


<b>FORM</b> <b>6</b>  Rev 12/05	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> <small>1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109</small>		<table border="1" style="width:100%; border-collapse: collapse;"><tr><td style="width:25%;">DE</td><td style="width:25%;">ET</td><td style="width:25%;">OE</td><td style="width:25%;">ES</td></tr></table> <b>Replug By Other Operator</b>  Document Number:  400835434  Date Received:  05/05/2015	DE	ET	OE	ES																
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	<b>WELL ABANDONMENT REPORT</b>																						
<div style="font-size: small;"><p>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.</p><p>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.</p></div>																							
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<input checked="" type="checkbox"/> Notice of Intent to Abandon <input type="checkbox"/> Subsequent Report of Abandonment																							
<i>Only Complete the Following Background Information for Intent to Abandon</i>																							
Latitude: 40.720205 Longitude: -103.876066																							
GPS Data:																							
Date of Measurement: PDOP Reading: GPS Instrument Operator's Name:																							
Reason for Abandonment: <input type="checkbox"/> Dry <input type="checkbox"/> Production for Sub-economic <input type="checkbox"/> Mechanical Problems																							
<input checked="" type="checkbox"/> Other																							
Casing to be pulled: <input type="checkbox"/> Yes <input type="checkbox"/> No    Estimated Depth:																							
Fish in Hole: <input type="checkbox"/> Yes <input type="checkbox"/> No    If yes, explain details below																							
Wellbore has Uncemented Casing leaks: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    If yes, explain details below																							
Details:																							
<b>Current and Previously Abandoned Zones</b>																							
<table style="width:100%;"><tr><th>Formation</th><th>Perf. Top</th><th>Perf. Btm</th><th>Abandoned Date</th><th>Method of Isolation</th><th>Plug Depth</th></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>				Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth														
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Total: 0 zone(s)																							
<b>Casing History</b>																							
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## 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	75	sks cmt from	3000	ft. to	2800	ft.	Plug Type:	OPEN HOLE	Plug Tagged:	<input type="checkbox"/>
Set	110	sks cmt from	1600	ft. to	1300	ft.	Plug Type:	OPEN HOLE	Plug Tagged:	<input type="checkbox"/>
Set	280	sks cmt from	750	ft. to	0	ft.	Plug Type:	OPEN HOLE	Plug Tagged:	<input type="checkbox"/>
Set		sks cmt from		ft. to		ft.	Plug Type:		Plug Tagged:	<input type="checkbox"/>
Set		sks cmt from		ft. to		ft.	Plug Type:		Plug Tagged:	<input type="checkbox"/>

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 \_\_\_\_\_ sacks half in. half out surface casing from \_\_\_\_\_ ft. to \_\_\_\_\_ 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: 05/19/2015

\*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:

**PROCEDURE:**

- 1) Survey and locate abandoned well, mark with stake
- 2) Excavate to expose top of surface casing
- 3) Weld 2" collar to top of 8-5/8" surface casing cap. Make up to collar, pneumatic drill with non-sparking bit. Drill out cap venting possible trapped gas.
- 4) Once verified that no gas exists beneath top of surface casing plate, cut off surface casing below plate with torch, dress up smooth.
- 5) Butt weld 8-5/8" casing to dressed cut, bringing threaded end of casing to ground level.
- 6) Make up to 8-5/8" casing, one 8-5/8" collar and 8-5/8" starter well head
- 7) NU flange adaptor and 5k BOP, test BOP.
- 8) NU and RIH with 6 7/8" cone bit, PU 2 7/8" drill collar, 2 7/8" 8.7# tubing, and TIW valve
- 9) Drill out first cement plug inside surface casing, roll hole clean. Verify top of next cement plug inside of surface casing by tagging. Estimated TOC at 270'.
- 10) If unable to verify isolation of surface casing with tag of cement plug, set RBP inside surface casing
- 11) Once isolation of surface casing is established, either with tagging of surface plug or setting of RBP, pressure test surface casing to 200psi
- 12) After pressure test of surface casing, retrieve RBP or continue drill out of cement plug under surface casing shoe.
- 14) Continue RIH, cleaning out with drilling mud or water to 3000'. If unable to reach this depth contact rig superintendent and wait for further instruction.
- 15) TOOH with cone bit, drill collars, and 2 7/8" tubing.
- 16) PU and RIH with mule shoe and 2 7/8" tubing to 3000'
- 17) RU cement crew and pump 75sk 15.8 ppg Class G "neat" cement to from 3000' to 2800'. 25% excess cement assumed
- 18) POOH to 1600' (deepest water well @ 1170')
- 19) RU cement crew and pump 110sk 15.8 ppg Class G "neat" cement to from 1600' to 1300'. 25% excess cement assumed
- 20) POOH to 750' (170' below base of fresh water aquifer @ 633')
- 21) RU cement crew and pump 280 sxs of 15.8ppg Class G "neat" cement bring cement to surface. 25% excess cement assumed
- 22) POOH with 2 7/8" tubing. Wait 4 hrs, and tag TOC. If cement has fallen, top off back to surface
- 23) Let cement set over night, verify cement has not settled and is still at surface. RDMO
- 24) Excavate around wellhead to 8' below grade, cut off 10 3/4" casing, weld on cap
- 25) Backfill hole and reclaim surface to original conditions

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

Signed: \_\_\_\_\_ Print Name: Eileen Roberts  
Title: Regulatory Analyst I Date: 5/5/2015 Email: eroberts@nobleenergyinc.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: SUTPHIN, DIRK Date: 5/28/2015

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 11/27/2015

<b>COA Type</b>	<b>Description</b>
	1) Provide 48 hour notice of MIRU via electronic Form 42. 2) Submit Form 42(s) - OFFSET MITIGATION COMPLETED, in accordance with DJ Basin Horizontal Offset Policy. 3) Submit Form 6 – Subsequent Report of Abandonment within 30 days of plugging in accordance with Rule 311. 4) Provide well location GPS coordinates on Subsequent Report of Abandonment in accordance with COGCC As-Built Location Policy and Rule 215.
	GPS & latitude/longitude is planned. Operator must submit “as drilled” GPS data on Subsequent Report of Abandonment per GPS data requirements of Rule 215.

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
400835434	FORM 6 INTENT SUBMITTED
400835577	WELLBORE DIAGRAM
400835579	WELLBORE DIAGRAM
400835580	LOCATION PHOTO
400835581	SURFACE AGRMT/SURETY

Total Attach: 5 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Engineer	Changed plug depths: Plug #1 at 3000' (procedure stated cleaning out to 3000') and Plug #2 at 1600' (base of U. Pierre Aquifer 1300'-1500').	5/28/2015 9:59:40 AM

Total: 1 comment(s)