



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.

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

Complete the
Attachment Checklist

	Oper	OGCC
Current Wellbore Diagram		
Proposed Wellbore Diagram	✓	

CURRENT WELLBORE INFORMATION

Cement Top Determined By:

	SIZE	DEPTH	NO. SACKS	CEMENT TOP	CBL	CIRCULATED	CALCULATED
Surface Casing	8 5/8"	~400'	~275	SURF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intermediate Casing (if any)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Production Casing	5 1/2"	~5,450'	~575	~1,500	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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: See M. Elrath 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		

