U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

06/24/2022

Well Name: BLACKROCK D COM

Well Location: T26N / R11W / SEC 20 / SESW / 36.46845 / -108.02988

County or Parish/State: SAN JUAN / NM

Well Number: 1E

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078899

Unit or CA Name: W/2 - FRCL

Unit or CA Number: NMNM103021

US Well Number: 3004523623

Well Status: Inactive

Operator: MUSTANG RESOURCES LLC

Notice of Intent

Sundry ID: 2678450

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 06/23/2022

Time Sundry Submitted: 09:25

Date proposed operation will begin: 07/17/2022

Procedure Description: Mustang intends to Plug and Abandon the Blackrock D Com 1E. Please find attached: -Pre and Post Well Bore Diagrams -Proposed Procedure -Cement Calculations This location is Navajo Nation Tribal Trust Surface.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Blackrock_D_1E_PxA_Proposed_Procedures__05_22_20220623092521.pdf

Blackrock_D_1E_Pre_and_Post_WBD_20220623092507.pdf

Well Name: BLACKROCK D COM

Well Location: T26N / R11W / SEC 20 / SESW / 36.46845 / -108.02988

County or Parish/State: SAN JUAN / NM

Well Number: 1E

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078899

Unit or CA Name: W/2 - FRCL

Unit or CA Number: NMNM103021

US Well Number: 3004523623

Well Status: Inactive

Operator: MUSTANG RESOURCES LLC

Conditions of Approval

Additional

General_Requirement_PxA_20220623161323.pdf

2678450_NOIA_BLACKROCK_D_COM_1E_3004523623_KR_06232022_20220623161313.pdf

26N11W20NKd_Blackrock_D_Com_1E_20220623155952.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: DEB LEMON

Signed on: JUN 23, 2022 09:25 AM

Name: MUSTANG RESOURCES LLC

Title: RegulatoryManager

Street Address: 1660 Lincoln St., Ste 1450

City: Denver **State:** CO

Phone: (720) 550-7507

Email address: dlemon@mustangresourcesllc.com

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 06/23/2022

Signature: Kenneth Rennick

BLM FLUID MINERALS
P&A Geologic Report

Date Completed: 06/23/2022

Well No. Blackrock D Com #1E (API# 30-045-23623)		Location	790 FSL	&	1650 FWL	
Lease No. NMSF078899		Sec. 20	T26N		R11W	
Operator Mustang Resources, LLC		County	San Juan	State	New Mexico	
Total Depth 6130’	PBTD 1900’	Formation	Fruitland Coal (producing)			
Elevation (GL)		Elevation (KB)	6169’			

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento	Surface	254			Surface/Possible freshwater sands
Ojo Alamo Ss	254	398			Aquifer (possible freshwater)
Kirtland Shale	398	1013			Possible gas
Fruitland	1013	1360			Coal/Gas/Water
Pictured Cliffs Ss	1360	1502			Probable Gas
Lewis Shale	1502	PBTD			
Chacra					
Cliff House Ss					
Menefee					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:
P & A

- Well was originally drilled into the Dakota, plugged back to the Fruitland Coal in 1999.
- Combine Plug #4 (Kirtland and Ojo) and Plug #5 (Surface) to cover the interval from 50’ below the bottom of the surface casing shoe to surface, as well as the Kirtland and Ojo tops.
- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Fruitland Coal perfs 1304’ – 1324’.

Reference Well:
1) **Formation Tops**
Same

Prepared by: *Chris Wenman*

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

AFMSS 2 Sundry ID 2678450

Attachment to notice of Intention to Abandon

Well: BLACK ROCK D COM 1E

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. Before or within 30 days after completing work, Mustang Resources LLC must contact a Farmington Field Office surface inspection staff to schedule a reclamation onsite.

4. The following modifications to your plugging program are to be made:

a) Combine Plug #4 (Kirtland and Ojo) and Plug #5 (Surface) to cover the interval from 50’ below the bottom of the surface casing shoe to surface, as well as the Kirtland and Ojo tops.

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.

K. Rennick 06/23/2022

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

Co Name: Mustang Resources LLC
Well Name: Blackrock D Com 1E
API Number: 30-045-23623
Location: 790' FSL, 1650' FWL, Sec 20, T26N, R11W
County: San Juan, NM

Note: Follow all BLM/NMOCD Rules and Regulations.

4-1/2", 10.5#	Capacity	0.0896	ft3/ft	2-3/8", 4.7#	Capacity	0.0217	ft3/ft
		0.0159	bbl/ft			0.0039	bbl/ft
	ID	4.052	Inches			1.995	Inches

Step	Description
	Proposed P&A Procedure
1	Back drag & clean location for crew & rig safety. Test anchors if needed, arrange for H20 on site
2	Prior to rig, verify wellhead conncections for any flanges and BOPE necessary.
3	**Notify NMOCD/BLM 48 hours before commencing P&A operations**
4	MIRU well service rig and associated P&A equipment
5	Bleed pressure from well
6	ND WH & NU BOP
7	TIH 2-3/8" Tbg to 1900' (prior fill) (current tubing is at 1481')
8	TOH 2-3/8" Tubing
9	TIH with 4.5" 10.5# casing scraper to 1900' w/2-3/8" tubing (tag fill)
10	Load hole with water, most likely will not circulate
11	TOH with 4.5" casing scraper
12	NOTE: Found no record of previous CBL or cement circulation to surface
13	Run CBL from 1900 to water height (FC perfs may not allow circulation)(NOTE: DV tool @ 1520')
14	If CBL demonstrates good annulas cement up to FC Perfs - TIH w 2-3/8" tubing to 1900'
15	**Plug 1: Lewis Shale Top @ 1502' and Pictured Cliff Top @ 1360', with 2 3/8" tbg @ 1552', won't be able to circulate hole so place balanced plug mixing 18.25 sx (22. 76 ft3) cement plus 50' excess (1.64 sx (2.23 ft3)), TOH with 2 3/8" tbg to 1270' and pump 2 bbls water down tubing and casing.**
16	The 4 bbls of water down casing and tubing is to clean out any cement on tubing & clean to FC perfs.
17	Wait 4 hours and tag TOC, if good tag continue
18	TIH w/2-3/8" tubing and Set CR at 1260', establish injection rate into FC perfs
19	Sting out of CR, circulate hole full of water, and pressure test casing to 600 psi for 30 minutes
20	Sting into CR and ensure pumping into perfs
21	**Plug 2: Fruitland Coal Perfs 1304'-1324", with CR @ 1260', sting into CR and pump 4.19 sx (5.73 cf) cement plus 100% excess, sting out of CR to 1255'**
22	Sting out of CR and circulate hole clean
23	TOH with Tubing and setting tool
24	Fill hole full of water
25	Run CBL from 1255 to surface to determine TOC
26	Depending on TOC the below procedures may possibly change. Continue by TIH with 2-3/8" tubing to 1255'
27	**Plug 3: Fruitland Coal Top @ 1013' & CR Cap @ 1260', with 2 3/8" tbg @ 1255', place balanced plug mixing 19.10 sx (26.16 cf) cement plus 50' capacity excess, 1.64 sx (2.24 cf)**
28	TOH wih 2-3/8" tubing to 448' and circulate hole clean
29	**Plug 4: Kirtland Shale Top @ 398' and Ojo Alamo Top @ 254'. With 2-3/8" tbg @ 448' place balanced plug mixing 15.96 sx (21.86 ft3) plus 50' capacity excess 1.64 sx (2.24 ft3)**
30	TOH with Tbg to 125' and circulate hole clean
31	**Plug 5: Surface Cap 125' to surface - With 2 3/8" tubing at 125' mix balanced plug mixing 8.18 sx (11.2 ft3), TOH all tubing. Wait 4 hours and top of casing strings with required cement**
32	ND BOP, cut off casing, install P&A Marker to comply with regulations
33	Top off casing strings as needed.
34	RD and move rig

Blackrock D Com 1E

Proposed PxA Calculations

Proposed P&A Well Calculations

OH/Casing/Tubing Details

4-1/2", 10.5# K-55	Capacity	0.0896	ft3/ft	2-3/8", 4.7#	Capacity	0.0217	ft3/ft
		0.0159	bbl/ft			0.0039	bbl/ft
	ID	4.052	Inches		drift	1.995	Inches
8-5/8", 24# K55	Capacity	0.2471	ft3/ft		Landed @	1481	feet KB
		0.0440	bbl/ft				
	ID	8.097	Inches				

NOTE: Each Cement Job required to place cement as follows

1. OD of pipe 50' below and 50' above Formation Top with 100% excess
2. ID of pipe 50' below and 50' above Formation Top with 50% excess
3. ALL cement will be Type III, Density 14.6 ppg and Yield 1.37 cf/sx

Plug 1:

Lewis Shale & Pictured Cliff	Formation Tops	1502' & 1348'	ft		
Bttm of plug	1552	Cement Top	1298		
Open Hole Capacity (NA-cemented to Surface)				254	feet plus 50% excess

sxs			Inside Pipe Capacity
16.61	ft3	22.7584	
1.64	ft3	2.24	50' capacity excess
	ft3	**24.9984**	**Total ft3 Inside Pipe**
	ft3	**25**	**Rounded up**
	bbls	**4.45**	**Total BBLS**
	SXS	**18.25**	**Total Sxs Cement**

Total Sxs Cement 18.25

Plug 1: Lewis Shale Top @ 1502' and Pictured Cliff Top @ 1360', with 2 3/8" tbg @ 1552', won't be able to circulate hole so place balanced plug mixing 18.25 sx (22. 76 ft3) cement plus 50' excess (1.64 sx (2.23 ft3)), TOH with 2 3/8" tbg to 1270' and pump 2 bbls water down tubing and casing.

Plug 2:

Fruitland Coal Perfs	Perfs	20	ft	1304' -1324'	
Bttm of plug At CR	1260	Cmt bottom	1324		
Open Hole Capacity (Depends on CBL)				64	feet plus 100% excess

sxs			Inside Pipe Capacity
4.19	ft3	5.7344	100' Inside Casing
4.19	ft3	5.7344	100% excess
	ft3	**11.4688**	**Total ft3 Inside Pipe**
	ft3	**12**	**Rounded up**
	bbls	**2.14**	**Total BBLS**
	SXS	**8.76**	**Total Sxs Cement**

Total Sxs Cement 8.76

Plug 2: Fruitland Coal Perfs 1304'-1324", with CR @ 1260', sting into CR and pump 4.19 sx (5.73 cf) cement plus 100% excess, sting out of CR to 1255' and circulate hole clean, place balance plug on top of CR

Plug 3:

Fruitland Coal & CR Cap	FC Formation Top	1013	ft		
Bttm of plug At CR	1255	Cement Top	963		
Open Hole Capacity (Depends on CBL)				292	feet plus 50' capacity excess

sxs			Inside Pipe Capacity
19.10	ft3	26.1632	
1.64	ft3	2.24	50' capacity excess
	ft3	**28.4032**	**Total ft3 Inside Pipe**
	ft3	**29**	**Rounded up**
	bbls	**5.16**	**Total BBLS**
	SXS	**21.17**	**Total Sxs Cement**

Total Sxs Cement 21.17

Plug 3: Fruitland Coal Top @ 1013' & CR Cap @ 1260', with 2 3/8" tbg @ 1255', place balanced plug mixing 19.10 sx (26.16 cf) cement plus 50' capacity excess, 1.64 sx (2.24 cf), TOH with 2 3/8" tbg to 448' and circulate hole clean.

Plug 4:

Kirtland Shale & Ojo Alamo	Formation Top	398	ft		
Bttm of plug	448	Cement Top	204	244	feet plus 50' capacity excess

Blackrock D Com 1E

Proposed PxA Calculations

Open Hole Capacity (Depends of CBL)	sxs	Inside Pipe Capacity		
	15.96	ft3	21.8624	100' Inside Casing
	1.64	ft3	2.24	50' Capacity excess
		ft3	**24.1024**	**Total ft3 Inside Pipe**
		ft3	**25**	**Rounded up**
		bbls	**4.45**	**Total BBLS**
		SXS	**18.25**	**Total Sxs Cement**

Total Sxs Cement 18.25

Plug 4: Kirtland Shale Top @ 398' and Ojo Alamo Top @ 254'. With 2-3/8" tbg @ 448' place balanced plug mixing 15.96 sx (21.86 ft3) plus 50' capacity excess 1.64 sx (2.24 ft3), TOH with Tbg to 150' and circulate hole clean

Plug 5:

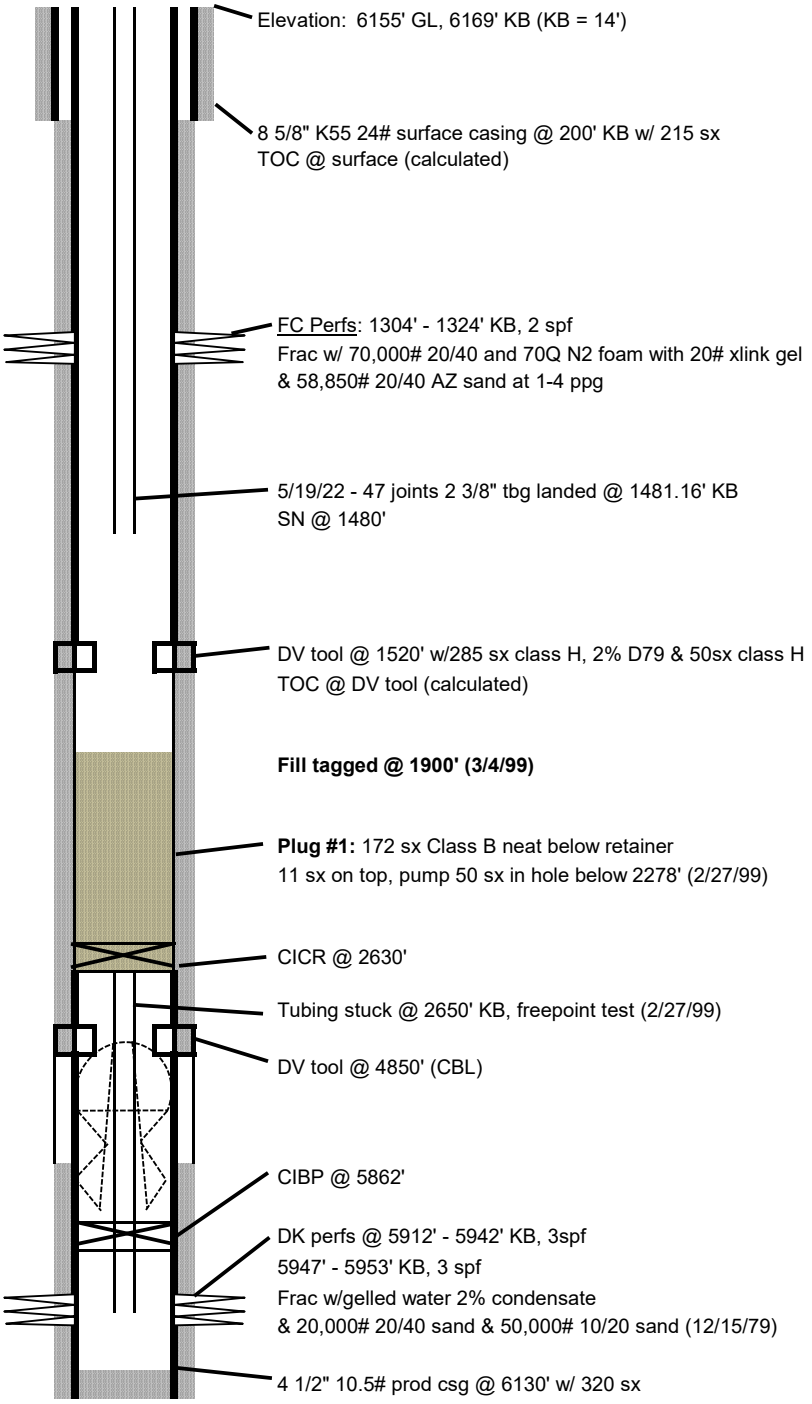
Surface Cap	Tubing @	125	ft			
Bttm of plug	**125**	Cement Top	**0**	**125**	feet plus 50% excess	
Open Hole Capacity (Depends on CBL)			sxs	Inside Pipe Capacity		
			8.18	ft3	11.2	100' Inside Casing
			0.00	ft3	0	0% excess
				ft3	**11.2**	**Total ft3 Inside Pipe**
				ft3	**12**	**Rounded up**
				bbls	**2.14**	**Total BBLS**
				SXS	**8.76**	**Total Sxs Cement**

Total Sxs Cement 8.76

Plug 5: Surface Cap 125' to surface - With 2 3/8" tubing at 125' mix balanced plug mixing 8.18 sx (11.2 ft3), TOH all tubing. Wait 4 hours and top of casing strings with required cement

MUSTANG RESOURCES

Blackrock D Com 1E



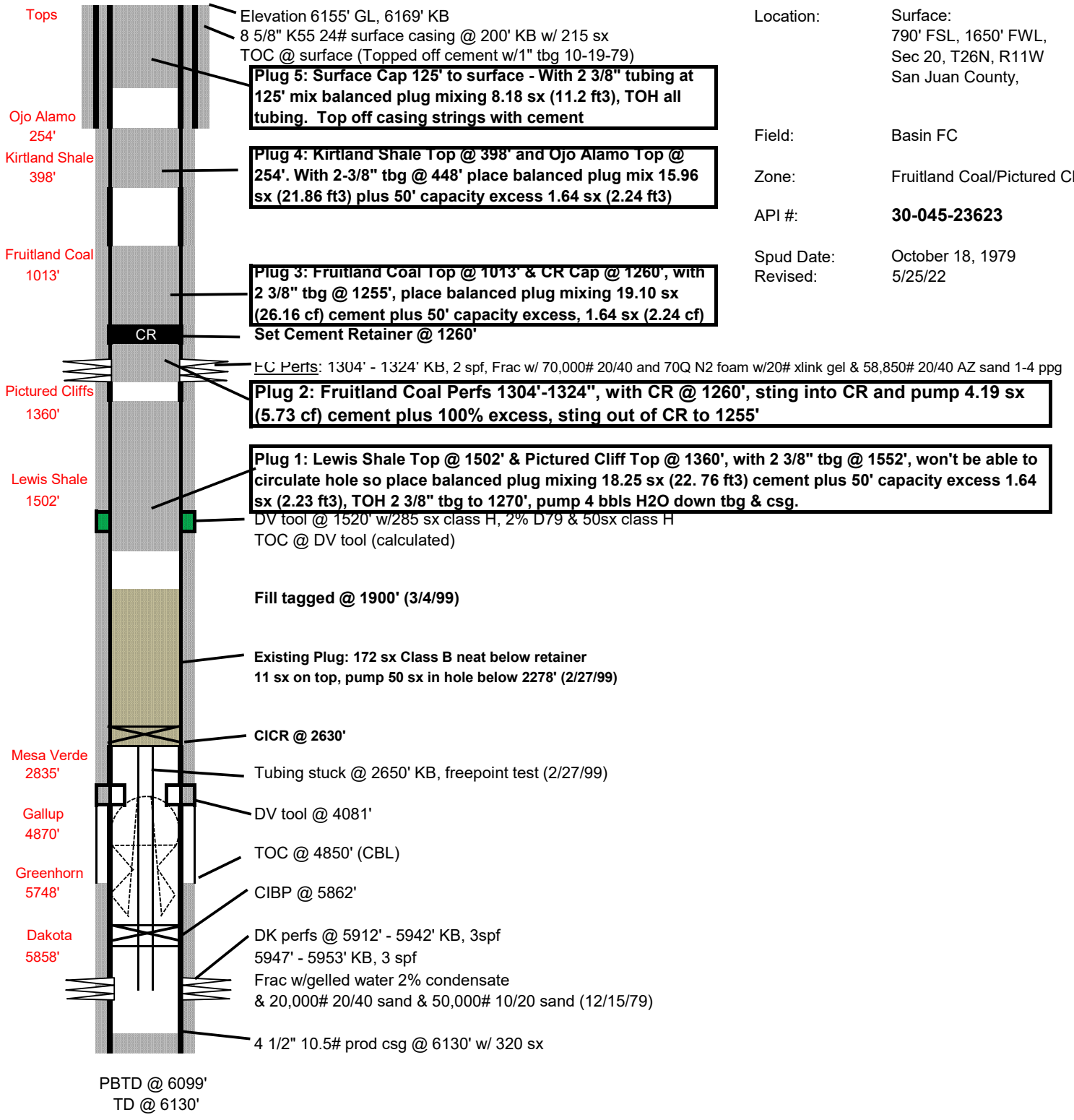
Location:	Surface: 790' FSL, 1650' FWL, Sec 20, T26N, R11W, San Juan County, New Mexico
Field:	Basin FC
Zone:	Fruitland Coal/Pictured Cliffs
API #:	30-045-23623
Spud Date:	October 18, 1979
Revised:	8/15/11

Current Sketch

ljt

Blackrock D Com 1E

Proposed P&A



Location:	Surface: 790' FSL, 1650' FWL, Sec 20, T26N, R11W San Juan County,
Field:	Basin FC
Zone:	Fruitland Coal/Pictured Cliffs
API #:	**30-045-23623**
Spud Date:	October 18, 1979
Revised:	5/25/22

P&A Sketch

ljt

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

AFMSS 2 Sundry ID 2678450

Attachment to notice of Intention to Abandon

Well: BLACK ROCK D COM 1E

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. Before or within 30 days after completing work, Mustang Resources LLC must contact a Farmington Field Office surface inspection staff to schedule a reclamation onsite.

4. The following modifications to your plugging program are to be made:

a) Combine Plug #4 (Kirtland and Ojo) and Plug #5 (Surface) to cover the interval from 50’ below the bottom of the surface casing shoe to surface, as well as the Kirtland and Ojo tops.

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.

K. Rennick 06/23/2022

BLM FLUID MINERALS
P&A Geologic Report

Date Completed: 06/23/2022

Well No. Blackrock D Com #1E (API# 30-045-23623)		Location	790 FSL	&	1650 FWL	
Lease No. NMSF078899		Sec. 20	T26N		R11W	
Operator Mustang Resources, LLC		County	San Juan	State	New Mexico	
Total Depth 6130’	PBTD 1900’	Formation	Fruitland Coal (producing)			
Elevation (GL)		Elevation (KB)	6169’			

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose					
Nacimiento	Surface	254			Surface/Possible freshwater sands
Ojo Alamo Ss	254	398			Aquifer (possible freshwater)
Kirtland Shale	398	1013			Possible gas
Fruitland	1013	1360			Coal/Gas/Water
Pictured Cliffs Ss	1360	1502			Probable Gas
Lewis Shale	1502	PBTD			
Chacra					
Cliff House Ss					
Menefee					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:
P & A

- Well was originally drilled into the Dakota, plugged back to the Fruitland Coal in 1999.
- Combine Plug #4 (Kirtland and Ojo) and Plug #5 (Surface) to cover the interval from 50’ below the bottom of the surface casing shoe to surface, as well as the Kirtland and Ojo tops.
- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Fruitland Coal perfs 1304’ – 1324’.

Reference Well:
1) **Formation Tops**
Same

Prepared by: *Chris Wenman*

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

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

CONDITIONS

Action 123343

CONDITIONS

Operator: Mustang Resources LLC 1660 Lincoln Street Denver, CO 80264	OGRID: 373495
	Action Number: 123343
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	7/11/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	7/11/2022