



KANSAS CORPORATION COMMISSION 1064711  
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: \_\_\_\_\_



1064711

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				

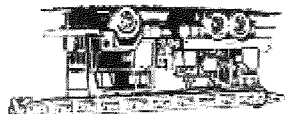
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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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<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# McPherson Drilling Co.

15256 112th Road  
 Winfield, Kansas 67156  
 Phone/Fax: 620-221-3560

INVOICE

Customer: BC Management Services Corp.  
 1432 Nighthawk Rd  
 Yates Center, KS 66783

Date: 8/3/2011  
 Invoice No.: 20110803

Terms: Due on receipt

DESCRIPTION	QTY	RATE	AMOUNT
Lease name: Darfus-Stewart #17-2 TD: 466'; set 466' 8 5/8" casing Cemented with 120 sx pos mix; pumped plug to 440'	466	12.50	5,825.00
	1	3,000.00	3,000.00

Total	\$8,825.00
Payments/Credits	\$-6,000.00
Balance Due	\$2,825.00

If mailing payment please send to:  
 McPherson Drilling Co.  
 PO Box 41  
 Burden, KS 67019

Thank you for your business! *CK 8762*  
 Bill McPherson *CK #8773*

BARTLESVILLE, OK 918/38-0808

ELDORADO, KS 316/22-7022

EUREKA, KS 620/583-7664

GILLETTE, WY 307/686-4914

OAKLEY, KS 785/672-2227

OTTAWA, KS 785/242-4044

THAYER, KS 620/839-5269

WORLAND, WY 307/347-4577

Signed \_\_\_\_\_

Date \_\_\_\_\_

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Parts: 2141.80 Freight: .00 Tax: 145.64 AR 4387.55
Labor: .00 Misc: .00 Total: 4387.55
Sublt: .00 Supplies: .00 Change: .00
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Part Number	Description	Qty	Unit Price	Total
1126A	THICK SET CEMENT	100.00	18.3000	1830.00
1110A	KOL SEAL (50# BAG)	500.00	.4400	220.00
1123	CITY WATER	3000.00	.0156	46.80
4404	4 1/2" RUBBER PLUG	1.00	45.0000	45.00
437	80 BRL VACUUM TRUCK (CEMENT)	4.00	90.00	360.00
479	TON MILEAGE DELIVERY	385.01	1.26	485.11
520	CEMENT PUMP	1.00	975.00	975.00
520	EQUIPMENT MILEAGE (ONE WAY)	70.00	4.00	280.00
Description		Hours	Unit Price	Total

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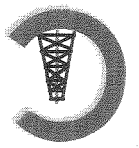
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Invoice Date: 08/18/2011 Terms:
Page 1
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INVOICE # 243485

**REMIT TO**  
 Consolidated Oil Well Services, LLC  
 Dept. 970  
 P.O. Box 4346  
 Houston, TX 77210-4346

**CONSOLIDATED**  
Oil Well Services, LLC



MAIN OFFICE  
 P.O. Box 884  
 Chanute, KS 66720  
 620/431-9210 • 1-800/467-8676  
 FAX 620/431-0012



Geological Report

Darfus Stewart #17-2  
330' FNL; 2127' FEL  
NW NW NE; Sec. 17, T33S; R6E  
Cowley County, KS  
API # 035-24434-00-00

**Operator:** B-C Steel, LLC, C/O Bert Carlson, 209 North Fry, Yates Center, KS, 66783. (License # 33734)

**Drilling Contractor:** Hat Drilling, Midway Mud Rotary Rig #2.

**Wellsite Geologist:** Mark Brecheisen.

**Dates Drilled:** August 9th, 2011 to August 11th, 2011.

**Size Hole:** 8 1/4"

**Total Depth:** 3190'

**Elevation:** 1337'

**Drilling Fluid:** Freshwater, bentonite and additives.

**Surface Casing:** 300' of 8-5/8" casing cement to surface.

**Formation Tops:** Formation tops were picked from cased-hole electric logs.

**Field Name:** Wilson

**Status:** Oil Well.

**Oil Shows:** Altamont Limestone @ 2786'-2754';  
Pawnee Limestone @ 2798'-2804';  
Fort Scott Limestone @ 2850'-2854';  
Mississippian Chert (chat) @ 3122'-3124' & 3137'-3139'

**Gas Shows:** Mulberry Coal @ 2786'-2788', 56 unit gas kick on hotwire.  
Pawnee Limestone @ 2798'-2804', 33 unit gas kick on hotwire.  
Lexington Coal and Shale @ 2816'-2820', 48 unit gas kick on hotwire.  
Fort Scott Limestone @ 2850'-2854', 66 unit gas kick on hotwire.  
Mulky Shale and Coal @ 2858'-2862' 34 unit gas kick on hot wire.

**Water Encountered:** No appreciable water encountered upon drilling.

**On Location:** August 09, 2011, @ 11:30 AM: Left location @ TD. Well Depth of 3190' @ 11:23 AM. August 11<sup>th</sup>, 2011.

1800'-2580': Samples examined for oil content – no sample description available. No oil content observed within this interval; no petroliferous odor/show.

2580'-2590': Limestone, dusky yellowish brown to olive gray, fine crystalline, fairly hard, sucrosic. No petroliferous odor/show.

2590'-2600': South Mound Shale, black, carbonaceous in part; trace of thinly banded vitrain coal present.

2603'-2625': Shale, medium dark gray with traces of red shale present, soft, silty to sandy with few scattered sandstone laminae present.

2625'-2637': Limestone, olive gray, fine crystalline, hard, dense, slightly sucrosic, mottled, no visible porosity. No fluorescence, no petroliferous odor/show.

2637'-2649': Shale, dark gray with traces of red shale present. Soft, greasy to silty/sandy. Traces of black shale present. Calcareous in part, carbonaceous in part

#### Top of Lenapah Limestone @ 2649'(-1329')

2649'-2652': Limestone, olive gray, fine crystalline, hard, dense, sucrosic. No fluorescence, no petroliferous odor/show.

2652'-2666': Cleveland Sandstone, light to medium gray, very fine grained, well sorted with sub-angular to sub-rounded grains, fairly friable, argillaceous, no visible oil staining present.

2666'-2722': Shale, medium to medium dark gray, silty/sandy, fairly hard.

#### Top of Altamont Limestone @ 2722'(-1385')

2722'-2770': Limestone, dark yellowish brown to olive gray, fine crystalline, good friability, good inter-crystalline porosity in some samples, hard, dense in basal section. A drilling break was encountered from 2744'-2754', a description of that interval is as follows:

- Limestone, light brown to olive gray, fine crystalline, good friability, pinpoint and vugular porosity on samples with light brown oil stain, saturation is uneven, fair to good milky blue cut with good residual oil show to tray under ultraviolet light. Wet acid cut left visible oil in dimple tray under white light indicating good oil saturation. Overall, 60% mottled, bright yellow hydrocarbon fluorescence, excellent petroliferous odor/good show.

It should be noted that a strong petroliferous odor was observed on the drilling floor when this interval was cut. No appreciable gas kick was observed after drilling this interval.

2770'-2786': Shale, medium to medium dark gray with traces of red shale present. Soft and greasy to silty/sandy.

2786'-2788': Mulberry Coal, thinly banded vitrain coal, < 10% flat cleat faces, many conchoidal fractures present. A 56 unit gas kick was observed, on the hotwire, after drilling this interval.  
2788'-2790': Shale, dark gray with traces of white underclay present.

Top of Pawnee Limestone @ 2790'(-1453')

2790'-2816': Limestone, dark to dusky yellowish brown, fine crystalline, mottled, very hard, dense, no visible porosity, sucrosic in part. A drilling break was encountered from

2798'-2804', A description of that interval is as follows:

● Limestone, dark yellowish brown, fine crystalline, pinpoint and vugular porosity on 40% to 50% of samples. These samples exhibited mottled to even light brown oil stain on their surfaces, saturation was mottled to even. When tested for oil content, samples showed a slow, uneven, fair to good milky blue cut; oil visible in dimple tray with wet acid cut, good residual show to tray after cut when examined under ultraviolet light. Strong petroliferous odor/good show.  
A 36 unit gas kick was observed on the hot wire after drilling this interval.

2816'-2820': Lexington Shale, black, fissile, and carbonaceous in part. A 48 unit gas kick was observed, on the hot wire, after drilling this interval.

2820'-2827': Shale, dark gray, hard, and calcareous in part.

Top of Fort Scott Limestone @ 2827'(-1490')

2827'-2847': Limestone, pale yellowish brown, fine crystalline, very friable, mottled in part, good inter-crystalline porosity. A drilling break was encountered from 2850'-2854': a description of that interval is as follows:

● Light brown oil stain on many sample surfaces, staining is mottled to mostly even, saturation is poor to fair; slow, uneven, fair milky blue cut; fair residual oil show to tray after cut when examined under ultraviolet light. No residual show to tray in white light. 25% mottled to even bright yellow hydrocarbon fluorescence. Good petroliferous odor/fair show.  
A 66 unit gas kick was observed on the hot wire, after drilling this interval.  
2847'-2854': Summit Shale, dark to black, carbonaceous in part.  
2854'-2858': Limestone, pale yellowish brown, fine crystalline, fairly friable, sucrosic. 60% even medium bright yellow hydrocarbon fluorescence.  
2858'-2862': Milky Shale and Coal, shale dark gray to black, carbonaceous, pyritic with traces of thinly banded vitrain coal present. A 34 unit gas kick was observed, on the hot wire, after drilling this interval.

Top of the Cherokee Group @ 2862'(-1525')

2862'-2916': Shale medium dark gray, silty/sandy, micaceous in part, fairly soft, traces of sandstone present; medium dark gray, very fine grain, well sorted with subangular to subrounded grains, very friable micaceous.



*Handwritten notes:*  
3140-3190  
3119-3140

T.D. @ 3190' @ 11:23 pm, August 11<sup>th</sup>, 2011

3140'-3190': Limestone (60%), olive gray fine crystalline, very hard, dense, sucrosic, no visible porosity. Shale (40%), medium dark gray to dark gray, soft, greasy, calcareous. 5% trace, even, dull yellow mineral fluorescence. No petroliferous odor/show.

No gas show detected after drilling this interval. Mississippian is nonviable for commercial production due to poor oil content and low porosity.

petroliferous odor/poor show.  
yellow mineral and hydrocarbon fluorescence. Weak  
under ultraviolet light. Overall 20% pin point to mottled bright  
poor milky blue cut. Samples exhibit fair residual show to tray  
percentage of total chert samples. Samples exhibit slow, uneven  
mottled oil stain present. Samples containing oil represent a small  
Samples drusy in appearance with light brown pinpoint to  
samples present with pinpoint and vugular porosity present.  
• Chert amorphous for most samples containing oil, few tripolitic  
samples present with pinpoint and vugular porosity present.

3119'-3140': Shale (40%), medium to dark gray pyritic in part, traces of pale green and dusky blue shale present. Limestone (35%) pale yellowish brown, fine crystalline, fairly friable glauconitic. Chert (25%) yellowish gray to light brown, very hard, amorphous. Oil shows from 3122'-3124' and 3137'-3139' are described as follows:

Top of the Mississippian @ 3119' (-1782')

2949'-3119': Shale, medium to dark gray with traces of pale green, red and black present. Soft, greasy to silty/sandy. Few traces of interbedded limestone and sandstone present. Pyrite traces observed with black shale. Overall no fluorescence, no petroliferous odor/show.

2944'-2949': Shale medium dark gray to black, carbonaceous in part, gas bubbles observed popping out of some black shale samples. No gas show on hot wire.

2942'-2944': Limestone, very dusky red, very fine crystalline, extremely hard, dense, no visible porosity. Trace of mottle dull yellow fluorescence, no petroliferous odor/show.

Top of the Ardmore (Verdigris) Limestone @ 2942' (-1605')

2916'-2942': Shale, medium to dark gray with traces of black shale and coal present. Fissile in part, pyritic in part, silty/sandy in part, traces of sandstone present-medium dark gray, very fined grain, micaceous argillaceous, slight oil staining on surface of few samples, no saturation. Overall trace off mottled, very dull yellow hydrocarbon fluorescence. No petroliferous odor/show.

argillaceous. Trace of even variegated, yellow mineral fluorescence.  
No petroliferous odor/show.