

FORM 33 Rev 6/99

State of Colorado Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

INJECTION WELL PERMIT APPLICATION

Submit a completed Form 33 with or after approval obtained on Form 31 (Underground Injection Permit Application) or you must have a previously approved Injection Well Permit.

- 1. Operator may not commence injection into this well until this form is approved.
2. Each individual injection well must be approved by this form.

Complete the Attachment Checklist

Table with 2 columns: Attachment, Oper, OGCC. Rows: Current Wellbore Diagram, Proposed Wellbore Diagram.

Well Name and Number: HRMU #11 API No:
UIC Facility No: 159169 (as assigned on an approved Form 31)
Project Name: Harker Ranch Morrow Sand Unit Operator Name: Mid-Con Energy Operating, LLC
Field Name and Number: Harker Ranch 33557 County: Cheyenne
QtrQtr: NW NW Sec: 13 Twp: 13S Range: 43W Meridian: 6th PM

CURRENT WELLBORE INFORMATION

Cement Top Determined By:

Table with 8 columns: Casing Type, Size, Depth, No. Sacks, Cement Top, CBL, Circulated, Calculated. Rows: Surface Casing, Intermediate Casing (if any), Production Casing.

Plug Back Total Depth: Tubing Depth: ~5,235' Packer Depth: ~5,235'
Morrow Formation Gross Perforation Interval: ~5,285 to ~5,310
Formation Gross Perforation Interval: to
Formation Open Hole Interval (if any): to

List below all Plugs, Bridge Plugs, Stage Cementing or Squeeze Work performed on this wellbore: (if more space needed, continue on reverse side of this form.)

- 1.
2.
3.
4.

Describe below any changes to the wellbore which will be made upon conversion. (This includes but not limited to changes of tubing and packer setting depths, any additional squeeze work for aquifer protection or casing leaks, setting of bridge plugs to isolate non-injection formations.)

- 1. Drill well and set and cement surface and production casing.
2. Perforate and acidize Morrow zone.
3. Run 2-3/8" tubing and tension set packer +/- 50' above top perf.
4.

Comments:

This well has not been drilled. All depths are estimates.

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

Print Name: Ellen McElrath

Signed: [Signature] Title: Production Engineer Date: 6/19/14

OGCC Approved: Title: Date:

MAX. SURFACE INJECTION PRESSURE: If Disposal Well, MAX. INJECTION VOL. LIMIT:

CONDITIONS OF APPROVAL, IF ANY:



**Mid-Con Energy**  
**Wellbore Sketch**

**PROPOSED**

Date June 19, 2014  
Updated 6/19/14 - EM

Well Name HRMU #11  
Field Name Harker Ranch  
County Cheyenne  
State Colorado  
Spud Pending

Legal Location 13-13S-43W  
Coordinates: 600' FNL & 760' FWL  
Unit No. \_\_\_\_\_  
API No. Pending  
IP Data \_\_\_\_\_

KB: \_\_\_\_\_  
GL: 4,091'

CASING				
Size	Description	Top	Bottom	Bit Size
8 5/8"	24# J-55 STC	0	400'	12 1/4"
5 1/2"	15.5# J-55 LTC	0	5,450'	8 3/4"

CEMENT		
Pipe Size	Description	TOC
8 5/8"	275 SXS	SURF
5 1/2"	575 SXS	1,500'

TUBING STRING			
Description	Length	Depth	
KB			
2 7/8" tbg			
Tension Set Packer			

