

Kansas Corporation Commission Oil & Gas Conservation Division

1137000

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 # | API No. 15 |
|--|--|
| Name: | Spot Description: |
| Address 1: | SecTwpS. R |
| Address 2: | Feet from North / South Line of Section |
| City: State: Zip:+ | Feet from East / West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | □NE □NW □SE □SW |
| CONTRACTOR: License # | County: |
| Name: | Lease Name: Well #: |
| Wellsite Geologist: | Field Name: |
| Purchaser: | Producing Formation: |
| Designate Type of Completion: | Elevation: Ground: Kelly Bushing: |
| New Well Re-Entry Workover | Total Depth: Plug Back Total Depth: |
| Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.): | 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: sx cmt |
| Operator: | |
| Well Name: | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) |
| Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR | Chloride content: ppm Fluid volume: bbls Dewatering method used: |
| Plug Back: Plug Back Total Depth | Location of fluid disposal if hauled offsite: |
| Commingled Permit #: | Operator Name: |
| Dual Completion Permit #: | Lease Name: License #: |
| SWD Permit #: | QuarterSec TwpS. R East West |
| ENHR Permit #: | County: Permit #: |
| GSW Permit #: | |
| Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date | |

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: | | | | | | |

Side Two



| Operator Name: | | | Lease N | Name: | | | _ Well #: | | |
|--|---|---|--------------------------------|-------------|------------------|---|-------------------|--------------------|-------------|
| Sec Twp | S. R | East West | County | : | | | | | |
| NSTRUCTIONS: Show ime tool open and clost recovery, and flow rates ine Logs surveyed. Att | ed, flowing and shut if gas to surface tes | in pressures, wheth t, along with final ch | er shut-in press | sure reache | d static level, | hydrostatic pres | sures, bottom h | ole temperat | ture, fluid |
| Drill Stem Tests Taken (Attach Additional Sh | neets) | Yes No |) | Log | Formation | n (Top), Depth ar | nd Datum | Sam | ıple |
| Samples Sent to Geolo | gical Survey | ☐ Yes ☐ No |) | Name | | | Тор | Datu | ım |
| Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy) | | Yes No |) | | | | | | |
| ist All E. Logs Run: | | | | | | | | | |
| | | CAS Report all strings | ING RECORD set-conductor, su | New | Used | on, etc. | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weig Lbs./ | | Setting Depth | Type of Cement | # Sacks Used | Type and Additi | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | ADDITIO | NIAL CEMENTIN | IC / SOUEE | 7E DECORD | | | | |
| Purpose: | Depth | Type of Cement | WAL CEMENTING # Sacks | | ZE RECORD | Type and I | Percent Additives | | |
| Perforate Protect Casing Plug Back TD Plug Off Zone | Top Bottom | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| | | | | | | | | | |
| Shots Per Foot | PERFORATIO Specify F | ON RECORD - Bridge ootage of Each Interva | Plugs Set/Type I Perforated | | | cture, Shot, Cemen | | t | Depth |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TUBING RECORD: | Size: | Set At: | Packer At | t: L | iner Run: | Yes No | 1 | | |
| Date of First, Resumed P | roduction, SWD or ENF | HR. Producing | | g Gas | s Lift 0 | ther (Explain) | | | |
| Estimated Production Per 24 Hours | Oil B | Bbls. Gas | Mcf | Water | Bb | ols. | Gas-Oil Ratio | G | Gravity |
| DISPOSITION | N OF GAS: | | METHOD OF | COMPLETIC | DN: | | PRODI ICTIC | ON INTERVAL: | |
| Vented Sold | Used on Lease | Open Hole | Perf. | Dually Co | mp. Com | nmingled | TRODUCTIO | AN INTERVAL. | |
| (If vented, Subm | | Other (Specif | v) | (Submit ACC | -5) (Subr | nit ACO-4) | | | |

ONSOLIDATED 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 ______

12/31/2012 Invoice Date: Terms: 0/0/30, n/30Page

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

Parts: Labor: 1961.31 Freight:

.00 Tax:

147.59 AR

.00 Misc:

.00 Total:

3788.90

3788.90

.00 Supplies:

.00 Change:

.00

Signed

Date



LOCATION OHALL KS

FOREMAN Casey Kenned

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 | |
|--|------------|-------------------|---------------|---------------------------------------|---------------------------------------|--------------------|--|--|
| 12/28/12 | 3392 | Steed # | 3 | NE 21 | 14 | 22 | 20 | |
| CUSTOMER | Explorati | on | | | | | 100 To 10 | |
| MAILING ADDRE | ESS | | | TRUCK# | DRIVER | TRUCK# | DRIVER | |
| 901 | U. Elm | St. | | locele | Castley | V Satiety | Meeting | |
| CITY, | | STATE ZIP C | ODE | 548 | KeiCar Mik Hoa | | | |
| St Elu | 20 | 14 60 | 458 | 370 | Jas Ric | | | |
| JOB TYPE_/OU | astring. | HOLE SIZE 55/8 | HOLE DE | 0-10 1 | CASING SIZE & V | VEIGHT 2 % | " EDE | |
| CASING DEPTH 940 DRILL PIPE TUBING OTHER | | | | | | | | |
| SLURRY WEIGH | 1 | SLURRY VOL | WATER (| jal/sk | CEMENT LEFT in | | | |
| | | DISPLACEMENT PSI_ | MIX PSI_ | <u> </u> | RATE 4.56 | pun | 140.20 | |
| REMARKS: Le | ld safety | meeting, esti | blished cir | colation, mi | xed + pur | used 160 | # Previou | |
| 200 40110 | wed by 11 | obly tresh | vator, mi | xed + pumpe | od 133 s | 6 20/00 | Pozuix | |
| comput i | 0/ 2% ge | el, 5% salt | +5# | Sol Seal per | sk, com. | out & | vice | |
| Jushed po | jump clear | - pourped | 2/2"10% | ber plug to | casing | 11 w/ 5 | 44 6615 | |
| fresh wa | ter, press | sured to 80 | 00 ts1, re | lawood press | ere, thet | in casin | 9- | |
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| | | | | | | / (/ | | |
| ACCOUNT | QUANITY of | or HNITS | DESCRIPTION | N of SERVICES or PRO | DUCT | | | |
| CODE | GOANT I | | | - SERVICES OF PRO | DUCT | UNIT PRICE | TOTAL | |
| 5401 | 30 m | | CHARGE | | | | 1030.00 | |
| 5402 | 940' | | | | | | 120.00 | |
| 5407 | | 145 | ing tootage | ge | · · | ••• | 250.05 | |
| 5502C | 2 hrs | 80 | milage | | | | 350.00 | |
| 33020 | a Nis | | Cuc. | | · · · · · · · · · · · · · · · · · · · | | 180.00 | |
| | | * | 0. | | | - | | |
| 1124 | 133 sk | 50/6 | a Pazinis | cement | | | 1456.35 | |
| 111813 | 323 # | | enion G | | | | | |
| 1111 | 279 th | | | | | 180 | 67.83 | |
| | | + Kol | Carl | | | | 103.23 305.90 | |
| 1116A 4402 |) | 25 | Seal s'rubber | ol. 2a | | | 28.00 | |
| 1100. | <u> </u> | <u> </u> | 1 Conset |) | | | | |
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| | | | | s :: | Ph. | | | |
| lavin 3737 | | | | | 7,525% | SALES TAX | 147.59 | |
| avni 3/3/ | | | | | 55671 | ESTIMATED TOTAL | 3788.90 | |
| | 1)2 C. P. | or a location | | \sim | 0001 | IOIAL | 2100.10 | |

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: Steed 13
(913) 837-8400

Commenced Spudding: 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 |

Johnson County, KS Well: Steed 13 (913) 837-8400 Commenced Spudding: 12/26/2012

Well: Steed 13 Lease Owner: D Z Exploration

| 8 | Lime | 649 |
|----|-------------|--------|
| 3 | Shale | 652 |
| 2 | Lime | 654 |
| 35 | Shale | 689 |
| 13 | Sand | 702 |
| 16 | Sandy Shale | 718 |
| 42 | Shale | 760 |
| 6 | Broken Sand | 766 |
| 12 | Sandy Shale | 778 |
| 22 | Shale | 800 |
| 7 | | 807 |
| 5 | Sand | |
| | Sandy Shale | 812 |
| 23 | Shale | 835 |
| 4 | Sand | 839 |
| 4 | Sandy Shale | 843 |
| 22 | Shale | 865 |
| 2 | Sand | 867 |
| 13 | Shale | 880 |
| 2 | Sandy Lime | 882 |
| 12 | Core | 894 |
| 38 | Shale | 932 |
| 10 | Sand | 942 |
| 37 | Shale | 979-TD |
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| | Core | |
|---|------------|-----|
| | | 882 |
| 1 | Sandy Lime | 883 |
| 1 | Sand | 884 |
| 3 | Sand | 887 |
| 3 | Sand | 890 |
| 1 | Sand | 891 |
| 3 | Shale | 894 |
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Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D²x.14xh 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 - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMxD

BELT LENGTH - 2C + 1.57(D + d) + $(D-d)^2$

* Need these to figure belt length

TO FIGURE AMPS:

WATTS = AMPS **VOLTS**

746 WATTS equal 1 HP

Log Book

| Well No. | > | |
|------------|--------------|----------|
| | | |
| | | |
| 7 | | |
| Farm Salec | 2 | |
| 4. | | |
| 79 | | |
| KS | 7 | Juccon |
| (State) | | (County) |
| / | | |
| | | |
| 21 | 1,7 | 33 |
| (Section) | (Township) | (Range) |
| | | |
| 1 | | |
| For 0+2 | EXplose | Noit |
| | (Well Owner) | |

Town Oilfield Services, Inc.

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

| Steed Farm: Samson County | CA | ASING AN | ND TUBING | MEASU | JREMENTS | |
|---------------------------------------|------|---------------|-----------|--------------|----------|-----|
| State; Well No. 13 | Feet | ln. | Feet | In. | Feet | In. |
| Elevation 1034 | | | | | | |
| Commenced Spuding 20 20 | | | | | | |
| Finished Drilling 12-28 2012 | | | | | | |
| Driller's Name Chica Wesuv | | | | | | |
| Driller's Name | | | | | | |
| Driller's Name | | | | | | |
| Tool Dresser's Name Brandon Stone | | | | | | |
| Tool Dresser's Name cclc Halcom | | | | | | |
| Tool Dresser's Name | | | | | | |
| Contractor's Name | | | | | | |
| 21 14 22 | | | | | | |
| (Section) (Township) (Range) | | | | | | |
| Distance from line,t\s\circ\circ}_tt. | | | | | | |
| Distance from line, 3.30ft. | | - | | \sqcup | | |
| 0434-0855 - Alms | | \perp | | | | |
| | | | | \parallel | | |
| coved | | $+\parallel$ | | \parallel | | |
| | | +-+ | | $-\parallel$ | | |
| CASING AND TUBING | | +-+ | | $\ \cdot\ $ | | |
| RECORD | | +-+ | | $\ \cdot\ $ | | |
| nesone . | | $+-\parallel$ | | | | |
| 10" Set 10" Pulled | | +- | | +- | | |
| - | | + | | | | |
| 7 8" Set 8" Pulled | | + | | | | |
| 6¼" Set 6¼" Pulled | | + + | | | | |
| 4" Set 4" Pulled | | | | | | |
| 2"7 Set 410 2" Pulled | | | -1- | | | |

| Thickness of Strata | Formation | Total Depth | Remarks |
|---------------------|-------------|----------------|---------|
| - 3 | soil lelent | 3. | |
| 16 | surd stone | 101 | |
| 45 | Speile | 64 | |
| 1-1 | 1 me | 68 | |
| 5 | chale | 73 | |
| 5 | Lime | 88 | |
| 8 | Shale | 96 | |
| 9 | 1.111 | 105 | |
| જ | shale | 113 | |
| 16 | Lime | 129 | |
| 33 | Shale | 151 | |
|)(| Linge | 167 | |
| 5 | Shorte | 172 | |
| 52 | Lime | 3371 | |
| 27 | shale | 251 | |
| <u> </u> | Lime | 259 | |
| 20 | shalle | 279 | |
| | 7.1116 | 253 | |
| (p | shorte | 291 | |
| 10 | Lime | 105 | |
| 3.3 | shale | 22,1 | |
| | Lime | 336 | |
| 10 | Shorte | 346 | |
| 26 | Line | 375 | |
| | simile | 378 | |
| 25 | Livice | 50 ti | |
| | Shele | 406 | |

| 71:1 | | 1406 | _ |
|------------------------|-------------|----------------|--|
| Thickness of Strata | Formation | Total Depth | Remarks |
| ·-1 | Lime | 410 | |
| 4 | Shorte | 11 L' | |
| 8 | Lime | 422 | 1-lex 1/2 c |
| - | shale | 727 | |
| -7 | sind | 1314 | eve no mi) |
| 9 | surdy shale | 443 | SVE y, VICTOR |
| 97 | shale | 540 | |
| 12 | =440 | 552 | - ine u no ou |
| 65 | shorte | (617 | |
| 3 | 3.m.s | 670 | |
| 10 | shale | 630 | |
| F | Lime | 453 | |
| ٦ | shale | 143 | |
| <u> </u> | T-1116 | 249 | |
| 3 | shale | 452 | |
| 2 | Lime | 654 | |
| 35 | Shele | 689 | red bod "csq-ccs" |
| 1.3 | sind | 702 | 13 00 |
| 16 | send, shale | 7118 | |
| 1+2 | shale | 760 | |
| (, | Broken sand | 760 | ~ o.\ |
| 12 | sundy shele | 778 | ~~ o ~ \ |
| 37 | shede | ×00 | |
| | send | 507 | ene x 100 00 |
| 5 | and, shale | 815 | ************************************** |
| 23 | shale | 835 | |
| F. | Send | 234 | |

839

| Thickness of Strata Strata Formation Total Depth Remarks A A A A A A A A A A A A A | | | 351 | |
|---|------------------------|-------------|----------------|-------------------------------|
| 13 Shale \$67 13 Shale \$50 2 endy time \$52 adm, at a black, \$50 sold 13 eora \$64 28 Shale 922 10 sand 912 say, no all 27 shale 974 70 | Thickness of Strata | Formation | Total Depth | Remarks |
| 13 shale 450 2 sandy 1 me 582 adm, all, at black, 50/2 sold 28 Style 922 30 sand 912 sony, ne all 27 shale 974 10 | | sendy shale | 843 | 843 |
| 13 shale 450 2 sardy ime 582 oder, all ak ldeed, 50% sold 13 core 5614 24 shale 422 30 sand 6142 shey no oll 27 shale 974 70 | 22 | shale | 865 | |
| 2 sendy hime 882 oder, and, at blaced, 50% sold 28 Sixile 922 30 send 942 sery, 110 and 37 sheele 974 710 | | sand | 867 | |
| 12 core 864 38 Syle 922 10 sculd 923 srey, 110 01 27 sluite 924 10 | 13 | shale | 440 | |
| 12 core 864 38 Syle 922 10 sculd 923 srey, 110 01 27 sluite 924 10 | | sendy lime | 225 | odor, oil ox bleed, solo sold |
| 27 Eliche 979 30001 | 1.5 | 2000 | 801.7 | , |
| 37 shale 974 7D | 38 | Shale | 432 | |
| | | sound | 942 | snay, ne o.l |
| | 3.7 | shocke | 979 | ar |
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| | COVE | Total | |
|------------------------|------------|----------------|-------------------|
| Thickness of Strata | Formation | Total Depth | Remarks |
| | soud, Lime | 553 | 5690 669c |
| | · wd | 44 | 8000 |
| 3 | send | 887 | 50.6 |
| 3 | send | 890 | Laminated 40% 50% |
| | sind | 260 | Laminated no oil |
| | shale | 8014 | 10000 |
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