

Form 3160-5
(June 2015)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.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMSF078056
2. Name of Operator DJR OPERATING LLC		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
3a. Address 1 ROAD 3263 AZTEC, NM 87410		7. If Unit or CA/Agreement, Name and/or No. 8910060900
3b. Phone No. (include area code) Ph: 505-632-3476		8. Well Name and No. CENTRAL BISTI UNIT 18
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 8 T25N R12W NENW 0660FNL 1980FWL 36.421036 N Lat, 108.136322 W Lon		9. API Well No. 30-045-05510-00-S1
		10. Field and Pool or Exploratory Area BISTI LOWER GALLUP
		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 recompleat 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 recompleat 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.

DJR Operating, LLC requests permission to Plug & Abandon the subject well per the attached Procedure, Current & Proposed wellbore diagram and Reclamation Plan

Notify NMOCD 24hrs
Prior to beginning
operations

CBL Required

14. I hereby certify that the foregoing is true and correct. Electronic Submission #522020 verified by the BLM Well Information System For DJR OPERATING LLC, sent to the Farmington Committed to AFMSS for processing by GARY SMITH on 07/16/2020 (20GS0002SE)	
Name (Printed/Typed) SHAW-MARIE FORD	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 07/15/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JOE KILLINS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>11/18/2020</u>
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 <u>Farmington</u>

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 ****

Revisions to Operator-Submitted EC Data for Sundry Notice #522020

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	ABD NOI	ABD NOI
Lease:	NMSF078056	NMSF078056
Agreement:	NMNM78386X	8910060900 (NMNM78386X)
Operator:	DJR OPERATING LLC 1 ROAD 3263 AZTEC, NM 87413 Ph: 505-632-3476	DJR OPERATING LLC 1 ROAD 3263 AZTEC, NM 87410 Ph: 505-632-3476
Admin Contact:	SHAW-MARIE FORD REGULATORY SPECIALIST E-Mail: sford@djrlc.com Ph: 505-632-3476	SHAW-MARIE FORD REGULATORY SPECIALIST E-Mail: sford@djrlc.com Ph: 505-632-3476
Tech Contact:	SHAW-MARIE FORD REGULATORY SPECIALIST E-Mail: sford@djrlc.com Ph: 505-632-3476	SHAW-MARIE FORD REGULATORY SPECIALIST E-Mail: sford@djrlc.com Ph: 505-632-3476
Location: State: County:	NM SAN JUAN	NM SAN JUAN
Field/Pool:	BISTI LOWER GALLUP	BISTI LOWER GALLUP
Well/Facility:	CENTRAL BISTI UNIT 18 Sec 8 T25N R12W NENW 660FNL 1980FWL 36.421138 N Lat, 108.137031 W Lon	CENTRAL BISTI UNIT 18 Sec 8 T25N R12W NENW 0660FNL 1980FWL 36.421036 N Lat, 108.136322 W Lon

Plug and Abandonment Procedure
for
DJR Operating, LLC
Central Bisti Unit # 18
API # 30-045-05510
NE/NW, Unit C, Sec. 08, T25N, R12W
San Juan County, NM

Note: This well was drilled and cased with 5.5" 14# casing, leaks developed in the 5.5" casing and 4.5# flush joint casing was run from surface to 4756' and cemented.

I.

1. Hold Pre job meeting, comply with all NMOCD, BLM and environmental regulations.
2. MIRU prep rig.
3. Check and record tubing, casing and bradenhead pressures.
4. Remove existing piping from casing valve, RU blow lines from casing valves and blow down casing pressure. Kill well as necessary. Ensure that well is dead or on a vacuum.
5. MIRU hot oil unit, pump hot water to clear rods and tubing of paraffin.
6. Trip out of hole with rods and pump. Lay down to be sent in for storage/salvage.
7. Unset TAC.
8. ND WH, NU BOP, function test BOP.
9. Trip out of hole with 2 3/8" tubing. LD tubing to be sent in for storage/salvage.
10. RDMO prep rig to next location.

II.

11. MIRU P&A rig and equipment.
12. PU workstring, TIH with 4 1/2" bit and scraper, make sure that the bit and scraper will go to **4700'**. TOOH.

13. PU and RIH with a 4 ½" cement retainer. Set the CR at +/- 4700'. Pressure test tubing to 1000 psi, sting out of CR, load and roll the hole, test casing to 600 psi. If casing does not test, contact engineering. TOOH.
14. MIRU logging truck. Run CBL log from 4700' to surface. Hold 600 psi on casing if possible. Electronic copy of CBL to be sent to; Brandon Powell, NMOCD Brandon.Powell@state.nm.us, Joe Killins, BLM jkillins@blm.gov, John Hoffman, BLM jhoffman@blm.gov and Loren Diede, DJR ldiede@djrlc.com.
15. TIH with workstring to 4700'.
16. Plug 1. Mix and attempt to place 35 sx class G cement through CR, into Gallup perforations. If zone pressures up, sting out of CR, place cement above retainer and continue to plug 2.
17. Plug 2. Gallup; RU cement equipment, pump water to assure that tubing is clear. Mix and spot a 100' balanced plug of class G cement from 4700' to 4600'.
18. Plug 3. Mancos; Mix and spot a 100' balanced plug of class G cement from 3830' to 3730'.
19. Plug 4. Mesa Verde; Mix and spot a 100' balanced plug of class G cement from 1938' to 1838'.
20. Plug 5. Chacra, depending on the results of the CBL, mix and spot a 100' balanced plug of class G cement from 1540' to 1440'. (may be inside/outside).
21. Depending on the results of the CBL the following may be inside/outside plugs.
22. If to be inside/outside, then perforate holes at 1258'.
23. Set CR at 780'.
24. Plug 6: Pictured Cliffs and Fruitland, attempt to establish circulation to surface. Pump enough class G cement through CR, attempt to place a plug from 1258' to 780' outside the casing. Sting out of CR and spot class G cement inside casing from 1258' to 780'.
25. Perforate holes at 600'.
26. Set DR at 600'.
27. Attempt to establish circulation to surface.

28. Plug 7: Kirtland, attempt to establish circulation to surface. Pump enough class G cement through CR, attempt to place a plug from 600' to 500' outside the casing. Sting out of CR and spot class G cement inside casing from 600' to 500'.
29. Perforate holes at 254'.
30. Attempt to establish circulation to surface.
31. Plug 8: Surface shoe to surface, pump cement inside and outside from 254' to surface with class G cement or until circulation is established.
32. RD cementing equipment. Cut off wellhead, fill any exposed annulus with cement as necessary. Install P&A marker as per regulatory requirements. Record GPS coordinates for P&A marker and the Final P&A Report. Photograph the P&A marker and attach to the report.
33. RD and MO all rig and cement equipment. Assure that location is free of trash and contamination before moving off.
34. Send all reports and attachments to DJR Aztec office for regulatory filings.

Note: All cement is to be Class G mixed at 15.8 ppg, yield 1.15 cu ft / sx. Cement volumes are based on inside capacities +50' excess and outside capacities + 100% excess.

**Current Wellbore Diagram
DJR Operating, LLC
Central Bisti Unit # 18**

API # 30-045-05510
NE/NW, Unit C, Sec 08, T25N, R12W
San Juan County, NM

GL 6194'
KB 6207'
Spud Date 7/7/1956

SURF CSG

Hole size 12.25"
Csg Size: 8.625"
Wt: 24#
Grade: N/A
ID: 8.097"
Depth 204'
Csg cap ft³: 0.3576
TOC: Surf

FORMATION TOPS

Nacimiento	Surface
Ojo Alamo	
Kirtland	550'
Fruitland	830'
Pictured Cliffs	1208'
Chacra	1490'
Mesa Verde	1888'
Mancos	3780'
Gallup	4692'

PROD CSG

Hole size 7.875"
Csg Size: 5.5"
Wt: 14#
Grade: N/A
ID: 5.012"
Depth 4960'
Csg cap ft³: 0.137
Csg/Csg 0.1926
Ann ft³:
Csg/OH cap
ft³: 0.1732
TOC: 3725'
TS

4.5" FJ inside 5.5"	
14#	
ID.	4.052"
Csg cap ft ³ :	0.0895

PROD TBG DETAIL:

2 3/8	4894'
SN	4859'
TAC	4587'

1 1/4 x 22 polish rod

7/8" ponies, 6,6,8,2

7/8" plain 55

3/4" guided 18

3/4" plain 116

1 1/4" sinker bars 4

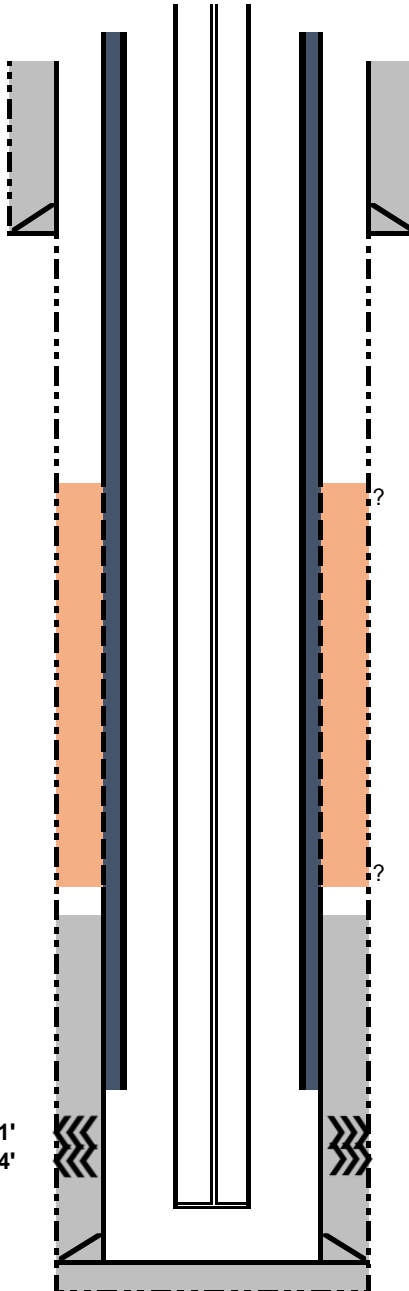
RWAC 2x1 1/2x16

The 5.5" csg developed leaks from 1500' to 3400'. 4 1/2" FJ set @ 4756', Mar-1965. Cemented with 110 sx POZ +45 sc class C. SI and last 45 sx squeezed into 5.5" casing leaks

Original TOC 3725' TS

Perfs 4823'-4831'
4862'-4884'

PBTD
TD 4960'



Proposed PXA Wellbore Diagram

DJR Operating, LLC

Central Bisti Unit # 18

API # 30-045-05510

NE/NW, Unit C, Sec 08, T25N, R12W

San Juan County, NM

GL 6194'
 KB 6207'
 Spud Date 7/7/1956

SURF CSG

Hole size 12.25"
 Csg Size: 8.625"
 Wt: 24#
 Grade: N/A
 ID: 8.097"
 Depth 204'
 Csg cap ft³: 0.3576
 TOC: Surf

FORMATION TOPS

Nacimiento	Surface
Ojo Alamo	352
Kirtland	475
Fruitland	830'
Pictured Cliffs	1140 1208'
Chacra	1490'
Mesa Verde	1888'
Mancos	3780'
Gallup	4692'

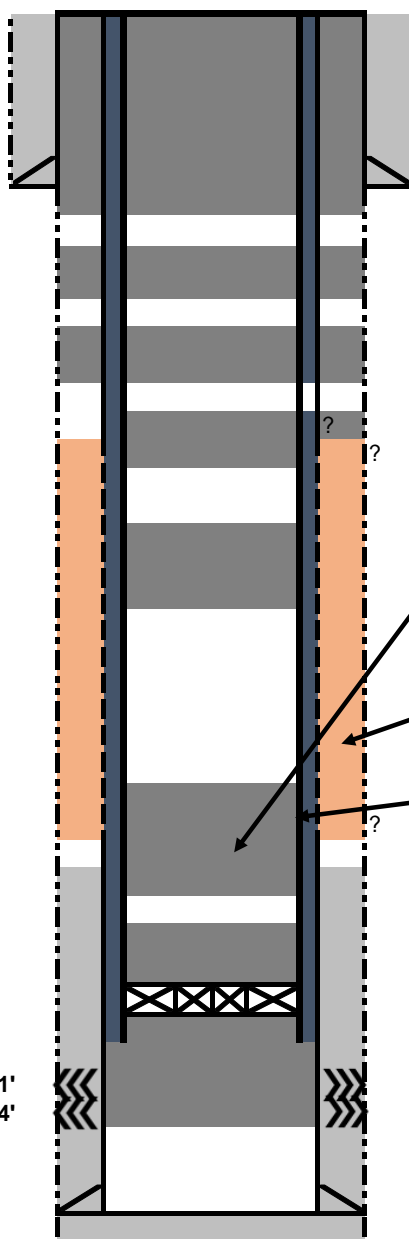
PROD CSG

Hole size 7.875"
 Csg Size: 5.5"
 Wt: 14#
 Grade: N/A
 ID: 5.012"
 Depth 4960'
 Csg cap ft³: 0.137
 Csg/Csg 0.1926
 Ann ft³:
 Csg/OH cap 0.1732
 ft³:
 TOC: 3725'
 TS

4.5" FJ inside 5.5"
 14#
 ID. 4.052"
 Csg cap ft³: 0.0895

Perfs 4823'-4831'
 4862'-4884'

PBTD
 TD 4960'



Plug 8: Surface shoe to surface,
 Pump 254' plug inside/outside from
 254' to surface. (Depending on CBL)

Plug 7: Kirtland, Pump 100' plug
 inside/outside from 600' to 500'.
 Depending on CBL.

Plug 6: Pictured Cliffs and Fruitland,
 Depending on results of CBL, pump 478'
 plug, inside/outside from 1258' to 780'
 (Depending on CBL)

Plug 5: Chacra, Depending results of
 CBL log, pump 100' balanced plug
 inside(or outside) from 1540' to 1440'.

Plug 4: Mesa Verde, Pump 100'
 balanced plug of class G cement from
 1938' to 1838'.

Plug 3: Mancos, Pump 100' balanced
 plug of class G cement from 3830' to
 3730'.

The 5.5" csg developed leaks from
 1500' to 3400'. 4 1/2" FJ set @
 4756', Mar-1965. Cemented with 110
 sx POZ +45 sc class C. SI and last
 45 sx squeezed into 5.5" casing leaks

Original TOC 3725' TS

Plug 2: Pump 100' balanced plug of
 class G cement from 4700' to 4600'.

CR 4700'

Plug 1: Mix and attempt to place 35 sx
 class G cement through CR and into
 Gallup perfs.

Central Bisti Unit #18

General Reclamation Plan Narrative

On March 12, 2020 an onsite to discuss surface reclamation plan was conducted with attendees Randy McKee of the BLM FFO, DJR representatives, Vance Hixon and Tim Huerter.

Reclamation work will begin in 2020 (date to be determined), and after submitted approved plugging Sundry. Notification will be provided via e-mail or by phone to Randy McKee, rmckee@blm.gov and cell 505-793-1834, 48 hours prior to starting dirt work.

The following was discussed:

All fences (if any), production equipment, concrete slabs, anchors, flow lines (within pad area) risers if any (cut off at pipeline depth), tanks, will be removed off the DRJ pad and will be disposed of at the proper facilities. Any debris and trash on the well site and 100' around the outside of the well site perimeter will be removed and disposed of at the proper facility. There is a 1' pipeline running of the pad to the northeast for approximately 950' which will need to be removed when the equipment is stripped.

Well site piping risers will be cut off 3' below grade, where the piping depth is less than 3' that piping will be removed from the ground. There is no meter building on location so the pipeline tie-in point will need further investigation to determine where it is and to determine how best to isolate.

Re-contouring will consist of moving material from the southwest and northwest side of the location to spread over the long-term portion of the pad. The access road is approximately 500' and is at grade. After the dirt work is complete and topsoil is distributed the disturbed areas will be seeded and mulched.

Where cut and fill are happening on location during re-contouring the topsoil will be stripped from these areas and then replaced after re-contouring is complete.

A barrier fence with signage will be installed to protect the reclaimed area.

All seed will be distributed via drill seeding. All ripping on the well site to loosen compacted soils and drill seeding will be done following the contours to minimize water erosion. All ripping on access roads and drill seeding will be done following the contours to minimize water erosion.

Straw mulch (i.e. barley, wheat, oat, etc.) will be uniformly applied and crimped on the reclaimed areas of the well site and access road.



Amended Reclamation Plan: Inspection

Date: <u>3/12/2020</u>		Well Name and Number: <u>Central Bisti Unit #18</u>	
Operator: <u>DJR</u>	Sec: <u>8</u>	T: <u>25</u>	R: <u>12</u>
API #: <u>30-045-05510</u>	Footage: <u>660' FNL</u> <u>1980' FWL</u>		
Lease #: <u>SF 078056</u>	County: <u>San Juan</u>	State: <u>NM</u>	
Lat: <u>36.4211</u>	Long: <u>-108.137</u>	Twinned: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Surface: <input checked="" type="checkbox"/> BLM <input type="checkbox"/> BOR <input type="checkbox"/> STATE <input type="checkbox"/> PRIVATE/BLM			
Specialist/Representatives: <u>Randy McKee, Vance Hixon and Tim Huerter</u>			

WELL PAD	
Topography: <input type="checkbox"/> Hilly <input type="checkbox"/> Flat <input checked="" type="checkbox"/> Rolling <input type="checkbox"/> Sloped	Stockpiled Soil: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Soil Type: <input type="checkbox"/> Clay <input type="checkbox"/> Sandy Clay <input type="checkbox"/> Sandy Clay Loam <input type="checkbox"/> Clay Loam <input type="checkbox"/> Silty Clay Loam	
<input type="checkbox"/> Loam <input type="checkbox"/> Silt Loam <input checked="" type="checkbox"/> Sandy Loam <input type="checkbox"/> Loamy Sand <input checked="" type="checkbox"/> Sandy <input type="checkbox"/> Silty	

Comments: _____

Seed Mix:	Vegetation Cage: <input type="checkbox"/> YES <input type="checkbox"/> NO	
<input type="checkbox"/> Alkali Sacaton @ 1.25 #/acre	<input checked="" type="checkbox"/> Indian Ricegrass @ 4.75 #/acre	<input type="checkbox"/> Winterfat @ 2.0 #/acre
<input type="checkbox"/> Antelope Bitterbrush @ 1.5 #/acre	<input type="checkbox"/> Mormon Tea @ 2.0 #/acre	<input type="checkbox"/> Ring Muley @ 2.0 #/acre
<input type="checkbox"/> Big Sagebrush @ 0.025 #/acre	<input type="checkbox"/> Needle-and-Thread @ 7.5 #/acre	<input type="checkbox"/> Sand Sage @ 0.05 #/acre
<input type="checkbox"/> Black Grama @ 1.75 #/acre	<input checked="" type="checkbox"/> Sand Dopeed @ 0.75 #/acre	
<input checked="" type="checkbox"/> Blue Grama @ 3.75 #/acre	<input checked="" type="checkbox"/> Rocky Mountain Bee Plant @ 12 #/acre	
<input type="checkbox"/> Bottlebrush Squirreltail @ 9.0 #/acre	<input type="checkbox"/> Sadscale @ 2.0 #/acre	
<input checked="" type="checkbox"/> Fourwing Saltbush @ 4.0 #/acre	<input type="checkbox"/> Sideoats Grama @ 4.75 #/acre	
<input checked="" type="checkbox"/> Galleta @ 5.5 #/acre	<input checked="" type="checkbox"/> Western Wheatgrass @ 6.0 #/acre	

Facilities on Location:	<input type="checkbox"/> TANKS	<input type="checkbox"/> METER RUN	<input type="checkbox"/> SEPERATOR	<input type="checkbox"/> COMPRESSOR(S)
	<input checked="" type="checkbox"/> PUMPING UNIT(S) & PAD(S)	<input type="checkbox"/> DAY TANK(S)	<input type="checkbox"/> RISER(S)	

Gravel Present: ☐ YES ☒ NO Bury: ☐ YES ☐ NO Spread on Roads: ☐ YES ☐ NO

Steel Pits: ☐ AGL ☐ BGL ☒ NONE Where On Location: _____

Cathodic on Location: ☐ YES ☒ NO In Service: ☐ YES ☐ NO Abandoned: ☐ YES ☐ NO

Plugged: ☐ YES ☐ NO Remove Wire: ☐ YES ☐ NO Remove Rectifier: ☐ YES ☐ NO

Remove Trash From Location: ☒ YES ☐ NO Power Pole(s) Present: ☐ YES ☐ NO

Remove Pole (s): ☐ YES ☐ NO

Construct Diversion Ditch:	<input type="checkbox"/> N	<input type="checkbox"/> N/W	<input type="checkbox"/> N/E	<input type="checkbox"/> E	<input type="checkbox"/> N/E	<input type="checkbox"/> S/E	<input type="checkbox"/> S	<input type="checkbox"/> S/E	<input type="checkbox"/> S/W
	<input type="checkbox"/> W	<input type="checkbox"/> N/W	<input type="checkbox"/> S/W	<input type="checkbox"/> Above	<input type="checkbox"/> Below	<input type="checkbox"/> Around	Drawing: <input type="checkbox"/> North <input type="checkbox"/> South		
	<input checked="" type="checkbox"/> As Needed						<input type="checkbox"/> N/A <input type="checkbox"/> East <input type="checkbox"/> West		

Notes: _____

Amended Reclamation Plan: Inspection

Contaminated Soil: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Where On Location: <u>At the wellhead</u>	
Remove Contaminated Soil: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Construct Silt Trap(s):			
<input type="checkbox"/> N <input type="checkbox"/> N/W <input type="checkbox"/> N/E <input type="checkbox"/> E <input type="checkbox"/> N/E <input type="checkbox"/> S/E <input type="checkbox"/> S <input type="checkbox"/> S/E <input type="checkbox"/> S/W <input type="checkbox"/> W <input type="checkbox"/> N/W <input type="checkbox"/> S/W <input type="checkbox"/> N/A <input type="checkbox"/> As Needed			
Re-Contour Disturbed Areas to Natural Terrain: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A			
Location/Barricades:		Fencing: # Feet- <u>50'</u> <input type="checkbox"/> Berms <input type="checkbox"/> Natural Materials	
Notes: Special Features or Construction Comments/concerns	At a minimum wellsites will need to have a fence barricade put up to stop access		
	to the reclaimed site. Barricade fence will need to be put up at the access road.		
Access Road			
Approximate Length: <u>500'</u>		Remediation Method: <input checked="" type="checkbox"/> Rip <input type="checkbox"/> Disc <input type="checkbox"/> Divots	
		<input checked="" type="checkbox"/> Re-Establish Drainage	
Access Topography: <input type="checkbox"/> Above Grade <input type="checkbox"/> Below Grade <input checked="" type="checkbox"/> At Grade		Other: _____	
Culverts: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Cattle Guards: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
		Re-Construct Fence: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Surfacing Material: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Remove Material To: _____	
Additional Comments/Concerns: _____			
Pipeline			
Owner: <input type="checkbox"/> Enterprise <input type="checkbox"/> Williams <input checked="" type="checkbox"/> DJR		Other: _____	
P/L Location: _____		No meter building on site so P/L will need investigated for removal.	
Riser Relocate: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Cut Off Below Grade			
Relocate to: _____			
Additional Note:		1" pipeline that runs off the site to the east for approximately 900' will need to be removed when equipment is stripped.	

**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: EC#522023

Re: Permanent Abandonment
Well: Central Bisti Unit 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. Plug # 7 (Kirtland formation) should be adjusted to cover BLM formation top pick @ 475'. (425 – 525)
4. Plug #8 (surface shoe to surface) should be adjusted to cover Ojo Alamo formation top pick @ 352'. (surface to 402)

BLM FLUID MINERALS Geologic Report

Date Completed: 11/2/2020

Well No. Central Bisti Unit #018 (API# 30-045-05510)	Location	660	FNL &	1980	FWL
Lease No. NMSF-078056	Sec. 08	T25N			R12W
Operator DJR Operating, LLC	County	San Juan	State	New Mexico	
Total Depth 4960	PBTD 4960	Formation	Gallup		
Elevation (GL) 6194	Elevation (KB) 6207				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/Fresh water sands
Nacimiento Fm			Surface	352	Fresh water sands
Ojo Alamo Ss			352	475	Aquifer (fresh water)
Kirtland Shale			475	830	
Fruitland Fm			830	1140	Coal/Gas/Possible water
Pictured Cliffs Ss			1140	1316	Gas
Lewis Shale			1316	1490	
Chacra			1490	1888	
Cliff House Ss			1888	2062	Water/Possible gas
Menefee Fm			2062	3612	Coal/Ss/Water/Possible O&G
Point Lookout Ss			3612	3780	Probable water/Possible O&G
Mancos Shale			3780	4692	
Gallup			4692	PBTD	O&G/Water
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

P & A

- BLM geologist's formation top picks for the Ojo Alamo, Kirtland and Pictured Cliffs vary from operator's.
- Plug #6 (Pictured Cliffs and Fruitland formations) is adequate to cover BLM formation top pick for the Pictured Cliffs @ 1140'.

- Plug # 7 (Kirtland formation) should be adjusted to cover BLM formation top pick @ 475'.

- Plug #8 (surface shoe to surface) should be adjusted to cover Ojo Alamo formation top pick @ 352'.

- Log analysis of reference well #2 indicates the Nacimiento and Ojo Alamo sands investigated likely contain fresh water ($\leq 5,000$ ppm TDS). By adjusting Plug #8 to cover the Ojo Alamo top, fresh water sands in the well bore will be protected.

Reference Well:

1) Same

Fm. Tops

2) Giant E & P Co.
Carson Unit #23
1980' FSL, 1980' FEL
Sec. 19, T25N, R11W
GL 6438' KB 6447'

Water
Analysis

Prepared by: Chris Wenman

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 12708

COMMENTS

Operator:	DJR OPERATING, LLC	1 Road 3263	Aztec, NM87410	OGRID:	371838	Action Number:	12708	Action Type:	C-103F
Created By	Comment			Comment Date					
ahvermersch	CBL Required			12/18/2020					

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM87410			OGRID: 371838	Action Number: 12708	Action Type: C-103F
OCD Reviewer			Condition		
ahvermersch			None		