

FORM
5Rev
09/14

State of Colorado

Oil and Gas Conservation Commission

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



Document Number:

401865353

Date Received:

12/24/2018

DRILLING COMPLETION REPORT

Per Rule 308A, this form and all required attachments shall be submitted after completing the drilling operations to drill, sidetrack, or deepen a wellbore and after changing the casing and cement configuration of a wellbore. If any attempt has been made to test, complete, or produce the well, the operator shall also submit a Form 5A (Completed Interval Report) per Rule 308B. If the well has been plugged, the operator shall also submit a Form 6 (Well Abandonment Report) per Rule 311.

Completion Type ☒ Final completion ☐ Preliminary completion

OGCC Operator Number: 47120 Contact Name: CRYSTAL MCCLAIN
 Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (720) 9294398
 Address: P O BOX 173779 Fax: _____
 City: DENVER State: CO Zip: 80217-

API Number 05-123-47102-00 County: WELD
 Well Name: COWBOY Well Number: 21-2HZ
 Location: QtrQtr: SENE Section: 21 Township: 2N Range: 67W Meridian: 6
 Footage at surface: Distance: 2335 feet Direction: FNL Distance: 931 feet Direction: FEL
 As Drilled Latitude: 40.124676 As Drilled Longitude: -104.889468

GPS Data:

Date of Measurement: 08/07/2018 PDOP Reading: 1.1 GPS Instrument Operator's Name: ROB WILSON** If directional footage at Top of Prod. Zone Dist.: 2483 feet Direction: FNL Dist.: 1909 feet Direction: FELSec: 21 Twp: 2N Rng: 67W** If directional footage at Bottom Hole Dist.: 57 feet Direction: FNL Dist.: 2021 feet Direction: FELSec: 16 Twp: 2N Rng: 67WField Name: WATTENBERG Field Number: 90750

Federal, Indian or State Lease Number: _____

Spud Date: (when the 1st bit hit the dirt) 08/16/2018 Date TD: 09/22/2018 Date Casing Set or D&A: 09/23/2018Rig Release Date: 10/26/2018 Per Rule 308A.b.

Well Classification:

☐ Dry ☒ Oil ☐ Gas/Coalbed ☐ Disposal ☐ Stratigraphic ☐ Enhanced Recovery ☐ Storage ☐ ObservationTotal Depth MD 15570 TVD** 7430 Plug Back Total Depth MD 15549 TVD** 7434Elevations GR 5041 KB 5067 Digital Copies of ALL Logs must be Attached per Rule 308A ☐

List Electric Logs Run:

CBL, MWD/LWD. (GR/RES in API 123-47106).

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	26	16	42	0	106	64	0	106	VISU
SURF	13+1/2	9+5/8	36	0	1,889	734	0	1,889	VISU
1ST	8+1/2	5+1/2	17	0	15,561	1,820	1,376	15,570	CBL

STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: _____

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

Details of work:

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	
FOX HILLS	1,243				
PARKMAN	4,404				
SUSSEX	4,801				
SHARON SPRINGS	7,457				
NIOBRARA	7,586				

Operator Comments

Due to anti-collision needs and the variability of directional drilling, our as-drilled BHL could be different than the permitted.

Per Rule 317.p Exception, Open Hole Resistivity Logs have been run on the Cowboy 21-1HZ Well (API 123-47106).

The Top of Productive Zone provided is an estimate based on the landing point at 7983' MD.

As-drilled GPS data was taken after conductor was set.

Completion is estimated for Q1 2019.

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

Signed: _____ Print Name: CRYSTAL MCCLAIN

Title: REGULATORY ANALYST Date: 12/24/2018 Email: CRYSTAL.MCCLAIN@ANADARKO.COM

Attachment Check List

Att Doc Num	Document Name	attached ?			
<u>Attachment Checklist</u>					
401866073	CMT Summary *	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401871630	CMT Summary *	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	Core Analysis	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
401866074	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>					
401865353	FORM 5 SUBMITTED	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401866057	LAS-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401866065	PDF-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401866070	LAS-MWD/LWD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401866072	PDF-MWD/LWD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
401866075	DIRECTIONAL DATA	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineering Tech	Corrected 1st string casing cement top per CBL Corrected 1st string cement bottom to TD per directional survey Horizontal offset mitigation review complete	08/12/2019
Permit	Corrected TPZ. Pass	06/17/2019

Total: 2 comment(s)

