

FORM

6

Rev
12/05

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Replug By Other Operator

Document Number:

400630803

Date Received:

WELL ABANDONMENT REPORT

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required.

Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set.

A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 96155

Contact Name: James Kopp

Name of Operator: WHITING OIL AND GAS CORPORATION

Phone: (303) 357-1410

Address: 1700 BROADWAY STE 2300

Fax: (303) 390-4292

City: DENVER State: CO Zip: 80290

Email: james.kopp@whiting.com

For "Intent" 24 hour notice required,

Name: Rains, Bill

Tel: (970) 590-6480

COGCC contact:

Email: bill.rains@state.co.us

API Number 05-123-18702-00

Well Name: TERRACE STATE

Well Number: 1

Location: QtrQtr: NWSW Section: 16 Township: 10N Range: 58W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 88/5175-s

Field Name: TERRACE

Field Number: 81500

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.836600

Longitude: -103.877672

GPS Data:

Date of Measurement: 02/07/2009

PDOP Reading: 2.5

GPS Instrument Operator's Name: KEVIN MCCORMICK

Reason for Abandonment: ☐ Dry☐ Production for Sub-economic☐ Mechanical Problems☒ Other Re-enter to Re-plugCasing to be pulled: ☐ Yes☒ No

Estimated Depth: 6805

Fish in Hole: ☐ Yes☐ No

If yes, explain details below

Wellbore has Uncemented Casing leaks: ☐ Yes☐ No

If yes, explain details below

Details: Attached is an approval letter to replug the Terrace State 1 from the Colorado State Land Board.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
D SAND	6621	6624	11/21/2008	B PLUG CEMENT TOP	6600
J SAND	6712	6722	11/20/1995	B PLUG CEMENT TOP	6686

Total: 2 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	509	335	509	0	
1ST	7+7/8	4+1/2	11.6	6,805	150	6,805	6,094	

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ sacks cmt on top. CIBP #2: Depth _____ with _____ sacks cmt on top.
CIBP #3: Depth _____ with _____ sacks cmt on top. CIBP #4: Depth _____ with _____ sacks cmt on top.
CIBP #5: Depth _____ with _____ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 100 sks cmt from 5650 ft. to 5300 ft. Plug Type: OPEN HOLE Plug Tagged: ☒

Set 60 sks cmt from 1800 ft. to 1600 ft. Plug Type: OPEN HOLE Plug Tagged: ☒

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 180 sacks half in. half out surface casing from 575 ft. to 0 ft. Plug Tagged: ☐

Set _____ sacks at surface

Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker: ☐ Yes ☐ No

Set _____ sacks in rat hole Set _____ sacks in mouse hole

Additional Plugging Information for Subsequent Report Only

Casing Recovered: _____ ft. of _____ inch casing Plugging Date: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1103 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Re-Plug and Abandon Procedure:

1. Notify COGCC at least 48-hours prior to the start of operations using a Form 42. Verify with James Kopp that this is completed prior to moving the rig in.
2. Take GPS coordinates of well location. Send information to: James.Kopp@whiting.James Kopp com (303) 357-1410
3. MIRU Rig. Mob-in pump, swivel, tank, and 2-7/8" PH-6 workstring. NU 7-1/16" 5K BOP w/ 2-7/8" pipe rams on top and blind rams on bottom, pressure test high and low. PU full gauge 7-7/8" bit & TIH on 2-7/8" tubing.
4. Drill out existing cement plugs down to approximately 1,800 ftKB.
5. Drill/clean out to approximately 5,650 ftKB.
6. Once depth has been reached, TOO H with 2-7/8" workstring standing back.
7. MIRU gyro equipment. PU tools and RIH while logging down to 5,650 ftKB. POOH while logging, LD tools.
8. MIRU cement crew. Pressure test surface lines to 2,000psi. Mix and pump 100 sks, API Class G, 1.15 cu-ft/sk, 15.8 ppg cement, balancing plug at 5,650 ftKB. TOO H with 2-7/8" workstring standing back. Let cement cure overnight.
9. TIH with 2-7/8" workstring. Tag TOC with EOT, record depth.
10. MIRU cement crew. Pressure test surface lines to 2,000psi. Mix and pump 60 sks, API Class G, 1.15 cu-ft/sk, 15.8 ppg cement, balancing plug at 1,800 ftKB. TOO H with 2-7/8" workstring standing back. Let cement cure overnight.
11. TIH with 2-7/8" workstring. Tag TOC with EOT, record depth.
12. MIRU cement crew. Pressure test surface lines to 2,000psi. Mix and pump 180 sks, API Class G, 1.15 cu-ft/sk, 15.8 ppg cement, balancing plug from 575 ftKB to surface. TOO H with 2-7/8" workstring, LD on float.
13. Cut off WH to 5' below GL and fill hole.
14. Weld on cap with plugging information plate. Backfill cellar.
15. Reclaim disturbed surface.

Attached is an approval letter to replug the Terrace State 1 from the Colorado State Land Board.

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

Signed: _____

Print Name: Kristi McRedmond

Title: Regulatory Technician Date: Email: regulatory@petro-fs.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved:

Date:

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date:

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400630872	WELLBORE DIAGRAM
400630873	PROPOSED PLUGGING PROCEDURE
400630874	LOCATION PHOTO
400630875	OTHER
400630877	OTHER

Total Attach: 5 Files

General Comments

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

Total: 0 comment(s)