



KANSAS CORPORATION COMMISSION 1160362  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**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: \_\_\_\_\_



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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Miami County, KS  
Well: Batdorf B-22  
Lease Owner: Blue Diamond

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

Commenced Spudding:  
8/26/2013

WELL LOG

Thickness of Strata	Formation	Total Depth
20	soil-clay	20
14	shale	34
22	lime	56
8	shale	64
10	lime	74
7	shale and lime	81
16	lime	97
12	shale	109
12	sand	121
13	sandy shale	134
18	lime	152
84	sandy shale and shale	236
21	lime	257
29	shale	286
4	lime	290
42	shale	332
2	lime	334
14	shale	348
7	lime	355
2	shale	357
14	lime	372
8	shale	380
23	lime	403
5	shale	408
4	lime	412
3	shale	415
6	lime	421
106	shale	527
5	sand	532
4	sandy shale	536
51	shale	587
7	lime	594
34	shale	628
5	lime	633
16	shale	649
3	lime	652
8	shale	660
2	lime	662
7	shale	669
4	lime	673





# 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. B-22

Farm Barndon

KS Missouri  
(State) (County)

2 16 21  
(Section) (Township) (Range)

For Blue Diamond Mining  
(Well Owner)

*cured*

## Town Oilfield Services, Inc.

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

Baldern Farm: Mcium County

KS State; Well No. B-22

Elevation 1034

Commenced Spuding 8-26, 2013

Finished Drilling 8-28, 2013

Driller's Name Chad Weaver

Driller's Name \_\_\_\_\_

Driller's Name \_\_\_\_\_

Tool Dresser's Name Cole Holman

Tool Dresser's Name Brendan Stone

Tool Dresser's Name \_\_\_\_\_

Contractor's Name GOS

2 16 21

(Section) (Township) (Range)

Distance from S line, 3270 ft.

Distance from E line, 1990 ft.

coved

4-sacks

### CASING AND TUBING RECORD

10" Set \_\_\_\_\_ 10" Pulled \_\_\_\_\_

7 7/8" Set 24' 8" Pulled \_\_\_\_\_

6 1/4" Set \_\_\_\_\_ 6 1/4" Pulled \_\_\_\_\_

4" Set \_\_\_\_\_ 4" Pulled \_\_\_\_\_

2 7/8" Set 795 2" Pulled \_\_\_\_\_

763 1/2" Baffle  
699.55 seat nipple  
530 TD


Thickness of Strata	Formation	Total Depth	Remarks
20	soil/clay	20	
14	shale	34	
22	Lime	56	
8	shale	64	
10	Lime	74	
7	shale & Lime	81	
16	Lime	97	
12	shale	109	with some sandy lime
12	sand	121	red bed - 104'
13	sandy shale	134	no oil
18	Lime	152	
84	sandy shale & shale	236	
21	Lime	257	with some Lime seams
29	shale	286	
4	Lime	290	
42	shale	332	
2	Lime	334	
14	Shale	348	
7	Lime	355	
2	Shale	357	
14	Lime	372	
8	Shale	380	
23	Lime	403	
5	Shale	408	
4	Lime	412	
3	shale	415	
6	Lime	421	
			Here the



Shale

421

Thickness of Strata	Formation	Total Depth	Remarks
106	shale	527	
5	sand	532	
4	sandy shale	536	no oil
51	shale	587	
7	Lime	594	
34	shale	628	
5	Lime	633	
16	shale	649	
3	Lime	652	
8	shale	660	
2	Lime	662	
7	shale	669	
4	Lime	673	
29	shale	702	
1	sand	703	
16	conc	719	ston, 2% - 5% oil
9	sandy shale	728	page - 8
92	shale	820	TD

703

Thickness of Strata	Formation	Total Depth	Remarks
2	sand	705	with oil ok bleeding
15	sand	70	solid oil, good bleeding
8	sand	718	Broken sand with some oil
1	Broken sand	719	no oil



**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 # 261838

Invoice Date: 08/30/2013 Terms: 0/0/30,n/30

Page 1

BLUE DIAMOND HOLDINGS, LLC  
P.O. BOX 128  
WELLSVILLE KS 66092  
( ) -

BATDORF B-22  
42422  
NE 2-16-21  
08-28-2013  
KS

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	102.00	11.5000	1173.00
1118B	PREMIUM GEL / BENTONITE	271.00	.2200	59.62
1111	SODIUM CHLORIDE (GRANULA	197.00	.3900	76.83
1110A	KOL SEAL (50# BAG)	510.00	.4600	234.60
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50
1401	HE 100 POLYMER	.50	47.2500	23.63

Description	Hours	Unit Price	Total
503 MIN. BULK DELIVERY	1.00	368.00	368.00
666 CEMENT PUMP	1.00	1085.00	1085.00
666 EQUIPMENT MILEAGE (ONE WAY)	20.00	4.20	84.00
666 CASING FOOTAGE	795.00	.00	.00
675 80 BBL VACUUM TRUCK (CEMENT)	2.00	90.00	180.00

Parts:	1597.18	Freight:	.00	Tax:	118.19	AR	3432.37
Labor:	.00	Misc:	.00	Total:	3432.37		
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  
785/672-8822
- OTTAWA, KS  
785/242-4044
- THAYER, KS  
620/839-5269
- GILLETTE, WY  
307/686-4914
- CUSHING, OK  
918/225-2650



261838

TICKET NUMBER 42422  
 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
8.28.13	1133	Batdorf B.22	NE 2.	16	21	Mi
CUSTOMER <u>Blue Diamond Holdings</u>			TRUCK #			
MAILING ADDRESS <u>P.O. Box 128</u>			DRIVER			
CITY <u>Wellsville</u>	STATE <u>KS</u>	ZIP CODE <u>66092</u>	<u>516</u>	<u>Alan Mader</u>		
JOB TYPE <u>Long string</u>			<u>666</u>	<u>Gar Moo</u>		
CASING DEPTH <u>795</u>	DRILL PIPE	TUBING	<u>675</u>	<u>Ke: Det</u>		
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	<u>523</u>	<u>Dan Det</u>		
DISPLACEMENT <u>4.4</u>	DISPLACEMENT PSI <u>820</u>	MIX PSI <u>200</u>	CEMENT LEFT IN CASING <u>yes</u>			
RATE <u>4 bpm</u>			OTHER <u>743 618</u>			

REMARKS: Hooked to casing. Established rate. Mixed & pumped 1/2 gal polymer to condition hole. Mixed & pumped 100# gel to flowed by 102 sk 50/50 cement plus 5% salt, 5# Kalseal, 2 1/2 gal per sack. Circulated cement. Flushed pump. Pumped plug to baffle. 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	666	1085.00 ✓
5406	20	MILEAGE	666	84.00 ✓
5402	795	Casing footage	666	531.60 ✓
5407	min	ten miles	523	368.00 ✓
5502C	2	80 gal	675	180.00 ✓
1124	102 sk	50/50 cement		1173.00 ✓
118B	271 #	gel		59.62 ✓
111	297 #	salt		76.83 ✓
110A	510 #	Kalseal		231.60 ✓
4402	1	2 1/2 plug		29.50 ✓
1401	1/2 gal	polymer		23.63 ✓
SALES TAX				118.19 ✓
ESTIMATED TOTAL				3432.37 ✓

AUTHORIZATION Byron Villy 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.