

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
APPLICATION FOR SURFACE PIT**

Form CDP-1  
May 2010  
Form must be Typed

*Submit in Duplicate*

Operator Name: _____		License Number: _____	
Operator Address: _____			
Contact Person: _____		Phone Number: _____	
Lease Name & Well No.: _____		Pit Location (QQQQ): _____ - _____ - _____ - _____	
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input type="checkbox"/> Drilling Pit <input type="checkbox"/> Workover Pit <input type="checkbox"/> Haul-Off Pit <i>(If WP Supply API No. or Year Drilled)</i>		Pit is: <input type="checkbox"/> Proposed <input type="checkbox"/> Existing If Existing, date constructed: _____ Pit capacity: _____ (bbls)	
Is the pit located in a Sensitive Ground Water Area? <input type="checkbox"/> Yes <input type="checkbox"/> No		Chloride concentration: _____ mg/l <i>(For Emergency Pits and Settling Pits only)</i>	
Is the bottom below ground level? <input type="checkbox"/> Yes <input type="checkbox"/> No		Artificial Liner? <input type="checkbox"/> Yes <input type="checkbox"/> No	
How is the pit lined if a plastic liner is not used?		_____	
Pit dimensions (all but working pits):    _____ Length (feet)    _____ Width (feet) <input type="checkbox"/> N/A: Steel Pits Depth from ground level to deepest point: _____ (feet) <input type="checkbox"/> No Pit			
If the pit is lined give a brief description of the liner material, thickness and installation procedure.		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring.	
Distance to nearest water well within one-mile of pit: _____ feet    Depth of water well _____ feet		Depth to shallowest fresh water _____ feet. Source of information: <input type="checkbox"/> measured <input type="checkbox"/> well owner <input type="checkbox"/> electric log <input type="checkbox"/> KDWR	
<b>Emergency, Settling and Burn Pits ONLY:</b> Producing Formation: _____ Number of producing wells on lease: _____ Barrels of fluid produced daily: _____ Does the slope from the tank battery allow all spilled fluids to flow into the pit? <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Drilling, Workover and Haul-Off Pits ONLY:</b> Type of material utilized in drilling/workover: _____ Number of working pits to be utilized: _____ Abandonment procedure: _____ _____ Drill pits must be closed within 365 days of spud date.	
<b>Submitted Electronically</b>			

<b>KCC OFFICE USE ONLY</b>			
Date Received: _____	Permit Number: _____	Permit Date: _____	Lease Inspection: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Liner <input type="checkbox"/> Steel Pit <input type="checkbox"/> RFAC <input type="checkbox"/> RFAS			

**PERMIT EXPIRES : 08/06/2019**

# UNIT WELL FILE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**FX**

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
KSNM67015

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit or CA/Agreement, Name and/or No.  
KSNM100060X

8. Well Name and No.  
SERU 5-2

9. API Well No.  
15-129-21693-00-S1

10. Field and Pool or Exploratory Area  
STIRRUP

11. County or Parish, State  
MORTON COUNTY, KS

1. Type of Well  
 Oil Well  Gas Well  Other: UNKNOWN OTH

2. Name of Operator  
MERIT ENERGY COMPANY  
Contact: KATHERINE A MCCLURKAN  
E-Mail: kathy.mcclurkan@meritenergy.com

3a. Address  
13727 NOEL RD STE 500  
DALLAS, TX 75240  
3b. Phone No. (include area code)  
Ph: 972-628-1660  
Fx: 972-628-1690

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 11 T33S R40W SWNW 2325FNL 680FWL

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Merit Energy Company request approval to plug and abandon the above referenced well. The plugging procedure, current & proposed WBD's, and reclamation procedure are attached.

Adj DCR 03/29/19  
4/3/2019  
Eng S.E. Bleen  
Adj \_\_\_\_\_

Approved with conditions.  
"see Attached Conditions of Approval"  
S.E. Bleen

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #459543 verified by the BLM Well Information System  
For MERIT ENERGY COMPANY, sent to the Tulsa  
Committed to AFMSS for processing by DALE ROBINS on 03/29/2019 (19DCR01415E)**

Name (Printed/Typed) KATHERINE A MCCLURKAN	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 03/28/2019

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>S.E. Bleen</u>	Title <u>Petroleum Engineer</u>	Date <u>4/3/2019</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Oklahoma Field Office  
201 Stephenson Parkway, Ste. 1200  
Norman, Oklahoma 73072  
www.blm.gov/nm



## ENGINEERING CONDITIONS OF APPROVAL FOR THE PLUG AND ABANDON SUNDRY

Well Name: SERU #5-2 Lease No: KSNM 100060X Lse. #67015  
Location: SW-NW Sec. 11, T33-R40W Morton County, KS.  
API Number: 15-129-21693  
Operator: Merit Energy Company Date: April 3, 2019  
Completed by Date: June 15, 2019

**A COPY OF THESE CONDITIONS OF APPROVAL MUST BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE**

### SPECIFIC CONDITIONS OF APPROVAL

Assure BTW (?) to surface is covered with cement.  
13.375" Surface Casing Shoe set at 610'. Cement to surface.  
8.625" Production Casing Shoe set at 1585'. PBD 1504'  
Top Perf 1164'-1304'

#### Recommended Revised Procedure 4/3/2019

1. MIRUPU, POOH with tbg. and Pkr.,
2. **Bottom Plug:** Pump and fill 8.625" casing w/45 bbls 9.3# mud. RIH w/8.625" CIBP and set at ~1114' capping with 20 sxs. 15.3# Class "C" cement. Displace and POOH with tbg.. WOC
3. Tag TOC ~1050' or higher. Pressure test casing to 300 psi.. If casing does not test, PU packer and isolate leak. Assure casing integrity from 610' to surface. Note: Cemented production string with 740 sxs. cmt. TOC may be at surface, a CBL could be run to verify TOC.
4. **Surface Shoe (610') and BTW (?) Plug:** RU wireline truck and perforate 8.625" casing at 660'. RU on 8.625" casing. Break down perfs at 660' and establish circulation to surface. Mix and pump 15.3# Class "C" cement, circulate cement from 660' to surface filling the 8.625" casing to surface.  
**Note:** If CBL confirms cement circulated to surface on the 8.625" primary cementing job spot 250' surface shoe plug w/15.3# Class "C" cement from 660' to 410', WOC- tag 410' or higher. Spot a BTW (?) 15.3# Class "C" cement plug from 100' below BTW to surface.
5. Tag and Top off with cement, and cap.

## GENERAL CONDITIONS OF APPROVAL

1. At least three work days prior to operations (no voice mail or fax accepted, person to person contact only Monday-Friday) notify BLM Inspection and Enforcement on call 405-245-5048 so that a representative of this office may be present to witness the operations.
2. Cement slurry shall be Class "A" (1.18 cf/sx), Class "C" (1.32 cf/sx), Class "G" (1.15cf/sx), or Class "H" (1.06 cf/sx). Cement retarders or accelerators shall be used if necessary.
3. Treatable water shall be protected from 100' below the base of the treatable water table to surface. Operator is responsible for contacting the Oklahoma Corporation Commission for the base of treatable water depth.
4. Mud: Each of the intervals between plugs shall be filled with 9.3#/gal drilling mud or mud of sufficient mud weight to stabilize the well bore.
5. Prior to perforating any casing string, adequate BOPs, lubricators, and controls shall be installed and function tested.
6. It shall be left to the discretion of the BLM representative on location while plugging as to whether or not any additional cement plugs shall need to be tagged or pressure tested.
7. Surface Plug: A cement plug of at least 50' shall be placed across all annuluses.
8. Surface Cap: The casing will be cut off a minimum of 3' below ground level and the well bore capped with a ¼ inch thick metal plate. The plate shall contain the following inscription information: legal description, well number, lease number, API no., and date. The plate shall be welded in place. A weep hole will be left in the plate.
9. Note: The date inscribed on plate shall be the date well was plugged and abandoned and shall be reported on the 3160-5 sundry form.
10. Surface Restoration: Flat tanks or frac tanks, you are required to empty the tanks by tank truck and waste to be disposed in an authorized facility. Any excess drilling mud shall be disposed of in an authorized facility, reused at a well currently drilling, or hauled to a mud company central facility for reconditioning/reuse. Any cellar shall be filled with soil to ground level.
11. Surface reclamation: The surface of the lands disturbed in connection with the conduct of operations shall be reclaimed in accordance with the previously approved reclamation plan in the APD. Surface reclamation should be coordinated with the Bureau of Land Management Multi-Resources, 201 Stephenson Parkway, Suite 1200, Norman, OK. 73072, telephone (405) 579-7100.
12. Regulations require that an original and four copies of the Sundry Notice (Form 3160-5, enclosed) be submitted within thirty (30) days after completion of operations. Summarize operations performed, including all pertinent dates and results of operations.

*BLM Contact Information:*

<i>Inspections &amp; Enforcement:</i>	<i>Mr. Zach Lawrence</i>	<i>405-579-7158 (office) 405-818-3288 (cell)</i>	<i>zlawrence@blm.gov</i>
	<i>On Call Line</i>	<i>1-405-245-5048</i>	
<i>Petroleum Engineer:</i>	<i>Mr. Steven Bleem</i>	<i>(405)579-7138 (office)</i>	<i>sbleem@blm.gov</i>

The plugging procedures and the conditions for approval have been reviewed and approved 4-3-2019 for implementation by Steven Bleem Petroleum Engineers and are subject to the conditions of approval. Please contact the Inspection and Enforcement on call line 405-245-5048 seventy two hours before rigging up on the well to schedule a field inspector to be on location to witness the plugging operations and assure the subject well is plugged in accordance to Federal Rules and Regulations.



Steven Bleem  
April 3, 2019

# MERIT ENERGY COMPANY

## WELLBORE DIAGRAM

LEASE & WELL NO. Stirrup Unit 5-2 (WSW)  
FIELD NAME Stirrup  
LOCATION 11 - 33S - 40W

FORMER NAME N/A  
COUNTY & STATE Morton, KS  
API NO. 15129216930001  
WBS DATE 3/12/2019 LG

### SURFACE CASING

SIZE 13 3/8" WEIGHT 48# DEPTH 610'  
GRADE \_\_\_\_\_ SX. CMT. 430 sx TOC surface

### PRODUCTION CASING

SIZE 8 5/8" WEIGHT 24# DEPTH 1585'  
GRADE \_\_\_\_\_ SX. CMT. 740 sx TOC \_\_\_\_\_

PBTD@ 1504'  
TD@ 1585'

\*\*\* 5.5" Wellhead

### TUBING

8' x 2 7/8" tbg sub

32 - 2 7/8" tbg

SN @ 1026

4' perf sub

PKR @ 1033

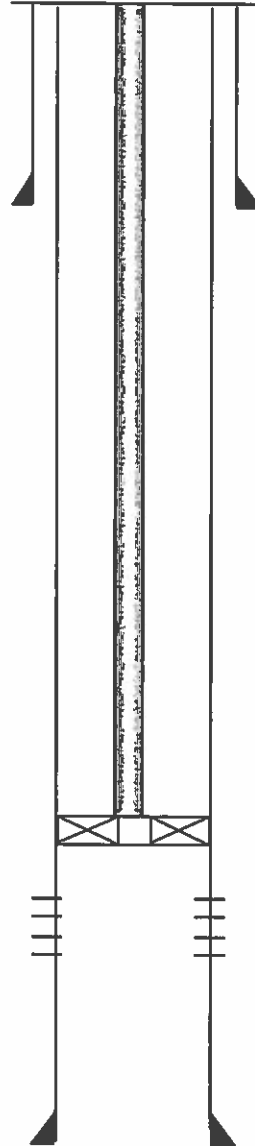
2' BP

tag gravel pack @ 1041'

\*Gravel Pack\*  
@ 1041'  
9000# 20/40 sd

PKR @ 1033

Glorietta  
1164 - 1304



# MERIT ENERGY COMPANY

## PROPOSED WELLBORE DIAGRAM

LEASE & WELL NO. Stirrup Unit 5-2 (WSW)  
 FIELD NAME Stirrup  
 LOCATION 11 - 33S - 40W

FORMER NAME N/A  
 COUNTY & STATE Morton, KS  
 API NO. 15129216930001  
 WBS DATE 3/27/2019 LG

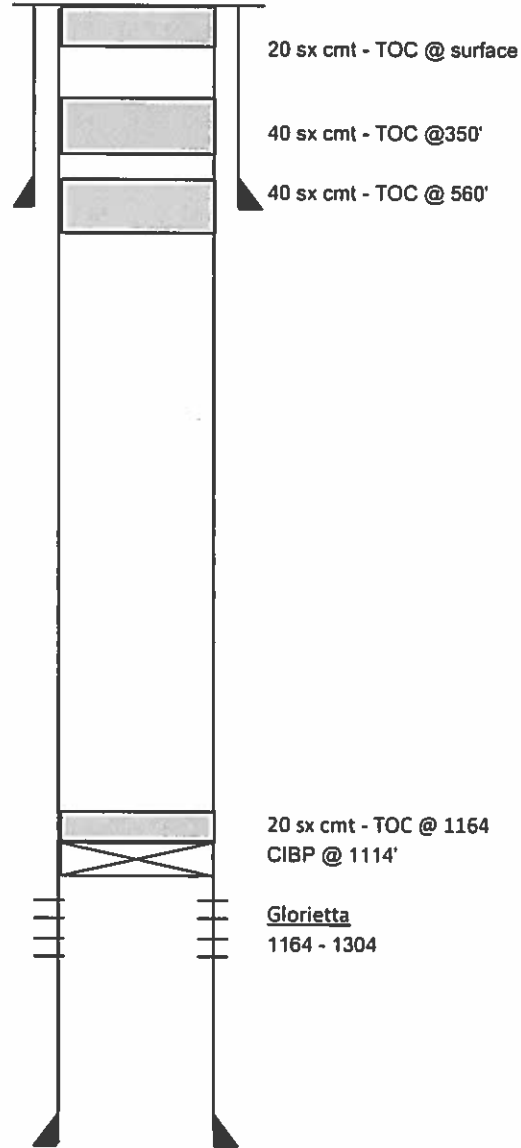
**SURFACE CASING**

SIZE 13 3/8" WEIGHT 48# DEPTH 610'  
 GRADE \_\_\_\_\_ SX. CMT. 430 sx TOC surface

**PRODUCTION CASING**

SIZE 8 5/8" WEIGHT 24# DEPTH 1585'  
 GRADE \_\_\_\_\_ SX. CMT. 740 sx TOC \_\_\_\_\_

PBTD@ surface  
 TD@ 1585'



*Plugging Procedures for:*

Merit Energy Company  
Stirrup Unit 5-2 (WSW)  
Sec 11-T33S-R40W  
Morton Co., KS  
API# 15-129-21693

MIRU. Check pressures on casing and tubing. Ensure 0 psi, bleed off, or kill well if necessary.  
Dig around wellhead, remove big section and install BOP.  
Release the packer and TOOH w/ tubing string (8' x 2 7/8" tubing sub, 32 jts. Of 2 7/8" tubing, SN {1026'}; 4' perforated sub and packer.) 1033' OA  
Pump 45 bbls mud down hole.  
TIH w/ 8 5/8" CIBP and set @ 1114', spotting 20 sx cement on top. POOH to 650', circulate and WOC 4 hrs.  
Spot 40 sx cement from 560' to 660'.  
PU to 450' and circ 4 hrs, WOC.  
Spot 40 sx cement from 350' to 450'.  
PU to 35' and circulate 4 hrs, to WOC.  
Spot 20 sx cement from 34' to surface.  
Weld on dated ID plate.  
Cover up hole, pull up anchors, clean up location. Move rig and equipment off location.



**Merit Energy Company  
Stirrup Unit 5-2 (WSW)  
Sec 11-T33S-R40W  
Morton Co., KS  
API# 15-129-21693**

**Reclamation Procedure:**

All equipment (tank batteries, pumping units, metering houses, etc.) will be removed from location.

All disturbed areas will have caliche/gravel/cement removed.

All applicable slopes will be recontoured to original conditions and entire disturbed areas will be backfilled with topsoil.

The disturbed area will be landscaped and seeded with the requirements provided by the surface owner, in order to revegetate location to native species.

## Revisions to Operator-Submitted EC Data for Sundry Notice #459543

	<b>Operator Submitted</b>	<b>BLM Revised (AFMSS)</b>
Sundry Type:	ABD NOI	ABD NOI
Lease:	FEE	KSNM67015
Agreement:	KSNM100060X	KSNM100060X (KSNM100060X)
Operator:	MERIT ENERGY COMPANY 13727 NOEL ROAD SUITE 1200 DALLAS, TX 75240 Ph: 972-628-1660	MERIT ENERGY COMPANY 13727 NOEL RD STE 500 DALLAS, TX 75240 Ph: 972.628.1546
Admin Contact:	KATHERINE A MCCLURKAN REGULATORY ANALYST E-Mail: kathy.mcclurkan@meritenergy.com Cell: 972-628-1660 Ph: 972-628-1660 Fx: 972-628-1690	KATHERINE A MCCLURKAN REGULATORY ANALYST E-Mail: kathy.mcclurkan@meritenergy.com Cell: 972-628-1660 Ph: 972-628-1660 Fx: 972-628-1690
Tech Contact:	KATHERINE A MCCLURKAN REGULATORY ANALYST E-Mail: kathy.mcclurkan@meritenergy.com Cell: 972-628-1660 Ph: 972-628-1660 Fx: 972-628-1690	KATHERINE A MCCLURKAN REGULATORY ANALYST E-Mail: kathy.mcclurkan@meritenergy.com Cell: 972-628-1660 Ph: 972-628-1660 Fx: 972-628-1690
Location:		
State:	KS	KS
County:	MORTON	MORTON
Field/Pool:	STIRRUP	STIRRUP
Well/Facility:	STIRRUP ENHANCED RECOVERY UNIT 5-2 Sec 11 T33S R40W SWNW 2325FNL 680FWL 37.193342 N Lat, 101.643558 W Lon	SERU 5-2 Sec 11 T33S R40W SWNW 2325FNL 680FWL



Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513

Phone: 316-337-6200  
Fax: 346-337-6211  
<http://kcc.ks.gov/>

Dwight D. Keen, Chair  
Shari Feist Albrecht, Commissioner  
Jay Scott Emler, Commissioner

Laura Kelly, Governor

April 08, 2019

Katherine McClurkan  
Merit Energy Company, LLC  
13727 NOEL ROAD, SUITE 1200  
DALLAS, TX 75240

Re: Workover Pit Application  
SERU 5-2  
Sec.11-33S-40W  
Morton County, Kansas

Dear Katherine McClurkan:

District staff has inspected the location and has determined that an unsealed condition will present a pollution threat to water resources.

District staff has recommended that the Workover pit be lined. If a plastic liner is to be used it must have a minimum thickness of 10 mil. Integrity of the liner must be maintained at all times.

**NO completion fluids or non-exempt wastes shall be placed in the Workover pit.**

The free fluids in the Workover pit should be removed as soon as practical after drilling operations have ceased. The fluids should be taken to an authorized disposal well. Please call the District Office at (620) 682-7933 when the fluids have been removed. Please file form CDP-5 (August 2008), Exploration and Production Waste Transfer, through KOLAR within 30 days of fluid removal.

If you have any questions or concerns please feel free to contact the District Office at (620) 682-7933.