

FORM  
5Rev  
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



DE ET OE ES

Document Number:

400926872

Date Received:

## DRILLING COMPLETION REPORT

This form is to be submitted within 30 days of the setting of production casing, the plugging of a dry hole, the deepening or sidetracking of a well, or any time the wellbore configuration is changed. If the well is deepened or sidetracked a new Form 5 is required. If an attempt has been made to complete/produce a well, then the operator shall submit Form 5A (Completed Interval Report.) If the well has been plugged, a form 6 (Well Abandonment Report) is required.

Completion Type ☒ Final completion ☐ Preliminary completion

OGCC Operator Number: 10373

Contact Name: Paul Gottlob

Name of Operator: NGL WATER SOLUTIONS DJ LLC

Phone: (720) 420-5747

Address: 3773 CHERRY CRK NORTH DR #1000

Fax:

City: DENVER

State: CO

Zip: 80209

API Number 05-123-40973-00

County: WELD

Well Name: NGL

Well Number: C5A

Location: QtrQtr: NESW Section: 29 Township: 2N Range: 64W Meridian: 6

Footage at surface: Distance: 1974 feet Direction: FSL Distance: 2431 feet Direction: FWL

As Drilled Latitude: 40.107720 As Drilled Longitude: -104.575640

## GPS Data:

Date of Measurement: 10/20/2015 PDOP Reading: 1.5 GPS Instrument Operator's Name: Monty Wallace

\*\* If directional footage at Top of Prod. Zone Dist.: 2277 feet. Direction: FSL Dist.: 40 feet. Direction: FEL

Sec: 29 Twp: 2N Rng: 64W

\*\* If directional footage at Bottom Hole Dist.: 2277 feet. Direction: FSL Dist.: 40 feet. Direction: FEL

Sec: 29 Twp: 2N Rng: 64W

Field Name: WATTENBERG

Field Number: 90750

Federal, Indian or State Lease Number:

Spud Date: (when the 1st bit hit the dirt) 10/01/2015 Date TD: 10/15/2015 Date Casing Set or D&amp;A: 10/17/2015

Rig Release Date: 10/17/2015 Per Rule 308A.b.

## Well Classification:

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

Total Depth MD 11130 TVD\*\* 10558 Plug Back Total Depth MD 11122 TVD\*\* 10550

Elevations GR 4937 KB 4953

Digital Copies of ALL Logs must be Attached per Rule 308A ☐

## List Electric Logs Run:

Triple Combo (x2) .pdf &amp; .las, Mud &amp; CBL .pdf

## 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	12+1/4	9+5/8	36	0	1,032	260	0	1,032	VISU
1ST	8+3/4	7	26	0	9,383	155	7,924	9,383	CALC
1ST LINER	6+1/8	4+1/2	11.6	9204	11,130				

## STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date: 10/12/2015

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom
DV TOOL	1ST	7,924	755	420	7,924

Details of work:

### Stage 2

From Depth (ft): 0 To Depth (ft): 6800

Acids/Blends/Fluids : Lead 1: 645 Sacks of 1:1:0 Poz:Type III, Density = 12 lb/gal, Volume Pumped = 224 (bbl) Water Temperature (°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 75 + 0.5 % of CFL-4 (Preblend), + 0.2 % of ASM-3 (Preblend), + 2 % of FWC-2 (Preblend)

### Stage 3

From Depth (ft): 6800 To Depth (ft): 7924

Acids/Blends/Fluids : Tail: 110 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 35 (bbl) Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 75 + 20 % of Silica Flour (Preblend), + 8 % of SilFume (Preblend), + 0.3 % of CFR (Preblend), + 0.8 % of CFL-4 (Preblend), + 1.5 % of Gel (Preblend), + 0.25 lb/sack of Polyflake (Preblend), + 0.1 % of LTR (Preblend)

## 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	7,348	7,720	NO	NO	
FORT HAYS	7,720	7,774	NO	NO	
CODELL	7,774	7,795	NO	NO	
CARLILE	7,795	7,950	NO	NO	
X BENTONITE	7,950	8,035	NO	NO	
D SAND	8,035	8,136	NO	NO	
J SAND	8,136	8,260	NO	NO	
SKULL CREEK	8,260	8,352	NO	NO	
DAKOTA	8,352	8,512	NO	NO	
MORRISON	8,512	8,760	NO	NO	
ENTRADA	8,760	8,812	NO	NO	
LYKINS	8,812	9,080	NO	NO	
PERMIAN	9,080	9,236	NO	NO	
MINNEKAHTA	9,236	9,334	NO	NO	
BLAINE	9,334	9,383	NO	NO	
DENVER BASIN COMBINED DISPOSAL ZONE	9,383	11,130	NO	NO	
LYONS	9,383	9,554	NO	NO	
LOWER SATANKA	9,554	9,835	NO	NO	
WOLFCAMP	9,835	9,900	NO	NO	
AMAZON	9,900	9,978	NO	NO	
COUNCIL GROVE	9,978	10,134	NO	NO	
ADMIRE	10,134	10,192	NO	NO	
VIRGIL	10,192	10,431	NO	NO	
MISSOURI	10,431	10,570	NO	NO	
FOUNTAIN	10,570	10,652	NO	NO	
DES MOINES	10,652	11,076	NO	NO	
ATOKA	11,076	11,130	NO	NO	

Comment:

Directional Survey stopped at 9385' MD, 8812.5' TVD after wellbore was back to Vertical. Interpolated the TVD off of MD and the difference between both as shown on Directional Survey when stopped.

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

Signed: \_\_\_\_\_

Print Name: Paul Gottlob

Title: Regulatory & Engin. Tech.

Date: \_\_\_\_\_

Email: paul.gottlob@iptenergyservices.com

### Attachment Check List

Att Doc Num	Document Name	attached ?			
<u>Attachment Checklist</u>					
400933022	CMT Summary *	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	Core Analysis	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
400927099	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"/>
400926887	Other	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<u>Other Attachments</u>					
400927011	PDF-TRIPLE COMBINATION	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400927015	PDF-TRIPLE COMBINATION	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400927019	LAS-TRIPLE COMBINATION	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400927023	LAS-TRIPLE COMBINATION	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400927093	DIRECTIONAL DATA	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400933118	PDF-MUD	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400937265	PDF-CEMENT BOND	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)