# State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

Ken McQueen Cabinet Secretary Heather Riley, Division Director Oil Conservation Division



Matthias Sayer Deputy Cabinet Secretary

New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 10/17/18

Well information:

API WELL#	Well Name	Well #	Operator Name	Туре	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng W/E
30-045-06808- 00-00	RICHARDSON COM		LOGOS OPERATING, LLC	G		San Juan	S	N	2	27	N	13 W

Application Type:
P&A Drilling/Casing Change Location Change
Recomplete/DHC (For hydraulic fracturing operations review EPA
Underground injection control Guidance #84; Submit Gas Capture Plan form prior to
spudding or initiating recompletion operations)
Other: Bradenhead repair

### Conditions of Approval:

- Notify NMOCD 24 Hours prior to commencing activities.
- Notify the Agencies of any issues discovered.
- Provide any proposed remediation to the agencies for review and approval prior to beginning remediation.

NMOCD Approved by Signature

10/25/18 Date Form 3160-5 (June 2015)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

, 1	1 /	2015	5. Lease	Serial	No.

BURI	EAU OF LAND MANAGEMENT	061 11	23.3 S. Lease Seriai No.	NMSF 077972					
SUNDRY N	OTICES AND REPORTS ON W	6. If Indian, Allottee	6. If Indian, Allottee or Tribe Name						
	orm for proposals to drill or to	ld Office	ffice						
abandoned well. L	Jse Form 3160-3 (APD) for su	ch proposals.	anagament						
SUBMIT IN 1  1. Type of Well	<b>TRIPLICATE</b> - Other instructions on pag	ne 2	7. If Unit of CA/Agr	reement, Name and/or No.					
Oil Well Gas W	Becomed		8. Well Name and N	o. Richardson Com 3					
2. Name of Operator LOGOS Operation	ng, LLC			9. API Well No. 30-045-06808					
3a. Address 2010 Afton Place Farmington, NM 87401	3b. Phone No. (505) 787-22	(include area code) 18	10. Field and Pool or Basin Dakota						
<ol> <li>Location of Well (Footage, Sec., T.,R 1055 FSL &amp; 1775 FWL, SE/SW, N</li> </ol>				11. Country or Parish, State San Juan County, NM					
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OI	F NOTICE, REPORT OR OT	THER DATA					
TYPE OF SUBMISSION		TYPE	OF ACTION						
✓ Notice of Intent	Acidize Deep	raulic Fracturing	Production (Start/Resume) Reclamation	) Water Shut-Off Well Integrity					
Subsequent Report	Casing Repair New	Construction	Recomplete	✓ Other					
Final Abandonment Notice		and Abandon  Back	Temporarily Abandon Water Disposal	BH Remediation					
completed. Final Abandonment Not is ready for final inspection.)	ns. If the operation results in a multiple con ices must be filed only after all requirement Bradenhead Remediation per the attach 450553	BLM'S APP	on, have been completed and urrent wellbore diagram.  PROVAL OR ACCEPTANOES NOT RELIEVE THIS	the operator has detennined that the site					
oc.	MOCD T 2 3 2018	<b>AUTHORIZ</b>	R FROM OBTAINING AL LATION REQUIRED FO AL AND INDIAN LAND	R OPERATIONS					
01211	RICT III								
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Pagulatan, S.	nacialist						
Marie E. Florez		Regulatory S	pecialist						
Signature	all	Date	10/17/2	2018					
	THE SPACE FOR FED	ERAL OR STAT	E OFICE USE						
Approved by	avec	Title #		Date 10/18/18					
Conditions of approval, if any, are attach	and Approval of this notice does not warran quitable title to those rights in the subject le	t or	>						

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.

# Richardson Com 3 API: 30-045-06808

## Richardson Com 3 Bradenhead Remediation Plan of Action:

- 1. Contract wellhead company to check for secondary seal and replace if testing indicates failure
- 2. If wellhead testing/repair is done, conduct re-test of bradenhead
- 3. If bradenhead gas is not eliminated by wellhead repair, use workover rig for the following:
  - a. Set RBP to conduct casing MIT
  - b. If necessary, run cement bond log and remediate casing



#### **Wellbore Schematic**

 Well Name:
 Richardson Com 3

 Location:
 Sec 2, T27N, R13W 1055' FSL & 1775' FWL

 County:
 San Juan

 API #:
 30-045-06808

 Co-ordinates:
 Lat 36.5999107 Long -108.1915131

 Elevations:
 GROUND: 5957

 KB: 5969'

 Depths (KB):
 PBTD: 6180'

 TD: 6285'

TD - 6285'

Date Prepared: 11/7/2017

Last Updated: 10/16/2018 Hespe

Spud Date: 10/3/1964

Completion Date: 11/10/1964

Last Workover Date: 12/18/2017

	TD:	6285'							
	All depths KB	Hole Size	Surface Casing: (10/3/1964)						
Surface Casing	I I I I	12-1/4"	Drilled a 12-1/4" surface hole to 305'. Set 9 its 8-5/	/8" 24# K 55 casing set at 208'					
8-5/8", 24#, K-55	1 1 1 1	0-305'	Cmt'd w/ 220 sx regular w/ 2% CaCl. Circulated						
Set at 298'	1 1 1 1		Production Casing: (11/6/1964)						
	1 1 1 1								
220sx 298'	1 1 1 1	TOC at surface (circ)	Drilled a 7-7/8" prod. hole to 6285'. Set 190 jts 4-1/2", 10.5#, K-55 casing set at 6285'.						
TOC @ surface	1 1 1 1		Baker stage collar set at 1977' & 4358'.  1st Stage - Cmt'd w/ 400 cu.ft 50/50 Pozmix w/ 2%	Cool 12 1/2# giloopite 5# solt/ok 8 59/ T.L.C					
	1 1 1 1		TOC at 4543' per CBL (1964). * See notes for C						
	1 1 1 1		2nd Stage - Cmt'd w/ 550 cu.ft 40% diagel D, Class						
	1 1 1 1	DV tool set at 1977'	Calculated TOC at 2548' assuming 75% efficien						
	1 1 1 1	Circ. to surface	3rd Stage - Cmt'd w/ 800 cu.ft 40% diagel D Class						
	1111	Circ. to surface	Circulated to surface.	C W/ 12-1/2# gilsorine & 476 CaCi.					
			Tubing: (12/15/2017)	Longth (ft)					
			KB	Length (ft)					
	1 1 1 1		(1) 1-1/2", 2.9#, J-55 (1.90" OD)	32.4					
	1 1 1 1	TOC -1.25401		6.02					
	1 1 1 1	TOC at 2548'	(1) 1-1/2", 2.9#, J-55 marker joint (1.90" OD) (188) 1-1/2", 2.9#, J-55 (1.90" OD)	6095.5					
Draduation Cooling	1 1 1 1	per calc	(1) 1-1/2" SN/ sawtooth collar	1.1					
Production Casing			(1) 1-1/2 SN/ Sawtooti Collai	Set at: 6146.98 ft					
4-1/2", 10.5#, K-55	1 1 1 1		Rods:	Set at. 0140.90 It					
Set at 6285'	I I I I								
DV Tool 1 @ 4358'	1 1 1 1		Plunger Lift System						
Stage 1: 400 cu.ft	1 1 1 1		Darfarettana						
TOC @ 4720' (CBL)	1 1 1 1		Perforations:						
Stage 2: 550 cu.ft	1 1 1 1	D1/414-40501	(1964) Dakota: 6047'-6244' 1spf; 6047'-6050', 6065'-6080', 6098'-6103', 6121'-6127', 6133'-6137', 6141'-6145'.						
TOC @ 2548' (calc) DV Tool 2 @ 1977'	1 1 1 1	DV tool set at 4358'	4spf; 6163'-6165'. 1spf; 6165'-6174', 6189'-619						
Stage 3 @ 800 Cu.ft	1 1 1 1		Frac w/ 7K# 10/20sand & 60K# 20/40 sand. 110K gals wtr and 40 ton CO2.						
TOC @ surface	1 1 1 1	TOC at 4543'	Acidized w/ 500 gal 7-1/2% mud acid	or gais wil and 40 ton CO2.					
TOC W Surface	1 1 1 1	CBL (10/64)	Acidized W/ 500 gai 7-1/276 filled acid						
	1 1 1 1	CDE (10/04)	(12/1973) Squeezed perfs 6189'-6198', 6224'-6228	' 6240'-6244'					
	1 1 1 1		Cemented w/ 100 sx Class A. New PBTD at 618						
			Contented with the day of the training at the						
	1 1 1 1	7-7/8"	Formations:						
	1 1 1 1	305'-6285'	Kirtland- 300'	Lewis- 1630'					
	1 1 1 1	000 0200	Fruitland- 1250'	Mancos- 4300'					
	1 1 1 1		Pictured Cliffs- 1460'	Dakota- 6045'					
	1 1 1 1								
	1111		Additional Notes:						
[		o DK - 6047'-6174'	(12/14/17) Tagged fill at 6180'. Scanned 140 yellow	v, 20 blue, 8 green and 20 red tubing					
			joints. Red had severe pitting on pins. Pin hole of						
Tubing	3	S Squeezed DK perfs	(6/10/2008) Reported fill at 6189.4', PBTD at 6180'	installed new SN.					
1-1/2" 2.9# J-55	7 [	6189'-6198'	(12/73) Set 4-1/2" packer at 6180' and squeezed pe						
189 jts		S Squeezed DK perfs	New PBTD at 6180'.						
SN at 6145.9'		6224'-6228'	(1964) Drilled stage collars at 1977' & 4358'.						
EOT at 6146.98'		6240'-6244'	(1964) CBL - Good Bond: 4719'-4819', 5492'-5512'	, 5718'-5804', 6140'-6117', 6180'-6118'.					
est jt length 32.42'									
	1 1	Tagged fill at 6180'							
	4	(12/14/2017)							
6285'									
	PBTD - 6180'	* Original PBTD - 6251							