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 # 33185
Name: Quail Oil & Gas, LC
Address 1: 525 N INDUSTRIAL DR.
Address 2: PO BOX K
City: GARDEN CITY State: KS Zip: 67846 + 9633
Contact Person: Wray Valentine
Phone: (620) 290-1537
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Roger Martin
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 #:

06/04/2020	06/11/2020	06/12/2020
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-063-22376-00-00
Spot Description:
NE - SW - NE - SW Sec. 33 Twp. 15 S. R. 29 ☐ East ☑ West
1872 Feet from ☐ North / ☑ South Line of Section
1838 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)*, Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Gove
Lease Name: DHD Well #: 1-33
Field Name:
Producing Formation: N/A
Elevation: Ground: 2621 Kelly Bushing: 2626
Total Vertical Depth: 4410 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 306 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: 2800 ppm Fluid volume: 650 bbls
Dewatering method used: Evaporated
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: 09/04/2020
☐ **Confidential Release Date:** 09/04/2022
☐ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 09/06/2020

Page Two

Operator Name: Quail Oil & Gas, LC Lease Name: DHD Well #: 1-33

Sec. 33 Twp. 15 S. R. 29 ☐ East ☑ West County: Gove

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☑ Sample

Name	Top	Datum
Anhydrite	2017	+609
Topeka	3455	-829
Heebner	3685	-1059
Toronto	3704	-1078
Lansing	3723	-1097

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	306	60/40 poz	210	2% gel, 1/4# FS

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*		

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Quail Oil & Gas, LC
Well Name	DHD 1-33
Doc ID	1527669

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	306	60/40 poz	210	2% gel, 1/4# FS

ROCKY L MARTIN

Crescent Shelf Oil & Gas, LLC
Lease: Rocky L Martin
Well #: 1
Field: Wildcat
County: Ellis County, KS
Location: 1320' FSL & 1320' FEW
Sec: 14 Twp: 14 S Rng: 19 W
Elevation: KB 2194' GL 2189'
Spud: 08/24/2021 at 12:00 AM
Rig: Red Tiger #1
Total Depth: 3800'
Log Type: DUAL INDUCTION, DENSITY/NEUTRON, MICRO, SONIC
Mud Type: Chemical
Bit Size: 7 7/8"
Casing Record: 8 5/8" @ 224'
Drill Stem Tests: 0
Cores: 0
Samples Saved: Yes
Samples Washed: Yes
Drilling Time: Yes
Electric Log: Yes
Geologist: Jason Tabor
Operator: Crescent Shelf Oil & Gas, LLC
Contractor: Red Tiger Drilling
Rig #: 1
Toolpusher: Jeff Ruder
Drilling Mud: Chemical
Mud Engineer: Jeff Ruder
Mud Weight: 9.0 - 9.4
Viscosity: 45 - 55
Water Loss: 8.0 - 10.0
Chlorides: 1000 - 1500
Pump Size: 5 1/2 x 14
Strokes: 120
Pump Pressure: 1000 - 1200
Flow Rate: 12 - 14
Bit #1: 7 7/8" Rock Tooth
Jets: 18 18 18
Total Nozzle Area: 0.73
Bit #2: 7 7/8" Rock Tooth
Jets: 18 18 18
Total Nozzle Area: 0.73
Bit #3: 7 7/8" Rock Tooth
Jets: 18 18 18
Total Nozzle Area: 0.73
Bit

ROCKY L MARTIN

Crescent Shelf Oil & Gas, LLC
Lease: Rocky L Martin
Well #: 1
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Jets: 18 18 18
Total Nozzle Area: 0.73
Bit

250 N. Water St., Suite #200
Wichita, KS 67202

HURRICANE SERVICES INC

Customer	Quail Oil & Gas	Lease & Well #	DHD #1-33			Date	6/4/2020
Service District	Oakley KS	County & State	Gove Ks	Legals S/T/R	33-15S-29W	Job #	
Job Type	Surface Job	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	ICT3626

Equipment #	Driver
73	Josh Mosier
230	Jesse Jones
194/254	Kale Ochs

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☐ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☐ Overhead Hazards	☑ Muster Point/Medical Locations
☑ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
c010	Cement Pump	ea	1.00			$405.00
m010	Heavy Equipment Mileage	mi	50.00			$108.00
m015	Light Equipment Mileage	mi	50.00			$54.00
m020	Ton Mileage	tm	453.00			$366.93
c050	Cement Plug Container	job	1.00			$135.00
cp070	60/40/2 Pozmix	sack	210.00			$1,474.20
cp100	Calcium Chloride	lb	543.00			$219.92
fe275	8 5/8" AFU Flapper Insert Valve	ea	1.00			$202.50
fe250	8 5/8" Centralizer	ea	2.00			$97.20
fe285	8 5/8" Rubber Plug	ea	1.00			$94.50
cp120	Flo-Seal	lb	53.00			$50.09

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

Gross:			Net:	$3,207.33
Total Taxable	$ -	Tax Rate:		
			Sale Tax:	$ -
			Total:	$ 3,207.33

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.

HSI Representative: *Josh Mosier*

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 ½% 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 fom 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 informaiton in determining taxable services.

X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

CEMENT TREATMENT REPORT

Customer:	Quail oil & Gas	Well:	DHD # 1-33	Ticket:	ICT 3626
City, State:	Oakley KS	County:	Gove KS	Date:	6/5/2020
Field Rep:	Jonny Nicodemus	S-T-R:	33-15S-29W	Service:	Surface Job

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	306 ft
Casing Size:	8 5/8 in
Casing Depth:	306 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	16.8 bbls

Calculated Slurry	
Weight:	14.8 # / sx
Water / Sx:	5.18 gal / sx
Yield:	1.21 ft^3 / sx
Bbls / Ft.:	
Depth:	306 ft
Annular Volume:	bbls
Excess:	
Total Slurry:	45.2 bbls
Total Sacks:	210 sx

Product	% / #	#
Class A		
Poz		
Gel		
CaCl		
Gypsum		
Metso		
Kol Seal		
Flo Seal		
Salt (bww)		
	Total	-

TIME	RATE	PSI	BBLs	REMARKS
1215A				GOT TO LOCATION
1220A				SAFTEY MEETING
1225A				RIG UP TRUCKS
351A				CIRCULATED HOLE
405A	3.5	150.0	5.0	H20 AHEAD
408a	6.5	520.0	45.2	PUMPED 210 SKS OF 60%/40%/2% POZMIX @ 300 FT
420A				SHUT IN
425A				WASHED UP PUMP TRUCK
429A	5.3	260.0	16.8	DISPLACED WITH H20
434A				PLUG DOWN
435A				RIG DOWN TRUCKS
445A				LEFT LOCATION

	CREW	UNIT
Cementer:	Josh Mosier	73
Pump Operator:	Jesse Jones	230
Bulk #1:	Kale Ochs	194/254
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
5.1 bpm	310 psi	67 bbls

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202

250 N. Water St., Suite #200
Wichita, KS 67202

HURRICANE SERVICES INC

Customer	QUAIL OIL&GAS	Lease & Well #	DHD 1-33			Date	6/11/2020
Service District	MEDICINE LODGE KS	County & State	GOVE CO KS	Legals S/T/R	33-15S-29W	Job #	
Job Type	PLUG TO ABAND	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	ICT 3655

Equipment #	Driver
912	MATTAL
526/521	MCGRAW
242	REBARCHEK

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☐ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☐ Overhead Hazards	☐ Muster Point/Medical Locations
☐ Hearing Protection	☐ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/Service Code	Description	Unit of Measure	Quantity			Net Amount
CP055	H-Plug	sack	240.00			$2,184.00
FE290	8 5/8" Wooden Plug	ea	1.00			$105.00
M015	Light Equipment Mileage	mi	50.00			$70.00
M010	Heavy Equipment Mileage	mi	50.00			$140.00
M020	Ton Mileage	tm	518.00			$543.90
C010	Cement Pump Service	ea	1.00			$525.00
	PPP DISCOUNT					($600.00)

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

Total Taxable	$ -	Tax Rate:	Net:	$2,967.90
			Sale Tax:	$ -
			Total:	$ 2,967.90

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.

HSI Representative: *Mike Mattal*

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 ½% 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 fom 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 informaiton in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**

CEMENT TREATMENT REPORT

Customer:	QUAIL OIL&GAS	Well:	DHD 1-33	Ticket:	ICT 3655
City, State:	SHIELDS KS	County:	GOVE CO KS	Date:	6/11/2020
Field Rep:	WRAY VALENTINE	S-T-R:	33-15S-29W	Service:	PLUG TO ABAND

Downhole Information	
Hole Size:	in
Hole Depth:	ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blend:	H-PLUG
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	61.0 bbls
Total Sacks:	240 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	#DIV/0! sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
1:05 PM			-	-	ON LOCATION/SAFTEY MEETING
				-	
				-	1ST PLUG AT 2050'
1:42 PM	5.0	200.0	20.0	20.0	PUMP 20 BBL WATER
1:46 PM	5.0	200.0	13.0	33.0	MIX 50 SKS H-PLUG
1:49 PM	4.0	100.0	5.0	38.0	PUMP 5 BBL WATER
2:51 PM	5.0	100.0	14.5	52.5	PUMP 14.5 BBL MUD
				52.5	2ND PLUG AT 1000'
2:40 PM	4.5	150.0	10.0	62.5	PUMP 10 BBL WATER
2:42 PM	4.5	150.0	25.0	87.5	MIX 100 SKS H-PLUG
9:25 PM	4.0	100.0	5.0	92.5	PUMP 5 BBL WATER
				92.5	3RD PLUG AT 350'
3:22 PM	4.5	100.0	5.0	97.5	PUMP 5 BBL WATER
3:24 PM	4.5	100.0	13.0	110.5	MIX 50 SKS H-PLUG
3:27 PM	4.5	100.0	0.5	111.0	PUMP .5 BBL WATER
4:35 PM	1.0	50.0	3.0	114.0	4TH PLUG AT40' WOODEN PLUG IN PLACE, MIX 10 SKS H-PLUG
				114.0	CEMENT TO SURFACE
4:40 PM	1.0	50.0	7.0	121.0	MIX 30 SKS H-PLUG FOR RATHOLE
				121.0	
				121.0	
				121.0	JOB COMPLETE/THANK YOU!
				121.0	MIKE MATTAL
				121.0	MIKE & MICHAEL
				121.0	
				121.0	
				121.0	
				121.0	

	CREW	UNIT
Cementer:	MATTAL	912
Pump Operator:	MCGRAW	526/521
Bulk #1:	REBARCHEK	242
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.0 bpm	117 psi	121 bbls

Hurricane Services, Inc.
250 N. Water
Wichita, KS 67202