Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1199049

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34339
Name: D & Z Exploration, Inc.
Address 1: 900 N ELM ST.
Address 2: PO BOX 159
City: ST ELMO State: IL Zip: 62458 + ____
Contact Person: Nina Belden
Phone: (618) 829-3274
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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #: ____
☐ Dual Completion Permit #: ____
☐ SWD Permit #: ____
☐ ENHR Permit #: ____
☐ GSW Permit #: ____

03/20/2014	03/21/2014	03/21/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24241-00-00
Spot Description: ____
SW NE SW NW Sec. 27 Twp. 14 S. R. 22 ☑ East ☐ West
3520 Feet from ☐ North / ☑ South Line of Section
4400 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: ____ *(e.g. xx.xxxxx)* , Long: ____ *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Johnson
Lease Name: East Gordon Well #: #I-4
Field Name: ____
Producing Formation: Bartlesville
Elevation: Ground: 1037 Kelly Bushing: 0
Total Vertical Depth: 940 Plug Back Total Depth: 911
Amount of Surface Pipe Set and Cemented at: 20 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: ____ Feet
If Alternate II completion, cement circulated from: 20
feet depth to: 0 w/ 10 sx cmt.

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

Chloride content: 0 ppm Fluid volume: 0 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

☑ **Confidentiality Requested**
Date: 04/10/2014
☑ **Confidential Release Date:** 04/09/2016
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 04/10/2014

[redacted] 1199049

Operator Name: D & Z Exploration, Inc. Lease Name: East Gordon Well #: #I-4

Sec. 27 Twp. 14 S. R. 22 ☑ East ☐ West County: Johnson

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

List All E. Logs Run:

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

Name	Top	Datum
Bartlesville	866	

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	9.825	7	20	20	Portland	10	none
Production	5.625	2.825	6.2	911	50/50 poz	131	none

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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

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

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

Form	ACO1 - Well Completion
Operator	D & Z Exploration, Inc.
Well Name	East Gordon #I-4
Doc ID	1199049

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	9.825	7	20	20	Portland	10	none
Production	5.625	2.825	6.2	911	50/50 poz	131	none

CONSOLIDATED
Oil Well Services, LLC

REMIT TO
FINV
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 # 266879

Invoice Date: 03/27/2014 Terms: 0/30/10,n/30 Page 1

D & Z EXPLORATION
901 N. ELM ST.
P.O. BOX 159
ST. ELMO IL 62458
(618)829-3274

EAST GORDON I-4
42765
NW 27-14-21
03-21-2014
KS

Part Number	Description	Qty	Unit Price	Total
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
1124	50/50 POZ CEMENT MIX	131.00	11.5000	1506.50
1118B	PREMIUM GEL / BENTONITE	320.00	.2200	70.40
1111	SODIUM CHLORIDE (GRANULA	253.00	.3900	98.67
1110A	KOL SEAL (50# BAG)	655.00	.4600	301.30

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-593.06

	Description	Hours	Unit Price	Total
368	CEMENT PUMP	1.00	1085.00	1085.00
368	EQUIPMENT MILEAGE (ONE WAY)	30.00	4.20	126.00
368	CASING FOOTAGE	911.00	.00	.00
369	80 BBL VACUUM TRUCK (CEMENT)	2.00	100.00	200.00
558	MIN. BULK DELIVERY	1.00	368.00	368.00

Amount Due 3933.34 if paid after 04/06/2014

Parts:	2006.37	Freight:	.00	Tax:	104.23 AR	3296.54
Labor:	.00	Misc:	.00	Total:	3296.54	
Sublt:	-593.06	Supplies:	.00	Change:	.00	

Signed _____ Date _____

CONSOLIDATED
Oil Well Services, LLC

2666819

TICKET NUMBER 42765
LOCATION Ottawa Ks
FOREMAN Jim Green

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
03-21-14	3392	East Gordon # E-4	NW 27	14	21	JO

CUSTOMER: D&Z Exploration
MAILING ADDRESS: POBOX 159
CITY: ST. ELMO | STATE: IL | ZIP CODE: 62458

TRUCK #	DRIVER	TRUCK #	DRIVER
669	Jim Green		
368	Arl McD		
	Key Cor		
558	Mat Coc		

JOB TYPE Longstring | HOLE SIZE 5 7/8" | HOLE DEPTH 940' | CASING SIZE & WEIGHT 2 1/2"
CASING DEPTH 911.35' | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Held crew meeting. Establish circulation. Mix and pump 100# Gel to flush hole. Mix and pump 131sk 50/50 Poz Mix Cement, with 2% Gel 5% Salt, 5# KS. Circulated Cement to Surface. Flush pump Clear of Cement Pump 2 1/2" rubber plug to total depth of casing. Pressure up to 600# PSI. Held 600# PSI for a 30 min MIT, well held good. Set float

30 min MIT at 600# PSI

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE Cement pump AMD 368		1085.00
5406	30 miles	MILEAGE Pump		126.00
5402	911'	Casing footage		N/C
5407	Min	Ton Mileage		368.00
5502C	2 HRS	Vac Tk		200.00
				1779.00
4402	1	2 1/2" Rubber Plug		29.50
1124	131 sk	50/50 Poz Mix Cement	1506.50	
1118B	320 #	Premium Gel	70.40	
1111	253 #	Granulated Salt	98.67	
1110A	65 #	Kol-Seal	301.30	
		Sub Total	1976.87	
		Material -30% Less	-593.06	3785.37
				-593.06
		Total		3192.31
			SALES TAX	104.23
			ESTIMATED TOTAL	3296.54

completed

Ravin 3737

AUTHORIZTION Dan Beckwith 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.

Johnson County, KS
Well:E. Gordon I-4
Lease Owner:D and Z

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

Commenced Spudding:
03/20/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
5	soil/clay	5
12	sandstone	17
26	shale	43
6	lime	49
5	shale	54
15	line	69
9	shale	78
8	lime	86
9	sandy shale and sand	95
20	lime	115
15	shale	120
20	lime	150
8	shale	158
56	lime	214
21	shale	235
8	lime	243
21	shale	264
7	lime	271
4	shale	275
9	lime	284
35	shale	319
1	lime	3220
11	shale	331
24	lime	355
7	shale	362
24	lime	386
5	shale	391
4	lime	395
5	shale	400
5	lime	405
5	shale	410
17	sandy shale	427
87	shale	514
7	sand	521
6	sandy shale	527
53	shale	580
4	lime	584
2	shale	586
1	lime	587
10	shale	597

Johnson County, KS
Well:E. Gordon I-4
Lease Owner:D and Z

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

Commenced Spudding:
03/20/2014

6	lime	603
19	shale	622
4	lime	626
8	shale	634
1	lime	635
4	shale	639
3	lime	642
34	shale	676
15	sand	691
15	sandy shale	706
39	shale	745
6	broken sand	751
5	sandy shale	756
30	shale	786
4	sand	790
3	sandy shale	793
73	shale	866
3	sand	869
2	sandy lime	871
3	sand	874
1	sand	875
1	sand	876
1	sand	877
1	broken sand	878
8	sandy shale	886
23	shale	909
10	sand	919
21	shale	940-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. # 1-14

Farm E. W. Gardner

KS (State) Johnson (County)

27 (Section) 14 (Township) 22 (Range)

For DFZ Exploration (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

East Center Farm: Dlumer County

KS State; Well No. # 1-4

Elevation 1037

Commenced Spuding 3-20 , 20 14

Finished Drilling 3-21 , 20 14

Driller's Name Chad Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Cole Holcom

Tool Dresser's Name Ryan Ward

Tool Dresser's Name

Contractor's Name TOS

27	14	22
(Section)	(Township)	(Range)

Distance from S line, 3520 ft.

Distance from E line, 4400 ft.

3 - sacks

CASING AND TUBING RECORD

10" Set		10" Pulled	
7" Set	22 8'	8" Pulled	
6¼" Set		6¼" Pulled	
4" Set		4" Pulled	
2 7/8 Set	911	2" Pulled	

CAS

Feet

n.

Thickness of Strata	Formation	Total Depth
5	soil/clay	5
12	sandstone	17
26	shale	43
6	Lime	49
5	shale	54
15	Lime	69
9	shale	78
8	Lime	86
9	sandy shale	95
20	Lime	115
15	shale	130
20	Lime	150
4	shale	154
56	Lime	214
21	shale	235
8	Lime	243
21	shale	264
7	Lime	271
4	shale	275
9	Lime	284
35	shale	319
1	Lime	320
11	shale	331
24	Lime	355
7	shale	362
24	Lime	386
5	shale	391

Remarks

3911

Thickness of Strata	Formation	Total Depth	Remarks
4	Lime	395	
5	shale	400	
5	Lime	405	
5	shale	410	
17	sandy shale	427	
87	shale	514	
7	sand	521	show, no oil
6	sandy shale	527	
53	shale	580	
4	Lime	584	
2	shale	586	
1	Lime	587	
10	shale	597	
6	Lime	603	
19	shale	622	
4	Lime	626	
8	shale	634	
1	Lime	635	
4	shale	639	
3	Lime	642	
34	shale	676	red bed. 647'
15	sand	691	show, no oil
15	sandy shale	706	
39	shale	745	
6	Broken sand	751	odor, very little show
5	sandy shale	756	
30	shale	786	

-4-

-9-

786

Thickness of Strata	Formation	Total Depth	Remarks
4	sand	790	grey, no o.i
3	sandy shale	793	
73	shale	866	
3	sand	869	odor, 80% sol.d, sand blebs
2	sandy lime	871	20% o.i
3	sand	874	40% sol.d o.i
1	sand	875	30% - 40% o.i
1	sand	876	10% - 15% o.i
1	sand	877	25% o.i (laminated)
1	Broken sand	878	2% - 5%
8	sandy shale	886	
23	shale	909	
10	sand	919	white grey sand, no o.i
21	shale	940	TD