



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: _____



1151948

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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> _____ <i>(Submit ACO-4)</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 # 259785

Invoice Date: 06/20/2013 Terms: 0/0/30,n/30

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

EAST GORDON 21
42024
27-14-22
06-17-2013
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	110.00	11.5000	1265.00
1111	SODIUM CHLORIDE (GRANULA	213.00	.3900	83.07
1118B	PREMIUM GEL / BENTONITE	285.00	.2200	62.70
1110A	KOL SEAL (50# BAG)	550.00	.4600	253.00
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

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	.00	.23	.00
510 MIN. BULK DELIVERY	1.00	368.00	368.00
675 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00

Parts:	1693.27	Freight:	.00	Tax:	127.42	AR	3579.69
Labor:	.00	Misc:	.00	Total:	3579.69		
Sublt:	.00	Supplies:	.00	Change:	.00		

Signed _____ Date _____



259785

TICKET NUMBER 42024
LOCATION Ottawa
FOREMAN Alan Mader

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
6-17-13	3392	E Gordon 21	NW 27	14	22	JO
CUSTOMER <u>D+Z Exploration</u>						
MAILING ADDRESS <u>901 N Elm</u>						
CITY <u>St Elmo</u>		STATE <u>IL</u>	ZIP CODE <u>62458</u>			
TRUCK #	DRIVER	TRUCK #	DRIVER			
<u>516</u>	<u>Alan Mader</u>					
<u>368</u>	<u>Art McD</u>					
<u>675</u>	<u>Kei Det</u>					
<u>310</u>	<u>Set Jac</u>					

JOB TYPE long string HOLE SIZE 5 5/8 HOLE DEPTH 960 CASING SIZE & WEIGHT 2 7/8
 CASING DEPTH 931 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING YES
 DISPLACEMENT 5.4 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Hooked to casing, Established rate. Mixed & pumped 100# gel followed by 110 sk 50/50 cement plus 2% gel, 5% salt, 5# Kd seal per gal. Circulated cement. Flashed pump. Pumped plug to casing TD. Well held 800 PSI. Set float. Closed valve

TO: Chad

Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1085.00
5406	30	MILEAGE	368	126.00
5402		casing footage	368	-
5407	min	ten miles	510	368.00
5502L	2	80 uca	675	180.00
1124	110	50/50 cement		1265.00
1111	213 #	salt		83.07
1118B	285 #	gel		62.70
1112A	550	Kd seal		253.00
4402	1	2 1/2 plug		29.50
SALES TAX				127.42
ESTIMATED TOTAL				3579.69

REV JMW

Ravin 3737

AUTHORIZATION

Depe Bolden

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: East Gordon 21
Lease Owner: D Z Exploration

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

Commenced Spudding:
6-14-2013

WELL LOG

Thickness of Strata	Formation	Total Depth
17		17
37	shale	54
5	lime	59
6	shale	65
16	lime	81
9	shale	90
8	lime	98
8		106
17	lime	123
16	shale	139
21	lime	160
9	shale	169
57	lime	226
21	shale	247
8	lime	255
17	shale	272
9	lime	281
3	shale	284
8	lime	292
35	shale	327
1	lime	328
11	shale	339
26	lime	365
7	shale	372
23	lime	395
5	shale	400
4	lime	404
5	shale	409
6	lime	415
5	shale	420
6	sand	426
8	sandy shale	434
95	shale	529
9	sand	538
4	sandy shale	542
47	shale	589
4	lime	593
3	shale	596
2	lime	598
7	shale	605

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. 21

Farm East Gordon

KS Johnson
(State) (County)

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

For D+Z Exploration
(Well Owner)

gone ↓

Town Oilfield Services, Inc.

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

Thickness of Strata	Formation	Total Depth	Remarks
17	oil clay	17	
37	shale	54	
5	Lime	59	
6	shale	65	
16	Lime	81	
9	shale	90	
8	Lime	98	
8	sand & shalesand	106	
17	Lime	123	
16	shale	139	
21	Lime	160	
9	shale	169	
57	Lime	226	
21	shale	247	
8	Lime	255	
17	shale	272	
9	Lime	281	
3	shale	284	
8	Lime	292	
35	shale	327	
1	Lime	328	
11	shale	339	
26	Lime	365	
7	shale	372	
23	Lime	395	
5	shale	400	
4	Lime	404	

404

Thickness of Strata	Formation	Total Depth	Remarks
3	shale	409	
6	Lime	415	Mertha
5	shale	420	
6	sand	426	
8	sandy shale	434	
95	shale	529	
9	sand	538	
4	sandy shale	542	
47	shale	589	
4	Lime	593	
3	shale	596	
2	Lime	598	
7	shale	605	
7	Lime	612	
15	shale	627	
3	Lime	630	
8	shale	638	
9	Lime	647	
38	shale	685	red bed - 652'
12	sand	697	
10	sandy shale	707	
44	shale	751	
5	Broken sand	756	odor, very little oil
10	sandy shale	766	
25	shale	791	
5	sand	796	
4	sandy shale	800	

