FORM 4
Rev 04/13

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109

DE	ET	OE	ES

Document Number: 401780539

Date Received: 10/02/2018

SUNDRY NOTICE

Submit a signed original. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full in Comments or provide as an attachment. Identify Well by API Number; identify Oil and Gas Location by Location ID Number; identify other Facility by Facility ID Number.

OGCC Operator Number: 10531 Contact Name: Scott Ghan

Name of Operator: VANGUARD OPERATING LLC Phone: (970) 876-1959

Address: 5847 SAN FELIPE #3000 Fax: ( )

City: HOUSTON State: TX Zip: 77057 Email: sghan@vnrenergy.com

Complete the Attachment Checklist

OP OGCC

API Number : 05- 045 12499 00 OGCC Facility ID Number: 285467

Well/Facility Name: CIRCLE B LAND Well/Facility Number: 33B-35-692

Location QtrQtr: NWSE Section: 35 Township: 6S Range: 92W Meridian: 6

County: GARFIELD Field Name: MAMM CREEK

Federal, Indian or State Lease Number:

Survey Plat		
Directional Survey		
Srfc Eqpmt Diagram		
Technical Info Page		
Other		

CHANGE OF LOCATION OR AS BUILT GPS REPORT

☐ Change of Location * ☐ As-Built GPS Location Report ☐ As-Built GPS Location Report with Survey

* Well location change requires new plat. A substantive surface location change may require new Form 2A.

SURFACE LOCATION GPS DATA

Data must be provided for Change of Surface Location and As Built Reports.

Latitude PDOP Reading Date of Measurement

Longitude GPS Instrument Operator's Name

LOCATION CHANGE **(all measurements in Feet)**

Well will be: (Vertical, Directional, Horizontal)

		FNL/FSL		FEL/FWL		
Change of **Surface** Footage **From** Exterior Section Lines:		1673	FSL	1725	FEL	
Change of **Surface** Footage **To** Exterior Section Lines:						
Current **Surface** Location **From**	QtrQtr NWSE	Sec 35	Twp 6S	Range 92W	Meridian 6	
New **Surface** Location **To**	QtrQtr	Sec	Twp	Range	Meridian	
Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:		1869	FSL	2018	FEL	
Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:						**
Current **Top of Productive Zone** Location **From**		Sec 35	Twp 6S	Range 92W		
New **Top of Productive Zone** Location **To**		Sec	Twp	Range		
Change of **Bottomhole** Footage **From** Exterior Section Lines:		1869	FSL	2018	FEL	
Change of **Bottomhole** Footage **To** Exterior Section Lines:						**
Current **Bottomhole** Location		Sec 35	Twp 6S	Range 92W		
New **Bottomhole** Location		Sec	Twp	Range		

** attach deviated drilling plan

Is location in High Density Area?

Distance, in feet, to nearest building , public road: , above ground utility: , railroad: ,

property line: , lease line: , well in same formation:

Ground Elevation feet Surface owner consultation date

CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT

Objective Formation	Formation Code	Spacing Order Number	Unit Acreage	Unit Configuration

OTHER CHANGES

- [ ] **REMOVE FROM SURFACE BOND** **Signed surface use agreement is a required attachment**
- [ ] **CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER**

From: Name CIRCLE B LAND Number 33B-35-692 Effective Date: _____

To: Name _____ Number _____

- [ ] **ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted. Field inspection will be conducted to verify site status.**
  - [ ] WELL:Abandon Application for Permit-to-Drill (Form2) – Well API Number _____ has not been drilled.
  - [ ] PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number _____ has not been constructed (Permitted and constructed pit requires closure per Rule 905)
  - [ ] CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number _____ has not been constructed (Constructed facility requires closure per Rule 908)

  OIL & GAS LOCATION ID Number: _____
    - [ ] Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.
    - [ ] Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

  Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.

- [ ] **REQUEST FOR CONFIDENTIAL STATUS**
- [ ] **DIGITAL WELL LOG UPLOAD**
- [ ] **DOCUMENTS SUBMITTED** Purpose of Submission: _____

RECLAMATION

INTERIM RECLAMATION

- [ ] Interim Reclamation will commence approximately _____

  Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

- [ ] Interim reclamation complete, site ready for inspection.
  Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

  Field inspection will be conducted to document Rule 1003.e. compliance

FINAL RECLAMATION

- [ ] Final Reclamation will commence approximately _____

  Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

- [ ] Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

  Field inspection will be conducted to document Rule 1004.c. compliance

Comments:

ENGINEERING AND ENVIRONMENTAL WORK

☐ NOTICE OF CONTINUED TEMPORARILY ABANDONED STATUS

Indicate why the well is temporarily abandoned and describe future plans for utilization in the COMMENTS box below or provide as an attachment, as required by Rule 319.b.(3).

Date well temporarily abandoned _____ Has Production Equipment been removed from site? _____

Mechanical Integrity Test (MIT) required if shut in longer than 2 years. Date of last MIT _____

☐ SPUD DATE: _____

TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK

Details of work must be described in full in the COMMENTS below or provided as an attachment.

☒ NOTICE OF INTENT Approximate Start Date 10/09/2018

☐ REPORT OF WORK DONE Date Work Completed _____

☐ Intent to Recomplete (Form 2 also required)	☐ Request to Vent or Flare	☐ E&P Waste Mangement Plan
☐ Change Drilling Plan	☐ Repair Well	☐ Beneficial Reuse of E&P Waste
☐ Gross Interval Change	☐ Rule 502 variance requested. Must provide detailed info regarding request.	
☒ Other Modified MIT Request	☐ Status Update/Change of Remediation Plans for Spills and Releases	

COMMENTS:

Vanguard respectfully requests COGCC approval to allow a modified MIT to be performed on the Circle B Land 33B-35-692 with its current wellbore configuration. Vanguard is interested in regaining production on this well once commodity prices make the costly fishing work economic. The most recent bradenhead test dated 6/19/18 indicated zero psi pressure build in seven days.
Coiled tubing was stuck in this well during a through tubing sand cleanout in October 2016. A sand bridge had pressure below, that when drilled through surged and brought sand up and around the coiled tubing and production tubing sticking both in place. Once stuck, the coiled tubing was chemically cut at 3,000' and the well was left shut-in.
Current configuration of the well has 4 ½" production casing with Williams Fork perforations between 4,492' and 6,589'. 2 3/8" production tubing is intact with the end of tubing at 4,472'. 1 ¼" coiled tubing passes through the end of production tubing to 4,918' and cut at 3,000'. The coiled tubing has a full BHA consisting of a drag bit, under reamer, motor, jars, circulation sub, hydraulic disconnect, and back pressure valve (note the attached wellbore diagram).
Vanguard recently attempted to establish flow up through the coiled tubing by perforating the coil below the production tubing. The shot was made, and a pump in established, but quickly packed off with sand. The production tubing will hold pressure indicating that the production tubing/coiled tubing annulus and the casing/coiled tubing annulus are both hydraulically sealed with sand. The tubing pressure test dropped from 3,580 psi to 3,561 psi in 20 minutes. The casing/production tubing annulus will also hold pressure in the same manner but has not yet been charted. Neither the tubing, nor the casing will build any shut-in pressure or show signs of gas at surface.
The procedure for the modified MIT would entail pumping and charting a pressure test first on the tubing, then release pressure on the tubing and switch over to the casing for an additional charted test. The test should be witnessed by a COGCC field representative.
Details regarding the well and the MIT were discussed during an in person meeting with Craig Burger and Vanguard Engineer Dave Smith on October 1, 2018.

CASING AND CEMENTING CHANGES

Casing Type	Size	Of	/	Hole	Size	Of	/	Casing	Wt/Ft	Csg/LinTop	Setting Depth	Sacks of Cement	Cement Bottom	Cement Top

H2S REPORTING

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

Gas Analysis Report must be attached.

H2S Concentration: _____ in ppm (parts per million) Date of Measurement or Sample Collection _____

Description of Sample Point:

Absolute Open Flow Potential _____ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: _____

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: _____

COMMENTS:

Best Management Practices

No	BMP/COA Type	Description

Operator Comments:

Please route to Craig Burger based on yesterday's meeting with Vanguard staff.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: Print Name: Scott Ghan

Title: Senior EHS Specialist Email: sghan@vnrenergy.com Date: 10/2/2018

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Chollett, Shannon Date: 10/10/2018

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description
	1)Check bradenhead pressure and perform annual bradenhead test. Submit results electronically on a Form 17 and contact COGCC Area Engineer. 2)Two years from this modified MIT submit another Form 4 Sundry documenting any well status updates as well as future plans for well.

General Comments

User Group	Comment	Comment Date
Engineer	Remaining Reserves: 418,803 MMscf Current PV10: Current economics of fishing the well to regain production at $3.00/ Mscf gives a $23,000 NPV10 assuming a $200,000 fishing expense. Future PV10: At $4.50/Mscf the NPV10 runs up to $195,000.	10/10/2018

Total: 1 comment(s)

Attachment Check List

Att Doc Num	Name
401780539	SUNDRY NOTICE APPROVED-OTHER
401781735	OTHER
401790775	FORM 4 SUBMITTED

Total Attach: 3 Files