

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical 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**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs 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 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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PRESSURE PUMPING LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

11870  
11457

TICKET NUMBER 55466

LOCATION Ottawa, KS

FOREMAN Jim Green

### FIELD TICKET & TREATMENT REPORT CEMENT

Invoice #81413

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-11-18	2381	Shannon # SB 4	NW 14	25	17	Allen
CUSTOMER <u>SIB Operating Inc</u>			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS <u>6340 Glenwood Sur 103 Bldg</u>			<u>669</u>	<u>Jim Green</u>		
CITY STATE ZIP CODE <u>Overland Park KS 66202</u>			<u>467</u>	<u>Ken Curf</u>		
			<u>675</u>	<u>Ken Det</u>		
			<u>558</u>	<u>Har Bell</u>		

JOB TYPE Logging HOLE SIZE 6 3/4" HOLE DEPTH 1220' CASING SIZE & WEIGHT 4 1/2"  
 CASING DEPTH 1180' DRILL PIPE Both 1095' TUBING Plug back 1220' up to 1190' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Held Safety Meeting. Mix and pump 160' Gel + e Slush Hole. Mix and pump 111 sk Thixo Blend II with 1# Phenoseal. Flush pump pump 4 1/2" rubber plug to total depth of casing. Circulating cement to surface. Pressure up to 600 PSI well held. Set Elong.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	One	PUMP CHARGE	1500.00	
CE0002	40	MILEAGE Pump TK	286.00	
CE0711	Min	Ton Miles	660.00	
WE0853	3.5	80 UAC	350.00	
			Sub Total	3796.00
			less 40%	1118.40
				1677.60
CC5861	111 sk	Thixo II	2997.00	
CC6079	111 #	Phenoseal	14285.00	
CC5965	100 #	Premium Gel	30.00	
CP8178	One	4 1/2" Rubber Plug	75.00	
			sub total	3231.00
			less 40%	1300.74
				1930.26
			7.75	151.21
			SALES TAX	151.21
			ESTIMATED TOTAL	3778.92
				(6299.87)

Ravin 3737

AUTHORIZATION em Alan M. for sign.

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.



# McGOWAN DRILLING, INC.

Mound City, KS  
620.224.7406

Well #				Casing			
<b>Shannon #SB4</b>				Surface		Longstring	
<b>S&amp;B Operating, LLC</b>				Size:	8 5/8 "	Size:	4 1/2 "
				Tally:	20 '	Tally:	1179 '
API #:	15-001-31560	S-T-R:	14-25S-17E	Cement:	5 sx	Bit:	6.75 "
County:	Allen	Date:	9/4/2018	Bit:	11 "	Date:	9/11/2018
Top	Base	Formation		Top	Base	Formation	
0	1	Soil		1177	1222	Lime	Mississippian
1	21	Lime		1222		TD	
21	147	Shale					
147	236	Lime				Baffle: 1095.20'	
236	265	Shale					
265	267	Lime					
267	270	Sandy Shale					
270	370	Lime					
370	387	Shale					
387	409	Lime					
409	412	Black Shale					
412	430	Lime					
430	433	Shale					
433	443	Lime					
443	574	Shale					
574	575	Lime					
575	620	Shale					
620	624	Lime					
624	625	Shale					
625	631	Lime					
631	705	Shale					
705	709	Lime					
709	724	Shale					
724	734	Lime					
734	761	Shale					
				Sand / Core Detail			
761	778	Lime		Core #1:	1047-1067	Core #2:	
778	787	Shale				Squirrel	
787	790	Lime		820	825	Sand, some shale, soft, good odor & bleed	
790	815	Shale		825	828	Sand w/more shale, soft, good bleed	
815	820	Sandy Shale	Slight odor	828	832	Laminated, mostly shale, odor, little bleed	
820	832	Sand	See details			Bartlesville	
832	846	Sandy Shale		1045	1049	Sand, good oil saturation, good bleed	
846	1009	Shale				Core better than the samples	
1009	1045	Sandy Shale	with sand	1049	1067	Shale, sandy shale, no show	
1045	1049	Sand	See details			Mississippi	
1049	1093	Sandy Shale	with sand	1193	1204	Mississippi - hard	
1093	1177	Shale		1204	1211	Mississippi - 1st break, no oil show	
<b>Total Depth:</b>				<b>1222</b>			

Depth Ft	Lithology	Shows / Rcmd Perfs	By David B. Griffin, PG Griffin Geological Resources, (GGR)				Well No: Shannon SB-4	Pg. 1 of 2
			Penetration Rate	% SS, Shaded If Oil Stained	Free Oil Show	Location: NE NE NE NW/4, 5100' fsl, 2840' fel, Sec. 14-T25S-R17E	Date: 10-Sep-18	
						API No.: 15-001-31560	Datum/Elev.: GL, 1051' est.	
			Operator: S & B Operating LLC	Sample Descriptions		Tops/Remarks		
			0 0.5 1 M <sup>2</sup>	0 50 100	Sli Fr Gd Exc			
9-1018							McGown Drilling	
950							Mud Rotary 6 3/4 PDC Bit	
8:45A						Sh, gy to vdg	No Samples Examined above 982'	
		CF3				Sh, AA, min bk	982' start sampling, circulate after each Kelly	
						AA		
1000		CF3				cod		
						Sh, g to bk		
						SS, 30, vlg, v f + s, lty, pr φ, patchy tar 5%, NFO		
						Sh, lt gy w/ 20% silt lam		
						Sh, vlg to min gy-bn, silty, NS		
						SS/sc, 30, pr φ, NFO, patchy tar 5%, sh vdg 70		
						SS, 20, lt gy, pr φ, NFO, patchy tar 5%; sh, vlg		
						SS, 30, AA, tar, 100%, NFO; sh, 70, vdg		
						SS, 20, AA, NS; SS, 10, tar; NFO; sh, vdg, 80		
						SS10, lt Bn, v f - silty, fr φ, sli odor, gassy stn, NFO		
						SS, 30, AA, Resid sh, NFO		
						SS, 20, lt bn, fr - g φ, odor, sli sfo		
						SS, 30, lt bn to bn, fr - g φ, fr sfo, Core Point		
1050						Core Description 1047 - 1066.7, Part Rec.		
						1047-1047.5; SS, Dk Bn, Gd φ, Fr-6SFO initially but no bleed back,	BVSS (mid?) 5.3'	
						1047.5-1049.3; SS, V Dk Bn, Gd-vg φ, vg-Exc SFO w/ bleed back, poor quality sand,	1044(+7')	
						1049.3-1050.0; SS, 20, Dk Bn, Res Stn, NFO; sh, 6, 80	Gas SD 1044'-425'	
						1050.0-1052; Sh, dk gy, SL, 50, lt gy lam.	Oil SD 1047.5'-423'	
						1052.0-1053; Sh, dk gy	(see photolog) for core pics	
						1053.0-1054.4; sli, 80, lt gy, sh, 20, dgy, 20		
						1054.4-1055.4; sh, 90, sli, 20, lam, lt gy		
						1055.4-1056.0; sh, 20, sli, 80		
						1056.0-1056.7; sh, 95, sli, 5		
						1056.7-1058.6; sh, 80, dg; SL, 20, lt gy		
						1058.6-1063.5; sh, 90, dg; SL, 10, lt gy		
						1063.5-1066.2; sh/SL w/ 30% siderite Nods, 8 Bn		
						SS, 20, dk gy, v f, fr φ, gd res stn, sli sfo, Heavy		
						SS, 40, AA, sli - Fr SFO, Hvy	L. BVSS 1074(-23)	
						SS, 50, g-dg, v f - fr gn, Fr SFO; sh, 50, dg, SMC	Heavy Oil Show 1070-82' (not pay)	
						SS, 50, AA, sli sfo	V. Hvy oil + tar show 1082-87'	
						SS, 60, BK, Gd φ w/ gn, Gd Tar Stn + sticky oil	Tar only 1087-97'	
						SS, 30, BK, Gd φ all tar; sh, 70, gy	No Show Below 1097'	
						SS, 30, BK, s, tar vlg, 25, NS		
1100						SS, 30 vlg, v f gn, fr φ, NS; sh, 70, g-dg		
						SS, 50, lt gy, silty + shly, fr φ, NS; sh, 50, gy, NS		
						SS, 70, sh, 30, AA		
						SS, 80, lt gy, v f - fr gn, fr - gd φ, NS		
						SS, 95, lt gy, AA, NS		
						SS, 90, lt gy to tan, pr - gd φ, min lmy, NS		
4PM 9-10-18						SS, 95, lt gy, v f - fr gn, g-vg φ, NS		

Depth Ft	Lithology	Shows / Rcmd Perfs	By David B. Griffin, PG Griffin Geological Resources, (GGR)			Well No: Shannon SB-4	Pg. 2 of 2
			Penetration Rate	% SS, Shaded If Oil Stained	Free Oil Show	Location: NE NE NE NW/4, 5100' fsl, 2840' fel, Sec. 14-T25S-R17E	Date: 10-Sep-18
			0 1	0 50 100	Sli Fr Gd Exc	API No.: 15-001-31560	Datum/Elev.: GL, 1051' est.
						Operator: S & B Operating LLC	Tops/Remarks
						Sample Descriptions	
1130						SS, 95, lt gy, vf-f grn, gd φ, NS	McGown Drilling
9-10-18				No 95	No	SS, 95, lt gy, mostly f. grn, gd φ, NS	Mud Rotary
		CFS		stain	Free	SS, 50, lt gy, f-m grn, fr φ, NS; sh, 50, dk gy SMC	6 3/4" PDC Bit
1150				50	Free	SS, 20, AA, NS; sh, 80, AA	
				20	oil	SS, 10, AA, silty; sh, 90	
				10		SS, 5, sh, 95	
				5		sh, vdkgy to blk	
						chrt, 60, wh, pr φ, sli weat, NS; clay, 20, frng	Cht Cgl
						sli sdy, f-m gn; sh, 20, blk, NS	1177' (-126)
		No			No	Dol, 50, lt gy, med xtl, fr ix φ, No vugs, B-t	Miss.
		Show			Free	Fr, No odor, No stn; chrt, 60, AA, NS	1182' (-131)
		But			Oil	Dol, 90, lt gy, vf xtl, pr φ, NS, BFl, NS	
		Fr				chrt, 10	
		in				Dol, 80, lt gy, ptly LS, vf-m xtl; pr φ, NS; chrt, 20	
		Dol				No vug φ, NS	
1200						LS, 75, cream, f-m xtl, fr ix φ, NS; chrt, 25	
						sharp, o-wh to clr	
						LS, 95; chrt, 5, AA, NS	
						LS, 70, crm, mintu, pr fr φ, NS; chrt, 30, fr ch	
9-10-18						sh φ, NS	
7 PM						LS, 50, crm, f-m xtl, fr ix φ, NS; chrt, AA	TD
							1222' (-171)
							4 1/2" pipe to be set thru BV
							Not open Hole
							Logged
1250							
1300							

Fresh Unrinsed Core



1049.0

1048.0

1047.0

Rinsed Core, Note Bleed Back



1049.0

1048.0

1047.0

Fresh Unrinsed Core



1051.0

1050.0

1049.0

Rinsed Core



1051.0

1050.0

1049.0