





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  <table style="width:100%; border: none;"> <tr> <td style="width:70%; border: none;">Name</td> <td style="width:15%; border: none;">Top</td> <td style="width:15%; border: none;">Datum</td> </tr> </table>	Name	Top	Datum
Name	Top	Datum		

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	---------	-------------	---------------	---------

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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>	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---



**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 # 255671

Invoice Date: 12/31/2012 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

STEED #13  
39012  
21-14-22  
12-28-2012  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	133.00	10.9500	1456.35
1118B	PREMIUM GEL / BENTONITE	323.00	.2100	67.83
1111	SODIUM CHLORIDE (GRANULA	279.00	.3700	103.23
1110A	KOL SEAL (50# BAG)	665.00	.4600	305.90
4402	2 1/2" RUBBER PLUG	1.00	28.0000	28.00
Description		Hours	Unit Price	Total
370	80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00
548	MIN. BULK DELIVERY	1.00	350.00	350.00
666	CEMENT PUMP	1.00	1030.00	1030.00
666	EQUIPMENT MILEAGE (ONE WAY)	30.00	4.00	120.00
666	CASING FOOTAGE	940.00	.00	.00

Parts: 1961.31 Freight: .00 Tax: 147.59 AR 3788.90  
Labor: .00 Misc: .00 Total: 3788.90  
Sublt: .00 Supplies: .00 Change: .00

Signed \_\_\_\_\_ Date \_\_\_\_\_

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
316/322-7022

EUREKA, KS  
620/583-7664

PONCA CITY, OK  
580/762-2303

OAKLEY, KS  
785/672-2227

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/839-5269

GILLETTE, WY  
307/686-4914



Johnson County, KS

Town Oilfield Service, Inc.

Commenced Spudding:

Well: Steed 13

(913) 837-8400

12/26/2012

Lease Owner: D Z Exploration

## WELL LOG

Thickness of Strata	Formation	Total Depth
3	Soil-Clay	3
16	Sandstone	19
45	Shale	64
4	Lime	68
5	Shale	73
15	Lime	88
8	Shale	96
9	Lime	105
8	Shale	113
16	Lime	129
22	Shale	151
16	Lime	167
5	Shale	172
52	Lime	224
27	Shale	251
8	Lime	259
20	Shale	279
6	Lime	285
6	Shale	291
10	Lime	301
33	Shale	334
2	Lime	336
10	Shale	346
26	Lime	372
6	Shale	378
25	Lime	403
3	Shale	406
4	Lime	410
4	Shale	414
8	Lime	422
5	Shale	427
7	Sand	434
9	Sandy Shale	443
97	Shale	540
12	Sand	552
65	Shale	617
3	Lime	620
10	Shale	630
4	Lime	634
7	Shale	641





# 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  $SPM \times d$

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

\* Need these to figure belt length

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

746 WATTS equal 1 HP

# Log Book

Well No. 13

Farm steed

KS Johnson  
(State) (County)

21 14 22  
(Section) (Township) (Range)

For D+2 Exploration  
(Well Owner)

## Town Oilfield Services, Inc.

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





Thickness of Strata	Formation	Total Depth	Remarks
2	soil layer	2	
16	sandstone	18	
45	shale	64	
4	lime	68	
5	shale	73	
15	lime	88	
8	shale	96	
9	lime	105	
8	shale	113	
16	lime	129	
22	shale	151	
16	lime	167	
5	shale	172	
52	lime	224	
27	shale	251	
8	lime	259	
20	shale	279	
6	lime	285	
6	shale	291	
10	lime	301	
33	shale	334	
2	lime	336	
10	shale	346	
26	lime	372	
6	shale	378	
25	lime	403	
3	shale	406	

Thickness of Strata	Formation	Total Depth	Remarks
		406	
4	Lime	410	
4	shale	414	
8	Lime	422	Mertha
5	shale	427	
7	sand	434	
9	sandy shale	443	grey, no oil
97	shale	540	
12	sand	552	grey, no oil
65	shale	617	
3	Lime	620	
10	shale	630	
4	Lime	634	
7	shale	641	
8	Lime	649	
3	shale	652	
2	Lime	654	
35	shale	689	red bed "659-665"
13	sand	702	no oil
16	sandy shale	718	
42	shale	760	
6	Broken sand	766	no oil
12	sandy shale	778	no oil
22	shale	800	
7	sand	807	grey, no oil
5	sandy shale	812	
23	shale	835	
4	sand	839	



