

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen
Cabinet Secretary

Matthias Sayer
Deputy Cabinet Secretary

Heather Riley, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 8/21/2018

Well information:

30-045-10744 MUDGE LS #018

BP AMERICA PRODUCTION COMPANY

Application Type:

☒ P&A ☐ Drilling/Casing Change ☐ Location Change

☐ Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84; Submit Gas Capture Plan form prior to spudding or initiating recompletion operations)

☐ Other:

Conditions of Approval:

- Notify NMOCD 24hrs prior to beginning operations.
- Extend Plug #2 1180'-1007' to cover the Ojo Alamo top. OCD Ojo Alamo pick @ 1057'

NMOCD Approved by Signature

12/26/18
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMSF078051

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
MUDGE LS 18

2. Name of Operator

BP AMERICA PRODUCTION COMPANY

Contact: PATTI CAMPBELL

Mail: patti.campbell@bpx.com

9. API Well No.
30-045-10744-00-S1

3a. Address

1199 MAIN AVE. SUITE 101
DURANGO, CO 81301

3b. Phone No. (include area code)

Ph: 970-712-5997

10. Field and Pool or Exploratory Area
UNDESIGNATED

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 15 T31N R11W SWNE 1610FNL 1450FEL
36.901505 N Lat, 107.973083 W Lon

11. County or Parish, State

SAN JUAN COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BP requests to P&A the subject well. Please see the attached P&A procedure, wellbore diagrams and BLM required reclamation plan documents.

In accordance with NMOCD Pit Rule 19.15.17.9 NMAC, BP will use a closed-loop system during operations.

NMOCD

DEC 12 2018

DISTRICT III

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #432194 verified by the BLM Well Information System
For BP AMERICA PRODUCTION COMPANY, sent to the Farmington
Committed to AFMSS for processing by JACK SAVAGE on 12/04/2018 (19JWS0044SE)

Name (Printed/Typed) PATTI CAMPBELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/21/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE

Title PETROLEUM ENGINEER

Date 12/04/2018

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Farmington

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

NMOCD

P&A Procedure

BP America – MUDGE LS 18

Fruitland Sand

1610' FNL & 1450' FEL, Section 15, T31N, R11W, San Juan County, NM

API 30-045-10744

Spud: 8/5/1960

Plug & Abandonment Procedure:

1. **Plug #1, 1850' - 1950' (Fruitland top: 2000', Perfs: 2486' – 2648'):** *RIH & set CICR at 1950'. Pressure test tubing prior to pumping cement to 1000 psi. Mix & pump 12 sxs of Class B cement (or equivalent) to plug off Fruitland perfs. Sting out of CICR leaving 50' of cement on top of retainer. Circulate hole clean. If required run by BLM, run CBL (note: circulated cement to surface on primary cement job).*
2. **Plug #2, 933' – 1148' (Ojo Alamo & Kirtland Tops: 1008'/ 1148'):** *Spot 49 sxs Class B cement in a balanced plug inside casing to cover Ojo Alamo and Kirtland tops. PUH. WOC. TIH to confirm top of plug. Re- spot if necessary.*
3. **Plug #3, (50' to Surface):** *Mix approximately 12 sxs of cement. Spot the surface plug to cover a minimum of 50' to surface and top off as necessary.*
4. **ND BOP and cut off wellhead below surface casing flange per regulation. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.**

MUDGE LS 18

Proposed P&A

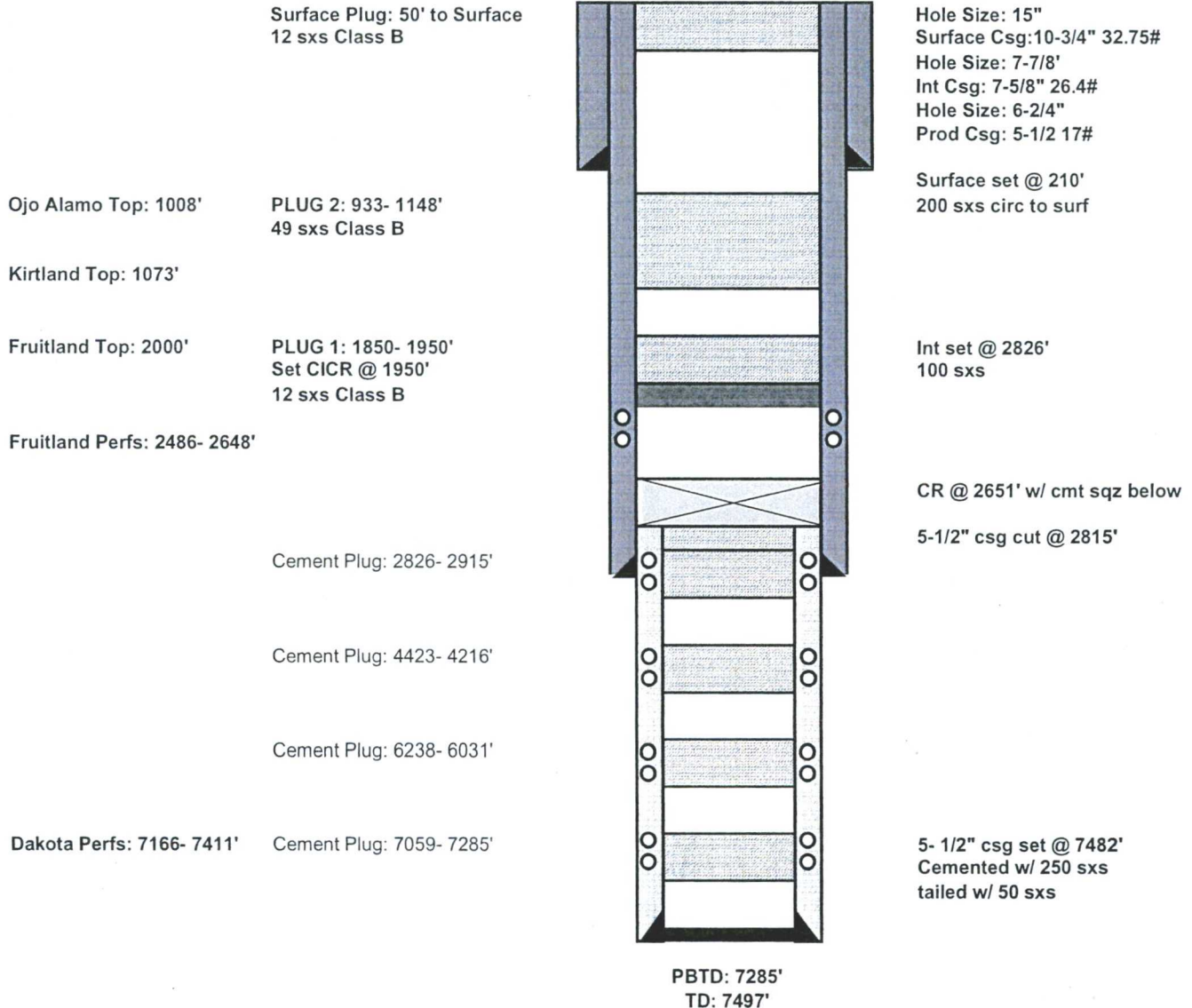
Fruitland Sand

1610' FNL & 1450' FEL, Section 15, T31N, R11W, San Juan County, NM

API 30-045-10744

Spud: 8/5/1960

Procedure Date: 1/9/2018



Well name and no: MUDGE LS 018
API No. 30-045-10744

Plugging & Abandonment Surface Reclamation Plan

Operator:	BP America	Location:	Sec.15, Twn: 31N, Range 11W
Well name & No:	MUDGE LS 018	County, State:	San Juan County, NM
API No:	30-045-10744	Revision:	0
Surface:	BLM		
Date:	8/1/2018		

This document outlines the final reclamation plan for the MUDGE LS 018 well site, API 30-045-10744, based on the BLM/BP on-site inspection conducted on 8/1/2018 and in accordance with Onshore Order No. 1 and the FFO Bare Soil Reclamation Procedures C (dated 2/2013).

PROPOSED VEGETATION RECLAMATION PLAN

General Notes:

- BP will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.
- BP will notify the BLM forty-eight (48) hours prior to commencing earthwork.
- BP will notify the Authorized Officer forty-eight (48) hours prior to commencing with seed application.
- All underground production piping on the well site belonging to BP, associated with the MUDGE LS 018 well, will be removed or abandoned-in-place if at depths greater than 36 inches.
- BP power poles, rectifier and/or radio equipment will be removed from the site.
NO POWER POLES IDENTIFIED DURING SITE VISIT
- All rig anchors found on location belonging to the MUDGE LS 018 will be removed.
- Disturbance will be limited to the well site and edge of well pad and access road boundaries.
- Disturbance will be limited to disturbance required to remove equipment and piping related to the MUDGE LS 018 well.
- All surface equipment associated with the MUDGE LS 018 identified and belonging to BP on location at time of P&A will be removed from location.
- BP has no authority to address other operator equipment or pipelines.
- BP will inform other Operators and Pipeline Companies of BLM/BIA equipment removal requests/requirements at the time of reclamation plan submission and when the MUDGE LS 018 P&A marker is set.
- All trash, if any, will be removed from location.
- The P&A marker will be permanent and comply with all NMOCD regulations.

Well Site Reclamation:

(Note: some steps may occur in a different sequence than listed below)

For future reference, pre-construction conditions are documented in the attached Inspection Form and shown in the attached photos.

- Temporary and / or permanent storm water and erosion control BMP's will be employed at appropriate locations around the pad as dictated by local drainage patterns and expected areas of disturbance, slopes and across the access road. BMP's selection will be determined by local factors and will be a combination of sediment and erosion controls that are deemed effective and low maintenance. Straw wattles, diversion ditches, mulch, soil blankets, and/or other suitable BMP's may be used in various

Well name and no: MUDGE LS 018

API No. 30-045-10744

combinations, as appropriate, during and after construction activities. Any temporary means to control storm water will be removed before final reclamation is achieved.

- Vegetation and approximately 6 inches of soil will be stripped and stockpiled to use after grading operations to facilitate re-vegetation.
- Gravel on the well site surface will be removed.
- If there is a BGT on location it will be properly closed per NMOCD Rules and the area will be reclaimed along-side the entire well pad.
- Fill material on the location will be used to reclaim the site to near original and natural topography as is practical. The pad will be ripped and will just be disc 4-6 inches to break any clods and prepare the location for seeding. This locations reclamation will include the road leading to the well site.
- Mature, healthy vegetation on the site perimeter will be left intact to the extent possible to achieve contour.
- Natural drainage patterns will be established when possible and practical. Additional means for ensuring proper drainage, such as water bars or diversion ditches, may be employed. The natural drainage patterns already in existence will be maintained and enhanced with the fill material on site.
- Disturbed areas will be prepared for seeding.
- A seed drill will be utilized to create a firm bed.
- After the site has been prepared, the location will be seeded using appropriate equipment.
- All disturbed areas will be seeded in accordance with the FFO Bare Soil Reclamation Procedure C.

Access Road Reclamation:

The road into this location will continue to serve other well and will be reconstructed through the reclamation area.

Re-vegetation:

The planned, initial seed mixture and application rates for the Badlands Community identified during the site visit will be as follows. The seed application rates may be adjusted according the based upon method of application.

Species of seed		Pound/Acre (PLS)
Fourwing Saltbush	Atriplex canescens	4.0
Antelope Bitterbrush	Purshia tridentata	2.0
Indian Ricegrass	Achnatherum hymenoides	5.0
Alkali sanction	Sporobolus airoides	0.5
Sand Dropseed	Sporobolus cryptandrus	1.0
Bottlebrush Squirreltail	Elymus elymoides	4.0
Scarlet Globemallow	Sphaeralcea coccinea	0.25
Mormon Tea	Ephedra viridis	2.0
Sage Brush		2.0
Rubber Rabbitbush	Ericameria nauseosa	2.0
Blue Grama	Bouteloua Gracilis	2.0

Seed mixtures will be certified weed-free and the seeding records (bag labels) or other official documentation will be available to the Authorized Officer prior to seeding upon request.

Well name and no: MUDGE LS 018

API No. 30-045-10744

Seeding will occur as soon as reasonably possible following completion of earthwork activities and timed for successful germination.

To prepare the site for seeding, only the seed drill will be necessary to create a firm bed. The seed mix is designed to be applied at 60 Total PLS per square foot which will ensure adequate stand density and diversity. Seeding will be completed using a no-till drill or Brillion drill seeder, this method allows for the handling of a wide variety of seed types and sizes in addition to establishing good seed to soil contact without undo disruption of the soil surface. Using a no till or Brillion drill also provides proper seed planting depth which will be approximately 1/8 inch.

Weed Management:

BP's objective is to implement an integrated weed management program to control weed populations and establish desirable vegetation. No noxious weeds were noted during the onsite visit.

Weed management and control will be performed by a properly licensed contractor and within full compliance of all federal and state laws and regulations.

Weed management and control will be performed in an environmental conscious manner using BMP's.

Monitoring:

BP will submit a Sundry Notice informing the BLM the earthwork and seeding is completed and requesting a joint inspection to examine the site.

Any fencing installed to assist with re-vegetation will be removed once there is agreement from the BLM that the vegetation percent cover standard has been attained.

Attachments:

- P&A Field Inspection Sheet performed on 8/1/2018.
- Aerial of location.

Well name and no: MUDGE LS 018
API No. 30-045-10744

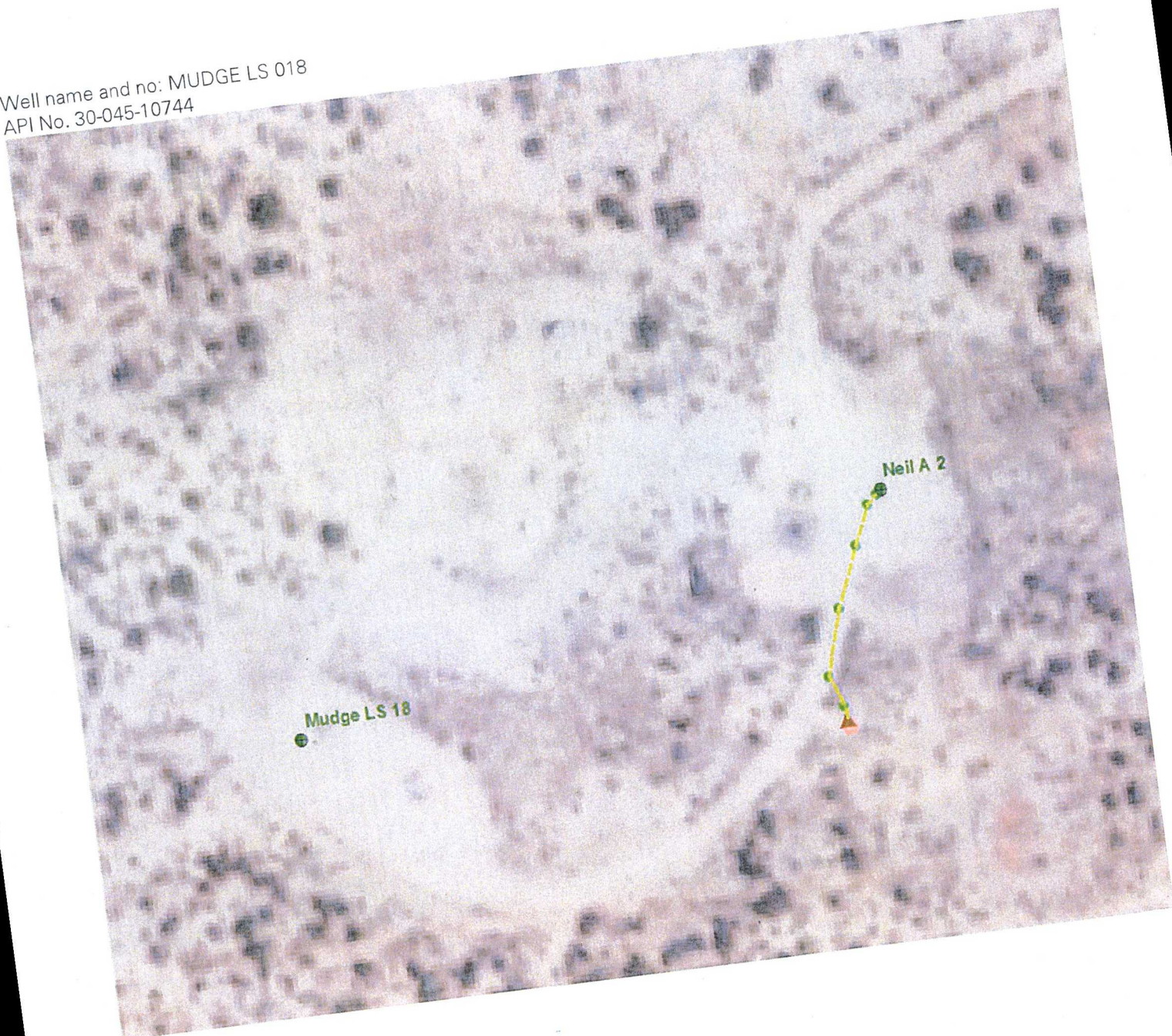
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Well name and no: MUDGE LS 018
API No. 30-045-10744



Well name and no: MUDGE LS 018
API No. 30-045-10744



BP L48 San Juan



P&A Field Inspection Sheet

Date: 8/2/2018				Specialist Sabre Beebe, BP: Randy McKee, BLM			
Operator: BP America				Well Name & Number: Mudge LS 018			
API Number: 30-045-10744				Section: 15		Township: 31N	
Lease Number: NMSF078051				Range: 11W			
				Footage: 1610 FNL FNL 1450 FEL			
				County: San Juan County		State: New Mexico	
Surface: BLM		Mineral: BLM		Twinned/Collocated:		No	
Active well name: N/A Active well API: N/A							

Well Pad

Topography: SLOPING		Stockpile Topsoil		No	
Soil Type: SANDY LOAM					
Vegetation Community: PINYON JUNIPER					
VEGETATION NOTED IN AREA SURROUNDING WELL PAD					
Sage Brush Four Wing Antelope Bitterbush Greasewood Mormon Tea Sand Drop Seed Indian Rice Grass Needle and Thread Rubber Rabbit Brush					

Vegetation Cages: No

Facilities on Location:

N/A Tanks

1 Meter Runs 94235 4 INCH

N/A Separators [Click here to enter text.](#)N/A Compressor [Click here to enter text.](#)N/A Day Tanks [Click here to enter text.](#)1 Pipeline riser belonging to: [Click here to enter text.](#)

Enterprise lines and risers on and near location that Enterprise will need to address as BP cannot address other Operator's equipment. BLM is requiring Enterprise riser and line need to be removed from location to ensure proper reclamation. The line is in the fill dirt.

1 RTU 2521

1 Solar Panel

2 Batteries

N/A Lift Equipment

Steel Pits: N/A: Where on Location:

Drip or possible Drip NO

Gravel Present: Yes Bury No

Place Gravel on Main Road: Yes

Cathodic Ground bed on location: No

In Service: N/A

Abandon: N/A

Plug: No

Remove Wire No

Remove Rectifier N/A

Power Poles: N/A

Remove Power Poles: N/A

Trash on location: No N/A

Construction Diversion Ditch: N/A

Side draining	Contaminated Soil: No
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Side draining	Remove: <input type="checkbox"/> Yes, where on location:

Construction Silt Trap(s): Yes, PLACEMENT TO BE DETERMINED DURING DIRT WORK

Re-Contour Disturbed Areas to Near Natural Terrain: Yes

Special Features: _____ Enterprise pipeline appears to be running in the fill dirt. _____

Location & Access Barricade: No / How: N/A

Construction Comments / Concern: Enterprise line in fill and road must be reconstructed through the reclamation as it provides access to the Neil A 22 well

Access Road

Access Length: N/A _____ Remediation Methods: ☐ Rip ☐ Disk ☐ Water Bars ☐ Re-establish Drainages

Other: _____ road must be reconstructed through the reclamation as it provides access to the Neil A 22 well _____

Access Condition: At Grade

Culverts: No

Cattle Guard: No

Reconstruct Fence: N/A

Surface Material: No

What to do with Material	REMOVE ALL MATERIAL / GRAVEL FROM LOCATION
Road Comments/Concerns	

Noxious weeds identified at time of on site? Yes , if yes list noxious weeds found Knapweed identified that will need to be addressed

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: Mudge LS 18

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a) Set Plug #1 (2321 – 2221) ft. to cover the Fruitland top. BLM picks top of Fruitland at 2271 ft.
 - b) Set Plug #2 (1180 – 1080) ft. to cover the Kirtland top. BLM picks top of Kirtland at 1130 ft.
 - c) Set Plug #3 (260 – 0) ft. to cover the surface casing shoe. Surface casing shoe at 210 ft.

Operator must run a CBL to verify cement top. Submit electronic copy of the log for verification to the following addresses: jwsavage@blm.gov Brandon.Powell@state.nm.us

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.