

State of Colorado  
Oil and Gas Conservation Commission

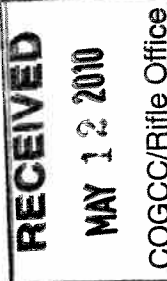
1120 Lincoln Street, Suite 801, Denver Colorado 80203 (303) 894-2100 Fax (303)



ET DE 25

## WELL ABANDONMENT REPORT

Submit original plus one copy. This form is to be submitted as an intent whenever a plugging is planned on a borehole. The approved intent shall be valid for twelve months after the approval date after that period a new intent will be required. After the plugging is complete, this form and one copy shall again be submitted as a subsequent report of the work as actually completed.



<b>COGCC Operator Number:</b>		Contact Name & Telephone	
Name of Operator: EnCana Oil & Gas (USA) Inc.			
Address: 370 17th Street, Suite 1700		No: 720-876-5826	
City: Denver		State: CO Zip: 80202	
Fax: 720-876-6060		Tel:	
<b>API Number</b> 05077081900000			
Well Name: Shire Gulch Federal		Well Number: 5-31	
Location (QtrQtr, Sec, Twp, Rng, Meridian): S4NW Sec 31 T9S - R96W 6th PM			
County: Mesa		Federal, Indian or State Lease Number: C-18818	
Field Name: Shire Gulch		Field Number: 77450	

## Complete the Attachment Checklist

Wellbore Diagram	Over	OGCC
Cement Job Summary	x	
Wireline Job Summary		

## Notice of Intent to Abandon

## Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.251142 Longitude: -108.041592

GPS Data:

Date of Measurement:

PDOP Reading:

Instrument Operator's Name:

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems ☐ Other

Casing to be Pulled: ☐ Yes ☒ No Top of Casing Cement: 2136' (from 8/2/1979 CBL)

Fish in Hole: ☐ Yes ☒ No If yes, explain details below

Wellbore has Uncemented Casing Leaks: ☐ Yes ☒ No If yes, explain details below

Details: This well failed MIT on 06/09/2009. There are leaks in the CSG between 2143' and 2174' (right at top of cement).

## Current and Previously Abandoned Zones

Formation	Perforations - Top	Perforations - Bottom	Date Abandoned	Method of Isolation (None, Squeezed, AP, Cement, etc.)	Plug Depth
Rollins	2782'	2788'	N/A	N/A	N/A
Corcoran	3204'	3210'	N/A	N/A	N/A

## Casing History

String	Size of Hole	Size of Casing	Weight per ft	Setting Depth	Sacks Cement	Cement Bottom	Cement Top
Surface	12.25	8 5/8	24#	211'	250 sx	211'	surface
Production	7 7/8	5 1/2"	15.5#	3625'	225 sx	3625'	2136'

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth	2700'	with	2	scks cmt on top	OPB #2: Depth	with	sacks cmt on top
Set	sks cmt from	ft. to			ft. in		<input checked="" type="checkbox"/> Casing <input type="checkbox"/> Open Hole <input type="checkbox"/> Annulus
Set	sks cmt from	ft. to			ft. in		<input type="checkbox"/> Casing <input type="checkbox"/> Open Hole <input type="checkbox"/> Annulus
Set	sks cmt from	ft. to			ft. in		<input type="checkbox"/> Casing <input type="checkbox"/> Open Hole <input type="checkbox"/> Annulus
Set	sks cmt from	ft. to			ft. in		<input type="checkbox"/> Casing <input type="checkbox"/> Open Hole <input type="checkbox"/> Annulus
Set	sks cmt from	ft. to			ft. in		<input type="checkbox"/> Casing <input type="checkbox"/> Open Hole <input type="checkbox"/> Annulus
Perforate and squeeze at	2143 (CSG leak)	ft. with	50	sacks	Leave at least 100 ft. in casing	(Note: CMT Retainer will be set 100' above CSG leaks)	
Perforate and squeeze at	680	ft. with	50	sacks	Leave at least 100 ft. in casing	(Note: CMT Retainer will be set 100' above perfs)	
Perforate and squeeze at	261	ft. with	90	sacks	Leave at least 100 ft. in casing	(Note: CMT CSG & Annulus from 261' to surface)	
Set	sacks half in, half out surface casing from	ft. to			ft. to		
Set	sacks at surface						
Cut four feet below ground level, weld on plate							
Set	sacks in rat hole	Set			Dry-Hole Marker: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	sacks in mouse hole	

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

## Additional Plugging Information for Subsequent Report Only

Casing Recovered: \_\_\_\_\_ ft. of \_\_\_\_\_ in. casing \_\_\_\_\_ Plugging date: \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used:

\*Attach job summaries.

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

Print Name: DeAnne Spector Email: geane.spector@encana.com

Signed: \_\_\_\_\_ Title: \_\_\_\_\_ Regulatory Analyst Date: 05/10/10

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ EIT II Date: 5/13/2010

CONDITIONS OF APPROVAL: IF ANY:

RECEIVED

MAY 12 2010

COGCC/Rifle Office

**Well Information:**

**Shire Gulch Federal 5-31**

Well: 05-077-08190-0000  
 API#: 3657' MD  
 PBTD: 3625' MD  
 TD: 2136' (from 8/2/1979 CBL)  
 TOC: Rollins @ 2778' MD  
 Production Intervals: Corcoran @ 3192' MD

Gross Perf Interval: 2782' - 3204'

Surface Casing: 8-5/8" 24# CSG @ 211' MD

Production Casing: 5.5" 15.5# CSG @ 3625' MD

Tubing: 104 JTS 2-3/8" 4.7# J55 TBG @ 3138' MD

CIBP: N/A

**Objective:**

Plug and Abandon the well

**Notify State and BLM prior to starting P&A operations**

**Notes:**

a) This well failed MIT on 06/09/2009. There are leaks in the CSG between 2143' and 2174'. Well will be P&A'd due to sub-economic production, lack of recomple potential, and as per the BLM order to abandon.

b) The production CSG will be squeezed (inside & outside the CSG) from 680' to 580' to protect nearby water wells.

**Procedure:**

- 1 MIRU pulling unit
- 2 ND WH, NU BOPs
- 3 POOH with 3138' (104 JTS) of 2 3/8" 4.7# J55 tubing.
- 4 MIRU Wireline Company
- 5 RIH w/ CIBP and set at +/- 2700' MD. Dump ball 2 sx Class G "Neat" cement on top of CIBP.
- 6 RIH w/ cement retainer. Set at ~2040', sling into retainer with 2-3/8" TBG, and re-establish injection into leaks at 2143' - 2174'. Once injection is established, mix and pump 50 sx Class G "Neat" cement at 15.8 ppg. Displace cement, sting out of retainer, and reverse-circulate until clean. TOOH w/ TBG.
- 7 After a successful squeeze, casing will be pressure-tested to 300 psi for 15 minutes and charted. Notify COGCC/BLM before pressure test. If there are any leaks, contact Denver immediately. Additional plugs/squeezes may be needed if necessary.
- 8 Once CSG integrity is confirmed RIH w/ perf gun and shoot 4 squeeze holes @ 680'. POOH w/ perf gun & wireline, confirm shots fired.
- 9 RIH w/ cement retainer and set at 580'. Sting into retainer w/ 2 3/8" workstring and squeeze with 50 sx Class G "Neat" cement @ 15.8 ppg (cement coverage will be a minimum of 100' in annulus--680' up to 580'--for protection of nearby water wells).
- 10 Sling out of retainer, reverse circulate cement out of TBG, and POOH w/ 2 3/8" workstring.
- 11 RIH w/ wireline and set CIBP @ ~300'. Shoot 4 squeeze holes @ 261'. POOH w/ wireline, RDMO wireline company.
- 12 MIRU Cement company. Establish circulation to surface thru squeeze holes @ 261' with a minimum of 25 bbls of fresh water.
- 13 Mix and pump ~90 sx Class G "neat" cement @ 15.8 ppg (yeld = 1.15 cuft/sk) as follows:

5.5" CSG x 7.875" Hole:  $(7.875^2 - 5.5^2) \times 0.005454 \times 50' = 9 \text{ cuft} \times 25\% \text{ Excess} = 11 \text{ cuft} / 1.15 \text{ cuft/sk} = \sim 10 \text{ sx}$

5.5" CSG x 8.625" CSG:  $(8.097^2 - 5.5^2) \times 0.005454 \times 211' = 41 \text{ cuft} \times 25\% \text{ Excess} = 51 \text{ cuft} / 1.15 \text{ cuft/sk} = \sim 45 \text{ sx}$

5.5" Casing:  $261' \times 0.005454 \times 4.95^2 = 35 \text{ cuft} / 1.15 \text{ cuft/sk} = \sim 31 \text{ sx}$

**13A ONLY FOLLOW THIS IF CIRCULATION CAN NOT BE ESTABLISHED**

- A) Run in hole with CBL to verify cement from 261' to 161' (50' above & below Surf CSG shoe--minimum State requirement) and 0' to 50' in annulus
- B) If cement is not in the zones from 261' to 161' and 0' to 50' perforate lowest point where circulation can be established
- C) Fill wellbore and annulus with cement to surface

14 ND BOPs, NU WH

15 RDMO pulling unit

16 Cut csg 4' below grade and weld on a minimum of 1/4" steel plate, leave a weep hole, reclaim location

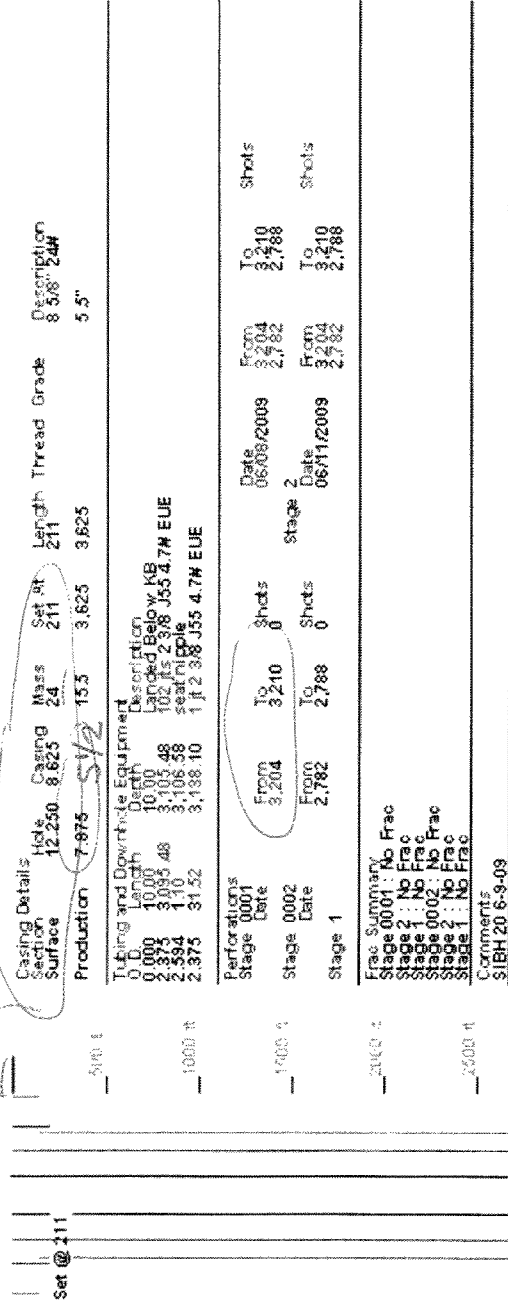
Call Craig Miley with any questions @ (303) 495-8665

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MAY 12 2010  
COGCC/Rifle Office

Downhole Schematic for Shire Gulch Federal 5-31

Project: South Piceance      API# 06077081900000      Surface Location : SWNW Sec 31 T9S - R96W 6th P      LNCANA  
Area : Shire Gulch      County : MESA      BHL : SWNW-31-9S-96 W 0th PM

As Of : 06/09/2009      GL : 5559.0 ft      KB to GL : 0.0 ft      KB : 0.0 ft



Well failed MIT on 6/9/09. The leak was found between 2143' and 2174' MD.  
Top of Cement (from 8/12/1979 CBL) is 2136' MD.