE | TITLE | DATE

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