



1234357

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <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  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				

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 <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
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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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Johnson County, KS  
Well: Sugar Ridge N-2  
Lease Owner: D Z

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

Commenced Spudding:  
10/23/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
5	Soil-Clay	5
53	Shale	58
5	Lime	63
3	Shale	66
16	Lime	82
10	Shale	92
9	Lime	101
8	Shale	109
20	Lime	129
14	Shale	143
24	Lime	167
5	Shale	172
54	Lime	226
19	Shale	245
8	Lime	253
21	Shale	274
20	Lime	294
33	Shale	327
5	Lime	332
7	Shale	339
25	Lime	364
8	Shale	371
23	Lime	395
5	Shale	400
5	Lime	405
3	Shale	408
7	Lime	415
68	Shale	483
29	Sandy Shale	512
76	Shale	588
4	Lime	592
2	Shale	594
1	Lime	595
5	Shale	603
5	Lime	608
19	Shale	627
4	Lime	631
126	Shale	757
7	Broken Sand	764
5	Grey Sand	769



# 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  $BPH \times PSI \times .0004$

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. NZ

Farm Sugar Ridge

KS Johnson  
(State) (County)

29 14 22  
(Section) (Township) (Range)

For D+Z Exploration  
(Well Owner)

## 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	
53	shale	58	
5	lime	63	
3	shale	66	
16	lime	82	
10	shale	92	
9	lime	101	
8	shale	109	
20	lime	129	
14	shale	143	
24	lime	167	
5	shale	172	
54	lime	226	
19	shale	245	
8	lime	253	
21	shale	274	
20	lime	294	
33	shale	327	
5	lime	332	
7	shale	339	
25	lime	364	
8	shale	372	
23	lime	395	
5	shale	400	
5	lime	405	
3	shale	408	
7	lime	415	

Herkins







**REMIT TO**  
**FINV**  
 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 # **272169**

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 Invoice Date: 10/31/2014    Terms: 0/30/10,n/30    Page 1  
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D & Z EXPLORATION  
 901 N. ELM ST.  
 P.O. BOX 159  
 ST. ELMO IL 62458  
 (618) 829-3274

SUGAR RIDGE FARMS N-2  
 48281  
 SE29-14-22  
 10-24-14  
 KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	122.00	11.5000	1403.00
1118B	PREMIUM GEL / BENTONITE	405.00	.2200	89.10
1111	SODIUM CHLORIDE (GRANULA	256.00	.3900	99.84
1110A	KOL SEAL (50# BAG)	610.00	.4600	280.60
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-561.76

Description	Hours	Unit Price	Total
370 MIN. BULK DELIVERY	1.00	368.00	368.00
548 80 BBL VACUUM TRUCK (CEMENT)	2.00	100.00	200.00
666 CEMENT PUMP	1.00	1085.00	1085.00
666 EQUIPMENT MILEAGE (ONE WAY)	30.00	4.20	126.00
666 CASING FOOTAGE	946.00	.00	.00

Amount Due 3821.31 if paid after 11/10/2014

Parts:	1902.04	Freight:	.00	Tax:	98.84	AR	3218.12
Labor:	.00	Misc:	.00	Total:	3218.12		
Sublt:	-561.76	Supplies:	.00	Change:	.00		

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



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

272169

TICKET NUMBER 48281  
LOCATION Ottawa, KS  
FOREMAN Casey Kennedy

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/24/14	3392	Sugar Ridge Farms # N-2	SE 29	14	22	JO
CUSTOMER Dt Z Exploration						
MAILING ADDRESS 901 N. Elm St						
CITY St Elmo		STATE IL	ZIP CODE 62458			

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Casey	✓ Safety	Waiting
6060	Kei Car	✓	
548	Dan Waha	✓	
370	Mik Fox	✓	

JOB TYPE long string HOLE SIZE 5 5/8" HOLE DEPTH 280' CASING SIZE & WEIGHT 2 7/8" EUE  
CASING DEPTH 946' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 5.48 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.5 bpm

REMARKS: held safety, waiting, established circulation, mixed & pumped 200 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 122 sks 50/50 Pozmix cement w/ 2% gel, 5% salt, + 5 # Kalscal per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to casing TD w/ 5.48 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

*[Handwritten signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00 ✓
5406	30 mi	MILEAGE		126.00 ✓
5402	946'	Casing footage		368.00 ✓
5407	minimum	1000 mileage		200.00 ✓
5502c	2 hrs	80 Vac		
1124	122 sks	50/50 Pozmix cement	1403.00	✓
118B	405 #	Premium Gel	89.10	✓
1111	256 #	Salt	99.84	✓
1110A	610 #	Kalscal	280.60	✓
		materials	1872.54	
		- 30%	561.76	
		Subtotal		1310.78
4402	1	2 1/2" rubber plug		29.50 ✓
				3821.32
			7.32%	SALES TAX 98.85 ✓
				ESTIMATED TOTAL 3218.12 ✓

Revin 3737

AUTHORIZATION [Signature] 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.