

Kansas Corporation Commission Oil & Gas Conservation Division

1064711

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 🔲 East 🗌 West
Address 2:	Feet from North / South Line of Section
City:	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?
If Workover/Re-entry: Old Well Info as follows:	
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	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:
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or 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 I II Approved by: Date:

Side Two



Operator Name:			Lease Name	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether set, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc. Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (00115575	DECORD			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	d		Type and F	Percent Additives	
Shots Per Foot		ON RECORD - Bridge Plu ootage of Each Interval Pe				cture, Shot, Cement mount and Kind of Ma	•	d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	bls. (Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify) _						

McPherson Drilling Co.

15256 112th Road Winfield, Kansas 67156

Phone/Fax: 620-221-3560

Invoice No.:



Customer: 8/3/2011

BC Management Services Corp. 1432 Nighthawk Rd

Yates Center, KS 66783

Lerms: Due on receipt

20110803

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

9298-734/008-1 • 0129-154/029 Chanute, KS 66720 P.O. Box 884 MAIN OFFICE

OT TIMBR

Dept. 970 Consolidated Oil Well Services, LLC

P.O. Box 4346

KZ

08-12-11





Houston, TX 77210-4346 FAX 620/431-0012

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bsde Terms: Invoice Date: 08/18/2011

Invoice #

IJ-338-6E 31417 DARFUS STEWART 17-2

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P.O. BOX 326 **509 M. FRY** B.C. STEEL GAS LLC

88499 YATES CENTER KS

(950)952 - 5333

Description

Description Total Qty Unit Price Part Number

4 I/S MEBEE BEAG

KOP SEPP (20# BPG)

THICK SET CEMENT

CILX WATER

II.284 J.26 10.28E 360.00 00.06 00°₽ Total Hours Unit Price

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EQUIPMENT MILEAGE (ONE WAY) 250

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Date

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KS	LOCATION EWEKA,
31417	TICKET NUMBER

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account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form. I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's

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Monde

Geological Report

Darfus Stewart #17-2
330' FNL; 2127' FEL
Cowley County, KS
Cowley County, KS

B-C Steel, LLC., C/O Bert Carlson, 209 North Fry, Yates Center, KS,

66783. (License # 33734)

Hat Drilling. Midway Mud Rotary Rig #2.

Wellsite Geologist: Mark Brecheisen.

Drilling Contractor:

:balling sated

Operator:

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

Oil Well.

Vilo :suiris

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 hotwire.

Water Encountered: No appreciable water encountered upon drilling.

On Location: August 09, 2011, @ 11:30 AM; Left location @ TD. Well Depth of 3190° $\widehat{\mathbb{Q}}$ 11:23 AM. August \mathbb{H}^{h} , 2011.

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

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

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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 (a) 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

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

Top of Altamont Limestone (a) 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 underelay present.

Top of Pawnee Limestone (a) 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': Mulky 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.

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

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.

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

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.

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.

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.

Top of the Mississippian a 3119' (-1787')

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:

Chert amorphous for most samples containing oil, few tripolitic samples present with pinpoint and vugular porosity present. Samples drusy in appearance with light brown pinpoint to mottled oil stain present. Samples. Samples exhibit slow, uneven percentage of total chert samples. Samples exhibit slow, uneven under ultraviolet light. Overall 20% pin point to mottled bright under ultraviolet light. Overall 20% pin point to mottled bright petroliferous odor/poor show.

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

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 odo r/show.

T.D. ® 3190' ® 11:23 pm, August 11 $^{\text{th}}$, 201T

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