Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1179626

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 #: ____

11/26/2013	11/27/2013	11/27/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24243-00-00
Spot Description: ____
NW NE NW NW Sec. 27 Twp. 14 S. R. 22 ☑ East ☐ West
5280 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 #: #N1
Field Name: ____
Producing Formation: Bartlesville
Elevation: Ground: 1028 Kelly Bushing: 0
Total Vertical Depth: 920 Plug Back Total Depth: 883
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: 01/22/2014
☑ **Confidential Release Date:** 01/22/2016
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 01/22/2014

[redacted] 1179626

Operator Name: D & Z Exploration, Inc. Lease Name: East Gordon Well #: #N1

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	838	

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	883	50/50 poz	116	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 #N1
Doc ID	1179626

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	883	50/50 poz	116	none

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 # 264443

Invoice Date: 11/30/2013 Terms: 0/0/30,n/30 Page 1

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

E. GORDON N-1
44890
NW 27-14-22
11-27-2013
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	116.00	11.5000	1334.00
1118B	PREMIUM GEL / BENTONITE	395.00	.2200	86.90
1111	SODIUM CHLORIDE (GRANULA	224.00	.3900	87.36
1110A	KOL SEAL (50# BAG)	580.00	.4600	266.80
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

	Description	Hours	Unit Price	Total
370	80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00
503	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	884.00	.00	.00

Parts:	1804.56	Freight:	.00	Tax:	133.09 AR	3696.65
Labor:	.00	Misc:	.00	Total:	3696.65	
Sublt:	.00	Supplies:	.00	Change:	.00	

Signed _____ Date _____

2644443

TICKET NUMBER 44890
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

CONSOLIDATED
Oil Well Services, LLC
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
11/27/13	3392	E. Gordon # N-1	NW27	14	22	JO

CUSTOMER: Dt 7 Explocation
MAILING ADDRESS: 901 N. Elm St
CITY: St Elmo | STATE: IL | ZIP CODE: 62458

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Casken	✓	Safety Meeting
666	Gar Moo	✓	
503	Dan Dot	✓	
370	Kei Car	✓	

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 920' CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 884' DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 5.12 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 116 sks 50/50 Pozmix cement w/ 2% gel, 5% salt, & 5 # Kolseal per sk, cement to surface, flushed pump & clean, pumped 2½" rubber plug to casing TD w/ 5.12 bbls fresh water, pressure to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00 ✓
5406	30 mi	MILEAGE		126.00 ✓
5402	884'	casing footage		— ✓
5502C	2 hrs	80 Vac		180.00 ✓
5407	minimum	ton mileage		368.00 ✓
1124	116 sks	50/50 Pozmix cement		1334.00 ✓
1118B	395 #	Premium Gel		86.90 ✓
1111	224 #	Salt		87.36 ✓
1110A	580 #	Kolseal		266.80 ✓
4402	1	2½" rubber plug		29.50 ✓
		7.375%	SALES TAX	133.09 ✓
			ESTIMATED TOTAL	3696.65 ✓

completed

Ravin 3737

AUTHORIZTION No Co. Rep. on location 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 N1
Lease Owner:D Z

Town Oilfield Service, Inc.

(913) 837-8400

Commenced Spudding:
11/26/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
21	soil/clay	21
11	shale	32
5	lime	37
6	shale	43
15	lime	58
8	shale	66
9	lime	75
9	sandy shale and sand	84
18	lime	102
15	sandy shale	117
19	lime	136
10	shale	145
52	lime	197
24	shale	221
8	lime	229
18	shale	247
8	lime	255
5	shale	260
8	lime	268
34	shale	302
2	lime	304
10	shale	314
26	lime	340
7	shale	347
23	lime	370
5	shale	375
4	lime	379
5	shale	384
6	lime	390
5	shale	395
7	sand	402
11	sandy shale	413
90	shale	503
7	sand	510
6	sandy shale	516
44	shale	560
7	lime	567
11	shale	578
7	lime	585
16	shale	601

Johnson County, KS
Well:E. Gordon N1
Lease Owner:D Z

Town Oilfield Service, Inc.

(913) 837-8400

Commenced Spudding:
11/26/2013

4	lime	605
8	shale	613
8	lime	621
35	shale	656
20	sand	676
7	sandy shale	683
45	shale	728
6	broken sand	734
10	sandy shale	744
22	shale	766
6	sand	772
5	sandy shale	777
62	shale	839
2	sandy lime	841
2	sand	843
2	sand	845
1	sand	846
3	sand	849
2	sand	851
2	sandy shale	853
6	sand	859
5	sandy shale	864
56	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

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

*** Need these to figure belt length**

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

746 WATTS equal 1 HP

Log Book

Well No. N1

Farm East Gordon

KS (State) Johnson (County)

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

For DTE Exploration (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

East Cr-ck Farm: Johnson County

KS State; Well No. N1

Elevation 1038'

Commenced Spuding 11- 26 20 13

Finished Drilling 11- 27 20 13

Driller's Name David Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Cole Holcum

Tool Dresser's Name

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

27 14 22

(Section) (Township) (Range)

Distance from S line, 5280 ft.

Distance from E line, 4400 ft.

3- Sacks

CASING AND TUBING RECORD

10" Set		10" Pulled	
7 ⅞" Set	24'	8" Pulled	
6¼" Set		6¼" Pulled	
4" Set		4" Pulled	
2⅞ Set	883.90	2" Pulled	
	920 TD		

Thickness of Strata	Formation	Total Depth	Remarks
21	soil / clay	21	
11	shale	32	
5	Lime	37	
6	shale	43	
15	Lime	58	
8	shale	66	
9	Lime	75	
9	sandyshale+sand	84	
18	Lime	102	
15	sandyshale	117	
19	Lime	136	
10	shale	145	
52	Lime	197	
24	shale	221	
8	Lime	229	
18	shale	247	
8	Lime	255	
5	shale	260	
8	Lime	268	
34	shale	302	
2	Lime	304	
10	shale	314	
26	Lime	340	326 - very little show
7	shale	347	
23	Lime	370	
5	shale	375	
4	Lime	379	

379

Thickness of Strata	Formation	Total Depth	Remarks
5	shale	384	
6	Lime	390	Hertha
5	shale	395	
7	sand	402	shey, no oil
11	sand, shale	413	
90	shale	503	
7	sand	510	shey, no oil
6	sand, shale	516	
44	shale	560	
7	Lime	567	
11	shale	578	
7	Lime	585	
16	shale	601	
4	Lime	605	
8	shale	613	
8	Lime	621	
35	shale	656	red bed - 624'
20	sand	676	shey, no oil
7	sand, shale	683	
45	shale	728	
6	Broken sand	734	odor, very little oil
10	sand, shale	744	
22	shale	766	
6	sand	772	no oil
5	sand, shale	777	
62	shale	839	
2	sandy lime	841	odor, 75% - 90% , good bleeding

Thickness of Strata	Formation	Total Depth	Remarks
		841	
2	sand	843	50% o.i
2	sand	845	80%-90% o.i
1	sand	846	60%-70% o.i
3	sand	849	90% - sol.d o.i
2	sand	851	10%-15% o.i
2	sandy shale	853	
6	sand	859	no o.i
5	sandy shale	864	
56	shale	920	TD