

**FORM
5**Rev
09/14**State of Colorado****Oil and Gas Conservation Commission**

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Document Number:

400751389

Date Received:

DRILLING COMPLETION REPORT

This form is to be submitted within 30 days of the setting of production casing, the plugging of a dry hole, the deepening or sidetracking of a well, or any time the wellbore configuration is changed. If the well is deepened or sidetracked a new Form 5 is required. If an attempt has been made to complete/produce a well, then the operator shall submit Form 5A (Completed Interval Report.) If the well has been plugged, a form 6 (Well Abandonment Report) is required.

Completion Type ☒ Final completion ☐ Preliminary completion

OGCC Operator Number: 46685

Contact Name: Paul Belanger

Name of Operator: KINDER MORGAN CO2 CO LP

Phone: (970) 882-2464

Address: 17801 HWY 491

Fax: (970) 882-5521

City: CORTEZ State: CO Zip: 81321

API Number 05-083-06718-00

County: MONTEZUMA

Well Name: CD

Well Number: 4

Location: QtrQtr: NWSE Section: 18 Township: 38N Range: 18W Meridian: N

Footage at surface: Distance: 1580 feet Direction: FSL Distance: 2356 feet Direction: FEL

As Drilled Latitude: 37.548680 As Drilled Longitude: -108.873080

GPS Data:

Date of Measurement: 10/09/2014 PDOP Reading: 5.0 GPS Instrument Operator's Name: Gerald G Huddleston

** If directional footage at Top of Prod. Zone Dist.: 1552 feet. Direction: FSL Dist.: 3030 feet. Direction: FWL

Sec: 18 Twp: 38N Rng: 18W

** If directional footage at Bottom Hole Dist.: 1560 feet. Direction: FSL Dist.: 3031 feet. Direction: FWL

Sec: 18 Twp: 38N Rng: 18W

Field Name: MCELMO

Field Number: 53674

Federal, Indian or State Lease Number:

Spud Date: (when the 1st bit hit the dirt) 11/06/2014 Date TD: 12/01/2014 Date Casing Set or D&A: 11/28/2014

Rig Release Date: 12/07/2014 Per Rule 308A.b.

Well Classification:

☐ Dry ☐ Oil ☒ Gas/Coalbed ☐ Disposal ☐ Stratigraphic ☐ Enhanced Recovery ☐ Storage ☐ Observation

Total Depth MD 8623 TVD** 8675 Plug Back Total Depth MD 8580 TVD** 8530

Elevations GR 6795 KB 6818 Digital Copies of ALL Logs must be Attached per Rule 308A ☒

List Electric Logs Run:

OH suite for Leadville; Pulse neutron; CBL, image log; mudlog; The triple LAS file contains many of the curves coming from the individual logs submitted as PDFs (laterologs, poro).

CASING, LINER AND CEMENT

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Top	Cmt Bot	Status
CONDUCTOR	20	16	55	0	80	100	0	80	VISU
SURF	12+1/4	9+5/8	36	0	2,688	1,354	0	268	CALC
1ST	8+3/4	7	29/32	0	8,315	1,900	0	8,315	CALC
1ST LINER	6	4+1/2	13	8032	8,623	100	8,032	8,623	CALC
OPEN HOLE	6		0	8623					CALC

STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: 11/28/2014

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom

Details of work:

Surface Cement

Date Cemented: 11/10/2014

Lead: 1000 sx Light VersaCem 12.4#

Tail: 300 sx Class C LifeCem 15.8#

Note: Top out: 54 sx VersaCem 15.8#

Production Cement

Date Cemented: 11/28/2014

Lead: 1500 sx HalCem 13#

Tail: 300 sx HalCem 13.5#

Note: Cap: 100 sx HalCem 15.8#

Liner Cement

Date Cemented: TBD

Lead: 100 sx HalCem

Note:

Liner Squeeze

Perforations

8610' - 8614' 4 JSPF at 600 Phasing 16 holes 1/20/2015

Cement Retainer

Set @ 8580' 1/21/2015

Cement Squeeze

75 sx Class "G" 1/21/2015

15 bbl. Slurry

6 bbls pumped below retainer (30 sacks)

9 bbls reversed out of pipe (45 sacks)

Conductor @ 80 ft

Conductor Casing

Size 16 in

Set at 80 ft

Csg Shoe @ 2688 ft

Surface Casing

Size 9 5/8" in

Wt. 36 ppf Grade J-55 from surface to 2688 ft

Hole Size 12-1/4 in

Est. TOC surface ft

Production Casing

Size 7 in
Wt. 29 ppf Grade L-80 from surface to 6096 ft
Wt. 32 ppf Grade L-80 from 6096 to 8154 ft
Wt. 29 ppf Grade L-80 from 8154 to 8315 ft
Hole Size 8-3/4 in
Est. TOC surface ft

Production Liner
Size 4-1/2 in
Wt. 12.6 ppf Grade 13CR80 from 8032 to 8623 ft
Hole Size 6 in

Completion
Perforations
8420'-8490' 4 jsf @ 600 phasing 280 holes 1/26/2015
Acid
3000 gals 28% HCl

Csg Shoe @ 8315 ft

RBP
Set @ 8360' for MIT Test
MIT
Test 4.5" and 7" casing from 8360' to surface. 400 PSI for 30 minutes
2/2/2015

Cement Retainer @ 8580 ft

Liner Shoe @ 8623 ft

FORMATION LOG INTERVALS AND TEST ZONES

FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analysis must be submitted to COGCC)
	Top	Bottom	DST	Cored	
MORRISON	484				
ENTRADA	1,145				
CHINLE	1,982				
SHINARUMP	2,582				
CUTLER	2,584				
CUTLER-HONAKER TRAIL	4,730				
PARADOX	5,636				
DESERT CREEK	6,121				
MOLAS	8,220				
LEADVILLE	8,295				
OURAY	8,630				

Comment:

This well was originally permitted to be a long horizontal. A subsequent NOI and approved sundry for a change in BHL occurred as a directional so as to land in fee minerals - but otherwise remains a mostly vertical completion. This form 5 is to serve as a work completed to the NOI sundry docnum 400715108.

Survey does not go to TD; had to extrapolate Northings/Eastings; ~2'/100' northings and

OH below liner shoe was plugged back; cement report attached.

The triple LAS file contains many of the curves coming from the individual logs submitted as PDFs

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

Signed: _____

Print Name: Paul E. Belanger

Title: Regulatory Consultant

Date: _____

Email: Paul_Belanger@KinderMorgan.com

Attachment Check List

Att Doc Num	Document Name	attached ?	
<u>Attachment Checklist</u>			
400809862	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
400809867	Directional Survey **	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	DST Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Logs	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Other	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<u>Other Attachments</u>			
400809813	PDF-MUD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400809846	PDF-PULSED NEUTRON	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400809854	LAS-PULSED NEUTRON	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400809859	PDF-CBL 1ST RUN	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400810123	PDF-FORMATION MICRO SCAN	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400810191	PDF-LATEROLOG	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400810195	LAS-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400810198	DLIS-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400810202	PDF-POROSITY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400810215	WELLBORE DIAGRAM	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400810217	DIRECTIONAL DATA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400811314	LAS-SONIC	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400811318	PDF-SONIC	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400811329	PDF-LATEROLOG	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400811336	LAS-GAMMA RAY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400811337	PDF-	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)