Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1238655

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 FLOWERS
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 #:

11/14/2014	11/19/2014	11/19/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-091-24397-00-00
Spot Description:
NE - SE - SW - SE Sec. 28 Twp. 14 S. R. 22 ☑ East ☐ West
350 Feet from ☐ North / ☑ South Line of Section
1485 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: MEYERS Well #: #I-22
Field Name:
Producing Formation: BARTLESVILLE
Elevation: Ground: 1010 Kelly Bushing: 0
Total Vertical Depth: 960 Plug Back Total Depth: 932
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: 01/14/2015
☑ **Confidential Release Date:** 01/13/2017
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 01/16/2015

1238655

Operator Name: D & Z Exploration, Inc. Lease Name: MEYERS Well #: #I-22

Sec. 28 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	880	

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	932	50/50 POZ	121	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:
_____
_____

Form	ACO1 - Well Completion
Operator	D & Z Exploration, Inc.
Well Name	MEYERS #I-22
Doc ID	1238655

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	932	50/50 POZ	121	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

INOICE Invoice # 802119

Invoice Date: 11/25/2014 Terms: Net 30 Page 1

D & Z EXPLORATION
901 N. ELM ST.
ST. ELMO IL 62458
USA
6188293274

MEYERS # I-22

Part Number	Dscription	Qty	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.00	1,085.00	0.00	1,085.00
5406	Mileage Charge	30.00	4.20	0.00	126.00
5402	Casing Footage	933.00	0.00	0.00	0.00
5407	Min. Bulk Delivery Charge	1.00	368.00	0.00	368.00
5502C	80 Vacuum Truck Cement	2.00	100.00	0.00	200.00
1124	Poz Cement Mix	121.00	11.50	30.00	974.05
1118B	Premium Gel / Bentonite	403.00	0.22	30.00	62.06
1111	Sodium Chloride (Granulated	254.00	0.39	30.00	69.34
1110A	Kol Seal (50# BAG)	605.00	0.46	30.00	194.81
4402	2 1/2 Rubber Plug	1.00	29.50	0.00	29.50

Sub Total	3,666.02
Discounted Amount	557.26
SubTotal After Discount	3,108.76

Amount Due 3,805.19 if paid after 12/25/2014

Tax:	98.07
Total:	3,206.83

CONSOLIDATED
Oil Well Services, LLC

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

Invoice# 802119

TICKET NUMBER 50668 1084
LOCATION Ottawa, KS
FOREMAN Casey Kennedy 1047

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/19/14	3392	Meyers # I-22	SE 28	14	22	JO

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

TRUCK #	DRIVER	TRUCK #	DRIVER
729 ✓	Casken	✓ Safety	Meeting
606 ✓	Kei Car	✓	
558 ✓	Carlton	✓	
370 ✓	Kei Det	✓	

JOB TYPE: longstring | HOLE SIZE: 5 7/8" | HOLE DEPTH: 960' | CASING SIZE & WEIGHT: 2 7/8" EUE
CASING DEPTH: 933' | DRILL PIPE: | TUBING: | OTHER:
SLURRY WEIGHT: | SLURRY VOL: | WATER gal/sk: | CEMENT LEFT in CASING:
DISPLACEMENT: 5.40 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 121 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/ 5.40 bbls fresh water, pressured 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	933'	casing footage		—
5407	minimum	ton mileage		368.00
5502C	2 hrs	80 Vac		200.00
1124	121 Sks	50/50 Pozmix Cement	1391.50	
1118B	403 #	Premium Gel	88.66	
1111	254 #	Salt	99.06	
1110A	1005 #	Kolseal	278.30	
		materials	1857.52	
		-30%	557.26	
		subtotal		1300.26
4402	1	2½ Rubber plug		29.50
			3805.19	
		7.375%	SALES TAX	98.07
			ESTIMATED TOTAL	3206.83

Ravin 3737 completed

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.

TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a "claim") for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS. Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools. Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.

Johnson County, KS
Well: Meyer I-22
Lease Owner:DZ Exploration

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

Commenced Spudding:
11-14-2014

WELL LOG

Thickness of Strata	Formation	Total Depth
0 - 14	Soil & Clay	14
8	Shale	22
5	Lime	27
8	Shale	35
15	Lime	50
10	Shale	60
9	Lime	69
7	Shale	76
26	Lime	102
14	Shale	116
20	Lime	136
14	Shale	150
13	Lime	163
10	Shale	173
33	Lime	206
17	Shale	223
8	Lime	231
22	Shale	253
8	Lime	261
4	Shale	265
7	Lime	272
35	Shale	307
1	Lime	308
12	Shale	320
26	Lime	346
8	Shale	354
21	Lime	375
5	Shale	380
4	Lime	384
5	Shale	389
6	Lime	395
175	Shale	570
5	Lime	575
3	Shale	578
2	Lime	580
13	Shale	593
4	Lime	597
16	Shale	613
4	Lime	617
123	Shale	740

Johnson County, KS
Well: Meyer I-22
Lease Owner:DZ Exploration

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

Commenced Spudding:
11-14-2014

6	Brown Sand	746
6	Grey Sand	752
8	Sandy Shale	760
100	Shale	862
1	Limey Sand	863
2	Oil Sand	865
2	Sand	867
1	Broken Sand	868
7	Oil Sand	875
2	Broken Sand	877
5	Sandy Shale	882
78	Shale	960 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-22

Farm Meyer

KS (State) Johnson (County)

28 (Section) 14 (Township) 22 (Range)

For D+Z Exploration (Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

________ Farm: ____________ County

________ State; Well No. ____________

Elevation ____________

Commenced Spuding 11-14, 20 14

Finished Drilling 11-19, 20 14

Driller's Name ____________

Driller's Name ____________

Driller's Name Kenny Gunn

Tool Dresser's Name Cole Holcom

Tool Dresser's Name ____________

Tool Dresser's Name ____________

Contractor's Name ____________

____

(Section) (Township) (Range)

Distance from ______ line, ______ ft.

Distance from ______ line, ______ ft.

CASING AND TUBING RECORD

10" Set		10" Pulled	
7" Set	20'	8" Pulled	
6¼" Set		6¼" Pulled	
4" Set		4" Pulled	
2 7/8 Set	932.85	2" Pulled	

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.

Thickness of Strata	Formation	Total Depth	Remarks
14	Soil & clay	14	
8	Shale	22	
5	lime	27	
8	Shale	35	
15	Lime	50	
10	Shale	60	
9	lime	69	
7	Shale	76	
26	lime	102	
14	shale	116	
20	lime	136	
14	Shale	150	
13	Lime	163	
10	Shale	173	
33	lime	206	
17	shale	223	
8	lime	231	
22	shale	253	
8	lime	261	
4	shale	265	
7	lime	272	
35	shale	307	
1	lime	308	
12	Shale	320	
26	lime	346	
8	shale	354	
21	lime	375	

375

Thickness of Strata	Formation	Total Depth	Remarks
5	shale	380	
4	lime	384	
5	shale	389	
6	lime	395	Hertha
175	shale	570	
5	lime	575	
3	shale	578	
2	lime	580	
13	shale	593	
4	lime	597	
16	shale	613	
4	lime	617	
123	shale	740	
6	brown sand	746	lite odor no show
6	grey sand	752	no oil
8	sandy shale	760	
100	shale	862	
1	limey sand	863	white, no oil
2	oil sand	865	good bleed, good saturation
2	sand	867	white, no oil
1	broken sand	868	good bleed 70% sand 30% grey sand
7	oil sand	875	good bleed, good saturation
2	broken sand	877	lite bleed, good saturation
5	sandy shale	882	
78	shale	960	TD

NOTES:

960' TD
5⅝ hole
932.85' 2⅞ pipe
20' 7" surface
3 sacks cement
Bonns Well

Rules of Thumb

CEMENTING ANNULUS

2" ID – 6¼" –1 Sack .....5.8'

2" ID – 8" – 1 Sack.....3.1'

3" ID – 8" – 1 Sack.....3.5'

4" ID – 8" – 1 Sack.....4.0'

CAPACITY

2" – 1 BBL. equals.....256'

2½"– 1 BBL. equals.....164'

3" – 1 BBL. equals.....115'

4" – 1 BBL. equals..... 64'

4⅞"– 1 BBL. equals..... 43'

6¼"– 1 BBL. equals..... 26'

8" – 1 BBL. equals..... 16'

WATER – CEMENT RATIO

5.5 gals. to 1 sack – 2½ hours to thicken slurry

7.7 gals. to 1 sack – 2 hours to thicken slurry