

FORM
5Rev
02/20State 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:

402325863

Date Received:

08/12/2020

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: 10110

Contact Name: Miracle Pfister

Name of Operator: GREAT WESTERN OPERATING COMPANY LLC

Phone: (720) 595-2250

Address: 1001 17TH STREET #2000

Fax:

City: DENVER State: CO Zip: 80202

Email: regulatorypermitting@gwp.com

API Number 05-123-05454-00

County: WELD

Well Name: COLORADO STATE

Well Number: 2

Location: QtrQtr: SESE Section: 36 Township: 8N Range: 67W Meridian: 6
FNL/FSL FEL/FWL

Footage at surface: Distance: 660 feet Direction: FSL Distance: 900 feet Direction: FEL

As Drilled Latitude: As Drilled Longitude:

GPS Data: GPS Quality Value: Type of GPS Quality Value: PDOP Date of Measurement:

GPS Instrument Operator's Name: FNL/FSL FEL/FWL

** If directional footage at Top of Prod. Zone Dist: feet Direction: Dist: feet Direction: Sec: Twp: Rng:

** If directional footage at Bottom Hole Dist: feet Direction: Dist: feet Direction: Sec: Twp: Rng:

Field Name: BLACK HOLLOW Field Number: 6835

Federal, Indian or State Lease Number: 47

Spud Date: (when the 1st bit hit the dirt) 04/02/1955 Date TD: Date Casing Set or D&A:

Rig Release Date: 04/29/1955 Per Rule 308A.b.

Well Classification:

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

Total Depth MD 9027 TVD** Plug Back Total Depth MD TVD**

Elevations GR 5129 KB 5139 Digital Copies of ALL Logs must be Attached per Rule 308A ☒

List Electric Logs Run:

CBL

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 |
|-------------|--------------|----------------|----------|---------------|---------------|-----------|---------|---------|--------|
| SURF | | 9+5/8 | 36 | 0 | 324 | 200 | 0 | 324 | VISU |
| 1ST | 7+7/8 | 5+1/2 | 15.5, 17 | 0 | 9,022 | 325 | 7,250 | 9,022 | CALC |

STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: 06/04/2019

| Method used | String | Cementing tool setting/perf depth | Cement volume | Cement top | Cement bottom |
|-------------|--------|-----------------------------------|---------------|------------|---------------|
| SQUEEZE | 1ST | 6,750 | 100 | 6,460 | 6,770 |
| SQUEEZE | 1ST | 1,000 | 310 | 0 | 1,000 |
| SQUEEZE | 1ST | | 100 | 3,000 | 3,660 |

Details of work:

This well was mitigated to isolate the Niobrara and aquifer.

Procedure:

MIRU

Blow down and kill well

NDWH/NUBOP

POOH w/ tbg

Set RBP at 8758'

Ran CBL, Had issue with CBL above 1500'

Re-ran CBL from 1500' to surface

Perforate at 6750' and 6444'

Set CICR @ 6470'

TIH and sting into CICR Squeeze 100sx through CICR

Perforate at 1000' and Establish circulation to surface

Set CICR at 900'

Sting into CICR and pump 310sx from 1000' to surface

Drill out Cement and CICR

Run CBL from 8200' to surface

Set RBP at 6511' for offset mitigation

Pressure test to 500 psi

Retrieved RBP from 6511' and 8758'

Land Tbg at 8504'

NDBOP/NUWH

RDMO

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 | |
| NIOBRARA | 6,811 | | NO | NO | |
| CARLILE | 7,121 | | NO | NO | |
| LYONS | 8,951 | | NO | NO | |

Operator Comments:

CBL incorrectly reports depth driller.

New String Type is reporting a squeeze job from 1993 that was done by a different operator. Information on this squeeze job is estimated based on available data - the COGCC Database, see Sundry (Doc # 268941) for more details.

COGCC: Moved to Remedial cement tab.

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

Signed: _____

Print Name: Jack Desmond

Title: Regulatory Analyst

Date: 8/12/2020

Email: jdesmond@gwp.com

Attachment Check List

| Att Doc Num | Document Name | attached ? |
|-----------------------------|-----------------------|---------------------------------------------------------------------|
| <u>Attachment Checklist</u> | | |
| 402325983 | CMT Summary * | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| | Core Analysis | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| | Directional Survey ** | Yes <input type="checkbox"/> No <input checked="" 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> | | |
| 402325863 | FORM 5 SUBMITTED | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 402325977 | PDF-CEMENT BOND | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 402325979 | PDF-CEMENT BOND | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 402337694 | PDF-CEMENT BOND | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 402349669 | WELLBORE DIAGRAM | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 402349712 | WIRELINE JOB SUMMARY | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Permit | •Permitting review complete and ready to pass. | 08/26/2020 |
| Permit | Returned to draft •MWD/LWD listed on list of logs run. But there does not appear to be one in the well file or attached. Is this a typo? | 07/29/2020 |
| Engineer | •Unreported historical 100 sx squeeze to repair HIC found in records(Doc #288941, 3/22/1993) and being reported here as remedial cement. 3000-3660' cemented interval verified with CBL(Doc #402325979) attached to this form, •Engineering review complete - Passed | 07/27/2020 |

Total: 3 comment(s)

