

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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HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
L D DRILLING, INC.
7 SW 26TH AVE
GREAT BEND, KS 67530

Invoice Date: 10/20/2020
Invoice #: 0350082
Lease Name: Arensman OWWO
Well #: 4 (New)
County: Barton, Ks
Job Number: ICT4311
District: Pratt

Date/Description	HRS/QTY	Rate	Total
5 1/2" Longstring	0.000	0.000	0.00
H-Lite	130.000	9.750	1,267.50
H-Long	75.000	21.000	1,575.00
Cello Flake	34.000	1.313	44.63
5 1/2" Type B Basket Shoe	1.000	1,099.500	1,099.50
5 1/2" LD Plug & Baffle	1.000	262.500	262.50
Cement baskets 5 1/2"	3.000	225.000	675.00
5 1/2" Turbolizers	5.000	60.000	300.00
Mud flush	500.000	0.750	375.00
Light Eq Mileage	75.000	1.500	112.50
Heavy Eq Mileage	75.000	3.000	225.00
Ton Mileage	694.000	1.125	780.75
Cement Pump Service	1.000	1,125.000	1,125.00
Cement Plug Container	1.000	187.500	187.50

Total 8,029.88

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	LD DRILLING	Lease & Well #	ARENSMAN OWWO SWD #4		Date	10/20/2020	
Service District	PRATT, KS.	County & State	BARTON, KS	Legals S/T/R	28- 16S- 11W	Job #	
Job Type	5 1/2" LS	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input checked="" type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Ticket #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
75	LESLEY	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
179-522	OSBORN	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
527-533	MARTINEZ	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations		
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations		
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
Comments							
Product/ Service Code							
	Description	Unit of Measure	Quantity			Net Amount	
CP050	H-Lite	sack	130.00			\$1,267.50	
CP030	H-Long	sack	75.00			\$1,575.00	
CP 120	Cello-flake	lb	34.00			\$44.63	
FE180	5 1/2" Type B Basket Shoe	ea	1.00			\$1,099.50	
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00			\$262.50	
FE130	5 1/2" Cement Basket	ea	3.00			\$675.00	
FE135	5 1/2 Turbolizer	ea	5.00			\$300.00	
CP 170	Mud Flush	gal	500.00			\$375.00	
M015	Light Equipment Mileage	mi	75.00			\$112.50	
M010	Heavy Equipment Mileage	mi	75.00			\$225.00	
M020	Ton Mileage	tm	694.00			\$780.75	
C015	Cement Pump Service	ea	1.00			\$1,125.00	
C050	Cement Plug Container	job	1.00			\$187.50	
Customer Section: On the following scale how would you rate Hurricane Services Inc.?							
					Net:	\$8,029.88	
Based on this job, how likely is it you would recommend HSI to a colleague?					Total Taxable	\$ -	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					Tax Rate:	\$ -	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely					State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		
					Sale Tax:	\$ -	
					Total:	\$ 8,029.88	
					HSI Representative: <i>Kevin Lesley</i>		

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x *Rachel P...* **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: LD DRILLING	Well: ARENSMAN OWWO SWD #4	Ticket: ICT 4311
City, State:	County: BARTON, KS	Date: 10/20/2020
Field Rep: RICK POPP	S-T-R: 28- 16S- 11W	Service: 5 1/2" LS

Downhole Information	
Hole Size:	7 1/4 in
Hole Depth:	3860' ft
Casing Size:	5 1/2 in
Casing Depth:	3464' ft
Tubing / Liner:	in
PLUG Depth:	3444' ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	82.0 bbls

Calculated Slurry - Lead	
Blend:	H-LITE
Weight:	12.5 ppg
Water / Sx:	10.6 gal / sx
Yield:	1.94 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	34.5 bbls
Total Sacks:	130 sx

Calculated Slurry - Tail	
Blend:	H-LONG
Weight:	15 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	19.0 bbls
Total Sacks:	75 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
9:00PM			-	-	ON LOCATION - SPOT TRUCKS
12:15PM					RUN 5 1/2" X 15.5# CSG
//////					BASKET SHOE ON BOTTOM
//////					TURBOLIZERS- 1- 2- 3- 5- 6
//////					BASKETS- 2, 3, 5
2:45AM					CASING ON BOTTOM
3:05AM					HOOK UP TO CASING AND BREAK CIRCULATION WITH RIG PUMP
3:45AM	6.0	350.0	5.0	5.0	H2o AHEAD
3:48AM	6.0	350.0	12.0	17.0	MUD FLUSH
3:50AM	6.0	300.0	5.0	22.0	H2o SPACER
3:51AM	6.0	300.0	34.5	56.5	MIX 100 SKS H- LITE CEMENT @ 12.5 PPG
3:57AM	6.0	200.0	19.0	75.5	MIX 75 SKS H- LONG CEMENT @ 15 PPG
4:00AM				75.5	SHUT DOWN - CLEAR PUMP & LINES - DROP LATCH DOWN PLUG
4:14AM	6.0	50.0	-	75.5	START DISPLACEMENT
4:19AM	5.0	300.0	30.0	105.5	LIFT PRESSURE
4:27AM	4.0	600.0	70.0	175.5	SLOW RATE
4:30AM	3.0	1,500.0	82.0	257.5	PLUG DOWN- HELD
				257.5	CIRCULATION THRU JOB
4:40AM			7.0	264.5	PLUG RATHOLE WITH 50 SKS H-LITE CEMENT
5:00AM				264.5	WASH UP PUMP TRUCK
				264.5	
				264.5	JOB COMPLETE,
				264.5	THANKS- KEVEN AND CREW
				264.5	
				264.5	
				264.5	

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN	179-522	5.3 bpm	439 psi	265 bbls
Bulk #1:	MARTINEZ	527-533			
Bulk #2:					