

FORM
5

Rev
02/20

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:

402472004

Date Received:

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/or 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: <u>96155</u>	Contact Name: <u>Bethany Kerley</u>
Name of Operator: <u>WHITING OIL & GAS CORPORATION</u>	Phone: <u>(303) 802-8376</u>
Address: <u>1700 LINCOLN STREET SUITE 4700</u>	Fax: _____
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80290</u>	Email: <u>bethany.kerley@whiting.com</u>

API Number <u>05-123-38740-00</u>	County: <u>WELD</u>
Well Name: <u>Horsetail</u>	Well Number: <u>30F-1942</u>
Location: QtrQtr: <u>SENW</u> Section: <u>30</u> Township: <u>10N</u> Range: <u>57W</u> Meridian: <u>6</u>	
	FNL/FSL FEL/FWL
Footage at surface: Distance: <u>2323</u> feet Direction: <u>FNL</u> Distance: <u>1890</u> feet Direction: <u>FWL</u>	
As Drilled Latitude: <u>40.810685</u> As Drilled Longitude: <u>-103.796573</u>	
GPS Data: GPS Quality Value: <u>2.1</u> Type of GPS Quality Value: <u>PDOP</u> Date of Measurement: <u>04/23/2014</u>	
GPS Instrument Operator's Name: <u>Michael Brown</u>	FNL/FSL FEL/FWL
** If directional footage at Top of Prod. Zone Dist: <u>2427</u> feet Direction: <u>FNL</u> Dist: <u>1422</u> feet Direction: <u>FWL</u>	
Sec: <u>30</u> Twp: <u>10N</u> Rng: <u>57W</u>	FNL/FSL FEL/FWL
** If directional footage at Bottom Hole Dist: <u>46</u> feet Direction: <u>FNL</u> Dist: <u>1495</u> feet Direction: <u>FWL</u>	
Sec: <u>19</u> Twp: <u>10N</u> Rng: <u>57W</u>	
Field Name: <u>WILDCAT</u> Field Number: <u>99999</u>	
Federal, Indian or State Lease Number: _____	

Spud Date: (when the 1st bit hit the dirt) 10/13/2014 Date TD: 10/22/2014 Date Casing Set or D&A: 10/28/2014

Rig Release Date: 11/10/2014 Per Rule 308A.b.

Well Classification:

Dry Oil Gas/Coalbed Disposal Stratigraphic Enhanced Recovery Storage Observation

Total Depth MD 13777 TVD** 5634 Plug Back Total Depth MD 13148 TVD** 5634

Elevations GR 4780 KB 4797 Digital Copies of ALL Logs must be Attached per Rule 308A

List Electric Logs Run:

MWD/LWD, MUD LOG, CBL, TRIPLE COMBO, CAL, DEN, IND, GR. (NEU run on API 123-38743)

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+1/16		84	0	97	121	0	97	VISU
SURF	14+3/4	10+3/4	40.5	0	1,580	738	0	1,580	VISU
1ST	9+7/8	7+5/8	29.7	0	6,065	861	4,774	6,065	CBL
1ST LINER	6+3/4	4+1/2	11.6	0	13,195	846	4,200	13,195	CALC
OPEN HOLE	6+3/4			0	13,195			13,777	

STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: 10/28/2014

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

Details of work:

The process of running Fiber Optics (FO) involved a prolonged casing installation process having to do with securing the FO on the outside of the casing. With the hole open for an extended time (a few days), the drilling rig was unable to get casing to bottom (possible debris in the hole obstructing progress).

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	
PIERRE	1,435		NO	NO	
HYGIENE	3,182		NO	NO	
SUSSEX	3,822		NO	NO	
SHARON SPRINGS	5,527		NO	NO	
NIOBRARA	5,530		NO	NO	

Operator Comments:

Well drilled 54' into 100' setback. Float Collar is a 13148'. Form 5A will be submitted documenting that the bottom 629' of wellbore will not produce.

NEU log run on Horsetail 30F-1948 API 123-38743

Unable to clarify why we have an CBL.las to surface, but lack a pdf file to match. Corrected data from logging company is unavailable due to multiple mergers.

GPS taken off of conductor prior to surface spud

TZP updated to actual based on top perf of 6089'

BHL provided by survey company

Corrected PBTD-MD TVD

Field name not changed per Eden's request

Corrected liner cement bottom to TD per directional survey

Added Open hole entry for difference between Liner bottom and TD to Casing Tab

Added explanation for difference between Liner bottom and TD to Stage/Top out/Remedial Cement tab

Changed drilling tab KB/GR according to MWD Log

Added Sussex formation top

TOC per engineer interpretation of CBL

Corrected well logs names to their standard industry abbreviations

Added Eng'r calculated sacks of cement for conductor

Corrected MWD TVD log header to include API, location and KB/GL

Attached .las format of CBL from surface to KOP

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

Signed: _____

Print Name: Bethany Kerley

Title: Engineering Tech III

Date: _____

Email: bethany.kerley@whiting.com

Attachment Check List

Att Doc Num	Document Name	attached ?	
Attachment Checklist			
402482127	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
402482044	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"/>
Other Attachments			
402472062	PDF-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402472069	PDF-CALIPER	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402472073	PDF-DENSITY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402472076	PDF-INDUCTION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402472079	PDF-GAMMA RAY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402472089	LAS-MWD/LWD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402472108	DIRECTIONAL DATA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402474602	LAS-CBL 1ST RUN	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402481979	PDF-MUD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402482032	PDF-CBL 1ST RUN	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402483225	PDF-MWD/LWD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402483226	LAS-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402483227	PDF-MWD/LWD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)

