



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1133037

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

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 <i>(Amount and Kind of Material Used)</i>	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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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 # 256875

Invoice Date: 02/20/2013 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

DONOVAN #26
38806
19-14-22
02-15-2013
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	130.00	10.9500	1423.50
1118B	PREMIUM GEL / BENTONITE	320.00	.2100	67.20
1111	SODIUM CHLORIDE (GRANULA	252.00	.3700	93.24
1110A	KOL SEAL (50# BAG)	650.00	.4600	299.00
4402	2 1/2" RUBBER PLUG	1.00	28.0000	28.00
	Description	Hours	Unit Price	Total
495	CEMENT PUMP	1.00	1030.00	1030.00
495	EQUIPMENT MILEAGE (ONE WAY)	30.00	4.00	120.00
495	CASING FOOTAGE	930.00	.00	.00
503	MIN. BULK DELIVERY	1.00	350.00	350.00
675	80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00

Parts: 1910.94 Freight: .00 Tax: 143.81 AR 3734.75
 Labor: .00 Misc: .00 Total: 3734.75
 Sublt: .00 Supplies: .00 Change: .00

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

256875

TICKET NUMBER 38806

LOCATION Ottawa KS

FOREMAN Fred Maden

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
2/15/13	3892	Donovan # 26	NE 19	14	22	Jo
CUSTOMER D & Z Exploration			TRUCK #			
MAILING ADDRESS 901 N Elm St			DRIVER		TRUCK #	
CITY St Elmo			DRIVER		TRUCK #	
STATE IL			DRIVER		TRUCK #	
ZIP CODE 62458			DRIVER		TRUCK #	
			DRIVER		TRUCK #	

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 960' CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 930' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 2 1/2" Plug
 DISPLACEMENT 5.4 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Hold crew meeting. Establish pump rate. Mix + Pump 100*
 Gel flush. Mix + Pump 130 sks 50/50 Por Mix Cement 2%
 Gel 5% Salt 5# Kol Seal/sk. Cement to surface. Flush
 pump & lines clean. Displace 2 1/2" Rubber Plug to casing TB.
 Pressure to 800# PSI. Release pressure to set float valve
 Shot in casing.

Tos Drilling - Chad

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1030 ⁰⁰
5406	30 mi	MILEAGE	495	120 ⁰⁰
5402	930'	Casing footage		N/C
5407	minimum	Ton Miles	503	350 ⁰⁰
5502C	2 hrs	80 BBL Vac truck	675	180 ⁰⁰
1124	130 sks	50/50 Por Mix Cement		1423 ⁵⁰
1118B	320*	Premium Gel		67 ²⁰
1117	252#	Granulated Salt		93 ³⁴
1110A	650#	Kol Seal		299 ⁰⁰
4402	1	2 1/2" Rubber Plug		28 ⁰⁰
			7.525%	SALES TAX
				ESTIMATED
				TOTAL
				14381
				3734 ⁷⁵

Completed

Revin 3737

AUTHORIZATION _____ 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: Donovan 26
Lease Owner: D Z Exploration

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

Commenced Spudding:
2/13/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
5	Soil-Clay	5
12	Sandstone	17
27	Shale	44
6	Lime	50
17	Shale	67
6	Lime	73
2	Shale	75
15	Lime	90
8	Shale	98
9	Lime	107
3	Shale	110
1	Lime	111
4	Shale	115
20	Lime	135
16	Shale	151
19	Lime	170
7	Shale	177
56	Lime	233
21	Shale	254
9	Lime	263
19	Shale	282
2	Lime	284
5	Shale	289
5	Lime	294
9	Shale	303
22	Lime	335
1	Shale	336
12	Lime	348
24	Lime	372
8	Shale	380
24	Lime	404
4	Shale	408
4	Lime	412
5	Shale	417
6	Lime	423
112	Shale	535
10	Sand	545
3	Sandy Shale	548
43	Shale	591
12	Lime	603

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times .14 \times h$
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 - $RPM \times d$ over $SPM \times R$

d - $SPM \times R \times D$ over RPM

SPM - $RPM \times D$ over $R \times d$

R - $RPM \times D$ over $SPM \times d$

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

* Need these to figure belt length

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

746 WATTS equal 1 HP

Log Book

Well No. 26

Farm Danvers

KS Johnson
(State) (County)

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

For D&Z Exploration
(Well Owner)

covered

Town Oilfield Services, Inc.

1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
5	soil clay	5	
12	sandstone	17	
27	shale	44	
6	lime	50	
17	shale	67	
6	lime	73	
2	shale	75	
15	lime	90	
8	shale	98	
9	lime	107	
3	shale	110	
1	lime	111	
4	shale	115	
20	lime	135	
16	shale	151	
19	lime	170	
7	shale	177	
56	lime	233	
21	shale	254	
9	lime	263	
19	shale	282	
2	lime & shale	284	
5	lime	289	
5	shale	294	
9	lime	303	
32	shale	335	
1	lime	336	

Thickness of Strata	Formation	Total Depth	Remarks
		336	
12	shale	348	
24	Lime	372	4.00m
8	shale	380	
24	Lime	404	
4	shale	408	
4	Lime	412	
5	shale	417	
6	Lime	423	Harder
12	shale	435	
10	sand	545	
3	sandy shale	548	grey, no oil
43	shale	591	
12	Lime	603	
7	shale	610	
9	Lime	619	
12	shale	631	
3	Lime	634	
6	shale	640	
7	Lime	647	
4	shale	651	
3	Lime	654	
47	shale	701	"660 red bed"
5	sand	706	
6	sandy shale	712	
45	shale	757	
5	sand	762	odor,
7	sandy shale	769	

