Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1179641

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 #: ____

11/22/2013	11/26/2013	11/26/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24244-00-00
Spot Description: ____
NE - NW - NW - NW Sec. 27 Twp. 14 S. R. 22 ☑ East ☐ West
5280 Feet from ☐ North / ☑ South Line of Section
4840 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 #: #N2
Field Name: ____
Producing Formation: bartlesville
Elevation: Ground: 1033 Kelly Bushing: 0
Total Vertical Depth: 920 Plug Back Total Depth: 884
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: ____
☐ **Confidential Release Date:** ____
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrison **Date:** 01/21/2014

[redacted] 1179641

Operator Name: D & Z Exploration, Inc. Lease Name: East Gordon Well #: #N2

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	849	

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	884	50/50poz	128	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

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 # 264389

Invoice Date: 11/27/2013 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-2
44904
NW 27-14-22
11-26-2013
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	128.00	11.5000	1472.00
1118B	PREMIUM GEL / BENTONITE	315.00	.2200	69.30
1111	SODIUM CHLORIDE (GRANULA	248.00	.3900	96.72
1110A	KOL SEAL (50# BAG)	640.00	.4600	294.40
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

	Description	Hours	Unit Price	Total
495	CEMENT PUMP	1.00	1085.00	1085.00
495	EQUIPMENT MILEAGE (ONE WAY)	30.00	4.20	126.00
495	CASING FOOTAGE	884.00	.00	.00
548	MIN. BULK DELIVERY	1.00	368.00	368.00
675	80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00

Parts:	1961.92	Freight:	.00	Tax:	144.69 AR
Labor:	.00	Misc:	.00	Total:	3865.61
Sublt:	.00	Supplies:	.00	Change:	.00

3865.61

Signed _____ Date _____

CONSOLIDATED
Oil Well Services, LLC

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

264389

TICKET NUMBER 44904
LOCATION Ottawa KS
FOREMAN Fred Mader

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-26-13	3392	E Gordon N-2	NW 27	14	22	JO

CUSTOMER: D + Z Exploration Inc
MAILING ADDRESS: 901 N Elm St
CITY: St Elmo | STATE: IL | ZIP CODE: 62458

TRUCK #	DRIVER	TRUCK #	DRIVER
712	Fre Mad		
495	Har Bec		
675	Kai Det		
548	Mik Ham		

JOB TYPE Long String | HOLE SIZE 5 7/8 | 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 2½" Plug
DISPLACEMENT 5.14 13 | DISPLACEMENT PSI | MIX PSI | RATE 5 BPM

REMARKS: Hold crew safety meeting. Establish pump rate. Mix + Pump 100# Gel Flush. Mix + Pump 128 sks 50/50 Por Mix Cement 2% Gel 5% Salt 5# Kol Seal/sk. Cement to Surface. Flush pump + lines clean. Displace 2½" Rubber plug to casing TD. Pressure to 800# PSI. Hold + Monitor pressure for 30 min MIT. Release pressure to set float Valve. Shut in Casing.

TOS Drilling

Fred Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495		1085.00
5406	30mi	MILEAGE	495		126.00
5402	884'	Casing Footage			N/C
5407	Minimum	Ton Miles	548		368.00
5502C	2 hrs	80 BBL Vac Truck	675		180.00
1124	128 sks	50/50 Por Mix Cement			1472.00
1118B	315#	Premium Gel			69.30
1111	248#	Granulated Salt			96.72
1110A	640#	Kol Seal			294.40
4402	1	2½" Rubber Plug			29.50
	1				
			7.375%	SALES TAX	144.69
				ESTIMATED TOTAL	3865.61

completed

Ravin 3737

AUTHORIZTION _____ 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 N2
Lease Owner:D Z

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

Commenced Spudding:
11/22/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
21	Soil-Clay	21
19	Shale	40
6	Lime	46
6	Sand	52
14	Lime	66
8	Sandy Shale	74
9	Lime	83
9	Sandy Shale	92
17	Lime	109
3	Shale	112
14	Sand	126
20	Lime	146
7	Shale	153
54	Lime	207
24	Shale	231
7	Lime	238
20	Shale	258
7	Lime	265
4	Shale	269
9	Lime	278
34	Shale	312
2	Lime	314
11	Shale	325
25	Lime	350
6	Shale	356
24	Lime	380
4	Shale	384
5	Lime	389
5	Shale	394
7	Lime	401
4	Shale	405
7	Sand	412
16	Sandy Shale	428
87	Shale	515
12	Sand	527
7	Sandy Shale	534
42	Shale	576
3	Lime	579
7	Shale	586
6	Lime	592

17	Shale	609
3	Lime	612
7	Shale	619
10	Lime	629
34	Shale	663
21	Sand	684
10	Sandy Shale	694
39	Shale	733
6	Broken Sand	739
10	Sandy Shale	749
21	Shale	770
5	Sand	775
6	Sandy Shale	786
62	Shale	848
1	Lime	849
1	Sandy Lime	850
1	Sandy Lime	851
13	Core	864
6	Sand	870
8	Sandy Shale	878
42	Shale	920-TD

Core		
2	Sand	853
2	Sand	855
2	Sand	857
0.5	Sand	857.5
1.5	Sand	859
1	Sand	860
1	Sand	861
2	Sandy Shale	863
1	Sand	864

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. N2

Farm East Garden

KS (State) Johnson (County)

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

For DIZ Exploration (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

East Gordon Farm: Johnson County

KS State; Well No. N2

Elevation 1033

Commenced Spuding 11-22 20 13

Finished Drilling 11-26 20 13

Driller's Name Chad Weaver

Driller's Name

Driller's Name

Tool Dresser's Name Cole Hokum

Tool Dresser's Name

Contractor's Name TOS

27 (Section) 1'4 (Township) 22 (Range)

Distance from S line, 5280 ft.

Distance from E line, 4540 ft.

2- Sacks

CASING AND TUBING RECORD

10" Set		10" Pulled	
7⅞" Set	24'	8" Pulled	
6¼" Set		6¼" Pulled	
4" Set		4" Pulled	
2⅞ Set	55' 1.30 920 TD	2" Pulled	

(Feet n.

-1-

Thickness of Strata	Formation	Total Depth	Remarks
21	soil/clay	21	
19	shale	40	
6	Lime	46	
6	sandstone/shale	52	
14	Lime	66	
8	sandy shale broken	74	
9	Lime	83	
9	sandy shale	92	
17	Lime	109	
3	shale	112	
14	sand	126	gas, hole full
20	Lime	146	
7	shale	153	
54	Lime	207	
24	shale	231	
7	Lime	238	
20	shale	258	
7	Lime	265	
4	shale	269	
9	Lime	278	
34	shale	312	
2	Lime	314	
11	shale	325	
25	Lime	350	334' - 335' oil
6	shale	356	
24	Lime	380	
4	shale	384	

Thickness of Strata	Formation	Total Depth	Remarks
		354	
35	Lime	389	
5	shale	394	
7	Lime	401	Hardshe
4	shale	405	
7	sand	412	oil & gas
16	sandy shale	428	
87	shale	515	
12	sand	527	gas & oil
7	sandy shale	534	
42	shale	576	
3	Lime	579	
7	shale	586	
6	Lime	592	
17	shale	609	
3	Lime	612	
7	shale	619	
10	Lime & shale	629	
34	shale	663	red bed - 633'
21	sand	684	
10	sandy shale	694	grey, no oil
39	shale	733	
6	Broken sand	739	odor, very little oil
10	sandy shale	749	
21	shale	770	
5	sand	775	no oil
6	sand & shale	781	
	shale	848	

548

Thickness of Strata	Formation	Total Depth	Remarks
1	Lime	549	
1	sandy lime	550	no oil
1	sandy Lime	551	odor, 10%-15% slight bleeding
13	core	564	Rec - 5
6	sand	570	no oil
8	sandy shale	578	
42	shale	920	TD

Thickness of Strata	Formation	Total Depth	Remarks
		851	
2	sand	853	50% - 60%, laminated
2	sand	855	90% solid, good bleeding
2	sand	857	50% - 60%, laminated
0.5	sand	857.5	2%
1.5	sand	859	40% - 60%
1	sand	860	25%, laminated
1	sand	861	2%, laminated
2	sandy shale	863	no oil
1	sand	864	no oil

CASING MECHANICAL INTEGRITY TEST

Disposal ☐ Enhanced Recovery:

NWQ

Repressuring ☒
Flood ☐
Tertiary ☐

Date injection started ____

API # 15 - 091 - 24244

NE NW NW NW, Sec 27, T 14 S, R 22 E/W

5280 Feet from South Section Line
4840 Feet from East Section Line

Lease East Gordon Well # N2

County Johnson

Operator: D+Z Exploration, Inc.

Name & Address: 900 N Elm St. PO Box 159 St. Elmo, IL 62458

Operator License # 34339

Contact Person Zane Belden

Phone 618-829-3274

Max. Auth. Injection Press. ____ psi; Max. Inj. Rate ____ bbl/d;
If Dual Completion - Injection above production ____ Injection below production ____

	Conductor	Surface	Production	Liner	Tubing
Size	____	7	2 7/8	____	Size ____
Set at	____	20	884	____	Set at ____
Cement Top	____	0	0	____	Type ____
" Bottom	____	20	884	____	

DV/Perf. ____ TD (and plug back) ____ 920 ____ ft. depth
Packer type ____ Size ____ Set at ____
Zone of injection ____ — ____ ft. to ft. ____ — ____ Perf. or open hole —

Type Mit: Pressure ☒ Radioactive Tracer Survey ☐ Temperature Survey ☐

FIELD DATA

Time: Start 10 Min. 20 Min. 30 Min.

Pressures: 800 800 800 Set up 1 | System Pres. during test ____
____ ____ ____ Set up 2 | Annular Pres. during test ____
____ ____ ____ Set up 3 | Fluid loss during test ____ bbls.

Tested: Casing ☒ or Casing - Tubing Annulus ☐

The bottom of the tested zone is shut in with Rubber Plug

Test Date 11-26-2013 Using Consolidated Company's Equipment

The operator hereby certifies that the zone between 0 feet and 884 feet was the zone tested

Signature ____ Title ____

The results were Satisfactory X, Marginal ____, Not Satisfactory ____

State Agent Taylor C Herman Title Agent Witness: Yes ___ No X

REMARKS: Well not perforated

☐ Orgin. Conservation Div.; ☐ KDHE/T; [redacted] Dist. Office;

☐ Computer Update

DEC 0 9 2013

KCC Form U-7 6/84