Form 3160-5 (June 2019)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMENT	
DOV MOTICES AND DEPORTS ON WELLS	

BUREAU OF LAND MANAGEMENT		5. Lease Serial No. NM	ISF079609
SUNDRY NOTICES AND REPORTS ON V Do not use this form for proposals to drill or t abandoned well. Use Form 3160-3 (APD) for su	o re-enter an	6. If Indian, Allottee or	Tribe Name
SUBMIT IN TRIPLICATE - Other instructions on page	ge 2	7. If Unit of CA/Agreen	nent, Name and/or No.
1. Type of Well Oil Well Gas Well Other		8. Well Name and No.	ACCRODEN A/1
2 Name of Operator		9. API Well No. 300390	Denne
2. Name of Operator LOGOS OPERATING LLC	. (include area code)	10. Field and Pool or Ex	
3a. Address 2010 AFTON PLACE, FARMINGTON, NM 87401 3b. Phone No. (505) 278-87		TAPACITO/TAPACI	1
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 9/T25N/R3W/NMP		11. Country or Parish, S RIO ARRIBA/NM	tate
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	ICE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION	TYPE OF AC	TION	
Notice of Intent Acidize Dee Alter Casing Hyd	=	luction (Start/Resume) amation	Water Shut-Off Well Integrity
Subsequent Report = 5	=	omplete porarily Abandon	<b>V</b> Other
		er Disposal	
is ready for final inspection.)  Surface Owner is Fee, LOGOS will coordinate with the Fee owner to a Please see attached P&A Procedure for the McCroden A 1	establish final reclamation.	Accept	ed for record – NMOCD —05/03/2023_—
14. I hereby certify that the foregoing is true and correct. Name ( <i>Printed/Typed</i> )  DACYE SHULL / Ph: (505) 324-4145	REGULATORY TE	СН	
Signature Dacye Shull	Date	03/22/202	23
THE SPACE FOR FED	ERAL OR STATE OF	ICE USE	
Approved by			
KENNETH G RENNICK / Ph: (505) 564-7742 / Approved	Petroleum Eng Title		04/06/2023 ate
Conditions of approval, if any, are attached. Approval of this notice does not warran certify that the applicant holds legal or equitable title to those rights in the subject l which would entitle the applicant to conduct operations thereon.		0	
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for a any false, fictitious or fraudulent statements or representations as to any matter with		Ifully to make to any dep	artment or agency of the United States

(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

(Form 3160-5, page 2)

## **Additional Information**

## **Location of Well**

0. SHL: NENE / 945 FNL / 945 FEL / TWSP: 25N / RANGE: 3W / SECTION: 9 / LAT: 36.417096 / LONG: -107.144547 ( TVD: 0 feet, MD: 0 feet ) BHL: NENE / 945 FNL / 945 FEL / TWSP: 25N / SECTION: / LAT: 36.417096 / LONG: 107.144547 ( TVD: 0 feet, MD: 0 feet )



# Proposed Plug and Abandonment Procedure McCroden A 1 API: 30-039-06096

#### Notes:

- LOGOS requests to P&A the subject well.
- All cement volumes use 100% excess outside pipe and 50' excess inside.
- All cement will be Class G with a 1.15 cf/sk yield or equivalent.
- All plugs are subject to change pending CBL results.
- Comply with all NMOCD, BLM, and LOGOS safety rules and regulations. Conduct safety meeting for all personnel on location.
- 2. MOL and RU. Lay flow lines. Check and record bradenhead and casing pressures.
- 3. POOH tubing and stand back joints that pass visual inspection.
- 4. Set CR at 3625' or within 50' higher.
- 5. Roll hole with fresh water and pressure test the casing to 560 psi for 15 minutes.
  - a. If pressure test fails, WOC and tag and record each plug top and top off with more cement if necessary.
- 6. Conduct cement bond log from the CR at 3625' to surface.
- 7. Send cement bond log results to NMOCD and BLM to verify cement volumes and inside/outside plugs.
- 8. Plug #1: 3326'-3625' (Perforations at 3675' / Pictured Cliffs top: 3670' / CR: 3625' / Fruitland top: 3516' / Kirtland top: 3425' / Ojo Alamo top: 3376'): Mix and spot 41 sx Class G cement.
- 9. **Plug #2: 867'-967' (Nacimiento top: 917'):** Perforate squeeze holes at 967'. Attempt to establish rate. TIH and set 5.5" CR at 917'. Mix and pump 49 sx Class G cement, squeeze 31 sx outside casing and leave 18 sx inside casing.
- 10. **Plug #3: 0'-252' (Surface casing shoe: 202'):** Perforate squeeze holes at 252'. Attempt to establish rate. TIH and set 5.5" CR at 202'. Mix and pump 112 sx Class G cement, squeeze 76 sx outside casing and leave 36 sx inside casing.
- 11. ND BOP and cut off wellhead below surface casing flange. Top off with cement if needed. Install P&A marker with cement per regulations. Photograph P&A marker in place. Cut off anchors and restore location per BLM stipulations.



# McCroden A 1 - P&A Planning

Formations	Tops (ft)
Surface	202
Nacimiento	917
Ojo Alamo	3376
Kirtland	3425
Fruitland	3516
CR	3625
Pictured Cliffs	3670

5.5" csg capacity (ft3/ft)	0.1336
5.5" csg / 7.875" hole capacity (ft3/ft)	0.1733
5.5" csg / 9.625" csg capacity (ft3/ft)	0.2769

Yield (ft3/sk)	1.15
11210 [110] 211]	

Plugs	Reason	Inside/Outside	Тор	Bottom	Total Length of Plug (ft)	Inside Csg Volume (cf/ft)	Outside Csg Volume (cf/ft)	# of sx inside (1.15 yield & 50' excess)	# of sx outside (1.15 yield & 100% excess)	Total # sx
1	CR/Perforations/Frui tland/Kirtland/Ojo	Inside	3326	3625	299	0.1336	0.1733	41	0	41
2	Nacimiento	Inside/Outside	867	967	100	0.1336	0.1733	18	31	49
3	Surface	Inside/Outside	0	252	252	0.1336	0.2769	36	76	112

Total Cmt 202



#### **Wellbore Schematic**

Well Name:	McCroden A		TEL	Date Prepared:	10/19/2018 Gomez
Location: County:	Rio Arriba	R03W 945' FNL & 945'	FEL	_ Last Updated: _ Spud Date:	3/15/2023 Moss 4/4/1956
API#:	30-039-06090			Completion Date: _	7/6/1956
Co-ordinates: Elevations:	GROUND:	52 Long -107.1445313 7174'		Last Workover Date:	
David a (IVD)	KB:	7185'		- -	
Depths (KB):	PBTD: TD:	3740' 3760'		- -	
	All Depths KB	Hole Size	Surface Casing: (4/30/19	056)	
Surface Casing 9-5/8", 32.3#, H-40 7 jts set at 202'		13-3/4" 0'-208'	Drilled a 13-3/4" surface	hole to 208'. Set 7 jts 9-5/8", 32.3#, of Class C cmt, circ cmt to surface.	H-40 casing at 202'.
150 sxs Circ to surface 202'		TOC at surface (circ)	Intermediate Casing: (5,6) Drilled a 7-7/8" intermediate Cmt w/ 150 sxs of Cla	ate hole to 3760'. Set 124 jts 5-1/2",	15.5#, J-55 casing at 3758'.
	1 1 1 1		TOC at 2667' (estimat	ed using 1.18 yld and 75% efficenc	y)
			Production Casing Line	er:	
		7-7/8" 208'-3760'			
		200-3700	Tubing: (10/26/1956)		Length (ft)
			KB	TIE Ord the ite	11
			(132) 2-3/8", 4.7# J-55, E	OE ard tog jts	3661
<u>Intermediate Csg</u> 5-1/2", 15.5#, J-55			Rods:	Set at:	3672 ft
124 jts set at 3758'	1 1 1 1		n/a		
150 sxs TOC 2667' (calc)	1 1 1 1				
100 2007 (calc)	1 1 1 1				
			Pumping Unit:		
	1 1 1 1		n/a		
	1 1 1 1				
			Perforations: (7/4/1956)		
			Pictured Cliffs: (3675' - 3	713')- 4 SPF. Frac w/ 40,000gal H20	0 and 20,000# sand.
	1 1 1 1				
<u>Tubing</u>	1 1 1 1		Formations:		
2-3/8", 4.7#, J-55	1 1 1 1		Nacimiento	917'	
132 jts EOT at 3672'	1 1 1 1		Ojo Alamo Kirtland	3376' 3425'	
EO1 at 3072			Fruitland	3516'	
			Pictured Cliffs	3670'	
	1 1 1 1				
		TOC at 2667' (calc)	Additional Notes:		
		TOC at 2007 (calc)		mpletion, lost 11 tbg jts downhole. F	ished & recovered 9 jts,
			left 2 jts in hole. Top of t	fish at 3685'.	
			-		
0	''	PC: 3675'-3713'			
o Top of fish: 3685' o		2			
. 50 5. 11511. 5555					
3758'		COC at 2667' (calc)			
3.30	PBTD - 3740' TD - 3760'	(50.0)			



#### **Proposed P&A Wellbore Schematic**

Well Name:	McCroden A 1				
Location:	Sec 9, T25N,	R03W 945' FNL & 945' FEL			
County:	Rio Arriba				
API #:	30-039-06096				
Co-ordinates:	Lat 36 417095	Lat 36.4170952 Long -107.1445313			
Elevations:	GROUND:	7174'			
	KB:	7185'			
Depths (KB):	PBTD:	3740'			
	TD:	2700			

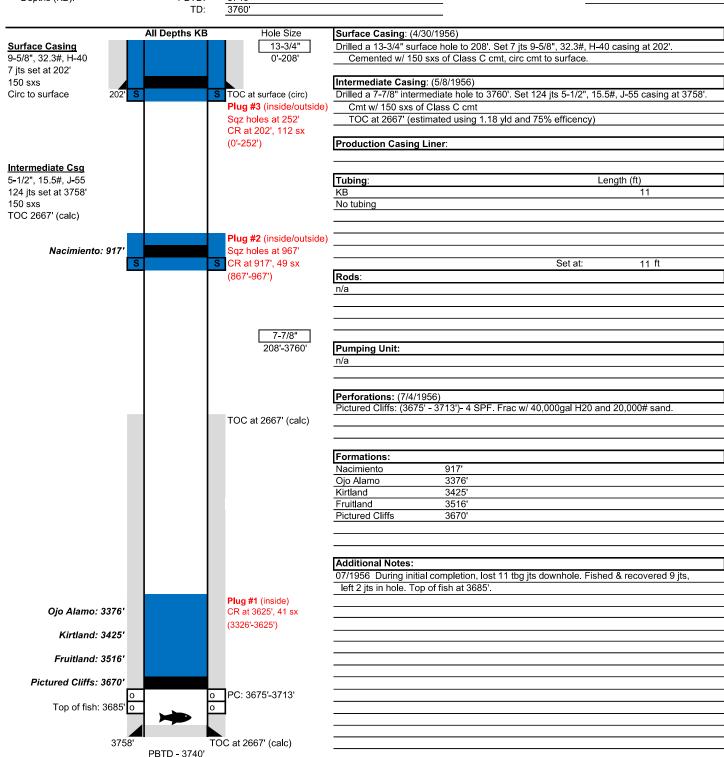
 Date Prepared:
 10/19/2018 Gomez

 Last Updated:
 3/15/2023 Moss

 Spud Date:
 4/4/1956

 Completion Date:
 7/6/1956

 Last Workover Date:
 4/4/1956



TD - 3760'

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

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 206161

#### **CONDITIONS**

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	206161
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### CONDITIONS

Created By		Condition Date
john.harrison	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	5/3/2023