02369026

FORM 4 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

Received 10-11-2012

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.)

1. OGCC Operator Number:	66571	4. Contact Name	Daniel I. Padilla
2. Name of Operator:	OXY USA WTP LP	Phone:	970.263.3637
3. Address:	760 Horizon Drive, Suite 101	Fax:	970.263.3694
City:	Grand Junction	State: CO	Zip: 81506
5. API Number	05-	OGCC Facility ID Number	335921
6. Well/Facility Name:	Cascade Creek CDA	7. Well/Facility Number	697-15-01
8. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NWNW, Sec. 15, T6S, R97W, 6th PM		
9. County:	Garfield	10. Field Name:	Grand Valley
11. Federal, Indian or State Lease Number:			

Complete the Attachment Checklist

	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	X	
Other Lab data	X	

General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

	FNL/FSL		FEL/FWL	
Change of Surface Footage from Exterior Section Lines:				
Change of Surface Footage to Exterior Section Lines:				
Change of Bottomhole Footage from Exterior Section Lines:				
Change of Bottomhole Footage to Exterior Section Lines:				attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude | Distance to nearest property line | Distance to nearest bldg, public rd, utility or RR

Longitude | Distance to nearest lease line | Is location in a High Density Area (rule 603b)? Yes/No

Ground Elevation | Distance to nearest well same formation | Surface owner consultation date:

GPS DATA:
Date of Measurement | PDOP Reading | Instrument Operator's Name

☐ CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ Remove from surface bond — Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling): Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME NUMBER
From:
To:
Effective Date:

☐ ABANDONED LOCATION:
Was location ever built? ☐ Yes ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE:

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ 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

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately
☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☒ Notice of Intent — Approximate Start Date: 10/15/2012
☐ Report of Work Done — Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)	☐ Request to Vent or Flare	☐ E&P Waste Disposal
☐ Change Drilling Plans	☐ Repair Well	☐ Beneficial Reuse of E&P Waste
☐ Gross Interval Changed?	☐ Rule 502 variance requested	☐ Status Update/Change of Remediation Plans for Spills and Releases
☐ Casing/Cementing Program Change	☒ Other: Interim reclamation	

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

Signed: | Date: 10/11/12 | Email: daniel_padilla@oxy.com

Print Name: Daniel I. Padilla | Title: Regulatory Advisor

COGCC Approved: | Title: | Date: 10-15-2012

CONDITIONS OF APPROVAL, IF ANY:

OXY USA WTP LP shall submit report on 6 month interval that provides status of drilling operations.

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

10-11-2012

1. OGCC Operator Number: 66571 API Number:
2. Name of Operator: OXY USA WTP LP OGCC Facility ID # 335921
3. Well/Facility Name: Cascade Creek CDA Well/Facility Number: 697-15-01
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW, Sec. 15, T6S, R97W, 6th 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 USA WTP LP (Oxy) is submitting this sundry notice requesting to place its 697-15-01 cuttings disposal area (15-01 CDA) into interim reclamation. Oxy's 697-15-01 Cuttings Management Plan was submitted on 08/17/2011 in support of the 15-01 CDA and approved by the COGCC on 08/19/2011; please reference document number 2215578. The cuttings management plan detailed cuttings collection, transport, storage, stabilization and disposal activities associated with the cuttings generated at multiple drilling locations on Oxy's surface lands.

Oxy has temporarily suspended the use of this site and has completed temporary stabilization efforts detailed below as well as interim reclamation of this location to allow for future cuttings disposal at this existing location. Oxy would like to request to place the 15-01 CDA in an interim reclamation phase for a period of up to 18 months. Within 18 months: Oxy will 1) determine if the site is needed for additional cuttings disposal or 2) will prepare the site for final closure. As outlined in the cuttings management plan Oxy assumed that approximately 8,700 cubic yards of cuttings can be disposed of at this location. Currently, actual site conditions have allowed Oxy to dispose of approximately 10,000 cubic yards of drill cuttings at this location, leaving an additional 5,000 cubic yards of space for disposal. Oxy's estimate provided in the CMP was a conservative estimate based on the lowest portion of the cutslope in relation to the pad elevation and thus the additional allowable volume is based on this cutslope elevation variability.

Prior to transporting the cuttings from the drilling site to the 15-01 CDA, Oxy mixed the cuttings with sawdust to absorb de minimus amounts of fluids present in the cuttings. The cuttings were then transported via truck from multiple drilling locations to the 15-01 CDA. The cuttings were transported to the receiving/mixing area on the location, additionally mixed with native material, and then stacked at the permanent disposal location.

Oxy collected cuttings samples at the drilling site location (mixed with sawdust) as well as from the cuttings samples staged at the 15-01 CDA mixing area which indicated some exceedances when analyzed for COGCC Table 910-1. Oxy completed multiple mixing of these cuttings with native material, then collecting confirmation samples which were also analyzed for COGCC table 910-1. Confirmation sample results identified all analytes to be within table 910-1 allowable concentrations with the exception of arsenic. Oxy also collected background samples from undisturbed native material in the area which identified background arsenic concentrations to be higher than those found in the above mentioned mixed cuttings samples. Oxy temporarily capped the cuttings with three feet of native material, and collected a confirmation sample of the cap to confirm that a sufficient agronomic zone was in place to support reseeding efforts. All cap analytes were found to be below COGCC table 910-1 allowable concentrations.

To stabilize the 15-01 CDA, Oxy implemented stormwater BMP controls, including contouring of the 15-01 CDA slope, pocking and broadcast seeding of the location for interim reclamation. Additionally, Oxy installed a runon diversion ditch above the 15-01 CDA to control stormwater runon within the location. Please see the attached stormwater site map outlining all stormwater BMP and engineering controls installed with the 15-01 CDA and 697-15-01 pad boundary.

Currently, Oxy conducts 14-day stormwater inspections on the location due to reseeding efforts within other portions of the 697-15-01 pad. Once these locations have been seeded, the 697-15-01 location and CDA will be placed on monthly stormwater inspections.

Ongoing monitoring will be conducted for stormwater controls and success of revegetation until 80% cover/final closure is achieved, or until Oxy decides to open this site for continued cuttings disposal. Following revegetation and final closure of the 15-01 CDA, Oxy will conduct annual visual monitoring of the revegetation success to ensure SAR concentrations within the disposed cuttings do not effect the vegetation by potential upward leaching into the cap material. Oxy will consult with the COGCC to propose alternative activities if vegetation appears stressed or dying prior to the final closure and reclamation of the pad area.

If the 15-01 CDA is reopened and utilized for additional cuttings disposal, Oxy will complete the following: 1) notify the COGCC that the site is being reactivated, 2) remove the top soil layer and segregate this material for future use (most likely capping), 3) remove the remaining native material used as the cap and segregate this material for future use (most likely mixing), 4) install temporary stormwater BMPs around the top soil and native cap material piles, and 5) stage at the 15-01 CDA mixing location near the existing storage pile and begin cuttings mixing and staging. Handling of the cuttings will be completed as discussed in document # 2215578, including transport, sampling, staging, mixing, final disposal and closure.

rec. 10-11-2012

CONTRACTOR COMMENTS

SITE DESCRIPTION

Disturbed Acreage: 6.4

Construction Start Date: <2010

Receiving Water: See Receiving Waters Map

Pre-disturbance/ Reference Vegetation (type & percent cover): See Vegetation Table in SWMP

Seeding Info:

LEGEND

- Construction Boundary
- Diversion
- Wattle(s)
- Earthen Berm
- Check Dam
- Velocity Control Dam
- Hay Bales
- Topsoil Berm
- Drainage Dip
- Sediment Trap
- Armored Sed. Trap
- Graveled Surface
- Rock Rundown
- ECB
- Culvert
- Inlet/Outlet Protection
- Separator(s)
- Steel Containment
- Wellhead
- Tank
- Latrine
- Fuel Storage
- Stored Chemicals
- Barrel
- Cut Slope
- Fill Slope
- Slash
- Natural Drainage/ Stream

STORMWATER SITE MAP | OXY USA WTP LP | MESA

NWNW Section 15, Township 6S, Range 97W | Garfield County, Colorado | 39.5294-108.2132

697-15-4B / 697-15-01 Pad

Map Revision: 6/1/2012 SBS | NOT TO SCALE

OXY

Cuttings Disposal Sampling

Pad #:	607-15-01
Sample Date:	

		Sample Identification (mg/kg)																					
	Lab Report #	L530024	L530029	L530013	L531048	L531047	L531047	L531048	L531230	L531819	L584542	L584542	L584542	L584542	L584542	L585504	L585504	L585504	L585504	L585504	L585504	L580279	L580279
	Date Sampled	8/5/2011	8/4/2011	8/6/2011	8/11/2011	8/12/2011	8/13/2011	8/13/2011	8/16/2011	8/18/2011	7/11/2012	7/11/2012	7/11/2012	7/11/2012	7/11/2012	8/6/2012	8/6/2012	8/6/2012	8/6/2012	8/6/2012	8/6/2012	8/6/2012	8/15/2012	8/15/2012
	Sample Name	607-15-01 Cuttings	607-15-01 Cuttings	607-15-01 Cuttings	607-15-01 Annex Cuttings	607-15-01 Annex Cuttings	607-15-01 Cuttings	607-15-01 Cuttings	607-15-01 Cuttings	607-15-01 Cuttings	607-15-01 CDA CUT W 3-4 Pt	607-15-01 CDA CUT CENTER 2-3 Pt	607-15-01 CDA CUT N 1 Pt	607-15-01 CDA CUT S 5-6 Pt	607-15-01 CDA CUT SE 1-2 Pt	607-15-01 CDA CUT E 3-4 Pt	607-15-01-CMA-E	607-15-01-CMA-SE	607-15-01-CMA-ECENTER	607-15-01-CMA-WCENTER	607-15-01-CMA-NW	607-15-01-CMA-W	607-15-01-ECENTER-081612	607-15-01-WCENTER-081512
	Sample Stage	INITIAL CUTTINGS									STABILIZED CUTTINGS												
Organics in Soil	MCL (mg/kg)																						
TPH (GRO and DRO) - San Area	500	834	375	1713	1191 7	362 3	362 3	1191 7	843 5	511 2	121 8	444 1	950 34	112 4	462 7	837 2	U	251 2	221 7	271 7	220 5	322 1	200 56	160 33
Benzene	5 17	0 078	0 0016	0 84	0 019	0 05	0 05	0 019	0 038	0 087	0 847	0 052	U	0 022	0 22	0 044	U	0 0018	0 0029	0 0037	0 0016	0 0026	U	0 002
Toluene	85	0 44	0 034	1 60	0 038	0 005	0 005	0 038	0 14	0 1	0 18	0 23	0 0081	0 035	0 34	0 085	U	0 0042	0 0058	0 0081	0 0037	0 0071	U	0 0024
Ethylbenzene	100	0 0540	0 0045	0 972	0 0572	0 016	0 016	0 0072	0 081	0 019	0 055	0 028	0 0022	0 0037	0 076	0 0071	U	U	0 0022	0 0022	U	0 0045	U	U
Xylenes	175	1 6	0 048	1 19	0 062	0 11	0 11	0 062	0 13	0 11	0 24	0 46	0 018	0 027	0 29	0 16	U	0 014	0 017	0 018	U	0 018	U	U
Organics in Soil (PAHs)																								
Acenaphthene	1000	BDL	BDL	BDL	0 029	0 028	0 028	0 029	0 011	0 021	0 0046	U	0 014	0 002	0 049	0 04	U	0 017	0 029	0 019	0 014	0 028	0 023	0 0081
Anthracene	1000	BDL	BDL	BDL	U	U	BDL	BDL	BDL	0 021	0 0044	U	U	0 0018	0 025	0 029	U	U	0 015	U	U	0 011	0 01	0 0053
Benzo(A)anthracene	8 22	BDL	BDL	BDL	0 06	0 05	0 05	0 06	BDL	0 032	0 02	0 086	0 11	0 017	0 095	U	U	0 034	0 032	0 034	0 039	0 024	0 022	0 026
Benzo(B)fluoranthene	8 22	BDL	BDL	BDL	U	0 018	0 018	BDL	BDL	0 032	0 0029	0 04	0 058	0 0074	0 058	0 038	U	0 017	0 022	0 024	U	0 016	0 016	0 012
Benzo(K)fluoranthene	2 2	BDL	BDL	BDL	U	U	BDL	BDL	BDL	BDL	0 0091	U	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(A)pyrene	8 822	BDL	BDL	BDL	U	0 018	0 018	BDL	BDL	0 028	0 0072	0 081	0 087	0 014	0 073	0 034	U	0 017	0 029	0 026	0 018	0 017	0 016	0 011
Chrysene	22	BDL	BDL	0 13	0 03	0 043	0 043	0 03	BDL	0 089	0 026	0 14	0 19	0 03	0 18	0 088	U	0 037	0 058	0 056	0 038	0 040	0 031	0 039
Dibenzo(A,H)anthracene	8 822	BDL	BDL	BDL	U	U	U	BDL	BDL	0 012	0 0029	U	0 031	U	U	U	U	U	U	U	U	U	0 005	0 0026
Fluoranthene	1000	BDL	BDL	BDL	U	U	BDL	BDL	BDL	0 03	0 0044	U	0 022	0 0023	0 051	U	U	U	U	U	U	0 01	0 017	0 0088
Fluorene	1000	BDL	BDL	0 15	0 058	0 058	0 058	0 058	BDL	0 18	0 011	0 052	0 04	0 012	0 17	0 13	0 0056	0 08	0 11	0 085	0 048	0 052	0 052	0 023
Indeno(1,2,3-C,D)pyrene	8 22	BDL	BDL	BDL	U	U	BDL	BDL	BDL	BDL	U	U	U	U	U	U	U	U	U	U	U	U	0 0033	0 0018
Naphthalene	23	BDL	0 75	0 77	0 23	0 37	0 37	0 23	0 039	1 3	0 081	0 72	0 19	0 07	1 8	0 6	0 024	0 2	0 68	0 34	0 24	0 18	0 24	0 12
Pyrene	1000	BDL	0 088	BDL	0 13	0 055	0 055	0 052	0 0018	0 41	0 021	0 094	0 14	0 013	0 13	0 058	0 0053	0 047	0 083	0 056	0 047	0 048	0 027	0 035
Inorganics in Soil																								
EC	>4 mmhos/cm or 25 %	0 77	1 70	1 4	1 9	1 4	1 4	1 9	1 2	3 4	2 7	2 9	3 7	3 3	3 9	2 8	0 14	0 86	0 46	0 89	0 54	0 94	0 48	0 62
SAR	<12	13 9	42 9	39 0	33	36	39 8	33 0	31 9	28 8	37	43	15	29	58	39	1 9	7 1	7 9	7 2	5 7	7 8	7 4	6 7
pH	6-8	8 0	8 8	8 5	8 9	8 8	8 8	8 9	8 3	12 8	8 6	8 3	8 4	8 3	8 6	8 4	7 3	8 1	8 2	8 1	8 2	8 2	8 2	7 8
Metals in Soils																								
Arsenic	8 39	17	2	4 1	7 2	7 3	7 3	7 2	8 8	7 2	8 2	2 6	3	2 3	7 1	4 5	8 9	4 3	6 6	3 4	4 4	5 8	3 4	8 54
Barium	15,000	240	120	180	220	200	200	220	220	460 0	280	1200	2500	1700	330	230	390	500	570	660	820	610	600	450
Boron (Hot Water Soluble)	2 (mg/L)																							
Cadmium	70	0 66	0 54	0 67	0 15	0 54	0 54	0 15	0 3	0 6	U	U	U	U	U	U	0 75	0 24	0 3	0 22	0 27	0 4	0 12	U
Chromium III	120,000	12 0	8 6	15 0	12	12	12	12 0	13 0	11 0	13	11	12	12	11	12	35	29	28	26	33	33	25	18
Chromium VI	23	1 5	BDL	1 4	2	U	BDL	2 0	BDL	BDL	U	1 7	1	1 2	U	U	U	U	U	U	U	U	0 6	0 92
Copper	3100	23 0	12 0	18 0	19	20	20 0	19 0	8 0	24 0	15	21	62	20	28	25	20	19	22	19	18	19	21	19
Lead	400	11 0	8 6	9 6	9 2	12	12 0	9 2	11 8	11 0	8 4	9 3	11	11	10	13	16	13	13	11	14	14	12	8 6
Mercury	23	0 012	0 014	0 018	0 014	0 017	0 017	0 014	0 0	0 0	0 0098	0 017	0 019	0 017	0 0078	0 02	0 038	0 019	0 02	0 018	0 02	0 019	0 02	0 021
Nickel	1600	12 0	6 0	8 8	9 9	11	11 0	9 9	11 8	12 8	6	3 2	6 1	3 8	4 9	6 9	26	18	20	17	20	19	20	11
Selenium	380	BDL	BDL	BDL	3	U	BDL	3 0	3 1	1 0	3 2	U	U	U	U	U	6 4	3 5	4 4	2 6	5	5	U	U
Silver	380	BDL	0 6	0 8	U	U	BDL	BDL	BDL	BDL	0 53	U	U	U	U	U	U	U	U	U	U	U	U	U
Zinc	23,000	34 0	28 0	37 0	38	47	47 0	38 0	61 0	38 0	45	61	62	63	34	87	64	61	51	48	52	61	61	32