

**FORM
5**Rev
11/20**State of Colorado****Oil and Gas Conservation Commission**

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Document Number:

402563098

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: 96155

Contact Name: Pauleen Tobin

Name of Operator: WHITING OIL & GAS CORPORATION

Phone: (303) 390-4267

Address: 1700 LINCOLN STREET SUITE 4700

Fax:

City: DENVER State: CO Zip: 80290

Email: pollyt@whiting.com

API Number 05-123-38742-00

County: WELD

Well Name: Horsetail

Well Number: 30F-1941

Location: QtrQtr: SENW Section: 30 Township: 10N Range: 57W Meridian: 6
FNL/FSL FEL/FWL

Footage at surface: Distance: 2324 feet Direction: FNL Distance: 1860 feet Direction: FWL

As Drilled Latitude: 40.810684 As Drilled Longitude: -103.796676

GPS Data: GPS Quality Value: 2.1 Type of GPS Quality Value: PDOP Date of Measurement: 04/23/2014

** If directional footage at Top of Prod. Zone Dist: 2482 feet Direction: FNL Dist: 1245 feet Direction: FWL
Sec: 30 Twp: 10N Rng: 57W
FNL/FSL FEL/FWL** If directional footage at Bottom Hole Dist: 46 feet Direction: FNL Dist: 1297 feet Direction: FWL
Sec: 19 Twp: 10N Rng: 57W
FNL/FSL FEL/FWL

Field Name: DJ HORIZONTAL NIOBRARA

Field Number: 16950

Federal, Indian or State Lease Number:

Spud Date: (when the 1st bit hit the dirt) 10/30/2014 Date TD: 11/06/2014 Date Casing Set or D&A: 11/09/2014

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 13938 TVD** 5766 Plug Back Total Depth MD 13881 TVD** 5765

Elevations GR 4780 KB 4797 Digital Copies of ALL Logs must be Attached ☒

List All Logs Run:

MWD/LWD, MUD log, CAL, DEN, IND, GR, CBL, Triple Combo (NEU run in API 123-38743-00)

CASING, LINER AND CEMENT

| <u>Casing Type</u> | <u>Size of Hole</u> | <u>Size of Casing</u> | <u>Grade</u> | <u>Wt/Ft</u> | <u>Csg/Liner Top</u> | <u>Setting Depth</u> | <u>Sacks Cmt</u> | <u>Cmt Btm</u> | <u>Cmt Top</u> | <u>Status</u> |
|--------------------|---------------------|-----------------------|--------------|--------------|----------------------|----------------------|------------------|----------------|----------------|---------------|
| CONDUCTOR | 20 | 16 | K-55 | 84 | 0 | 97 | 55 | 97 | 0 | VISU |
| SURF | 13+1/2 | 9+5/8 | J-55 | 36 | 0 | 1595 | 456 | 1595 | 0 | VISU |
| 1ST | 8+3/4 | 7 | P-110 | 29 | 0 | 6202 | 795 | 6202 | 80 | CBL |
| 1ST LINER | 6 | 4+1/2 | P-110 | 11.60 | 5199 | 13928 | 545 | 13928 | 5211 | CALC |

Bradenhead Pressure Action Threshold 478 psig

This threshold is calculated per Rule 308A.b.(2)G. If this well is located in a bradenhead test area (see Rule 207.b) per an Order of the Commission, it may be subject to a different threshold.

Does the casing centralization comply with Rule 317.g? Yes

If "NO", provide details below.

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 | 5,525 | | NO | NO | |
| NIOBRARA | 5,529 | | NO | NO | |

Operator Comments:

Well drilled 54' into 100' setback. Bottom perf at 13693', well completed 191' within setbacks.

Open Hole Logging Exception allows for a cased hole neutron and gamma ray log to be run on the HORSETAIL 30F pad. NEU run on Horsetail 30F-1948, API 123-38743-00.

GPS taken off of preset conductor
TPZ location is based on of shallowest packer at 6275'
BHL provided by survey company
Corrected PBTD MD/TVD to top of float collar
Corrected KB/GR according to surveys
Added casing grade to all strings
Corrected TOC per engineer interpretation of CBL
Corrected location on Surface, 1 string and liner cement reports. Sks previously requested and added
Added Eng'r calculated sacks of cement for conductor
Attached CBL.pdf and .las logs from surface to KOP with corrected KB/GR on log header
Uploaded revised log to TD, Added location to log header
Uploaded Directional Data with corrected location
Per Eden, left field name for COGCC to correct
Corrected well logs names to their standard industry abbreviations
Added API to Log Listed box on drilling tab
Correct location on MUD log header
RR Date corrected to last well on pad
Missing MWD.las to TD. Requested from vendor, to be submitted via form 4 when received

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

Signed: _____

Print Name: Pauleen Tobin

Title: Regulatory Compliance

Date: _____

Email: pollyt@whiting.com

Attachment Check List

| Att Doc Num | Document Name | attached ? | | | |
|-----------------------------|------------------------|------------|-------------------------------------|----|-------------------------------------|
| <u>Attachment Checklist</u> | | | | | |
| 402563211 | CMT Summary * | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| | Core Analysis | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |
| 402563207 | 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> | | | | | |
| 402563194 | PDF-MWD/LWD | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402563196 | PDF-MWD/LWD | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402563206 | LAS-TRIPLE COMBINATION | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402563212 | DIRECTIONAL DATA | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402568635 | PDF-CALIPER | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402568636 | PDF-DENSITY | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402568639 | PDF-INDUCTION | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402568662 | PDF-TRIPLE COMBINATION | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402568664 | PDF-GAMMA RAY | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402569732 | PDF-MUD | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402570365 | LAS-CBL 3RD RUN | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| 402570367 | PDF-CBL 3RD RUN | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

General Comments

User Group

Comment

Comment Date

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Stamp Upon
Approval

Total: 0 comment(s)

