KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1132748

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

- [x] 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 #:

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 - 15-091-24070-00-00
Spot Description:
NW - SW - NE - SE Sec. 1 Twp. 15 S. R. 21 [x] East [ ] West
1950 Feet from [ ] North / [x] South Line of Section
1130 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 #: 21
Field Name:
Producing Formation: BARTLESVILLE
Elevation: Ground: 988 Kelly Bushing: 988
Total Depth: 920 Plug Back Total Depth: 846
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: 878
feet depth to: 0 w/ 114 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**
- [ ] **UIC Distribution**

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

Side Two

1132748

Operator Name: D. E. Exploration, Inc. Lease Name: Thompson Well #: 21

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	818	+170

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	3	NA
PRODUCTION	5.625	2.875	6.5	878	50/50 POZ	114	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	818-827 - 28 PERFS - 2" DML RTG		

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

Date of First, Resumed Production, SWD or ENHR. 04/10/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	2				

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 21
Lease Owner: DE Exploration

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

Commenced Spudding:
2/19/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
6	Soil-Clay	6
5	Lime	11
4	Shale	15
15	Lime	30
6	Shale	36
9	Lime	45
7	Shale	52
18	Lime	70
13	Shale	83
12	Sand	95
4	Sandy Shale	99
25	Lime	124
36	Shale	160
12	Lime	172
19	Shale	191
7	Lime	198
6	Shale	204
11	Lime	215
20	Shale	235
7	Lime	242
5	Shale	247
5	Lime	252
34	Shale	286
1	Lime	287
10	Shale	297
25	Lime	322
7	Shale	329
23	Lime	352
3	Shale	355
5	Lime	360
3	Shale	363
6	Lime	369
3	Shale	372
7	Sand	379
9	Sandy Shale	388
8	Shale	396
6	Sand	402
4	Sandy Shale	410
111	Shale	527
7	Sandy Shale	534

Johnson County, KS
Well: Thompson 21
Lease Owner: DE Exploration

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

Commenced Spudding:
2/19/2013

5	Shale	539
5	Lime	544
3	Shale	547
2	Lime	549
2	Shale	551
3	Lime	554
6	Shale	560
7	Lime	567
15	Shale	582
3	Lime	585
11	Shale	596
3	Lime	599
20	Shale	619
1	Lime	620
3	Shale	623
1	Lime	624
68	Shale	692
13	Sand	705
4	Sandy Shale	709
10	Shale	719
6	Shale	725
30	Sandy Shale	755
10	Shale	765
17	Sandy Shale	782
35	Shale	817
1	Broken Sand	820
2	Sand	823
3	Sand	826
3	Sand	827
1	Sandy Shale	829
2	Broken Sand	837
8	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. 21

Farm Thompson

KS (State) Johnson (County)

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

For JDE Exploration, Inc. (Well Owner)

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Thompson Farm: Johnson County

KS State; Well No. 21

Elevation 988

Commenced Spuding 2/19, 2013

Finished Drilling 2-20, 2013

Driller's Name Braden Stone

Driller's Name

Driller's Name

Tool Dresser's Name Chad Weaver

Tool Dresser's Name

Tool Dresser's Name Colt Stone

Contractor's Name TCS

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

Distance from S line, 1950 ft.

Distance from E line, 1130 ft.

1095-

3- SACKS CEMENT

CASING AND TUBING RECORD

10" Set		10" Pulled	
7" ~~8"~~ Set	22 FT.	8" Pulled	
6¼" Set		6¼" Pulled	
4" Set		4" Pulled	
2" Set	878.15	2" Pulled	

846.28/76 baffle
817 seat nipple
920 TD

In.

Thickness of Strata	Formation	Total Depth	Remarks
6	soil clay	6	
5	Lime	11	
4	Shale	15	
15	Lime	30	
6	Shale	36	
9	Lime	45	
7	Shale	52	
18	Lime	70	
13	Shale - Red Rock	83	
12	Sand	95	NO OIL
4	Sandy Shale	99	
25	Lime	124	
36	Shale	160	
12	Lime	172	
19	Shale	191	
7	Lime	198	
6	Shale	204	
11	Lime	215	
20	Shale	235	
7	Lime	242	
5	Shale	247	
5	Lime	252	
34	Shale	286	
1	Lime	287	
10	Shale	297	
25	Lime	322	
7	Shale	329	

329

Thickness of Strata	Formation	Total Depth	Remarks
23	Lime	352	
3	Shale	355	
5	Lime	360	
3	Shale	363	
6	Lime	369	HERTHA
3	Shale	372	
7	Sand	379	NO OIL
9	Sandy Shale	388	
8	Shale	396	
16	Sand	412	NO OIL
4	Sandy Shale	416	
111	Shale	527	
7	Sandy Shale	534	
5	Shale	539	
5	Lime	544	
3	Shale	547	
2	Lime	549	
2	Shale	551	
3	Lime	554	
6	Shale	560	
7	Lime	567	
15	Shale	582	
3	Lime	585	
11	Shale	596	
3	Lime	599	
20	Shale	619	
1	Lime	620	

6120

Thickness of Strata	Formation	Total Depth	Remarks
3	shale	623	
1	Lime	624	
4.5'	shale	628	
13	sand	705	odor, no bleeding, Broken sand
4	sandy shale	709	
10	shale	719	
6	shale & Lime	725	
30	sand - shale	755	
10	shale	765	
17	Sandy shale	782	
35	shale	817	
1	Lime	818	
2	Broken sand	820	odor, no oil, no bleeding
3	sand	823	30% - 90% oil, good bleeding
3	sand	826	40% - solid oil
1	sand	827	30% oil
2	sandy shale	829	no oil
8	Broken sand	837	no oil
93	shale	930	red bed - 875'

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 # 256969

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 21
38825
1-15-21
02-20-2013
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	114.00	10.9500	1248.30
1118B	PREMIUM GEL / BENTONITE	292.00	.2100	61.32
1111	SODIUM CHLORIDE (GRANULA	220.00	.3700	81.40
1110A	KOL SEAL (50# BAG)	570.00	.4600	262.20
1401	HE 100 POLYMER	.50	47.2500	23.63
4402	2 1/2" RUBBER PLUG	1.00	28.0000	28.00

	Description	Hours	Unit Price	Total
368	CEMENT PUMP	1.00	1030.00	1030.00
368	EQUIPMENT MILEAGE (ONE WAY)	.00	4.00	.00
368	CASING FOOTAGE	878.00	.00	.00
370	80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00
503	MIN. BULK DELIVERY	1.00	350.00	350.00

Parts:	1704.85	Freight:	.00	Tax:	128.29	AR	3393.14
Labor:	.00	Misc:	.00	Total:	3393.14		
Sublt:	.00	Supplies:	.00	Change:	.00		

Signed _____ Date _____

CONSOLIDATED
Oil Well Services, LLC

256969

TICKET NUMBER 38825
LOCATION Oxford
FOREMAN Alan Made

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	Thompson 21	SE 1	15	21	Jo

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

TRUCK #	DRIVER	TRUCK #	DRIVER
516	Alg Mad	Safety	Meet
368	Ad Mad	AM	
370	Kei Car	KC	
503	Dan Det	D.D	

JOB TYPE Long String | HOLE SIZE 5 5/8 | HOLE DEPTH 920 | CASING SIZE & WEIGHT 2 7/8
CASING DEPTH 878 | DRILL PIPE | TUBING | OTHER 848 baffle
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING Yes
DISPLACEMENT 4.9 | DISPLACEMENT PSI 800 | MIX PSI 200 | RATE 4 bpm

REMARKS: Held safety meet. Hooked to casing. Established rate, Mixed & pumped 1/2 sal polymer. Circulated to condition hole. Mixed & pumped 100 # gel followed by 114 SK 50/50 cement plug 2% gel 5% salt, 5 # kolseal per sack. Circulated cement. Flushed pump. Pumped plug to baffle. Well held 800 PSI. Closed valve on braden head with 1/4 bbl left to pump plug.

TOS, Chad

Alan Made

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368		1030.00
5406	—	MILEAGE	368		—
5402	878	casing footage	368		—
5407	Min	ton miles	503		350.00
5502C	2	80 vac	370		180.00
1124	114	50 150 cement			1248.30
1118B	292#	gel			61.32
1111	220#	salt			81.40
1110A	570#	Kolseal			262.20
1401	1/2 gal	polymer			23.63
4402	1	2 1/2 plug			28.00
				SALES TAX	128.29
				ESTIMATED TOTAL	3393.14

Completed

Ravin 3737

NO company rep

AUTHORIZTION Jim OKd 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 for