

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:

402370734

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: 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 05-123-38695-00 County: WELD
Well Name: Spaur Brothers EH Well Number: 31-219HN
Location: QtrQtr: NESE Section: 31 Township: 7N Range: 63W Meridian: 6
Footage at surface: Distance: 2496 feet Direction: FSL Distance: 221 feet Direction: FEL
As Drilled Latitude: 40.529689 As Drilled Longitude: -104.471111
GPS Data: GPS Quality Value: 1.9 Type of GPS Quality Value: PDOP Date of Measurement: 07/27/2017
GPS Instrument Operator's Name: ROBERT FISHER
\*\* If directional footage at Top of Prod. Zone Dist: 2647 feet Direction: FSL Dist: 622 feet Direction: FEL
\*\* If directional footage at Bottom Hole Dist: 2615 feet Direction: FSL Dist: 501 feet Direction: FWL
Field Name: WATTENBERG Field Number: 90750
Federal, Indian or State Lease Number:

Spud Date: (when the 1st bit hit the dirt) 02/19/2014 Date TD: 03/16/2014 Date Casing Set or D&A: 03/19/2014
Rig Release Date: 04/06/2014 Per Rule 308A.b.

Well Classification:
 Dry  Oil  Gas/Coalbed  Disposal  Stratigraphic  Enhanced Recovery  Storage  Observation

Total Depth MD 11255 TVD\*\* 6788 Plug Back Total Depth MD 11205 TVD\*\* 6788
Elevations GR 4762 KB 4778 Digital Copies of ALL Logs must be Attached per Rule 308A

List Electric Logs Run:
MWD/LWD, Mud Log, CBL (DIL in 123-29746)

Empty box for additional information or comments.

### 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	24	16	65	0	80	152	0	80	VISU
SURF	13+1/2	9+5/8	36	0	1,047	460	0	1,047	VISU
1ST	8+3/4	7	26	0	7,095	615	246	7,095	CBL
1ST LINER	6+1/8	4+1/2	11.6	6083	11,252	320	6,083	11,252	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	
PARKMAN	3,600	3,894	NO	NO	
SUSSEX	4,363	4,543	NO	NO	
SHANNON	5,028		NO	NO	
SHARON SPRINGS	6,582		NO	NO	
NIOBRARA	6,707		NO	NO	

Operator Comments:

No open hole logs were run on this well. APD was approved in 2013 with no logging BMPs or exceptions. This log was run in the offset well HEINZE #31-43 (API # 123-29746) in the form of a Dual Induction Guard Log (Doc #s 2546398).

COA on the Form 2 states, "Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log." The Niobrara top is 6707 ft MD. Bottom of 7" casing is 7095. This requires a CBL to cover 6507' – 7095' to satisfy COA and 317.i. The CBL was run to a depth of 6122 ft MD, which is short of the depth required by the COA. This shortage was an oversight on Great Western's part and we now are ensuring CBLs are run to the required depth. Even though Great Western was short, we still believe we have adequate isolation at 200 ft above the Niobrara because of the very good cement bond shown on the CBL (dated 4/15/2014). No spacers of any kind were pumped in the middle of the cement job and there was no over displacement so there is no reason to believe the same very good bond signature is not 200 ft above the top of Niobrara. See attached cement job summary as evidence no spacers occurred during the cement slurry.

Surface Casing Cement Job Summary incorrectly reports job depth.  
First String Cement Job Summary incorrectly reports job depth.  
Production Liner Cement Job Summary incorrectly reports 7" casing and 4.5" liner depths.  
MWD/LWD incorrectly reports hole and casing data.  
CBL incorrectly reports lat/long, elevation, depth driller, open hole size, and casing record.  
Mud log incorrectly reports SHL footage.

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: \_\_\_\_\_

Email: jdesmond@gwp.com

### Attachment Check List

Att Doc Num	Document Name	attached ?	
<b>Attachment Checklist</b>			
402450862	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
402478364	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"/>
<b>Other Attachments</b>			
402474688	PDF-MWD/LWD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402474689	LAS-MWD/LWD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402474690	PDF-MUD	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402478366	DIRECTIONAL DATA	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402478422	PDF-CEMENT BOND	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
402478423	LAS-CEMENT BOND	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

