

Well Name: KO WA ME	Well Location: T14N / R2E / SEC 11 / NWSW / 35.45534 / -106.7059	County or Parish/State: SANDOVAL / NM
Well Number: 1	Type of Well: OIL WELL	Allottee or Tribe Name: ZIA PUEBLO
Lease Number: 7902171419	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004321337	Operator: BLACK EXPLORATION LLC	

Notice of Intent

Sundry ID: 2797463

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 06/26/2024	Time Sundry Submitted: 05:13
Date proposed operation will begin: 06/26/2024	

Procedure Description: See attached drilling plan and revised C102. The Ko Wa Me 1, was plugged and abandoned due to severe down hole instability problems. After numerous attempts to recover, a complete BHA including mud motor, directional tools, MWD, drill collars and DP were lost in the hole after the pipe became differentially stuck. After backing off the fish and TOH we became stuck again at 1135'. The DP was backed off again at 703' inside the surface casing and the decision was made to P&A the well. Verbal approval was made to "skid " the rig 30' North to clear this well bore and redrill. Formal approval was received from BLM shortly thereafter. By skidding the rig and drilling under the existing AAPD, unnecessary permitting delays were eliminated, waste of resources were eliminated and environmental impacts associated with a new drill location were also eliminated. Per NMOCD requirements, BLM's approval of the skid, approval of this amended drilling program and a new C102 are required before they can issue a new API #. Approval of this amended drilling plan will meet all the required components to obtain an API#. Once the API # is obtained, BLM will be notified accordingly.

NOI Attachments

Procedure Description

- Ko_Wa_Me_1_New_Well_Skid_Location_20240628072249.pdf
- Frontier_27_KO_WA_ME__1_Skid_Vertical_Plan__4_20240628072101.pdf
- Ko_Wa_Me_1_Skid_Well_Amended_Drilling_Plan_Vertical_20240628071749.pdf

Well Name: KO WA ME

Well Location: T14N / R2E / SEC 11 /
NWSW / 35.45534 / -106.7059

County or Parish/State:
SANDOVAL / NM

Well Number: 1

Type of Well: OIL WELL

Allottee or Tribe Name: ZIA
PUEBLO

Lease Number: 7902171419

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004321337

Operator: BLACK EXPLORATION LLC

Conditions of Approval

Additional

Black_Exploration_KoWaMe_1_Amended_Drilling_Program_2797463_KR_20240628105141.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: JIM LOVATO

Signed on: JUN 28, 2024 07:25 AM

Name: BLACK EXPLORATION LLC

Title: Consultant

Street Address: 37 Road 3275

City: Aztec

State: NM

Phone: (505) 320-7378

Email address: jalovato59@msn.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: 06/28/2024

Signature: Kenneth Rennick

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No. 30-043-21518
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<input 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 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 recompleate 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 perfonned 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 detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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	

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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWSW / 1921 FSL / 654 FWL / TWSP: 14N / RANGE: 2E / SECTION: 11 / LAT: 35.45534 / LONG: -106.7059 (TVD: 0 feet, MD: 0 feet)

PPP: 0 / 0 / SECTION: / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

BHL: NWSW / 1921 FSL / 654 FWL / TWSP: 14N / RANGE: 2E / SECTION: 11 / LAT: 35.45534 / LONG: -106.7059 (TVD: 9600 feet, MD: 9600 feet)

CONFIDENTIAL



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
<http://www.blm.gov/nm>



June 28, 2024

CONDITIONS OF APPROVAL

Sundry Notice of Intent ID # 2797463 Request

Amended Drilling Program

Operator: Black Exploration LLC
Lease: 7902171419
Well: Ko Wa Me 1 (API # 30-043-21337)
Location: NWSW Sec 11 T14N R2E (Sandoval County, NM)

The requested change to the Application for Permit to Drill is approved with the following Conditions of Approval:

1. This approval is only for the sundry notice and well listed above.
2. No changes to the original APD or COA are granted with the approval of this Sundry Notice other than the amended drilling program.

If you have any questions regarding this, please feel free to contact Matthew Kade at (505) 564-7736 or mkade@blm.gov, or Kenneth Rennick at (505) 564-7742 or krennick@blm.gov.

☐ AMENDED REPORT

A circular professional seal for John D. Wayne, a Professional Land Surveyor in New Mexico. The seal features the text "JOHN D. WAYNE" at the top, "NEW MEXICO" in the middle, and "9673" in the center. The outer ring of the seal reads "PROFESSIONAL LAND SURVEYOR".



Koloma

Sandoval County NM., (NAD83)

KO-WA-ME Pad

KO-WA-ME #1A

OH

Plan: Plan #4

Standard Planning Report

27 June, 2024





Planning Report



Database:	EDMProd	Local Co-ordinate Reference:	Well KO-WA-ME #1A
Company:	Koloma	TVD Reference:	KB=27 @ 5606.00usft (Frontier 27)
Project:	Sandoval County NM., (NAD83)	MD Reference:	KB=27 @ 5606.00usft (Frontier 27)
Site:	KO-WA-ME Pad	North Reference:	True
Well:	KO-WA-ME #1A	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #4		

Project	Sandoval County NM., (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site		KO-WA-ME Pad			
Site Position:		Northing:	1,621,329.60 usft	Latitude:	35.455340
From:	Lat/Long	Easting:	1,504,647.85 usft	Longitude:	-106.705900
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well	KO-WA-ME #1A					
Well Position	+N/-S	0.00 usft	Northing:	1,621,358.72 usft	Latitude:	35.455420
	+E/-W	0.00 usft	Easting:	1,504,647.99 usft	Longitude:	-106.705900
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,579.00 usft	
Grid Convergence:	-0.26 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	6/25/2024	7.84	62.10	48,520.08025416

Design	Plan #4				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	0.00	

Plan Survey Tool Program			Date	6/27/2024	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	11,000.00	Plan #4 (OH)	MWD+HRGM	
				OWSG MWD + HRGM	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00	KO-WA-ME 1A - PE



Planning Report



Database:	EDMProd	Local Co-ordinate Reference:	Well KO-WA-ME #1A
Company:	Koloma	TVD Reference:	KB=27 @ 5606.00usft (Frontier 27)
Project:	Sandoval County NM., (NAD83)	MD Reference:	KB=27 @ 5606.00usft (Frontier 27)
Site:	KO-WA-ME Pad	North Reference:	True
Well:	KO-WA-ME #1A	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #4		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report



Database:	EDMProd	Local Co-ordinate Reference:	Well KO-WA-ME #1A
Company:	Koloma	TVD Reference:	KB=27 @ 5606.00usft (Frontier 27)
Project:	Sandoval County NM., (NAD83)	MD Reference:	KB=27 @ 5606.00usft (Frontier 27)
Site:	KO-WA-ME Pad	North Reference:	True
Well:	KO-WA-ME #1A	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #4		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report



Database:	EDMProd	Local Co-ordinate Reference:	Well KO-WA-ME #1A
Company:	Koloma	TVD Reference:	KB=27 @ 5606.00usft (Frontier 27)
Project:	Sandoval County NM., (NAD83)	MD Reference:	KB=27 @ 5606.00usft (Frontier 27)
Site:	KO-WA-ME Pad	North Reference:	True
Well:	KO-WA-ME #1A	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #4		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00
TD at 11000.00									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KO-WA-ME 1A - PBH	0.00	0.00	11,000.00	0.00	0.00	1,621,358.72	1,504,647.99	35.455420	-106.705900
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
11,000.00	11,000.00	0.00	0.00	TD at 11000.00	

Supplemental Information for Amended Drilling Program

Black Exploration LLC

Ko-Wa-Me No.1

Skid Well

Surface Hole Location: 1951' FSL & 658' FWL Section 11, T. 14N., R. 02E. NMPM

Ungraded GL Elev 5579'

Sandoval County, New Mexico

The following Table list the major changes to the original permit. This is followed by detailed Geologic Interpretation and Drilling design changes:

KO W A M E 1A				
	Orig Permit		Revised Sundry	
Surface	Depth	325'	Depth	2,000'
	Hole	12-1/4"	Hole	17-1/2"
	Casing	9-5/8"	Casing	13-3/8"
Intermediate	Depth	--	Depth	7,000'
	Hole	--	Hole	12-1/4"
	Casing	--	Casing	9-5/8"
Production	Depth	9,600'	Depth	11,000'
	Hole	7-7/8"	Hole	7-7/8"
	Casing	5-1/2"	Casing	5-1/2"

1. Geologic Formations, Estimated Formation Tops and Mineral Potential:
- A. The following table identifies the geologic markers and formation tops (Subsea) based on seismic interpretation and open hole logs from the nearest offset wells. The Southeastern flank of the San Juan Basin has no established productive intervals but the listed potential is based on nearby Cretaceous producing intervals in the San Juan Basin proper and Permian and deeper intervals in Southeastern NM.

Formation Name	Elevation (ft)	TVD (ft)	MD (ft)	Lithology	Mineral Resource Potential	Producing in the Vicinity
Quaternary alluvium	5579' (Surface)	0	0	Sandstone (SS)	Sand and Gravel	No
Santa Fe Group	5569	10	10	SS	Sand and Gravel	No

Tertiary Sands	4879	700	700	SS	Usable Water	No
Mancos_Niobrara	1979	3600	3600	SS/Shale	Gas and Oil	No
Gallup	1879	3700	3700	SS	Gas and Oil	No
Greenhorn	1579	4000	4000	Limestone (LS)	Gas and Oil	No
Dakota	1379	4200	4200	SS	Gas	No
Morrison	1079	4500	4500	SS	Water/Uranium	No
Todilto	829	4750	4750	LS/Dolomite	None	No
Entrada	729	4850	4850	SS	Gas and Oil	No
1st Thrust, 2nd Todilto	509	5070	5070	LS/Dolomite	None	No
2nd Entrada	479	5100	5100	SS	Gas and Oil	No
Chinle	379	5200	5200	SS	Water	No
Agua Zarca (Shinarump)	-1671	7250	7250	SS	Gas and Oil	No
Yeso	-2021	7600	7600	SS	Gas and Oil	No
Meseta Blanca	-2271	7850	7850	SS	Gas and Oil	No
Abo	-2371	7950	7950	SS	Gas and Oil	No
Madera	-2921	8500	8500	LS	Gas and Oil	No
Sandia	-3571	9150	9150	LS	Gas and Oil	No
Mississippian	-3621	9200	9200	LS	Gas and Oil	No
2nd Thrust, 2nd Madera	-3821	9400	9400	LS	Gas and Oil	No
2nd Sandia	-4621	10200	10200	LS	Gas and Oil	No
2nd Mississippian	-4671	10250	10250	LS	Gas and Oil	No
Precambrian Basement	-4821	10400	10400	Granite	Gas and Oil??	No
TD	-5421	11000	11000	Granite	Gas and Oil	No

2. Pressure Control Equipment

Note:

The Drilling Contract has not yet been awarded and as such the exact BOPE type and configuration is still unknown. However, the BOPE will be a 5M capable system.

A. Blowout Preventer (BOP) Equipment: See Attached for Detailed Schematic:

DEPTH INTERVAL	BOP EQUIPMENT
0-2000'	No BOPE required/8.6 ppg., WBM
2000' – 7000	13 5/8", 5M BOPE System
7000' – 11000'	13 5/8", 5M BOPE System

i. Drilling spool to accommodate choke and kill lines with choke manifold rated at 5000psi.

B. Ancillary Equipment

- i. Upper Kelly cock and lower Kelley cock will be installed while drilling.
- ii. Inside BOP or stab in valve will be available in open position on rig floor at all times.
- iii. Safety valves and subs to fit all string connections in use.

C. Choke Manifold for 5M system

- i. See Attached for detailed schematics.

D. BOP Testing

- i. A 13 5/8", 5M BOP stack will be installed on casing head after setting 13-3/8" surface casing.
- ii. The BLM and State of NM will be notified 24 hours in advance of all BOPE pressure tests.
- iii. Pressure tests will be conducted on the BOP stack using a test plug and independent test company after nipple up.
- iv. Subsequent BOPE tests will be conducted each time the stack is altered.
- v. All BOP and manifold tests will be conducted in accordance with the requirements of Onshore Order No. 2 (43 CFR 3172) and Farmington Field Office Policy.

E. BOP Test Pressures

13 5/8" 5M BOP			
Pressure Test	Ram Test	Annular Test	Manifold Test
High Pressure	5000	2500#	5000 psi
Low Pressure	250 #	250#	250 psi
Test Fluid:	Clear Water	""	""

3. Revised Casing Program - all casing strings are new casing

Casing & Hole Size	Weight	Grade	Coupling	Setting Depth (MD)	Comments
13-3/8" (17 1/2")	54.5 ppf	J-55	BT&C	0' - 2000'	New casing. Cement to surface.
9-5/8" (12 1/4")	40 ppf	HCL-80	LT&C	0' - 7,000' MD	New casing. Cement to surface.
5 1/2" (7 7/8")	20 ppf	L-80	LT&C	0' - 11,000' MD	500' into 9 5/8" casing

*If we are not able to reach 7000' with the 12-1/4" section we may set early due to poor hole conditions, contingency would be setting in the Mancos if competent enough. If this is the case, we would then drill out with an 8-1/2" bit to total depth and set 7" pipe. If we are not able to achieve total depth due to poor hole conditions an additional contingency would be to drill out with a 6-1/8" bit, set and hang 4-1/2" pipe off of the 7" to total depth. This is all contingent on reaching the desired depth of 7000' with the 12-1/4" section. Goal is to reach the permitted depth of 11,000'.

- A. Casing strings will be tested to .22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield.

Minimum casing design factors used: Collapse- 1.125
 Burst- 1.0
 Jt. Strength - 1.8

B. Centralizers:

Surface casing shall have a minimum of 1 centralizer per joint on the bottom three (3) joints, starting with the shoe joint for a total of (4) minimum centralizers. Centralizers will be placed 10' above the shoe on the shoe joint, on the 1st, 2nd and 3rd casing collars then every other joint to surface.

The intermediate and production casing will be centralized using 1 centralizer on the first 10 joints and then every 4th joint to the surface. This centralizer program may be modified based on hole conditions.

C. Design Factor Calculations:**Surface Casing:**

Collapse Design (N_c) = Collapse Strength/Hydrostatic Head

$$N_c = 1130 \text{ psi} / (8.6 \text{ ppg} \times .052 \times 2000') = 1.2 > 1.125$$

Internal Yield Design (N_i) = Internal Yield Strength/ BHP

$$N_i = 2730 \text{ psi} / 946 \text{ psi} = 2.88 > 1$$

Joint Strength (N_j) = Joint Strength/Weight

$$N_j = 853\text{k} / (2000 \times 54.5\#) = 7.8 >> 1.8$$

Intermediate Casing:

Collapse Design (N_c) = Collapse Strength/Hydrostatic Head

$$N_c = 4230 \text{ psi} / (9.1 \text{ ppg} \times .052 \times 7000') = 1.28 > 1.125$$

Internal Yield Design (N_i) = Internal Yield Strength/ BHP

$$N_i = 5750 \text{ psi} / 3312 \text{ psi} = 1.74 > 1$$

Joint Strength (N_j) = Joint Strength/Weight

$$N_j = 827\text{k} / (7000 \times 40\#) = 2.95 > 1.8$$

Production Casing:

Collapse Design (N_c) = Collapse Strength/Hydrostatic Head

$$N_c = 8830 \text{ psi} / (9.1 \text{ ppg} \times .052 \times 11000') = 1.69 > 1.125$$

Internal Yield Design (N_i) = Internal Yield Strength/ BHP

$$N_i = 9190 \text{ psi} / 5201 \text{ psi} = 1.76 > 1$$

Joint Strength (N_j) = Joint Strength/Weight

$$N_j = 466\text{k} / (11000 \times 20\#) = 2.12 > 1.8$$

4. Revised Cement Program:

The following cement yields and volumes will be used to meet the minimum standards for well bore isolation. Actual volumes will be calculated and determined by conditions onsite.

All waiting on cement times shall be a minimum of 8 hours or adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

Cement Program					
		bbls	yield	skts	TOC
<u>Surface</u>	Single Stg				
Excess 50%	Lead	376	2.3	919	Surface
Excess 50%	Tail	54	1.34	205	
<u>Intermediate</u>	Single Stg				
Excess 50%	Lead	347	1.99	978	Surface
Excess 50%	Tail	257	1.29	1119	3000
<u>Production</u>	Single Stg				
Excess 40%	Tail	198	1.29	862	500' into int.
					casing

5. Proposed Drilling Fluid Program

A. Mud type and properties

Hole Size (in)	TVD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
17 1/2"	0-2000'	WBM Mud	8.5 - 9.1	50-70	NC
12-1/4"	2,000'-7,000'	WBM Mud	8.5 - 9.1	40-70	<10
7 7/8"	7,000-11000'	WBM Mud	8.5 - 9.1	40-70	<10

- i. Closed loop system will be utilized in accordance with NMOCD guidelines (NMOCD 19.15.17) with all solids placed on a drying pads or storage bins and liquids hauled to an approved disposal site. Solids will be THP tested and disposed of in an approved manner.
- ii. Enough barite or other weighting material will be kept onsite to weight mud sufficiently to contain any unexpected pressures.

A. Monitoring

- i. Mud volume and flow will be monitored visually.

6. Formation Evaluation Program

Cores	Possible Sidewall
Testing	None anticipated

Sampling Rate	From 900' to TD, Samples will be taken every 25' (Samples will be taken at 10 intervals in zones of interest)
Surveys	Single shot surveys as needed, or at a minimum every 500' to TD
Log Program	DIL-G R-SP, FDC-CNL-GR- Caliper in zones of interest

7. Drilling Conditions

A. Anticipated abnormal pressures or temperatures.

- i. No abnormal pressures or temperatures or other hazards are anticipated.
- ii. Maximum bottom hole pressure equals approximately 5201 psig (pounds per square inch gauge)

Max mud wt. x 0.052 x TD= A (bottom hole pressure)

$$9.1 \times 0.052 \times 11000 = 5205 \text{ psi}$$

Maximum surface pressure= A- (0.22 x TD)

$$5205 - (0.22 \times 11000) = 2785 \text{ psg}$$

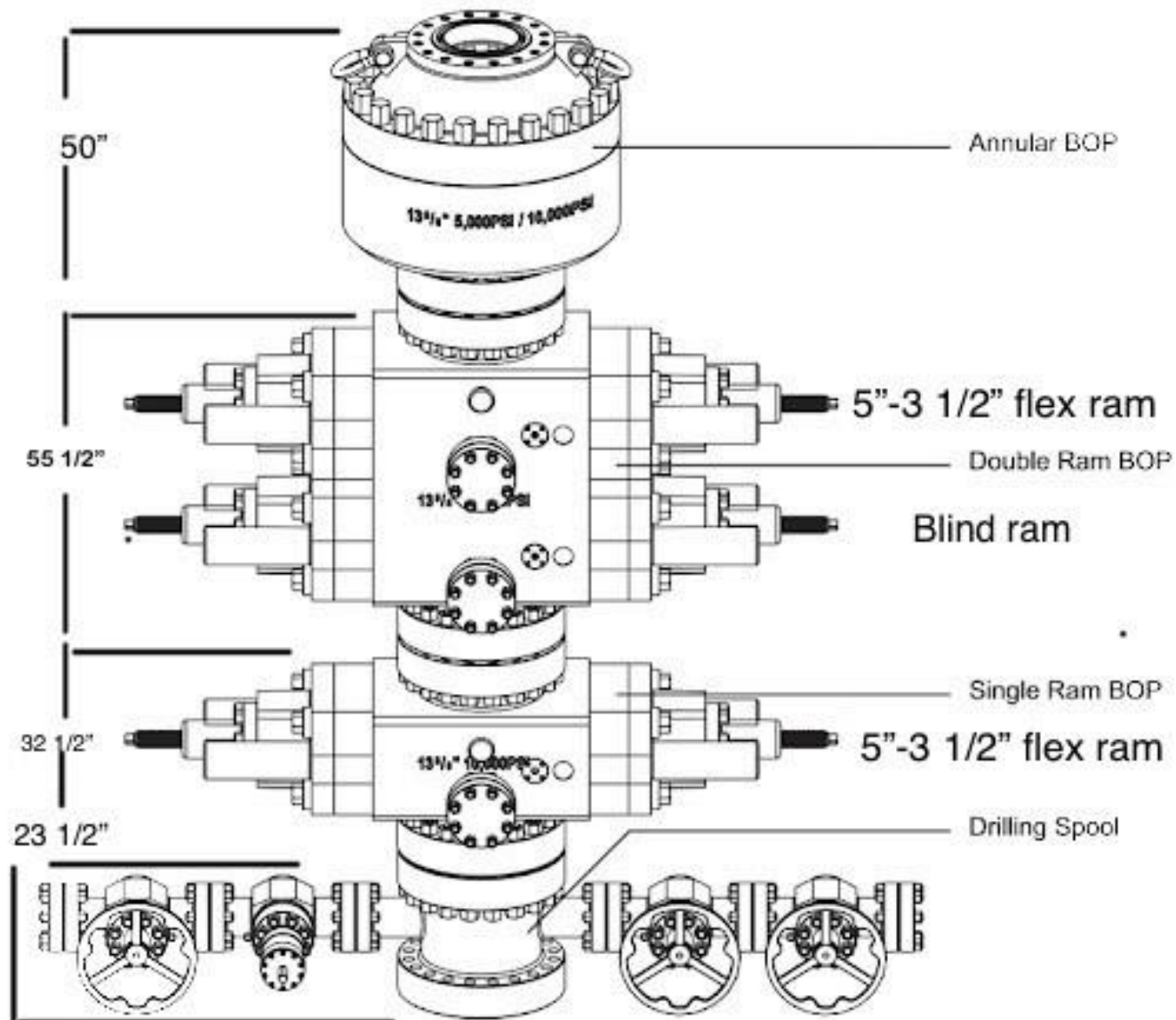
B. Hydrogen Sulfide (H2S)

- i. H2S is not expected but standard monitoring and personal monitors will be in place on the rig and drilling crew.

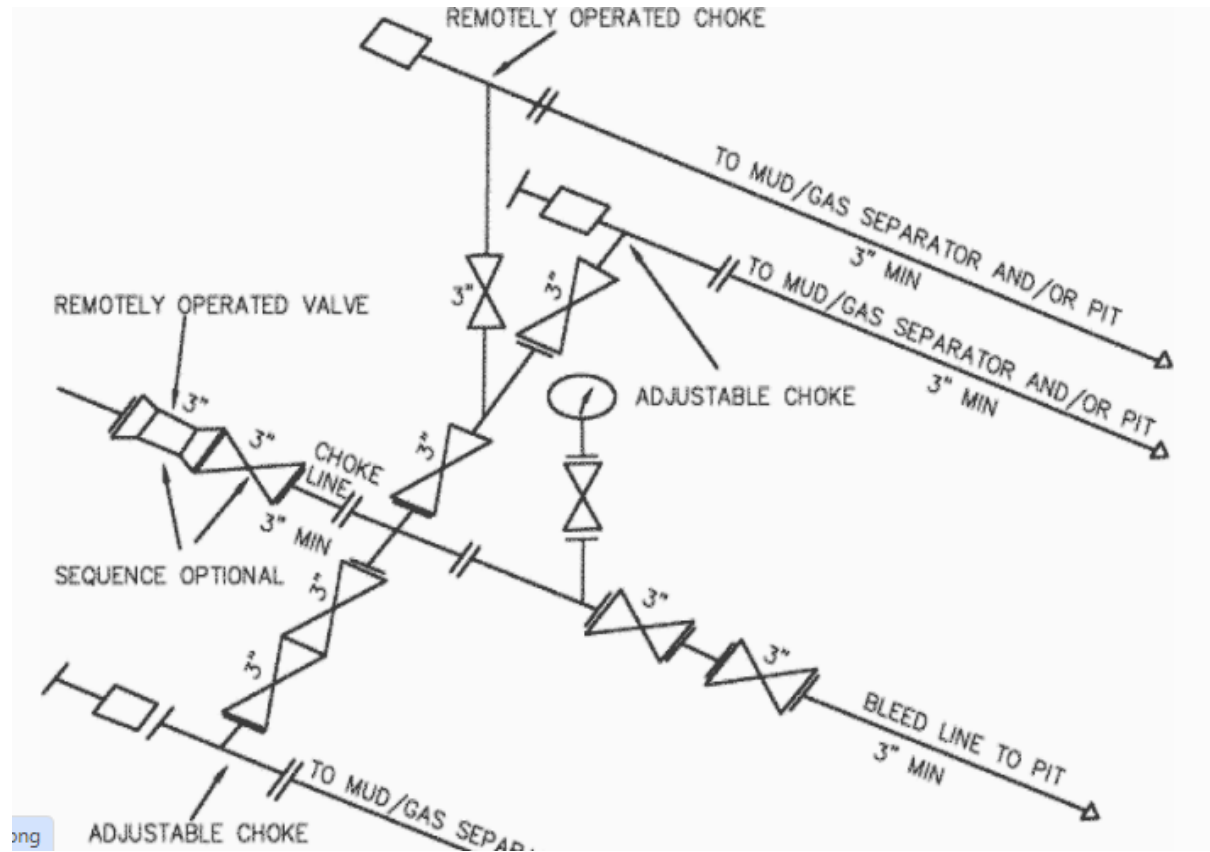
8. Other Information

A. Drilling Schedule

Activity	Date
Location Construction	TBD
Spud	TBD
Total Drilling Duration	15-20 days drilling time
Total Completion Duration	TBD



5M Choke Manifold System



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 364558

CONDITIONS

Operator: BLACK EXPLORATION LLC 206 W 38th St. Farmington, NM 87401	OGRID: 371259
	Action Number: 364558
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	None	7/16/2024