API No.: _____ P&A No.: _____

ABOVE FIELDS FOR AGENCY USE ONLY

Southern Ute Indian Tribe Safety and Environmental Compliance Management Group
Plug & Abandonment Form and Checklist

175 Mercado Street, Suite 225, Durango, CO 81301

A draft of this form and all attachments are to be sent to the Southern Ute Indian Tribe Safety and Environmental Compliance Management Group (SECMG) ***prior*** to the plug and abandonment onsite. Please submit form to dkrueger@sugf.com.

SECTION 1 - OPERATOR INFORMATION

Name of Operator: _____ Operator No.: _____

Address: _____ Phone: _____

City: _____ State: _____ Zip: _____ Mobile: _____

Contact Person: _____ Email: _____

Is pipeline ROW holder same as well operator? ◯ Yes ◯ No

If No, please identify ROW holder: _____ Date Notified: _____

*****If Yes, operator must complete Notice of Intent to Abandon Pipeline Form and attach*****

*****If No, 3rd Party ROW holder must complete and submit to SUIT DOE at awetherell@sudoe.us* ****

Form Checklist (All information in checklist must be present and complete for plan to be accepted)

- ☐ Wellsite Reclamation Plan (Section 2)
- ☐ Sampling Plan & Map (Section 2)
- ☐ Access Road Reclamation Plan (Section 3)
- ☐ Site Map(s) (Section 4)
- ☐ Notice of Intent to Abandon Pipeline Form
- ☐ If disturbance is greater than 1 acre operator must submit this *Plug & Abandonment Form and Checklist* to epdwq@southernute-nsn.gov at Environmental Programs Division

I hereby certify that the information detailed in the attached plan is in accordance with applicable regulatory requirements, tribal requests, and the attached Tribal General Stipulations. All information submitted in connection with the reclamation of this wellsite, access road and pipeline ROW are true, accurate, and complete to the best of my knowledge.

Signature: _____ Title: _____

Name: _____ Date: _____

Email: _____

Reviewed and Approved by:

DOE Approved By: _____ Date: _____

Comments: _____

See attached guidance documents for additional information:

Tribal General Stipulations, P&A Project Phasing Flowchart, Table 1 - SUIR Final Reclamation Sampling Guidance

SECTION 2 - GENERAL WELLSITE INFORMATION

Well Name: _____ API: _____ Lease #: _____

QTRQTR _____ Section _____ TWP _____

Latitude: _____ Range _____ Meridian _____

Longitude: _____ Municipality/County: _____

Producing Formation & Spud Date: _____

Location of Reserve Pit: _____

_____

Equipment List: _____

_____

Acreage of Disturbance: Soil Type:

Wellsite Reclamation Plan must address Cut and Fill Slopes, Seeding and Mulching, Aggregate, Temporary BMPs and Map -- or -- Attach Separate Plan

Identification of potential sources of pollution and control measures (Ex., Fueling areas, concrete truck and equipment washout, aboveground tanks, sanitation areas) -- or -- Attach Separate Plan

Sampling Plan (Map required, see attached Table 1 SUIR Final Reclamation Sampling Guidance)

SECTION 3 - GENERAL ACCESS ROAD RECLAMATION

Length of Access Road: _____

Will Access Road Remain Active? ○ Yes ○ No

Will Access Road be Reclaimed with Pad? ○ Yes ○ No

Will Access Road be Reclaimed when Pad is Adequately Revegetated? ○ Yes ○ No

Access Road Reclamation Plan must address Drainage Restoration, Aggregate, Recontouring, Seeding and Mulching, Temporary BMPs, Culvert Removal and Map per attached General Stipulations -- or -- Attach Separate Plan

SECTION 4 - MAPPING REQUIREMENTS

All maps must include the following components:

- ☐ Construction Site Boundaries/Permitted area
- ☐ All areas of ground disturbance
- ☐ Potential sources of pollution
- ☐ Areas of cut and fill
- ☐ Analytical sample locations
- ☐ Areas of potential receiving water
- ☐ Laydown Areas
- ☐ Location of BMPs
- ☐ Stormwater outfall locations

Additional Comments/Information

P&A GENERAL STIPULATIONS/MITIGATIONS

WELL SITE & ACCESS ROAD

1. All work must be performed in conformance with the SUIT Tribal Employment Rights Office (TERO).

2. The company shall use Best Management Practices (BMPs) which eliminate or minimize adverse impacts to the environment, public health and the Tribes natural resources.

3. All Colorado-listed noxious weeds shall be controlled and treated in the permitted area and adjacent lands affected by reclamation work. All invasive weeds (i.e. cheat grass, etc.) shall be controlled to allow successful revegetation of the disturbed areas.

4. Prior to any herbicide treatment on Tribal Lands the commercial applicator must receive an approval letter from the SUIT Water Resources Division. Please contact the SUIT DNR Soil and Water Conservationist at (970) 563-9482 x 2933 to obtain the approval letter. The operator must also obtain a crossing permit from the SUIT Lands Division (970) 563-0126.

5. All surface equipment identified on location at the time of P&A will be removed from location. All rig anchors found on location will be removed. Any concrete slabs on the pad will be removed. All trash, if any, will be removed from location.

6. Surface gravel and rip rap rock that has not been contaminated with petroleum hydrocarbons can be buried onsite at a minimum 3-foot depth within the cut slope (if the cut slope is not substantial enough to get three feet of cover, the gravel will be hauled off, not buried elsewhere on the pad).

7. Operators will sample under all equipment and areas of concern where soil appears to be impacted or vegetation is stressed. Additional sampling may be requested in areas of previously documented spills in order to prevent the spread of impacted soil during recontouring work and to determine if the soil health is suitable for the propagation of desirable vegetation. Contaminated and stained soil on the pad will be excavated and disposed of prior to ripping or recontouring the location.

8. Fence, cattle guard, t-posts and all associated fence materials shall be removed from around the well pad.

9. Previously segregated topsoil must not be mixed or covered with subsurface material.

10. For final reclamation of project areas that have no available stockpiled or stored topsoil, identify sources from the existing cut/fill slopes and strip/segregate for reclamation. Salvage the upper 6 inches minimum of soil (A horizon) and stockpile or windrow separately for use as topsoil material.

11. Disturbed areas will be graded and recontoured to create a smooth transition with adjacent undisturbed ground utilizing existing onsite soil materials. This includes ensuring fill slope material is placed in cut slope areas to achieve or mimic historic grades. Grading and contouring should be accomplished to emulate the native adjacent terrain and landscape.

12. Disturbed areas will be recontoured to provide positive stormwater drainage as sheet flow to the extent practicable to reduce management of conveyance paths. During design and grading careful consideration should be taken to length of sheet flow and ensure that any potential for concentration of stormwater is addressed to minimize erosion.

13. Remove all culverts and restore and recontour all drainages to match native bank and bed on access roads.

14. Prior to topsoil placement and once the area within the disturbance limits is to final grade, rip compacted areas to a minimum 4 to 6-inch depth (or up to 12" if dealing with heavy compacted roads), on the contour where necessary and possible.

15. Any specified amendments will be incorporated into the soils during the ripping process.

16. Respread topsoil to a 6-inch thickness (if possible) on all graded areas. Topsoil salvaged from wetland areas should be respread in its original location. It is preferred that topsoil be respread with tracked equipment to reduce compaction of seedbed. Topsoil shall be spread evenly across all slopes.

17. Drill specified seed mix at the required rate and to appropriate seeding depths on all disturbed areas.

18. Broadcast the specified seed mix on areas that are too steep for drill seeding. When seed is broadcast, the seed rate is doubled and the seed is culti-packed, imprinted, harrowed and/or raked into the soil depending on the slope gradient.

19. Apply Certified Weed Free Straw or native hay as mulch at a minimum rate of two tons per acre. Mechanically crimp the straw or native hay into the soil in all areas terrain permits. Tack straw in place where it cannot be crimped.

20. If hydro-mulching is specified for an area, broadcast and rake the seed. The hydro-mulch will be applied using 3,500 pounds/acre of Bonded Fiber Matrix (BFM) mulch.

21. Rolled erosion control products will be installed per the manufacturer specification as applicable and called for on a specific project.

22. The operator shall take appropriate measures to prevent erosion and sedimentation in accordance with the approved *Plug & Abandonment Form and Checklist*.

23. If sediment control barriers or erosion control blankets are used for storm water management, the entire barrier or blanket (including netting) shall be made of biodegradable material.

EQUIPMENT

1. The P&A marker must be permanently labeled in accordance with 43 CFR 3162.2 (d).

2. Nothing shall be stored or left onsite after final reclamation.

3. The Southern Ute Indian Tribe recommends testing as prescribed in attached Table 1 – Final Reclamation Sampling Guidance. Compare all analytes to COGCC Table 910-1 concentration levels. If operator is able to provide documentation of recent prior soils testing (during tank removal, etc.) certain requirements may be waived.

4. Unless records are provided to verify that a mercury meter was not used, test soils for mercury under the meter house.

5. No scrap or waste may be buried onsite except gravel as previously discussed. No materials may be burned onsite.

PIPELINES

1. When possible, all pipelines and flowlines on well pad within the permitted area/footprint shall be removed from underground. If this cannot be accomplished, pipes shall be cut at a minimum safe depth of at least 2 feet 6 inches below final grade.

2. All pipelines which will be abandoned in place shall be purged of all gases, produced water and chemicals and capped.

3. ROW appurtenances such as corrosion test stations, pigging stations and valve sets will be removed.

Flowchart 13 – Example Plug and Abandon (P&A) Project Phasing

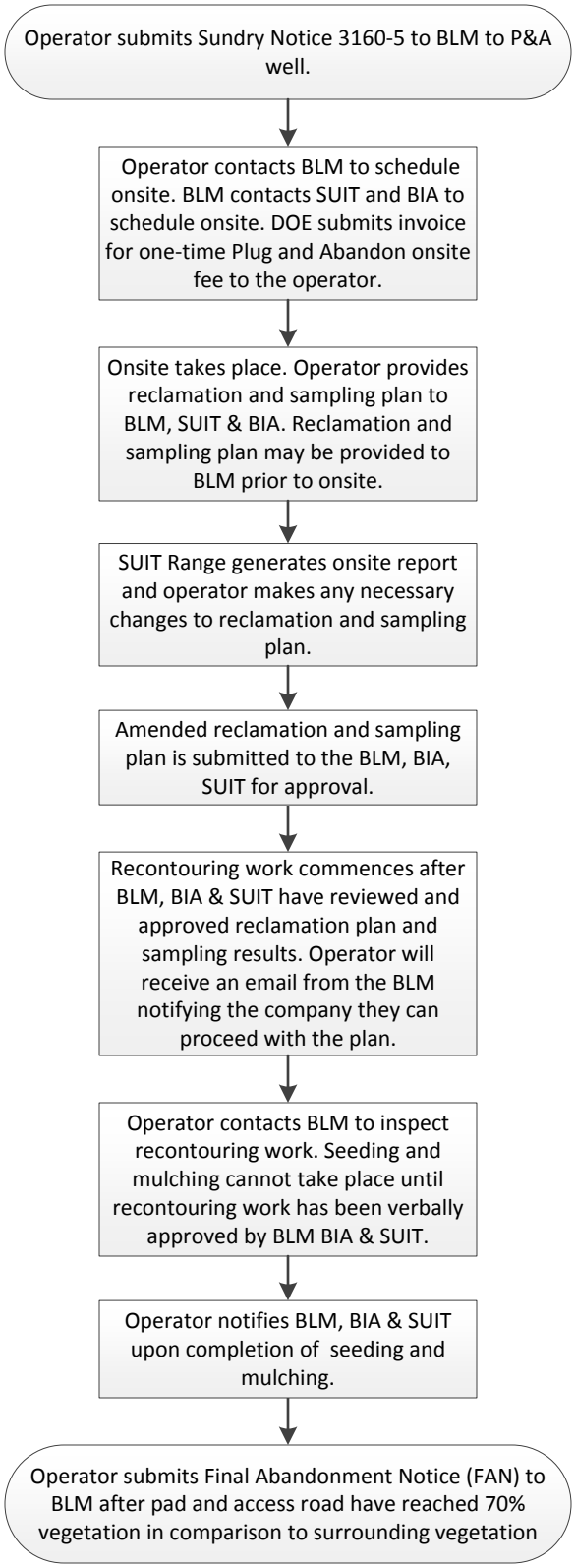

Table 1 – SUIR Final Reclamation Sampling Guidance

Area to Sample	Where to Sample	How to Sample	What to Sample[4]
CBM Produced Water Tank[1,2]	Underneath	Composite sample from 2-3 discrete samples	SAR, EC, pH
Other than CBM Produced Water Tank[1,2]	Underneath	Composite sample from 2-3 discrete samples	SAR, EC, pH, BTEX, TPH
Condensate or Oil Tank[1]	Underneath	Composite sample from 2-3 discrete samples	Full Table 910-1
CBM Separator[1,2]	Underneath	Composite sample from 2-3 discrete samples	SAR, EC, pH
Compressor	Underneath	Composite sample from 2-3 discrete samples	SAR, EC, pH, All Organic Compounds in Table 910-1
Meter House[3]	Underneath	Composite sample from 2-3 discrete samples	Mercury
Wellhead	Within 24"	Composite sample from 2-3 discrete samples	SAR, EC, pH, BTEX, TPH
Previously Buried Reserve Pit[5] (in cut or fill)	Low Point or Center	Discrete sample	Full Table 910-1

[1]May be waived if documentation is provided showing previous testing during equipment removal for historic tank locations.

[2]May be waived if area will be buried under at least three feet of clean soil from recontouring and not at risk of exposure from erosion

[3] May be waived if documentation provided that only non-mercury meters used onsite

[4]Samples must be compared to Colorado Oil and Gas Conservation Commission's Table 910-1

[5] May be waived if pit was closed in accordance with regulations applicable at the time of closure, is not going to be disturbed by reclamation work, and is not at risk of exposure to erosion.

Note: Please provide a map of sample locations. Additional sampling may be required depending upon analytical results, depth to groundwater, and location of nearby receptors. A background sample is also recommended. Operators are will be allowed to collect and transport their own lab samples as long as the appropriate collection methods and equipment are used.

Acronym(s):

CBM – Coalbed Methane
SAR – Sodium Absorption Ratio
EC – Electrical Conductivity
BTEX – Benzene, Toluene, Ethylbenzene, Xylenes (total)
TPH – Total volatile and extractable petroleum hydrocarbons

This document is provided to operators as a guidance tool. If all areas are sampled in the manner provided on this document the operator will be in full compliance with all involved agencies.

Updated: 1/3/2018