

Kansas Corporation Commission Oil & Gas Conservation Division

1063610

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:	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?
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:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec Twp S. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: 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 Name	e:		_ Well #:	
Sec Twp	S. R	East West	County:				
ime tool open and clo	sed, flowing and shut s if gas to surface tes	I base of formations pe -in pressures, whether st, along with final chart well site report.	shut-in pressure	reached static level	, hydrostatic press	sures, bottom h	ole temperature, fluid
Orill Stem Tests Taken (Attach Additional S	heets)	Yes No		Log Formatio	on (Top), Depth ar	nd Datum	Sample
Samples Sent to Geolo	ogical Survey	Yes No	N	lame		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	Electronically	Yes No Yes No Yes No					
ist All E. Logs Run:							
			RECORD	New Used intermediate, product	ion, 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
		ADDITIONA	L CEMENTING / S	SQUEEZE RECORD			
Purpose: — Perforate — Protect Casing — Plug Back TD — Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	
Shots Per Foot	PERFORATION Specify F	ON RECORD - Bridge Plu ootage of Each Interval Pe	gs Set/Type rforated		acture, Shot, Cemen mount and Kind of Ma		d Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed I	Production, SWD or EN	HR. Producing Me	thod:	Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water B	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS: Used on Lease mit ACO-18.)	Open Hole		ually Comp. Co	mmingled omit ACO-4)	PRODUCTIO	ON INTERVAL:

Geological Report

Gammon #20-1 970' FSL; 985' FWL Cowley County, KS

VbI #12-032-54400-00

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

.68/90

Drilling Contractor: Landmark Drilling Company. Mud Rotary Rig #2.

Wellsite Geologist: Mark Brecheisen.

Dates Drilled: April 15th, 2011 to April 18th, 2011.

Size Hole: 7 7/8"

Total Depth: 2650'; RTD 2654'

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Elevation: 1307'

Drilling Fluid: Freshwater bentonite and additives.

Surface Casing: 450' of 8-5/8" casing cemented with 250 sx of cement to surface.

Formation Tops: Formation tops were picked from the electric logs.

Field Name: Donelson West.

Status: Oil Well.

Oil Shows: Altamont Limestone @2585'-2591'.

Gas Shows: Layton Sandstone @2182'-2200', 60 unit gas kick on hot wire.
Altamont Limestone @2585'-2591', 450 unit gas kick on hot wire.

Water Encountered: No appreciable water encountered upon drilling.

On Location: April 15th, 2011, 1:00 pm. Left location after TD and logging @4:30 am, April 19th, 2011.

Samples not examined. :'0001-'0

mineral fluorescence. No petroliferous odor/show. glauconitic in part, micritic to clean. Overall, 20% mottled to even, variegated fine grained, well-sorted with sub-angular to well rounded grains, fairly friable, Traces of interbedded sandstone present, very light gray to moderate brown, very red and black shale scattered throughout, soft, greasy. Traces of pyrite present. sample surfaces. Interbedded shale present, medium to dark gray with dusky green, part. No visible porosity or staining present. Few traces of black bitumen on few brown, fine to medium crystalline, mottled in part, hard, fairly dense, glauconitic in 1000'-1108': (Topeka Limestone Section) Limestone, pale yellowish brown to moderate olive

even, dull, yellow mineral fluorescence. No petroliferous odor/show. friable, mottled, no visible staining present. Trace sandstone present. Overall, 30% Limestone present, pale yellowish brown to olive gray, fine crystalline, fairly 1108'-1129': Shale, medium gray to black, soft, greasy, fissile and carbonaceous in part.

fluorescence. No petroliferous odor/show. present. Traces of medium dark gray shale present. Less than 3% even, dull mineral unconsolidated sand grains in sample, very clean, poorly cemented, no staining sorting with sub-angular to well-rounded grains, very friable. Lots of 1129'-1154': Elgin Sandstone, off-white to very light gray, very fine to medium grained, fair

visible stain present. 3% even, dull mineral fluorescence. No petroliferous clean, lots of unconsolidated sand grains present in sample, calcite cemented, no with sub-angular to well-rounded grains, fairly friable, glauconitic in part, very laminae present, off-white to very light gray, very fine to fine grained. well sorted. carbonaceous and fissile in part. Traces of interbedded limestone present. Sandstone 1154'-1179': Shale, medium gray to black with traces of red shale present, soft, greasy,

even, dull mineral fluorescence. No petroliferous odor/show: visible staining present. Traces of shale and limestone present. Overall, trace of sub-angular to well-rounded grains, very friable, very clean, glauconitic in part. No 1179'-1208': Sandstone, off-white to very light gray, very fine to fine grained, well sorted with oqot/spow.

limestone present. 5% even, dull yellow mineral fluorescence. No petroliferous angular to well-rounded grains, fair friability, no staining present, traces of present from 1218'-1224', very light gray, very fine grained, well sorted with sub-1208'-1242': Shale, medium dark gray to black, soft, greasy, carbonaceous in part. Sandstone

present. Traces of limestone and shale present. Overall, 5% even, variegated yellow rounded grains. Sample mostly unconsolidated sand grains. No visible staining 1242'-1260': Sandstone, very light gray, very fine grained, well sorted with sub-angular to well-

mineral fluorescence. No petroliferous odor/show.

.wods/sobo

yellow mineral fluorescence. No petroliferous odor show: laminae present. Xo visible staining present. Overall. 10% even, medium bright. greasy, fissile in part. Traces of pyrite present. Limestone partings and sandstone 1260'-1330': Shale, medium gray to dark gray with traces of red and black shale present, soft.

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Top of Oread Limestone (al1330'(-23')

1330'-1334': Limestone, pale yellowish brown to olive gray, fine crystalline, mottled in part. fairly friable, few traces of pinpoint porosity present. No visible staining present. 5% even, medium bright, yellow mineral fluorescence. No petroliferous odor/show.

1334'-1346': Shale, medium dark to dark gray with traces of black shale present, soft, greasy to gritty, fissile and carbonaceous in part. Trace amount of pyrite present. No

fluorescence.

1346'-1348': Limestone, pale yellowish brown, fine crystalline, mottled in part, fairly friable, no visible staining present. 5% even, medium bright, yellow mineral fluorescence. No petroliferous odor/show.

1348'-1468': Shale, medium dark gray and red with traces of black shale present, soft and greasy to silty/sandy, carbonaceous in part. Scattered limestone and sandstone partings present throughout section. Traces of black bitumen on few limestone samples, presenting itself in mottled patches. No cut to these samples. Overall, less than 3% even, variegated, yellow mineral fluorescence. No petroliferous odor/show.

Base of the Shawnee Group/Top of the Douglas Group (A1468'(-161')

1468'-1480': Limestone, pale yellowish brown to olive gray, fine crystalline, mottled in part, fairly friable, no visible staining present. Shale partings present, medium dark gray and red with traces of black shale present, soft and greasy to silty. Traces of sandstone present. 12% even, variegated, yellow mineral fluorescence. No petroliferous odor/show.

1480'-1498': Sandstone, very light gray, very fine grained, well sorted with sub-angular to well rounded grains, very friable, very clean, glauconitic in part, no visible staining present. Shale partings present, medium dark gray and red. Trace limestone present. Less than 5% even, very dull, bluish yellow mineral fluorescence. No petroliferous

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1576: Shale, medium dark gray and red with traces of dark gray and black shale present. Traces of pyrite present. Interbedded sandstone present, very light gray, very fine grained, well-sorted with sub-angular to well-rounded grains, very friable, very clean. Traces of black bitumen on few rock samples, no cut. Interbedded limestone present, pale yellowish brown to moderate yellowish brown, fine crystalline, mottled and fossiliferous in part, fairly friable. No visible staining present throughout this interval. Overall, trace of very dull, bluish yellow mineral fluorescence present. No petroliferous odor/show.

1576'-1636': Shale, medium dark gray to dark gray with red shale present, soft, greasy. Few scattered traces of limestone and sandstone present. No fluorescence. No

petroliferous odor/show.

• 1613'- Swivel problem—stopped drilling on Saturday April 16^{1h} , 2011 @ 12:45 pm. Resumed drilling @ 7:39 pm on April 16^{1h} , 2011.

Top of latan Limestone @1636'(-329') Top of the Pedee/Lansing Croups (undifferentiated)

1636'-1644': Limestone, dark yellowish brown, fine crystalline, mottled, hard, sucrosic, no visible porosity or staining present. 10% even, very dull, bluish yellow mineral fluorescence. No petroliferous odor/show.

1644'-1672': Shale, medium-dark to dark gray, with red shale present, soft, greasy. Interbedded sandstone present, very light gray, very fine grained, well-sorted with sub-angular to well-rounded grains, fairly friable, slightly micritic. No fluorescence. No

1672'-1707': Stalnaker Sandstone, very light gray, very fine grained, well-sorted with sub-angular to well-rounded grains, good to excellent friability, are all accoust in part, no visible staining present. Trace limestone and

petroliferous odor/show.

argillaceous in part, no visible staining present. Trace limestone and shale partings present. No fluorescence. No petroliferous odor/show.

1707'-1725': Shale, medium to medium-dark gray and red. Traces of thinly banded vitrain coal present. Traces of interbedded sandstone and limestone present. Trace, even, medium bright yellow mineral fluorescence. No petroliferous odor/show.

1725'-1758': Shale, medium to medium-dark gray and red, soft, greasy, silty in part. Interbedded sandstone and limestone present. Trace of even, medium bright yellow mineral

fluorescence. No petroliferous odor/show.

1758'-1910': Shale, medium dark gray and red, soft, greasy to silty/sandy in part. Traces of interbedded sandstone and limestone present. Overall, no visible staining present.

No fluorescence. No petroliferous odor/show.

1910'-1928': Perry Sandstone, very light gray, very fine grained, well-sorted with sub-angular to well-rounded grains, good friability, clean, no visible oil stain present. Few minor

shale partings present. No fluorescence. No petroliferous odor/show.

1928'-1938': Shale, medium dark gray to dark gray and red, soft, greasy.

1938'-1960': Sandstone, very light gray, very fine grained, well-sorted with sub-angular to well-rounded grains, very friable, clean, no oil stain present. Some pinpoint traces of black bitumen on few rock samples. Traces of interbedded medium dark to dark gray shale present. No fluorescence, No petroliferous odor/show.

1960'-1976': Shale, medium to medium dark gray and red, soft, greasy, silty/sandy in part. Few scattered sandstone laminae present. No fluorescence. No petroliferous odor/show.

1976'-1980': Limestone, olive gray, fine crystalline, very hard, dense, dolomitic, no visible porosity. Trace of even, very dull, bluish yellow mineral fluorescence. No

petroliferous odor/show.

Base of the Lansing Group/Top of the Kansas City Group @1980' (-637')

1980°-1992°: Shale, medium dark gray and red. Interbedded sandstone prosent, very light to light gray, tine grains, fairly sorted with sub-angular to well-rounded grains, fairly

petroliferous odor/show. friable, glauconitic in part, no oil staining present. No fluorescence. No

throughout interval. No fluorescence. No petroliferous odor/show. carbonaceous and pyritic in part. Interbedded limestone and sandstone scattered 1998'-2180': Shale, medium dark gray and red, soft and greasy. Traces of black shale present,

Top of Iola Limestone (0.2180'(-873')

.wods/robo friable, no visible porosity or staining present. No fluorescence. No petroliferous 2180'-2182: Limestone, moderate yellowish brown, fine to medium crystalline, mottled, fairly

2182'-2200': Cottage Grove/Upper Layton Sandstone, very light gray, very fine grained, well-

fluorescence. No petroliferous odor/show. A brief 60 unit gas kick was observed micaceous in part. Traces of black bitumen on few sample surfaces. No sorted with sub-angular to sub-rounded grains, excellent friability, glauconitic,

I would not recommend completion in this zone. when drilling this interval. The electric logs show no real clear indications of gas, so

present. Interbedded limestone and sandstone present. No fluorescence. 2200'-2231': Shale, medium dark to dark gray and red. Traces of black, carbonaceous shale

angular to well-rounded grains, excellent friability, glauconitic in part. Black 2231'-2292': Lower Layton Sandstone, very light gray, very fine grained, well-sorted with sub-

black shale and pyrite present. Traces of limestone present. No fluorescence. No bitumen on several sample surfaces. No light brown oil stain present. Traces of

petroliferous odor/show. No gas indication.

silty/sandy. Scattered sandstone and limestone laminae throughout section. No Shale, medium dark to dark gray with traces of pyrite present, soft, greasy to :18852-12622

fluorescence. No petroliferous odor/show,

in part, very hard, dense, slightly dolomitic, very fossiliferous, no visible porosity. 2388'-2390': Limestone, pale yellowish brown to dark brown, fine to medium crystalline, mottled

No fluorescence. No petroliferous odor/show.

well-rounded grains, calcareous, argillaceous in part, glauconitic in part, poor to fair 2390'-2398': Sandstone, light to medium gray, very fine grained, well sorted with sub-angular to

friability. Traces of black bitumen on some sample surfaces. No fluorescence. No

petroliferous odor/show.

2398'-2421': Shale, medium to medium dark gray, soft and greasy to silty/sandy. No

fluorescence.

2421-2478: Shale, medium dark to dark gray, fissile in part, gritty texture, calcareous in part.

No fluorescence,

1 = 1 2 , 99 to 20' Z - 60 787 DO 9 11 17 13 17

were so ot

Base of the Kansas City Group (\$\alpha\$2478'(-1171')

petroliferous odor/no show. acetone test. No real saturation to samples. Overall, no fluorescence. Fair samples. Fair petroliferous odor in sample/shale would bare a very slight cut in with many conchoidal fractures, pyrite veins present on surface of some coal Shale, black, carbonaceous, calcareous in part. Vitrain coal present, thinly banded 7478'-2482':

fluorescence. No petroliferous odor/show. Shale, dark gray, soft, greasy. Traces of limestone and sandstone present. No 2482'-2500':

Top of the Lenapah Limestone (0.2500'(-1193')

pyrite present. No fluorescence. Very slight petroliferous odor/no show. present. Dark gray to black shale present, fissile and carbonaceous in part. Trace in part, very fossiliferous, hard dense, sucrosic, no visible porosity or staining 2500'-2512': Limestone, pale yellowish brown to olive gray, fine to medium crystalline, mottled

sandstone laminae present. No fluorescence. Traces of dark gray and black shale present. Trace pyrite present. Scattered 2512'-2575': Shale, medium to medium-dark gray, silty to sandy, fairly hard, micaceous in part.

.1102 ,th81 lingA mq Bit Trip@2571' @ 12:57 pm, April 18th, 2011. Resumed drilling @ 4:30

Top of Altamont Limestone @2575'(-1268')

encountered from 2585'-2591' a description of that interval is as follows:

• Limestone, pale yellowish brown to light brown fine of the f part, very hard, dense, sucrosic, fossiliferous in part. A drilling break was 2575'-2602': Limestone, pale yellowish-brown to olive gray, fine to coarse crystalline, mottled in

petroliferous odor/good oil show. 40-45% mottled to even, bright yellow hydrocarbon fluorescence. Strong cut was visible in dimple tray under white light after hydrochloric acid cut. good to strong, milky blue cut. Good residual oil show to tray after cut. Oil on surface of freshly broken sample faces. Samples exhibited a fast, even, brown oil stain. Saturation good. Gas bubbles and oil observed popping out friability. Pinpoint and vugular porosity observed in samples with light Limestone, pale yellowish brown to light brown, fine crystalline, good

before the 30 and 60 minute tests. 2595' allowed the samples with the oil show to already circulate to the surface with oil staining present. Conclusion—the total time elapsed to drill from 2585' to respectively. The 30 and 60 minute circulation samples showed very few samples break, and then circulate for one hour examining 30 and 60 minute samples strong oil odor. The decision was made to drill to 2595' to get through the drilling them. Scooped samples directly out of shale shaker, and they exhibited a very immediately smell oil. I proceeded to the pits and observed a slight oil sheen on kick that lasted several minutes. When I stepped out of the geotrailer, I could It should be noted the hot wire alarm went off at 2589'. It showed a 450 unit gas

mell-rounded grains, excellent friability, glauconitic. Traces of black bitumen on 2602'-2650': Peru Sandstone, very light gray, very fine grained, well-sorted with sub-angular to

and poly

few sample surfaces. Traces of dark gray shale present. No fluorescence. No petroliferous odor/show.

TD 2650' @ 10:20 pm, Monday, April 18th, 2011. RTD @ 2654'

(Mark D. Brecheisen)



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3TAG COMS FOREMAN_



CUSTOMER of AGENTS SIGNATURE

CUSTOMER of AGENT(PLEASE PRINT)

TREATMENT REPORT FRAC AND ACID

TE:1 DEPARTED	ARRIVED ON LOCATION	Bertlesville	Dispatch Location
Altamont Lime	noitsmo-	0	Sbo QiZ
37	County	0	City and Stage
348	BGE	0	Mailing Address
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W	68.0	66.7	0.00	0.00	0.00	0.00	0.00	184.9	66.7	39.3	1573.01	1017.12	0.00
4	10.1	8.3	0.00	0.00	0.00	0.00	0.00	26.4	8.3	39.6	1600.67	1060.17	0.00
5	68.5	66.7	0.00	0.00	0.00	0.00	0.00	178.8	66.7	39.4	1609.16	1072.11	0.00
6	9.3	8.3	0.00	0.00	0.00	0.00	0.00	24.2	æ. 3	39.3	1618.72	1097.36	0.00
7	73.7	66.7	0.00	0.00	0.00	0.00	0.00	191.3	66.7		1626.82	1107.64	0.00
8	10.5	8.3	0.00	0.00	0.00	0.00	0.00	27.4	8.3		1629.20	1119.20	0.00
9	83.0	66.7	0.00	0.00	0.00	0.00	0.00	215.0	66.7		1632.65	1119.01	0.00
10	23.7	50.0	0.00	0.00	0.00	0.00	0.00	109.6	50.0		8467.85	8711.61	0.00
FracJob TotlJob	0.0 428.7	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.0	34.8	0.00	0.00	0.00
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