

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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SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

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COGCC/Rifle Office

1. OGCC Operator Number: 65571	4. Contact Name: Joan Proulx
2. Name of Operator: OXY USA WTP LP, Attn: Glenda Jones	Phone: 970-263-3641
3. Address: P.O. Box 27757	Fax: 970-263-3694
City: Houston State: TX Zip: 77227-7757	
5. API Number: 05-045-13990-00	OGCC Facility ID Number: 697-16-15A
6. Well/Facility Name: Cascade Creek	7. Well/Facility Number: 697-16-15A
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NENE 16 6S 97W 6 PM	
9. County: Garfield	10. Field Name: Grand Valley
11. Federal, Indian or State Lease Number: N/A	

Survey Plat	
Directional Survey	
Surface Egmnt Diagram	
Technical Info Page	X
Other	X

Complete the Attachment
Checklist

OP OGCC

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNU/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
<input type="checkbox"/> attach directional survey	
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation	Signed surface use agreement attached
Formation Code	
Spacing order number	
Unit Acreage	
Unit configuration	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date: 11/10/2011	Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input checked="" type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Remediate Cement/Payadd Procedure
	for Spills and Releases
<input type="checkbox"/> E&P Waste Disposal	
<input type="checkbox"/> Beneficial Reuse of E&P Waste	
<input type="checkbox"/> Status Update/Change of Remediation Plans	

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

Signed: Joan Proulx Date: 11/8/2011 Email: joan_proulx@oxy.com
Print Name: Joan Proulx Title: Regulatory Analyst

COGCC Approved: [Signature] Title: NWA Engineer Date: 11/8/11
CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

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OGCC/Rifle Office

1. OGCC Operator Number: 66571 API Number: 05-045-13990-00
2. Name of Operator: OXY USA WTP LP OGCC Facility ID #
3. Well/Facility Name: Cascade Creek Well/Facility Number: 697-16-15A
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE 16 6S 97W 6 PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Oxy is seeking approval to remediate the cement and to squeeze the existing holes in preparation for payadd frac operations on the 697-16-15A well.

Proposed Procedure:

1. Prepare surface location for completion operations. Set and pull test anchors for workover rig as per API RP4G.
 2. Install and test "B" section (tubing spool) of wellhead with four 2-1/16" 5M wing valves.
 3. MIRU workover rig with power swivel.
 4. Install and test 5M BOPE and rotating head.
- Note: There is no tubing in the wellbore.
5. RIH with 3-7/8" bit, scraper and drill collars on 2-3/8" work string. Clean out fill to PBTD @ 8806'. POOH.

Pressure test previous squeeze holes

7. MIRU WL. RIH with composite bridge plug and set at 8010'. POOH w/ WL.
 8. Pressure test casing to 5000 psi.
 9. If casing will not hold pressure, report leak off rate and continue with the following steps. If casing will hold pressure skip to step 19.
 10. RIH with packer and tubing to 7000' and pressure test tubing and casing annulus to 5000'.
 11. Pressure test casing below packer to 5000 psi down tubing.
 12. If old circulation holes will not hold pressure, RIH w/ tubing and RTTS packer and test old perforation zones. Report leak off rate and depth. Prepare for hesitation squeeze per following schedule.
 13. POOH with tubing and packer.
- Note: Steps 13 through 18 are only to be performed if the holes at 7053' will not hold squeeze pressure.
14. RIH with RTTS packer w/ ON/Off tool and tubing to 6750'.
 15. Mix & pump running squeeze at 2 BPM according to the following squeeze program:

:15 bbl freshwater spacer
:40 sks / 11 bbls of squeeze slurry
:26 bbl freshwater flush

Note: Tubing volume at 6750' is 26 bbls. Once slurry is below EOT begin hesitation squeeze.

15. Catch surface sample of cement slurry for observation.
16. Once cement is below EOT, hesitate squeeze at 0.5 bbl increments every 45 minutes until 1500 psi squeeze pressure is achieved. Hold & maintain squeeze pressure for at least three hours.
17. If satisfactory squeeze pressure is not achieved then over-displace squeeze slurry 5 bbls and WOC. Re-squeeze per previous procedure.
18. After satisfactory squeeze, POOH with packer and tubing. WOC at least 48 hrs.

Cement squeeze procedure to cement from 7000' to 6400'

19. RU lubricator and test to 3,000 psi. RIH with 3-1/8" expendable scalloped HSC perforating guns w/ 3 SPF, 120 deg phasing, using Owen 3-1/8", 21 gram SDP Hero NT4 charges. Correlate CCL w/ SLB CBL dated 09/12/2007.
 20. Shoot 1' of circulation perfs at 7000'. POOH w/ WL.
 21. Open surface casing valve and attempt to circulate up to surface.
 22. RIH w/ WL set cement retainer. Set at 6800' (200' above squeeze holes). POOH w/ WL.
 23. RIH w/ 2-3/8" workstring. Sting into retainer. Pull up into test mode and pressure test tubing. Establish injection into squeeze perfs. Record rates and pressures.
- Note: Do not exceed 1000 psi or 2 bbl per min while circulating.
24. Pump the following schedule for cement squeeze (@ 2BPM). Be sure to catch surface sample for observation. Designed for 4.5" csg & 7" hole

:15 bbls fresh water spacer
:95 sks / 25 bbls 15.8 ppg squeeze slurry (Detail provided at end of prog)
:29 bbl fresh water flush

Note: Tubing volume at 6800' is 26 bbls. Once slurry is below retainer begin hesitation squeeze.

25. Sting out of retainer. Pull up to 6500' & reverse circulate 2 tubing volumes.
 26. POOH to 6200'.
 27. Run WL down tubing and run temperature log. Need to check WL entry
- Note: need to run temperature log within 24 hours after cement job
28. Discuss temperature log results with engineer.
 29. RD WL.
 30. POOH. WOC at least 48 hrs.
 31. RIH with 3-7/8" bit and drill collars on 2-3/8" work string.
 32. Drill out retainer at 6800' and clean out well down to bridge plug @ 8010'. (Leave BP in the wellbore).
 33. POOH. LD BHA.
 34. Pressure test casing to 5000 psi.
 35. PU post-scraper set to drift for 4-1/2" 11.6 # casing. RIH scraping casing down to bridge plug at 8010'.
- Note any tight spots.
36. POOH. LD workstring.
 37. RDMO workover rig.
 38. MIRU Schlumberger and run cased hole CBL log.
 39. RDMO e-line unit.
 40. Clean location and report in OpenWells.
 41. Prepare well for frac ops.

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OXY Mid-Continent
Well Bore Schematic

No scale

