

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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MDCI Davis T #1-2, 808 FNL 445 FWL Sec. 2-T17S-R43W Greeley County, Kansas 3914' KB	MDCI WO 6/2021 as KB #1-2 808 FNL 445 FWL Sec. 2-T17S-R43W Greeley County, Kansas 3912' KB
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Formation	Sample top	Datum	Log tops	Datum	Log tops	Datum
Anhydrite	2665	1249	2663	1251		
B/Anhydrite	2693	1221	2691	1223		
Neva						
Topeka	3849	65	3845	69	3841	71
Heebner	4079	-165	4079	-165	4075	-163
Lansing	4144	-230	4144	-230	4140	-228
Stark	4420	-506	4418	-504	4414	-502
Marmaton	4558	-644	4540	-626	4538	-626
Cherokee	4768	-854	4758	-844	4754	-842
Atoka						
Morrow	5006	-1092	5006	-1092	5002	-1090
Keyes Lm	5130	-1216	5130	-1216	5126	-1214
Mississippi			5152	-1238	5148	-1236
RTD	5235				5235	
LTD			5235		5240	



CEMENT TREATMENT REPORT

Customer: Murfin Drilling	Well: KB #1-2	Ticket: WP 1478
City, State:	County: Greeley KS	Date: 6/13/2021
Field Rep: Fennis Garduno	S-T-R: 2-17S-43W	Service: 5.5" 2 stage PROD

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	5245 ft
Casing Size:	5 1/2 in
Casing Depth:	5245 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	124.4 bbls

Calculated Slurry - Lead	
Blend:	H-Con
Weight:	12.0 ppg
Water / Sx:	15.5 gal / sx
Yield:	2.56 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	133.0 bbls
Total Sacks:	290 sx

Calculated Slurry - Tail	
Blend:	H-LD Blend
Weight:	14.8 ppg
Water / Sx:	6.5 gal / sx
Yield:	1.51 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	34.0 bbls
Total Sacks:	125 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
5:15 PM			-	-	Journey management meeting 1st stage
5:30 PM				-	Convoy to locallon
7:00 PM				-	Arrive on location
7:05 PM				-	Safety meeting
7:20 PM				-	Spot in / rig up equipment
8:15 PM				-	Start running casing / float equipment
				-	Centralizers on Jts 1,3,5,7,9,11,13,15,17,19,21,23,25,27,63. Baskets on Jts 19,44,70,93. DV tool on Jts 68= top of DV 2395' TP= 5245'
12:00 AM					Rig land casing drop ball blow seat
1:05 AM	5.0	160.0	12.0		Pump mud flush
1:07 AM	5.0	160.0	5.0		Pump fresh water spacer
1:10 AM	7.0	240.0	133.0		Mix 290 sx H-Con @ 12 ppg
1:30 AM	7.0	240.0	34.0		Mix 125 sx H-LD blend @ 14.8 ppg
1:35 AM					S/D wash pumps and lines
2:00 AM	7.0	80.0			Drop latch down plug start fresh water displacement with kcl
2:08 AM	5.0	100.0	50.0		Slow down for latch down plug to pass through dv tool
2:17 AM	7.0	120.0	67.0		67 bbls fresh water displacement away switch to WBM displacement
2:25 AM	2.0	1,000.0	114.0		Slow down to land plug
2:32 AM	2.0	1,500.0	124.3		Land plug
2:35 AM					Check floats floats held got .5 bbl back
2:38 AM					Drop opening tool
3:02 AM	1.5	850.0	10.0		Use cement pump to open tool & circulate 10 bbl
					Rig circulate for 3 hours
					Rig circulated 100 sx cement to pit

	CREW		UNIT	SUMMARY		
				Average Rate	Average Pressure	Total Fluid
Cementer:	Fennis		78	5.0 bpm	423 psi	566 bbls
Pump Operator:	Mike		180/520			
Bulk #1:	John		194/254			
Bulk #2:	Kale		527/260			



CEMENT TREATMENT REPORT

Customer:	Murfin Drilling	Well:	KB #1-2	Ticket:	WP 1478
City, State:		County:	Greeley KS	Date:	6/13/2021
Field Rep:		S-T-R:	2-17S-43W	Service:	5.5" 2 stage PROD

Downhole Information	
Hole Size:	in
Hole Depth:	ft
Casing Size:	5 1/2 in
Casing Depth:	2395 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	DV
Tool Depth:	ft
Displacement:	57.0 bbls

Calculated Slurry - Lead	
Blend:	H-Con
Weight:	12.0 ppg
Water / Sx:	15.5 gal / sx
Yield:	2.56 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	217.0 bbls
Total Sacks:	475 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	7.5 bbls
Total Sacks:	30 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
			-	-	STAGE 2
6:00 AM	5.0	160.0	12.0	12.0	Pump mud flush
6:03 AM	5.0	160.0	5.0	17.0	Pump fresh water spacer
6:05 AM	2.0	80.0	7.5	24.5	Plug rat hole with 30 sx H-Plug @ 13.8 ppg
6:20 AM	6.0	240.0	217.0	241.5	Mix 475 sx H-Con @ 12 ppg
6:53 AM				241.5	S/D wash pumps and lines
7:05 AM	7.0	330.0		241.5	Drop plug start fresh water displacement with KCL
7:16 AM	2.0	500.0	47.0	288.5	Slow down to land plug
7:26 AM	2.0	1,600.0	57.0	345.5	Land plug @ 57 bbls of displacement 1000 psi over last circulation pressure of 600 psi
7:28 AM				345.5	Check floats , floats held got .5 bbls back
8:15 AM				345.5	Rig down leave location
				345.5	
				345.5	CIRCULATED 100 SX CEMENT TO PIT
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CREW		UNIT	SUMMARY		
Cementor:	Fennis	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Mike	180/520	4.1 bpm	438.6 psi	346 bbls
Bulk #1:	John	194/254			
Bulk #2:	Kale	527/250			



CEMENT TREATMENT REPORT

Customer:	Murfin Drilling	Well:	KB #1-2	Ticket:	WP 1813
City, State:		County:	Greeley KS	Date:	9/1/2021
Field Rep:	Fennis Garduno	S-T-R:	2-17S-43W	Service:	Squeeze

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	in	Blend:	Micro Fine	Blend:	Class A 25 sx with add 25 sx neat
Hole Depth:	ft	Weight:	11.8 ppg	Weight:	15.6 ppg
Casing Size:	5 1/2 in	Water / Sx:	7.6 gal / sx	Water / Sx:	5.2 gal / sx
Casing Depth:	5200 ft	Yield:	1.28 ft ³ / sx	Yield:	1.18 ft ³ / sx
Tubing / Liner:	2 3/8 in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	5070 ft	Depth:	ft	Depth:	ft
Tool / Packer:	retainer	Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	5070 ft	Excess:		Excess:	
Displacement:	19.8 bbls	Total Slurry:	5.7 bbls	Total Slurry:	10.5 bbls
		Total Sacks:	25 sx	Total Sacks:	50 sx

TIME	RATE	PSI	BBLs	STAGE TOTAL BBLs	REMARKS
6:00 AM				-	8-31-2021 Started towards location was told by company rep that they were not ready for us and to come back on 9-1-21
5:45 AM				-	9-1-01 Journey management meeting
6:00 AM				-	Convoy to location
8:00 AM				-	Arrive on location / safety meeting
8:15 AM				-	Spot in / rig up equipment
				-	Retainer set @ 5070' holes 5101-5105'
				-	Pro-Stim acidize well , pumping 2 bpm @ 900 psi
			28.0	28.0	Pro-Stim pump 28 bbls fresh water down annulus
9:00 AM	2.0	500.0	16.0	44.0	Hook cementing equipment to well , load annulus with 16 bbls fresh water plus 28 bbls fresh water from Pro-Stim pressure to 50'
9:15 AM	2.0	750.0	19.0	63.0	Load tubing with 14 bbls fresh water , establish injection rate
10:00 AM	2.5	110.0	5.7	68.7	Mix 25 sx Micro Fine cement @ 11.8 ppg
10:10 AM	2.5	110.0	5.2		Mix 25 sx Class A with fluid loss & defoamer additives @ 15.6 ppg
10:15 AM	2.5	110.0	5.2		Mix 25 sx Class A neat @ 15.6 ppg
10:18 AM					S/D wash pumps and lines
10:20 AM	2.5	80.0			Start fresh water displacement
10:22 AM	2.0	2,000.0	4.8		Tubing pressure up to 2000 psi S/D
10:27 AM	2.0	2,500.0			Come on line to 2500 psi per customer request s/d
10:35 AM	0.7	1,500.0			Reverse circulate tubing , circulating 15 bbls slurry to pit
10:55 AM	2.0	400.0	30.0		S/D
					Pumped .25 bbls / 1 sx micro fine into formation , next .75 bbls / 4 sx micro fine in casing from below retainer to holes
11:45 AM					Rig down leave location

CREW		UNIT	SUMMARY		
Cementer:	Fennis	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Kale	230	2.1 bpm	806 psi	114 bbls
Bulk #1:	Trevino	205			
Bulk #2:					