

**FORM
5**Rev
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:

400688988

Date Received:

12/15/2014

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: 96155 Contact Name: Elvera Berryman
 Name of Operator: WHITING OIL & GAS CORPORATION Phone: (303) 390-4221
 Address: 1700 BROADWAY STE 2300 Fax: (303) 390-1598
 City: DENVER State: CO Zip: 80290

API Number 05-123-38745-00 County: WELD
 Well Name: Horsetail Well Number: 30F-1946
 Location: QtrQtr: SENW Section: 30 Township: 10N Range: 57W Meridian: 6
 Footage at surface: Distance: 2323 feet Direction: FNL Distance: 2010 feet Direction: FWL
 As Drilled Latitude: 40.810686 As Drilled Longitude: -103.796141

GPS Data:

Date of Measurement: 04/23/2014 PDOP Reading: 2.2 GPS Instrument Operator's Name: Michael Brown

** If directional footage at Top of Prod. Zone Dist.: 2388 feet Direction: FNL Dist.: 2079 feet. Direction: FWL
 Sec: 30 Twp: 10N Rng: 57W

** If directional footage at Bottom Hole Dist.: 51 feet Direction: FNL Dist.: 2130 feet. Direction: FWL
 Sec: 19 Twp: 10N Rng: 57W

Field Name: DJ HORIZONTAL NIOBRARA Field Number: 16950

Federal, Indian or State Lease Number: _____

Spud Date: (when the 1st bit hit the dirt) 08/28/2014 Date TD: 09/04/2014 Date Casing Set or D&A: 09/07/2014
 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 13718 TVD** 5643 Plug Back Total Depth MD 13668 TVD** 5642Elevations GR 4783 KB 4800 **Digital Copies of ALL Logs must be Attached per Rule 308A**

List Electric Logs Run:

LWD, MuD, CBL, GAMMA, TRIPLE COMBO, CALIPER, DENSITY, INDUCTION**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	84	0	97		0	97	VISU
SURF	13+1/2	9+5/8	36	0	1,602	465	0	1,602	VISU
1ST	8+3/4	7	29	0	6,077	794	0	6,077	CBL
1ST LINER	6+1/8	4+1/2	11.60	5003	13,714	564	5,003	13,714	CALC

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	
PIERRE	1,435		NO	NO	
HYGIENE	3,182		NO	NO	
SHARON SPRINGS	5,529		NO	NO	
NIOBRARA	5,531		NO	NO	

Operator Comments

Well drilled 49' passed 100' setback. Form 5A will be submitted documenting that the bottom 50' of wellbore will not produce. Landing Collar is a 13668. Cement fills the hole from 13668 to TD. GPS data taken on preset conductors. Note Open Hole Logging Exception (Form 4 Doc. Number# 400641400) for the HORSETAIL 30F pad wells approved on 7/21/2014. The cased hole neutron and gamma ray log run on the Horsetail 30F-1948.

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

Signed: _____ Print Name: Elvera Berryman

Title: Engineer Tech Date: 12/15/2014 Email: elvera.berryman@whiting.com

Attachment Check List

Att Doc Num	Document Name	attached ?	
<u>Attachment Checklist</u>			
400690316	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400690317	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400690318	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
400705906	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>			
400688988	FORM 5 SUBMITTED	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400705910	DIRECTIONAL DATA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400709831	LAS-GAMMA RAY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400709832	LAS-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400709833	LAS-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400709834	PDF-CALIPER	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400709841	PDF-DENSITY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400709855	LAS-MEASUREMENT/LOGGING WHILE DRILLING	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400709856	PDF-INDUCTION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400709868	PDF-MUD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400710168	PDF-GAMMA RAY	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400710171	PDF-TRIPLE COMBINATION	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400710178	PDF-MEASUREMENT/LOGGING WHILE DRILLING	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
400752356	PDF-CBL 1ST RUN	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineering Tech	Well drilled deeper than APD	06/06/2018
Permit	-BHL and TPZ confirmed -Corrected Rig release date to latest date on this pad -Corrected PBTVD per the cement job summary 13688, corrected PBTVD per directional data 5642 -Requested sundries for MWD pdf. horizontal interval and mud log entire interval	05/24/2018

Total: 2 comment(s)