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

Sundry Print Report

06/11/2021

Well Name: THEODORE ZINK

Well Location: T23N / R6W / SEC 15 / NWNW / 36.230667 / 107.461563

County or Parish/State: RIO ARRIBA / NM

Well Number: 1

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM23231

Unit or CA Name: THEODOR

Unit or CA Number: NMNM68170

US Well Number: 3003922923

Well Status: Producing Oil Well

Operator: ENDURING RESOURCES LLC

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Plug and Abandonment

Date Sundry Submitted: 01/29/2021

Time Sundry Submitted: 10:42

Date proposed operation will begin: 02/01/2021

Procedure Description: This sundry was originally submitted on 6/11/2020. It was rejected due to the WIS transition to WISX. Enduring Resources requests to plug and abandon the above mentioned well per plugging procedure, wellbore diagram and reclamation plan.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

WIS_PRINT_SUBMITTED_518646_NOI_PA_THEODORE_1_20210129103931.pdf

THEODORE_ZINK_COM_001_NOI_P_A_PACKAGE_20210129103908.pdf

Well Name: THEODORE ZINK

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Operator: ENDURING RESOURCES LLC

Conditions of Approval

Specialist Review

General_Requirement_P_A_20210316133503.pdf

Additional Reviews

Theodore_Zink_Com_No_1_Geo_Rpt_20210609101534.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: HEATHER HUNTINGTON

Signed on: JAN 29, 2021 10:39 AM

Name: ENDURING RESOURCES LLC

Title: Permitting Technician

Street Address: 200 Energy Court

City: Farmington **State:** NM

Phone: (505) 636-9751

Email address: HHUNTINGTON@ENDURINGRESOURCES.COM

Field Representative

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: DAVE J MANKIEWICZ

BLM POC Title: AFM-Minerals

BLM POC Phone: 5055647761

BLM POC Email Address: DMANKIEW@BLM.GOV

Disposition: Approved

Disposition Date: 06/09/2021

Signature: Dave Mankiewicz

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.

BLM FLUID MINERALS
Geologic Report

Date Completed: 8/5/2020

Well No.	Theodore Zink Com # 1		Location	460′ FNL	&	1005′	FWL
Lease No.	NMNM23231		Sec. 15	T23N			R6W
Operator	Enduring Resources		County	Rio Arriba	State	New Mexico	
Total Depth	5705′	PBTD 5656′	Formation	Counselors Gallup Dakota			
Elevation (GL) 6821′			Elevation (KB) 6236′				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	737′	Surface / Fresh water sands
Nacimiento Fm			737′	1417′	Fresh water sands
Ojo Alamo Ss			1417′	1608′	Aquifer (fresh water)
Kirtland Shale			1608′	1710′	
Fruitland Fm			1710′	1997′	Coal/Gas/Possible water
Pictured Cliffs Ss			1997′	2100′	Gas
Lewis Shale			2100′	2780′	
Chacra			2780′	3030′	Probable water or dry
Lewis Shale Stringer			3030′	3500′	
Cliff House Ss			3500′	3570′	Water/Possible gas
Menefee Fm			3570′	4211′	Coal/Ss/Water/Possible Gas
Point Lookout Ss			4211′	4450′	Probable water/Possible O&G
Mancos Shale			4450′	5200′	Source rock
Gallup			5200′		O&G/Water

Remarks:
P & A
- Please ensure that the tops of the Pictured Cliffs and Fruitland formations as well as the entire Ojo Alamo aquifer, identified in this report, are isolated by proper placement of cement plugs. This will protect the freshwater sands in this well bore.

Formation Tops Reference Well:
Enduring Resources
Same

Prepared by: *Walter Gage*

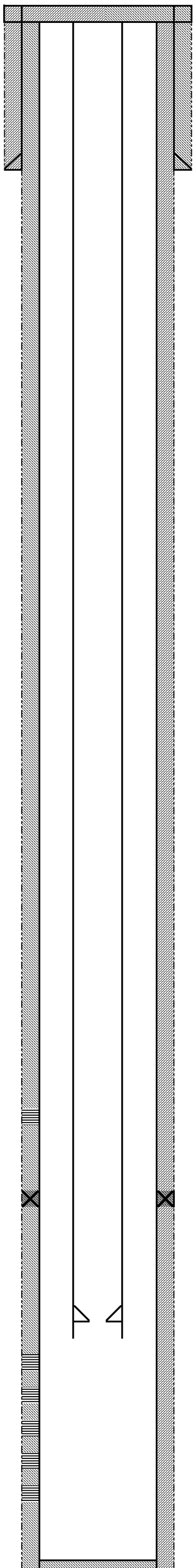
OPERATOR:	ENDURING RESOURCES	CNTY: Rio Arriba	FTG: 460' FNL & 1005' FEL
WELL:	THEODORE ZINK COM 001	STATE: NM	Q-Q: NWNW
FIELD:	GALLUP	SPUD: 04/13/82	SEC.: 15
API #	30-039-22923	COMP: 05/09/82	TWS: T23N
ER WELL #:	NM06044.01	STATUS: SI - INA	RGE: R06W
WI/NRI:	100.0000% / 77.8600%	WBD DATE: 05/11/20	BY: ACB

CURRENT WELLBORE DIAGRAM

KBE: 6836 '
KB: 15 '
GLE: 6821 '

TD (ft): 5705 '
PBTD (ft): 5656 '

12-1/4" Hole
8-5/8" J55 Csg @ 239 '
Cmt w/170 sxs, circ to surface



CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
12 1/4	8 5/8	20.0	J-55	0	239
7 7/8	4 1/2	10.5	J-55	0	5700

TUBING RECORD COND: DATE:

SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	TALLY (ft)	JTS
2 3/8	4.7	J55	0	5280.00	162

PERFORATION RECORD

ZONE	TOP (ft)	BTM (ft)	HOLES	STAGE	STATUS	VOL / PROP
MANCOS	4498	4499	1	1	75Q N2	
GALLUP	5322	5328	3	1	75Q N2	
GALLUP	5342	5344	2	1	75Q N2	
GALLUP	5458	5468	6	1	75Q N2	
GALLUP	5496	5498	2	1	75Q N2	
GALLUP	5528	5538	6	1	75Q N2	
			20 holes			**165,600 lbs**

FORMATION TOPS

Nacimiento @	737 '
Ojo Alamo @	1417 '
Kirtland @	1529 '
Fruitland @	1760 '
Pictured Cliffs @	1997 '
Lewis @	2122 '
Chacra @	2417 '
Cliff House @	3506 '
Menefee @	3510 '
Point Lookout @	4211 '
Mancos @	4517 '
Gallup @	5442 '

DV Tool in 4-1/2" Csg @ 4,536 '

ORIG PBTD @ 5656 '
4-1/2" 10.5# Csg @ 5700 '
TD @ 5705 '
Stg 1: Cmt w/225 sxs
Stg 2: Cmt w/800 sx, circ 8 bbls to surf

OPERATOR:	ENDURING RESOURCES	CNTY: Rio Arriba	FTG: 460' FNL & 1005' FEL
WELL:	THEODORE ZINK COM 001	STATE: NM	Q-Q: NWNW
FIELD:	GALLUP	SPUD: 04/13/82	SEC.: 15
API #	30-039-22923	COMP: 05/09/82	TWS: T23N
ER WELL #:	NM06044.01	STATUS: SI - INA	RGE: R06W
WI/NRI:	100.0000% / 77.8600%	WBD DATE: 05/11/20	BY: ACB

PROPOSED P&A WELLBORE DIAGRAM

KBE: 6836 '
KB: 15 '
GLE: 6821 '

TD (ft): 5705 '
PBTD (ft): 5656 '

12-1/4" Hole
8-5/8" J55 Csg @ 239 '
Cmt w/170 sxs, circ to surface

FORMATION TOPS

Nacimiento @	737 '
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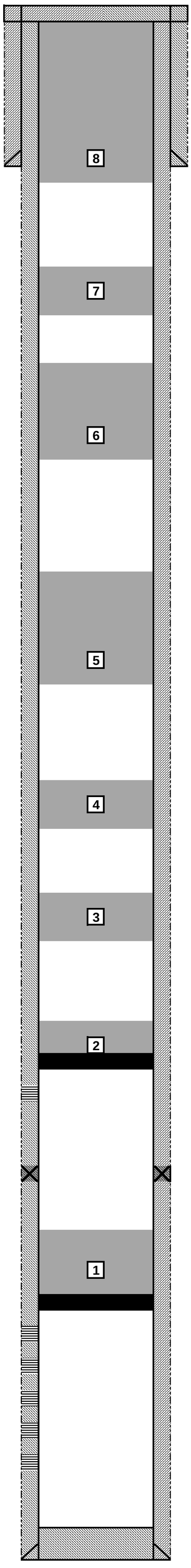


CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
12 1/4	8 5/8	20.0	J-55	0	239
7 7/8	4 1/2	10.5	J-55	0	5700

PERFORATION RECORD

ZONE	TOP (ft)	BTM (ft)	HOLES
MANCOS	4498	4499	1
GALLUP	5322	5328	3
GALLUP	5342	5344	2
GALLUP	5458	5468	6
GALLUP	5496	5498	2
GALLUP	5528	5538	6
			20 holes

PLUG #8: SURFACE CASING SHOE, SURFACE
BALANCED PLUG
CEMENT 0 ' - 289 '
PLUG VOLUME 27 sx *50 ' excess required (inside casing)*

PLUG #7: NACIMIENTO TOP
BALANCED PLUG
CEMENT 687 ' - 787 '
PLUG VOLUME 12 sx *50 ' excess required (inside casing)*

PLUG #6: KIRTLAND TOP, OJO ALAMO TOP
BALANCED PLUG
CEMENT 1367 ' - 1579 '
PLUG VOLUME 21 sx *50 ' excess required (inside casing)*

PLUG #5: PICTURED CLIFFS TOP, FRUITLAND TOP
BALANCED PLUG
CEMENT 1710 ' - 2047 '
PLUG VOLUME 31 sx *50 ' excess required (inside casing)*

PLUG #4: CHACRA TOP
BALANCED PLUG
CEMENT 2367 ' - 2467 '
PLUG VOLUME 12 sx *50 ' excess required (inside casing)*

PLUG #3: CLIFFHOUSE TOP
BALANCED PLUG
CEMENT 3456 ' - 3556 '
PLUG VOLUME 12 sx *50 ' excess required (inside casing)*

PLUG #2: MANCOS PERFORATIONS, MANCOS TOP
4-1/2" CICR 4448 '
CEMENT 4348 ' - 4448 '
PLUG VOLUME 12 sx ABOVE CICR *50 ' excess required (inside casing)*

PLUG #1: GALLUP PERFORATIONS, GALLUP TOP
4-1/2" CICR 5272 '
CEMENT 5172 ' - 5272 '
PLUG VOLUME 12 sx ABOVE CICR *50 ' excess required (inside casing)*

CEMENT & CASING INFORMATION
- ALL PLUGS ASSUME CLASS G NEAT CEMENT
- STABILIZNG WELLBORE FLUID IS 8.3 PPG, SUFFICIENT TO BALANCE ALL WELLBORE PRESSURES, UNLESS NOTED OTHERWISE IN PROCEDURE

CEMENT DENSITY:	**15.80** PPG
CEMENT YIELD:	**1.15** CUFT / SX
MIX WATER REQUIRED:	**5.00** GAL / SX
4-1/2" CSG CAPACITY:	**0.0895** CUFT / FT
4-1/2" CSG x 8-5/8" CSG CAPACITY:	**0.2555** CUFT / FT
4-1/2" CSG x 7-7/8" HOLE CAPACITY:	**0.2278** CUFT / FT

ENDURING RESOURCES IV, LLC

PLUG AND ABANDONMENT PROCEDURE

WELL: THEODORE ZINK COM 001
API: 30-039-22923
ER WELL: NM06044.01
LOCATION: 460' FNL & 1005' FEL, Sec.15, T23N, R06W
COUNTY: Rio Arriba
STATE: NM

NOTES:

1) All cement volumes assume 100% excess volume outside pipe and 50' excess inside pipe. Cement will be Class 'G' (15.8 ppg and 1.15 cuft/sx). A stabilizing wellbore fluid with density of 8.3 ppg will be sufficient to balance pressures encountered in the well.
2) Any waste fluids circulated from the well to surface, including excess cement, will be stored in steel tanks and then disposed of at an approved disposal facility.
3) Notify BLM and NMOCD prior to beginning well-work operations. Comply with all BLM and NMOCD regulations. Obtain approval from BLM and NMOCD prior to making any changes or adjustments to the procedure.
4) Plugs will be adjusted as necessary depending on the results of any RCBLs.
5) Wait on cement, tag, and spot additional cement plugs as necessary depending on results of casing pressure tests.
6) Hold safety meetings daily (minimum) with all personnel on location. Record tubing, casing, and bradenhead pressures daily on reports.
7) Test and install rig anchors, if necessary (if rig does not have a base-beam).

PROCEDURE:

1) MIRU daylight pulling unit and associated equipment.
2) Blow down well. Kill well. ND WH. NU BOPE and test.
3) TOH and LD production tubing
4) PU and TIH with 2-3/8" work-string and 4-1/2" casing scraper to 5,322' (top Gallup perf). TOH. LD scraper.
5) ***PLUG #1: GALLUP PERFORATIONS, GALLUP TOP***
TIH with 4-1/2" CICR on 2-3/8" work-string. Set CICR. MIRU Cementers. Pump cement. TOH.

4-1/2" CICR:	5,272'		
Plug Coverage:	5,172'	to	5,272'
Cement Volume:	12 sx	*ABOVE CICR*	
	12 sx	***TOTAL***	

6) ***PLUG #2: MANCOS PERFORATIONS, MANCOS TOP***
TIH with 4-1/2" CICR on 2-3/8" work-string. Set CICR. Prior to pumping cement, load casing and pressure test to 550 psig for 30 minutes. Pump cement. Pull up hole to spot additional plugs.

4-1/2" CICR:	4,448'		
Plug Coverage:	4,348'	to	4,448'

Cement Volume:	12 sx	*ABOVE CICR*
	12 sx	***TOTAL***

7) ***PLUG #3: CLIFFHOUSE TOP***

Spot balanced plug. Pull up hole.

Plug Coverage:	3,456'	to	3,556'
Cement Volume:	12 sx		
	12 sx	***TOTAL***	

8) ***PLUG #4: CHACRA TOP***

Spot balanced plug. Pull up hole.

Plug Coverage:	2,367'	to	2,467'
Cement Volume:	12 sx		
	12 sx	***TOTAL***	

9) ***PLUG #5: PICTURED CLIFFS TOP, FRUITLAND TOP***

Spot balanced plug. TOH.

Plug Coverage:	1,710'	to	2,047'
Cement Volume:	31 sx		
	31 sx	***TOTAL***	

10) ***PLUG #6: KIRTLAND TOP, OJO ALAMO TOP***

Spot balanced plug. Pull up hole.

Plug Coverage:	1,367'	to	1,579'
Cement Volume:	21 sx		
	21 sx	***TOTAL***	

11) ***PLUG #7: NACIMIENTO TOP***

Spot balanced plug. Pull up hole.

Plug Coverage:	687'	to	787'
Cement Volume:	12 sx		
	12 sx	***TOTAL***	

12) ***PLUG #8: SURFACE CASING SHOE, SURFACE***

Spot balanced plug. TOH.

Plug Coverage:	0'	to	289'
Cement Volume:	27 sx		
	27 sx	***TOTAL***	

13) ND BOPE. Cut off casing and wellhead (minimum of 3' below finished grade). Top off annulus and casing with cement, if required. RDMO cement equipment. Install below-grade P&A marker (minimum 1/4" thick steel plate with weep hole, welded in place covering the well, well information permanently inscribed). RDMO.

14) Complete surface reclamation as per approved reclamation plan.

Created by: A. Bridge 5/11/2020

SURFACE RECLAMATION PLAN

Theodore Zink COM 001

API No. 30-039-22923

NMNM-023231

June 2020

ENDURING RESOURCES IV, LLC

200 Energy Court
Farmington, New Mexico 87401
Phone: (505) 636-9720

Table of Contents

List of Tables

Operator:	Enduring Resources IV, LLC (Enduring)
Well Name and Number:	Theodore Zink COM 001
API Number:	30-039-22923
Legal Location:	NW ¼ of the NW ¼ Sec. 15, T23N, R06W

1 Introduction

This reclamation plan has been prepared to meet the requirements and guidelines of Onshore Oil and Gas Order No. 1 and supplemental guidance thereto; including, the BLM's Gold Book. This plan describes the final reclamation procedures, any changes if applicable based on the surface managing agencies designated final land use plan, and any mitigation measures associated with final reclamation performed by the operator. Final reclamation is considered complete when the success criteria outlined in this plan has been met and a final abandonment notice (FAN) has been received.

Enduring or their appointed contractor would call New Mexico One-Call (or equivalent) to identify the location of any marked or unmarked pipelines or cables located in proximity to the project area or any other areas anticipated to have ground disturbance at least two working days prior to ground disturbance.

Enduring or their appointed contractor would notify the BLM-FFO by phone or email 48 hours in advance of dirt work reclamation activities.

The Enduring Resources IV, LLC contact person for this reclamation plan is:

Casey Haga
Surface Permitting Specialist
Enduring Resources IV, LLC
200 Energy Court
Farmington, New Mexico 87401
505-636-9752

2 Pre-Reclamation Site Inspection

A pre-reclamation site inspection for the Theodore Zink COM 001 was conducted on May 20, 2020 by Casey Haga and David Rogers with Enduring and May 28, 2020 by Casey Haga and David Rogers with Enduring and Randy Mckee with the BLM-FFO. During the inspections, an inventory of site conditions and equipment was conducted. Reclamation procedures were discussed, including recontouring, silt trap placement, seed mix selection, weed abatement procedures and any additional requirements needed to assist in reclaiming the area to as close to pre-disturbance conditions as practicable.

2.1 Vegetation Community

The vegetation community that best represents the surrounding project area is sagebrush shrubland valleys with Piñon/Juniper woodland hills and mesas. Since the location sits at the ecotone between these two communities, the reclaimed area will be seeded with BLM's sagebrush seed mix.

2.2 Proposed Reclamation Seed Mix

Disturbance will be recontoured and topsoil will be redistributed and prepared for seeding. Ripping, disking, and seeding of the site will be done by Enduring's construction contractor. The seed mix is

listed in detail in Table 1 below.

Table 1. Reclamation Seed Mix

Common Name	Scientific Name	Season	Form	PLS lbs/acre[1]
Fourwing Saltbrush	*Atriplex canescens*	Cool	Shrub	2.0
Winterfat	*Krascheninnikovia lanata*	Cool	Shrub	2.0
Indian Ricegrass Rimrock	*Achnatherum hymenoides*	Cool	Bunch	4.0
Blue Grama	*Bouteloua gracilis*	Warm	Sod	2.0
Sand Dropseed	*Sporobolus cryptandrus*	Warm	Bunch	0.5
Western wheatgrass	*Pascopyrum smithii*	Cool	Sod	4.0
Bottle brush squirreltail	*Elymus elymoides*	Cool	Bunch	3.0
Small burnet	*Sanguisorba minor*	Cool	Forb	2.0
Blue flax	*Linum lewisii*	Cool	Forb	0.25

[1]Based on 60 pure live seeds (PLS) per square foot, drill seeded; double this rate (120 PLS per square foot) if broadcast or hydro-seeded.

2.3 Pre-Reclamation Weed Survey

There was no contaminated soil observed on the surface of location. Once equipment is removed, further inspection of the soil under these facilities would be conducted to ensure no leaks had occurred contaminating the soil beneath. Soil testing may occur if determined to be necessary. If contaminated soil is encountered, it will be removed and hauled to an approved landfarm for remediation.

2.4 Contaminated Soil and Soil Amendments

There was no contaminated soil observed on the surface of location. Once equipment is removed, further inspection of the soil under these facilities would be conducted to ensure no leaks had occurred contaminating the soil beneath. Soil tests may occur if determined to be necessary. If contaminated soil is encountered, it will be removed and hauled to an approved landfarm for remediation.

2.5 Equipment and Facility Removal

- All Production equipment including steel tank, above grade fiberglass pit tank, separator, artificial lift equipment, meter run, methanol tank, and drip pot if present will be removed from location.
- Ancillary equipment including concrete slabs, fencing, anchors, and flow lines (above ground and/or buried) will also be removed and disposed of appropriately or reused.
- Debris and trash will be removed and disposed of at approved facilities.
- BLM requests that the well-connect pipeline be cut and capped off location on the west side of CR 379/NM 403. The pipeline needs removed from location and from under roadway. Additionally, BLM request that the pipeline be cut and caped at the tie in point.
- There is no catholic groundbed on location.
- The power line drop pole that serves the artificial lift equipment will be removed. Removal of the service poles to location is not required.
- The gravel present on location under the steel tank and separator will be stripped as practicable and spread over main roadway adjacent to location. Any remaining gravel that cannot be separated from soil adequately for reuse will be buried in the cut slope.
- Wellhead will be removed upon plugging and an above ground well monument installed.

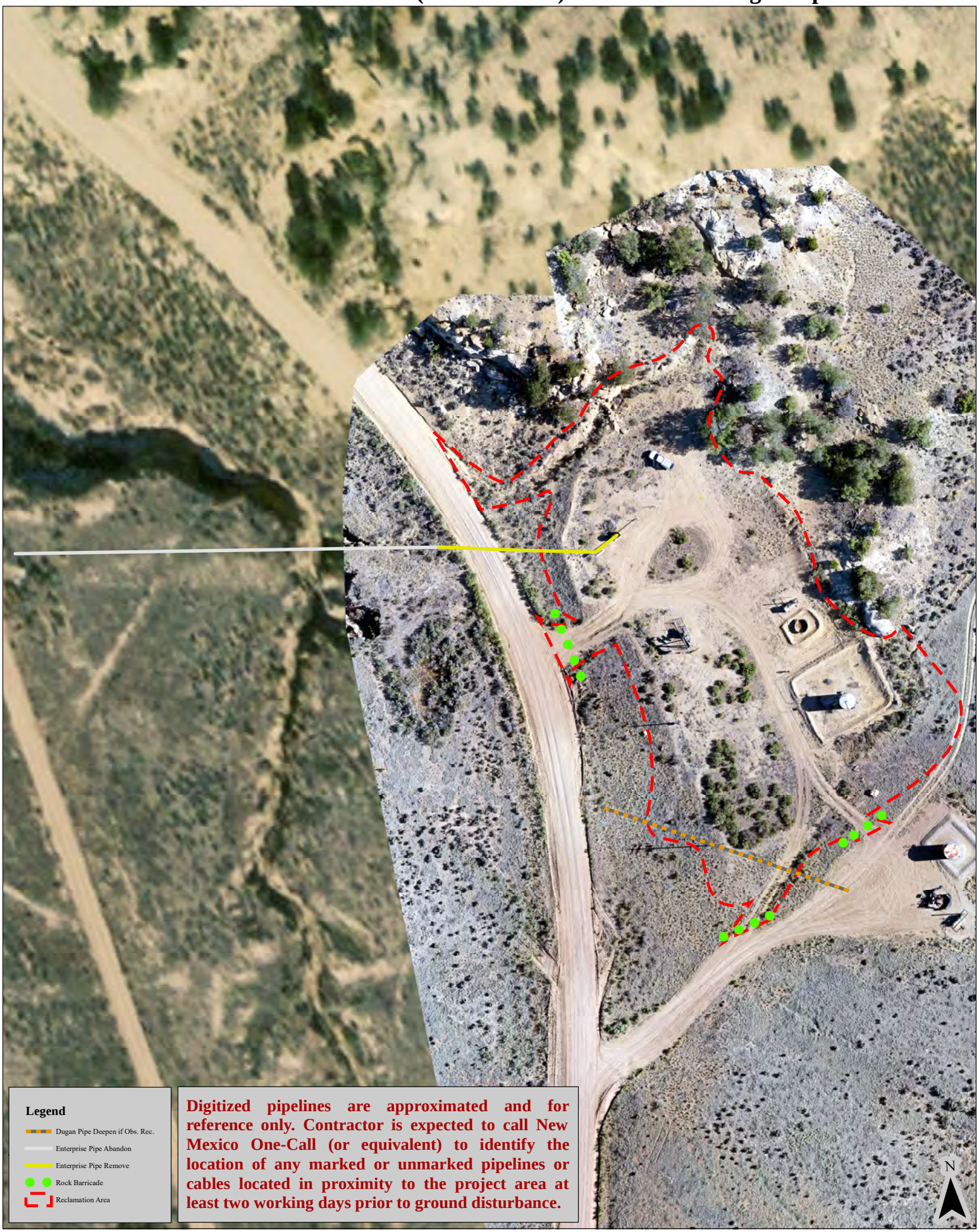
2.6 Equipment and Facilities to Remain

- No above grade facilities will remain related to the Theodore Zink COM 001 well.
- The power line service poles to location will remain. However, the drop pole and equipment related to, will be removed.
- Dugan has a trunk pipeline that runs through the well pad fill slope on the southwest corner of location. This pipeline will need deepened if not within native ground. The pipeline will not be removed.

2.7 Project Area Maps

See project area maps on the following two pages.

Theodore Zink COM 001 (30-039-22923) Orthomosaic Image Map

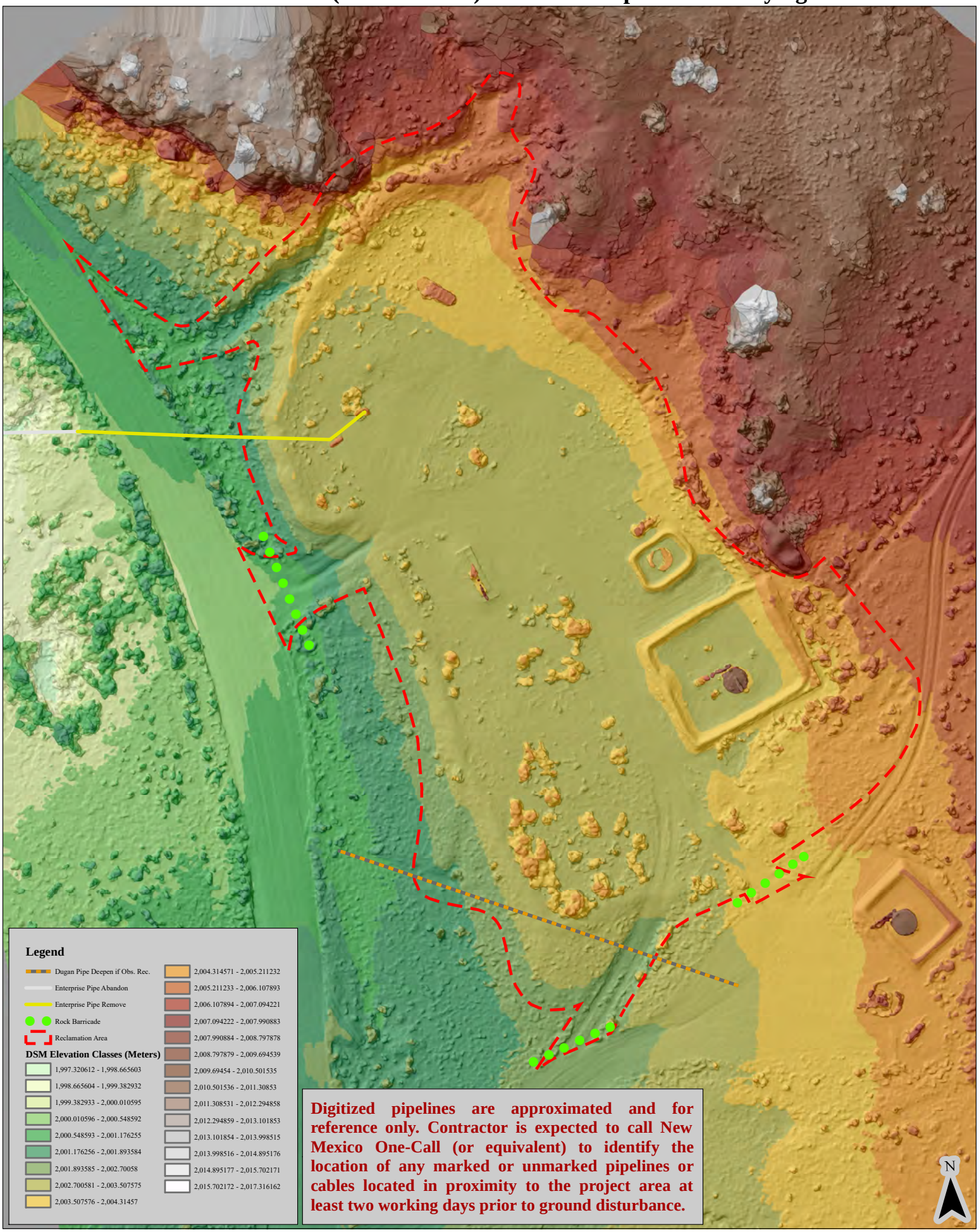


Author: Casey Haga
Date: 6/11/2020

0 25 50 100 Feet

Data Source Statement:
David Rogers of Enduring and ESRI, INC.

Theodore Zink COM 001 (30-039-22923) Elevation Map with Underlying Hillshade



Author: Casey Haga
Date: 6/11/2020

0 25 50 100 Feet

Data Source Statement:
David Rogers of Enduring and ESRI, INC.

3 Reclamation Techniques

All activities associated with the abandonment of the Theodore Zink COM 001 well are limited to areas approved in the Application for Permit to Drill (APDs) and/or the Right-of-Way (ROW) Grants.

3.1 P&A Marker

An above grade steel pipe well monument will be fixed to the top of the wellbore with all information required per regulation legibly welded on the pipe.

3.2 Vegetation and Site Clearing

Vegetation that has re-established within the interim reclaimed portions of the disturbance area will be mulched and incorporated into the topsoil as additional organic matter.

3.3 Topsoil Stripping, Storage, and Replacement

The upper 6 inches of topsoil (if available) will be stripped following vegetation and site clearing. Topsoil will not be mixed with the underlying subsoil horizons and will be temporarily stockpiled separate from subsoil or other excavated material during recontouring. Topsoil will be spread evenly over sub-soils upon completion of recontouring operations and prior to final seedbed preparation. Spreading shall not be done when the ground or topsoil is to wet to adequately support construction equipment.

3.4 Recontouring

All disturbed areas related to the Theodore Zink COM 001 will be recontoured to blend with the surrounding landscape, emphasizing, restoration of the existing drainage patterns and landforms to pre-construction condition to the extent practicable.

3.4.1 Well Pad

The well pad will be contoured to blend with the surrounding landforms removing signs of cut/fill slopes. The fill slope on the western side of location will be pushed (dozer)/ excavated (excavator)/ or carried (belly scraper) and placed within the cut slope on the eastern side of location. Natural rolling contours will be implemented to break up the surface and aid in removing signs of the well pad once vegetation establishes. Storm water entering the eastern side of location will be gathered in multiple silt traps to be constructed atop the cut slope at the entry of each drainage onto reclamation. Additional silt traps may be implemented across the lower areas of the recontoured well pad as needed. These silt traps will help slow the velocity of storm water through location, allow settling of suspended materials, and minimize erosion. The exact location and size of these silt traps will be determined during reclamation to best fit the recontoured terrain. Excelsior waddles or other biodegradable material may be used to prevent cutting and sediment transportation if needed within diversions and spillways. There is currently a large diversion that takes storm water around the northern end of location. This diversion will be filled in and all erosion related thereto on the eastern side of CR 379/NM 403 filled. Access points to the reclaimed location will be barricaded with large rock that can be sources on the northern edge of location.

3.4.2 Access Road

The Theodore Zink COM 001 has several access points off adjacent CR 379/NM 403 and Dugan's Gallo Gathering System CDP location. Total consolidated length of all access points is approximately 200 feet. Since these access roads are short and predominantly within well pad

disturbance, they will be reclaimed concurrently with the pad. Silt traps may be incorporated into the reclaimed access points to discourage use after reclamation and reduce erosion. The reclaimed access points will be ripped if needed and seeded. The access points will be barricaded with large sandstone rocks that can be sourced from the northern end of the well pad. Please see the orthomosaic image map in section 2.7 for location of barricade.

3.4.3 Pipeline Corridor

BLM requests that the well-connect pipeline be cut and capped off location on the west side of CR 379/NM 403. The pipeline needs removed from location and from under roadway. Additionally, BLM request that the pipeline be cut and caped at the tie in point. Disturbance resulting from pipeline work will be reclaimed.

3.5 Water Management/Erosion Control Features

Multiple silt traps will be incorporated into the reclamation. At least three of these silt traps will be on the eastern side of location where storm water will channel onto the reclamation due to the natural surrounding terrain. Additional silt traps and low pocket areas may be established within the reclaimed roadway and down gradient within location. The exact location and size of silt traps will be determined during reclamation to best fit the recontoured terrain. Diversions will be incorporated as needed. Diversions will be via rolling berms as opposed to cut diversion ditches. Excelsior waddles or other biodegradable material may be used to prevent cutting and sediment transportation if needed within diversions and spillways. If additional diversions or silt traps are found to be necessary during reclamation dirt work, they will be installed at that time. Ripping and disking would be conducted perpendicular to the recontoured slopes to promote water retention and provide terracing to prevent erosion and rills. Additional erosion control or water management features that may be used, if needed, include (but are not limited to) water bars or rolling dips, check dams, erosion control blankets or geotextiles, and straw wattles.

3.6 Seedbed Preparation

Seedbed will be prepped after the location has been contoured and topsoil has been evenly redistributed. Seedbed preparation within compacted areas will include ripping to a minimum depth of 18 inches, unless bed rock is encountered at a shallower depth, and spacing furrows 2 feet apart. Ripping will be conducted perpendicularly in two phases, where practicable. If large clumps/clods result from the ripping process, disking will be conducted perpendicular to slopes in order to provide terracing and minimize runoff and erosion. Final seedbed preparation will consist of raking or harrowing the spread topsoil prior to seeding to promote a firm (but not compacted) seedbed without surface crusting.

3.7 Seeding

Prior to seeding, the contractor is to notify Enduring resources that dirt work is complete. The BLM and Enduring will inspect the recontoured location and silt traps prior to seeding. The seed mix chosen for this project area is listed in Table 1. Seeding will occur immediately following recontouring and seedbed preparation. A disc-type seed drill with two boxes for various seed sizes will be utilized for seeding. Enduring or its reclamation subcontractor will ensure that perennial grasses and shrubs are planted at the appropriate depth. Intermediate size seeds (such as wheatgrasses and shrubs) will be planted at a depth of 0.5 inch, larger seeds (such as Indian ricegrass) will be planted at a depth of 1 to 2 inches, and small seeds (such as sand dropseed) will be planted at a depth of 0.25 inch. In situations where differing planting depths are not practicable with the equipment being used, the entire mix will be planted no deeper than 0.25 inch. A drag, packer, or roller will follow the seeder to ensure uniform seed coverage and adequate compaction. Seeding will

be run perpendicular to slopes in order to minimize runoff and erosion.

Drill seeding may be used on well-packed and stable soils that occur on gentler slopes and where tractors and drills can safely operate. Where drill seeding is not practical, the contractor will hand-broadcast seed using a "cyclone" hand seeder or similar broadcast seeder. Galleta and seeds the like, may also be broadcast; due to the light fluffy nature of these seeds, they do not seed well through a drill seeder. Broadcast application of seed requires a doubling of the drill-seeding rate. The seed will then be raked into the ground so the seed is planted no deeper than 0.25 inch below the surface.

3.8 Vegetation Reclamation Standards

Reclamation will be deemed successful when a self-sustaining, vigorous, diverse, native (or otherwise accepted) plant community is established on site, with a density meeting required foliar cover in table 2 below. Erosion control will be deemed successful when the aforementioned vegetation has established and there is no gullying, headcutting, deep or excessive rilling, and slumping (unless intentionally depressed (silt trap) for velocity and volume control).

Table 2. Reclamation Goal for Sagebrush/Grass Community

Functional Group	Percent (%) Foliar Cover	Common Species
Trees/Shrubs/Grasses/Forbs	>35	Utah juniper, Piñon pine; big sagebrush, four-wing saltbush, antelope bitterbrush, alkali sacaton, Western wheatgrass, Indian ricegrass, galleta, sand dropseed, scarlet globemallow, wooly Indian wheat, fleabane, Penstemon spp., buckwheat, threadleaf groundsel.
Invasive/undesirables **10% allowed toward meeting standard of 35%.**	≤10	Plants that have the potential to become a dominant species on a site where its presence is a detriment to revegetation efforts or the native plant community. Examples of invasive species include cheatgrass, Russian thistle, kochia.

3.9 Noxious and Invasive Weed Control

Should any noxious or invasive weeds be documented on any portions of the action area after earthwork and seeding activities, the BLM-FFO weed coordinator would provide Enduring with specific requirements and instructions for weed treatments, including the period of treatment, list of approved herbicides, required documentation to be submitted to the BLM-FFO after treatment, and any other site-specific instructions that may be applicable.

4 Monitoring Requirements

Enduring will complete a site assessment of reclamation success on an annual basis to track and confirm successful reclamation of the site in accordance with the success criteria outlined in Table 2 above. When vegetation on the reclaimed site appears to meet the success criteria, Enduring will document that standards have been obtained and submit a Final Abandonment Notice (FAN).

5 Pre-Reclamation Site Photographs

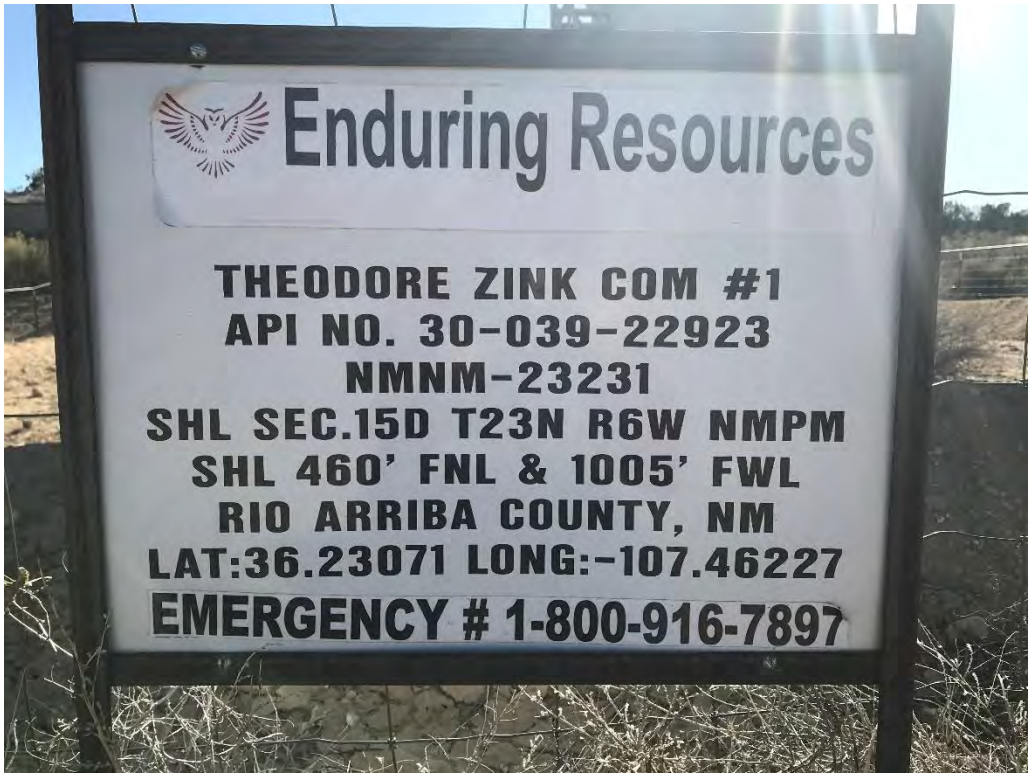


Figure 1. Well sign.

Figure 2. Access road entry 1 start looking northeast.

Figure 3. Access road entry 2 mid looking southwest.

Figure 4. Access road entry 3 mid looking southeast.

Figure 5. Production equipment to be removed.

Figure 6. Production equipment to be removed.

Figure 7. Production equipment to be removed.

Figure 8. Possible drip pot in foreground to be removed.

Figure 9. Electric drop pole to be removed.

Figure 10. Production equipment to be removed and well to be plugged.

Figure 11. Measurement equipment to be removed.

Figure 12. Methanol drip equipment to be removed.

Figure 13. Enterprise pipeline leaving location looking west-northwest. BLM requests pipeline be cut and capped on opposite side of roadway and removed roadway and location.

Figure 14. Fill slope on northwest corner looking southeast.

Figure 15. Near northwest corner looking south-southeast across fill slope.

Figure 16. Near southwest corner looking northwest across fill slope.

Figure 17. Near southwest corner looking northeast up fill slope toward cut.

Figure 18. Cut slope at southeast corner behind tank looking northwest.

Figure 19. On eastern side looking south along cut slope.

Figure 20. On eastern side looking north-northwest along cut slope.

Figure 21. Northeast corner looking west-south west down cut slope toward fill.

Figure 22. Diversion atop cut slope on northern end of location.

Figure 23. Erosion from diversion that will be filled and reclaimed.

6 References

43 CFR Part 3160, "Onshore Oil and Gas Order No. 1; Onshore Oil and Gas Operations; Federal and Indian Oil and Gas Leases; Approval of Operations," 72 Federal Register 44 (March 2007), pp. 10328-1033

BLM. 2013a. Farmington Field Office Bare Soil Reclamation Procedures. Available at: http://www.emnrd.state.nm.us/MMD/AML/documents/FFOBareSoilReclamationProcedures2-1-13.pdf. Accessed October 2019.

U.S. Department of the Interior - U.S. Department of Agriculture (USDI-USDA). 2007. Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development. BLM/WO/ST-06/021+307/REV 07. Bureau of Land Management. Denver, Colorado. 84 pp.

OPERATOR: ENDURING RESOURCES
WELL: THEODORE ZINK COM 001
FIELD: GALLUP
API #: 30-039-22923
ER WELL #: NM06044.01
WI/NRI: 100.0000% / 77.8600%

CNTY: Rio Arriba FTG: 460' FNL & 1005' FEL
STATE: NM Q-Q: NWNW
SPUD: 04/13/82 SEC.: 15
COMP: 05/09/82 TWS: T23N
STATUS: SI - INA RGE: R06W
WBD DATE: 05/11/20 BY: ACB

CURRENT WELLBORE DIAGRAM

KBE: 6836 '
KB: 15 '
GLE: 6821 '

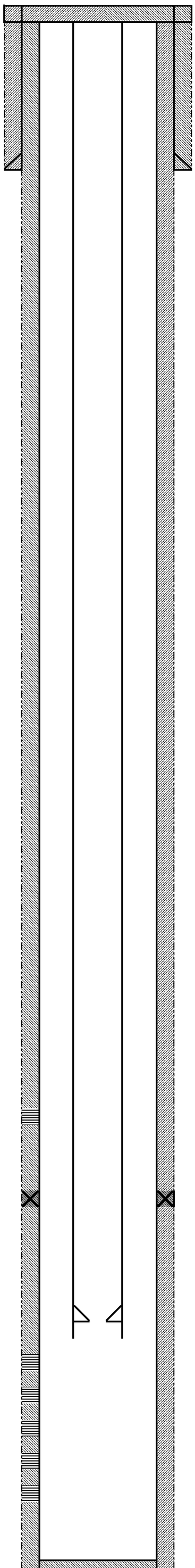
TD (ft): 5705 '
PBTD (ft): 5656 '

12-1/4" Hole
8-5/8" J55 Csg @ 239 '
Cmt w/170 sxs, circ to surface

FORMATION TOPS
Nacimiento @ 737 '
Ojo Alamo @ 1417 '
Kirtland @ 1529 '
Fruitland @ 1760 '
Pictured Cliffs @ 1997 '
Lewis @ 2122 '
Chacra @ 2417 '
Cliff House @ 3506 '
Menefee @ 3510 '
Point Lookout @ 4211 '
Mancos @ 4517 '
Gallup @ 5442 '

DV Tool in 4-1/2" Csg @ 4,536 '

ORIG PBTD @ 5656 '
4-1/2" 10.5# Csg @ 5700 '
TD @ 5705 '
Stg 1: Cmt w/225 sxs
Stg 2: Cmt w/800 sx, circ 8 bbls to surf



CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
12 1/4	8 5/8	20.0	J-55	0	239
7 7/8	4 1/2	10.5	J-55	0	5700

TUBING RECORD COND: DATE:

SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	TALLY (ft)	JTS
2 3/8	4.7	J55	0	5280.00	162

PERFORATION RECORD

ZONE	TOP (ft)	BTM (ft)	HOLES	STAGE	STATUS	VOL / PROP
MANCOS	4498	4499	1	1	75Q N2	
GALLUP	5322	5328	3	1	75Q N2	
GALLUP	5342	5344	2	1	75Q N2	
GALLUP	5458	5468	6	1	75Q N2	
GALLUP	5496	5498	2	1	75Q N2	
GALLUP	5528	5538	6	1	75Q N2	
			20 holes			**165,600 lbs**

OPERATOR: ENDURING RESOURCES
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FIELD: GALLUP
API #: 30-039-22923
ER WELL #: NM06044.01
WI/NRI: 100.0000% / 77.8600%

CNTY: Rio Arriba FTG: 460' FNL & 1005' FEL
STATE: NM Q-Q: NWNW
SPUD: 04/13/82 SEC.: 15
COMP: 05/09/82 TWS: T23N
STATUS: SI - INA RGE: R06W
WBD DATE: 05/11/20 BY: ACB

PROPOSED P&A WELLBORE DIAGRAM

KBE: 6836 '
KB: 15 '
GLE: 6821 '

TD (ft): 5705 '
PBTD (ft): 5656 '

12-1/4" Hole
8-5/8" J55 Csg @ 239 '
Cmt w/170 sxs, circ to surface

FORMATION TOPS

Nacimiento @	737 '
Ojo Alamo @	1417 '
Kirtland @	1529 '
Fruitland @	1760 '
Pictured Cliffs @	1997 '
Lewis @	2122 '
Chacra @	2417 '
Cliff House @	3506 '
Menefee @	3510 '
Point Lookout @	4211 '
Mancos @	4517 '
Gallup @	5442 '

DV Tool in 4-1/2" Csg @ 4,536 '

ORIG PBTD @ 5656 '
4-1/2" 10.5# Csg @ 5700 '
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Stg 1: Cmt w/225 sxs
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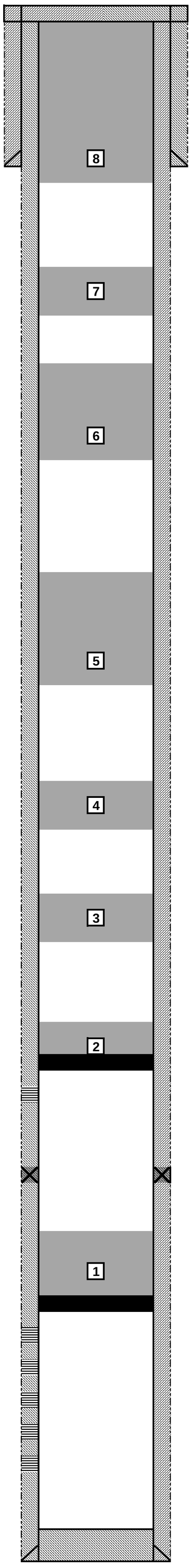

CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
12 1/4	8 5/8	20.0	J-55	0	239
7 7/8	4 1/2	10.5	J-55	0	5700

PERFORATION RECORD

ZONE	TOP (ft)	BTM (ft)	HOLES
MANCOS	4498	4499	1
GALLUP	5322	5328	3
GALLUP	5342	5344	2
GALLUP	5458	5468	6
GALLUP	5496	5498	2
GALLUP	5528	5538	6
			20 holes

PLUG #8: SURFACE CASING SHOE, SURFACE
BALANCED PLUG
CEMENT 0 ' - 289 '
PLUG VOLUME 27 sx *50 ' excess required (inside casing)*

PLUG #7: NACIMIENTO TOP
BALANCED PLUG
CEMENT 687 ' - 787 '
PLUG VOLUME 12 sx *50 ' excess required (inside casing)*

PLUG #6: KIRTLAND TOP, OJO ALAMO TOP
BALANCED PLUG
CEMENT 1367 ' - 1579 '
PLUG VOLUME 21 sx *50 ' excess required (inside casing)*

PLUG #5: PICTURED CLIFFS TOP, FRUITLAND TOP
BALANCED PLUG
CEMENT 1710 ' - 2047 '
PLUG VOLUME 31 sx *50 ' excess required (inside casing)*

PLUG #4: CHACRA TOP
BALANCED PLUG
CEMENT 2367 ' - 2467 '
PLUG VOLUME 12 sx *50 ' excess required (inside casing)*

PLUG #3: CLIFFHOUSE TOP
BALANCED PLUG
CEMENT 3456 ' - 3556 '
PLUG VOLUME 12 sx *50 ' excess required (inside casing)*

PLUG #2: MANCOS PERFORATIONS, MANCOS TOP
4-1/2" CICR 4448 '
CEMENT 4348 ' - 4448 '
PLUG VOLUME 12 sx ABOVE CICR *50 ' excess required (inside casing)*

PLUG #1: GALLUP PERFORATIONS, GALLUP TOP
4-1/2" CICR 5272 '
CEMENT 5172 ' - 5272 '
PLUG VOLUME 12 sx ABOVE CICR *50 ' excess required (inside casing)*

CEMENT & CASING INFORMATION
- ALL PLUGS ASSUME CLASS G NEAT CEMENT
- STABILIZNG WELLBORE FLUID IS 8.3 PPG, SUFFICIENT TO BALANCE ALL WELLBORE PRESSURES, UNLESS NOTED OTHERWISE IN PROCEDURE

CEMENT DENSITY:	**15.80** PPG
CEMENT YIELD:	**1.15** CUFT / SX
MIX WATER REQUIRED:	**5.00** GAL / SX
4-1/2" CSG CAPACITY:	**0.0895** CUFT / FT
4-1/2" CSG x 8-5/8" CSG CAPACITY:	**0.2555** CUFT / FT
4-1/2" CSG x 7-7/8" HOLE CAPACITY:	**0.2278** CUFT / FT

ENDURING RESOURCES IV, LLC

PLUG AND ABANDONMENT PROCEDURE

WELL: THEODORE ZINK COM 001
API: 30-039-22923
ER WELL: NM06044.01
LOCATION: 460' FNL & 1005' FEL, Sec.15, T23N, R06W
COUNTY: Rio Arriba
STATE: NM

NOTES:

1) All cement volumes assume 100% excess volume outside pipe and 50' excess inside pipe. Cement will be Class 'G' (15.8 ppg and 1.15 cuft/sx). A stabilizing wellbore fluid with density of 8.3 ppg will be sufficient to balance pressures encountered in the well.
2) Any waste fluids circulated from the well to surface, including excess cement, will be stored in steel tanks and then disposed of at an approved disposal facility.
3) Notify BLM and NMOCD prior to beginning well-work operations. Comply with all BLM and NMOCD regulations. Obtain approval from BLM and NMOCD prior to making any changes or adjustments to the procedure.
4) Plugs will be adjusted as necessary depending on the results of any RCBLs.
5) Wait on cement, tag, and spot additional cement plugs as necessary depending on results of casing pressure tests.
6) Hold safety meetings daily (minimum) with all personnel on location. Record tubing, casing, and bradenhead pressures daily on reports.
7) Test and install rig anchors, if necessary (if rig does not have a base-beam).

PROCEDURE:

1) MIRU daylight pulling unit and associated equipment.
2) Blow down well. Kill well. ND WH. NU BOPE and test.
3) TOH and LD production tubing
4) PU and TIH with 2-3/8" work-string and 4-1/2" casing scraper to 5,322' (top Gallup perf). TOH. LD scraper.
5) ***PLUG #1: GALLUP PERFORATIONS, GALLUP TOP***
TIH with 4-1/2" CICR on 2-3/8" work-string. Set CICR. MIRU Cementers. Pump cement. TOH.

4-1/2" CICR:	5,272'		
Plug Coverage:	5,172'	to	5,272'
Cement Volume:	12 sx	*ABOVE CICR*	
	12 sx	***TOTAL***	

6) ***PLUG #2: MANCOS PERFORATIONS, MANCOS TOP***
TIH with 4-1/2" CICR on 2-3/8" work-string. Set CICR. Prior to pumping cement, load casing and pressure test to 550 psig for 30 minutes. Pump cement. Pull up hole to spot additional plugs.

4-1/2" CICR:	4,448'		
Plug Coverage:	4,348'	to	4,448'

Cement Volume:	12 sx	*ABOVE CICR*
	12 sx	***TOTAL***

7) ***PLUG #3: CLIFFHOUSE TOP***

Spot balanced plug. Pull up hole.

Plug Coverage:	3,456'	to	3,556'
Cement Volume:	12 sx		
	12 sx	***TOTAL***	

8) ***PLUG #4: CHACRA TOP***

Spot balanced plug. Pull up hole.

Plug Coverage:	2,367'	to	2,467'
Cement Volume:	12 sx		
	12 sx	***TOTAL***	

9) ***PLUG #5: PICTURED CLIFFS TOP, FRUITLAND TOP***

Spot balanced plug. TOH.

Plug Coverage:	1,710'	to	2,047'
Cement Volume:	31 sx		
	31 sx	***TOTAL***	

10) ***PLUG #6: KIRTLAND TOP, OJO ALAMO TOP***

Spot balanced plug. Pull up hole.

Plug Coverage:	1,367'	to	1,579'
Cement Volume:	21 sx		
	21 sx	***TOTAL***	

11) ***PLUG #7: NACIMIENTO TOP***

Spot balanced plug. Pull up hole.

Plug Coverage:	687'	to	787'
Cement Volume:	12 sx		
	12 sx	***TOTAL***	

12) ***PLUG #8: SURFACE CASING SHOE, SURFACE***

Spot balanced plug. TOH.

Plug Coverage:	0'	to	289'
Cement Volume:	27 sx		
	27 sx	***TOTAL***	

13) ND BOPE. Cut off casing and wellhead (minimum of 3' below finished grade). Top off annulus and casing with cement, if required. RDMO cement equipment. Install below-grade P&A marker (minimum 1/4" thick steel plate with weep hole, welded in place covering the well, well information permanently inscribed). RDMO.

14) Complete surface reclamation as per approved reclamation plan.

Created by: A. Bridge 5/11/2020

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 31914

COMMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 31914
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 6/22/2021	6/22/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 31914

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 31914
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	6/22/2021
kpickford	In addition to BLM approved plugs:	6/22/2021
kpickford	Ensure coverage from 3620-3520 to cover the MV top at 3570.	6/22/2021
kpickford	Ensure coverage from 2830-2730 to cover the Chacra top @ 2780	6/22/2021
kpickford	Extend top of PC/Fruitland plug to 1660 to cover the Furitland top @ 1710.	6/22/2021
kpickford	Extend bottom of Kirtland/Ojo plug to 1658 to cover the Kirtland top @ 1608.	6/22/2021