

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**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.*

5. Lease Serial No.  
NMNM013885

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit or CA/Agreement, Name and/or No.  
NMNM112562

1. Type of Well  
 Oil Well  Gas Well  Other: COAL BED METHANE

8. Well Name and No.  
FEDERAL 29-12-24 101

2. Name of Operator  
SYNERGY OPERATING, LLC  
Contact: GLEN PAPP  
E-Mail: gpapp@synergyoperating.com

9. API Well No.  
30-045-32852-00-S1

3a. Address  
FARMINGTON, NM 87499

3b. Phone No. (include area code)  
Ph: 505-599-4908 Ext: 1582  
Fx: 505-599-4900

10. Field and Pool or Exploratory Area  
BASIN FRUITLAND COAL

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 24 T29N R12W NWSW 1955FSL 885FWL  
36.710087 N Lat, 108.056505 W Lon

11. County or Parish, State  
SAN JUAN COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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
BP	<input type="checkbox"/> Change Plans	<input checked="" 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	

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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 recomplete 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 performed 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 determined that the site is ready for final inspection.

Synergy Operating LLC plans to plug and abandon the subject well.

Attached are the following documents:

- 1) Wellbore plugging plan
- 2) Reclamation plan

OCD Received  
4/8/2020

Notify NMOCD 24hrs  
prior to beginning  
operations

14. I hereby certify that the foregoing is true and correct.	
<b>Electronic Submission #496942 verified by the BLM Well Information System For SYNERGY OPERATING, LLC, sent to the Farmington Committed to AFMSS for processing by JOE KILLINS on 12/26/2019 (20JK0076SE)</b>	
Name (Printed/Typed) GLEN PAPP	Title OPERATIONS MANAGER / PARTNER
Signature (Electronic Submission)	Date 12/24/2019

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>JOE KILLINS</u>	Title <u>ENGINEER</u>	Date <u>03/12/2020</u>
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 <u>Farmington</u>

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)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

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**U.S. Department of the Interior  
Bureau of Land Management**

**Wellbore Plugging Plan**

**Synergy Operating, LLC**

**Federal 29-12-24 #101  
Plugging & Final Abandonment**

**Prepared by:**

**Glen O. Papp, P.E.  
Partner / Operations Manager**

**December 2019**

**Submitted Electronically**

**To: U.S. Department of the Interior-BLM  
Farmington District – FFO  
Farmington, NM 87402**

## Well Information:

<b>Well Name &amp; #:</b>	Federal 29-12-24 #101
<b>API #:</b>	30-045-32852
<b>Legal Location:</b>	1995' FSL & 885' FWL, Section 24-L, T-29-N, R-12-W, San Juan Co., NM
<b>Latitude/Longitude:</b>	36.71008 / -108.05650
<b>Federal Lease #:</b>	NMNM-013885
<b>USGS Topo Map:</b>	Horn Canyon, NM 1965 (PR 1979), USGS Quad Code: 36108-F1
<b>Drilling Spud date:</b>	May 11, 2005
<b>TD / PBTD:</b>	1825' / 1785'
<b>Surface Hole Size:</b>	12-1/4"
<b>Surface Casing:</b>	8-5/8" 24# J-55 @ 352' Cmt'd w/ 214-sxs Type III cmt – circ to surface
<b>Production Hole Size:</b>	7-7/8"
<b>Production Casing:</b>	5-1/2" 15.5# J-55 @ 1823' Cmt'd w/ 250-sxs cmt – circ to surface
<b>Perforations:</b>	Fruitland Coal: 1690-94', 1678-86', 1644-48', 1623-28', 1542-50', 1517-19'
<b>Tubing in Hole:</b>	53-Jts 2-3/8" 4.7# J-55 EUE w/ SN & MA, EOT @ 1746'
<b>Formation Tops (KB):</b>	Ojo Alamo @ 389', Kirtland @ 522', Fruitland @ 1396', PC @ 1693'

## Project Summary:

Synergy Operating, LLC ("Synergy") is the operator of the Federal 29-12-24 #101 well. A Fruitland Coal gas well. The well has not been economic for some time. Synergy is submitting a Notice of Intent to Abandon (NIA) to the BLM to permanently plug and abandon the well and reclaim the surface disturbances. The NIA will be submitted on the Sundry Notices and Reports on Wells, Form 3160-5.

## Proposed wellbore plugging procedure:

1. Notify BLM-FFO & NM OCD @ least 24-hrs prior to MIRU. MI well servicing rig. Check and record; P<sub>tbg</sub>, P<sub>csg</sub>, P<sub>bh</sub>. Load 2-3/8" tbg with water & PT to 1000#.
2. Unseat rod pump and TOH, laying down polished rod, polished rod liner, 3/4" rod subs, 64 – 3/4" rods, 4 – 1-1/4" sinker-bars and 2" x 1-1/4" x 12' RHAC pump.
3. ND WH & NU 7-1/16" 3M x 8-5/8" API Modified flange. NU BOPE & Function Test.
4. TOOH tallying 53-Jts 2-3/8" 4.7# J-55 EUE tbg, LD 2-3/8" Mud Anchor & SN.
5. TIH w/ 2-3/8" 4.7# J-55 EUE tbg OE'd to 1744'.
6. **Plug #1:** Mix and pump 62-sxs of Class 'G' cement and spot balanced plug F/1744' –T/1346'. PUH and WOC. TIH & tag TOC, top off if necessary.
7. PUH to 572', laying down 2-3/8" tbg. PT 5-1/2" 15.5# csg to 800#.

8. Pressure Test Bradenhead 8-5/8" x 5-1/2" annulus to 300#.
  - (a) If PT **Holds**, Mix and pump **Plug #2**, 67-sxs Class 'G' cement inside 5-1/2" casing F/572' – T/Surface.
  - (b) If PT **Fails**, TOO H w/ 2-3/8" tbg, RIH & perforate 5-1/2" as directed, Establish circulation & Mix and pump **Plug #2** (Volume TBD) inside and outside 5-1/2" casing from squeeze holes to surface.
9. TOO H and LD 2-3/8" tbg.
10. ND BOPE. Cut-off wellhead & rig anchors. Top off cement if necessary and install P&A marker.
11. RD well service rig.
12. Submit subsequent report plug and abandon (SRA) using the Sundry Notices and Reports on Wells Form 3160-5.
13. See Reclamation Plan for surface restoration.

### **Wellbore diagrams:**

Attached are simple wellbore schematics of the well before and after the above well work is completed.

# Federal 29-12-24 #101

Current  
Basin FtC

1855' FSL & 885' FWL, Section 24, T29N, R12W

San Juan County, NM, API #30-045-32852

Today's Date: 11/15/19

Spud: 5/11/05

Completed: 6/20/05

Elevation: 5641' GL

12-1/4" hole

8-5/8" 24# J-55 Casing set @ 352'  
Cement with 214 sxs, circulated to surface.

TOC @ 270' ('04 CBL)

Ojo Alamo @ 389

2-3/8" @ 1639', SN @ 1746'  
w/rods and pump

Kirtland @ 728'

Fruitland @ 1396'

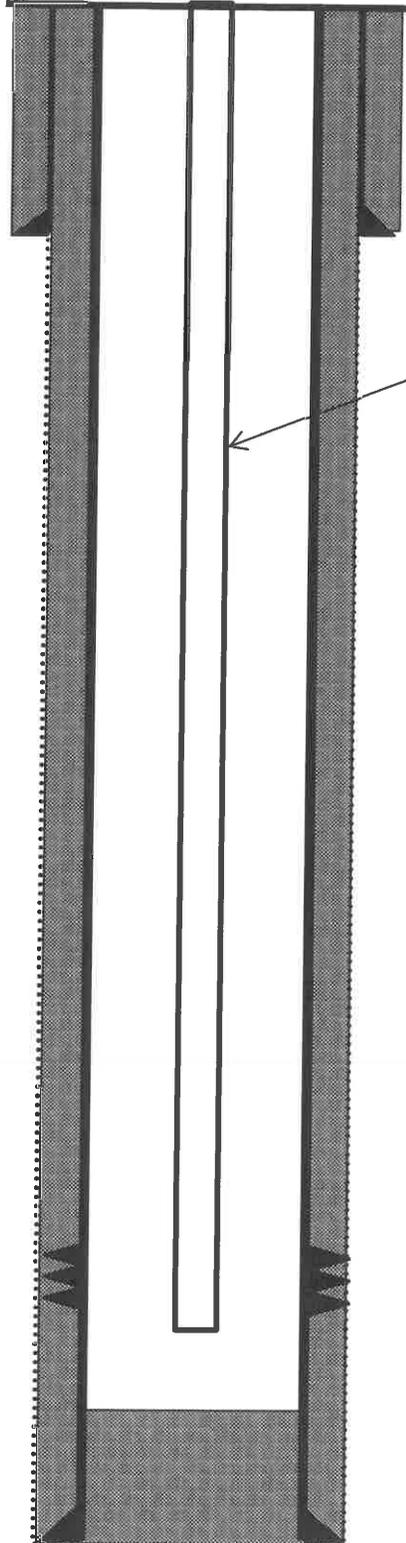
Pictured Cliffs @ 1693'

Fruitland Coal Perforations:  
1517' - 1694'

7-7/8" hole

5.5", 15.5#, Casing set @ 1823'  
Cement with 250 sxs, circulated

TD 1825'  
PBSD 1785'



# Federal 29-12-24 #101

## Proposed P&A

Basin FtC

1855' FSL & 885' FWL, Section 24, T29N, R12W

San Juan County, NM, API #30-045-32852

Today's Date: 11/15/19

Spud: 5/11/05

Completed: 6/20/05

Elevation: 5641' GL

12-1/4" hole

8-5/8" 24# J-55 Casing set @ 352'  
Cement with 214 sxs, circulated to surface.

TOC @ 270' ('04 CBL)

**Plug #2: 572' - 0'**  
Class G cement, 67 sxs

Ojo Alamo @ 389

Kirtland @ 522'

Fruitland @ 1396'

**Plug #1: 1744' - 1346'**  
Class G cement, 62 sxs

**Set CR @ 1467'**

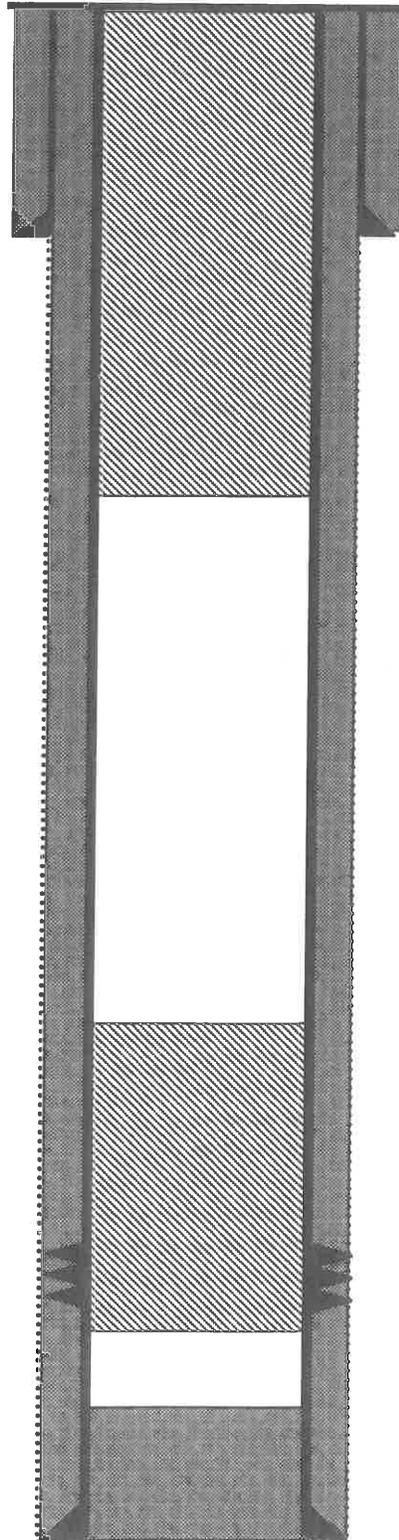
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Fruitland Coal Perforations:  
1517' - 1694'

7-7/8" hole

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Cement with 250 sxs, circulated

TD 1825'  
PBD 1785'



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

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Federal 29-12-24 101

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

**BLM FLUID MINERALS  
Geologic Report**

**Date Completed:** 3/11/20

Well No.	Federal 29-12-24 #101	Location	1955'	FSL	&	885'	FWL
Lease No.	NMNM013885	Sec. 24	T29N			R12W	
Operator	Synergy	County	San Juan		State	New Mexico	
Total Depth	1825'	PBTD	1785'		Formation	Basin Fruitland Coal	
Elevation (GL) 5641'		Elevation (KB) 5653' (est.)					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/Fresh water sands
Nacimiento Fm			Surface	403'	Fresh water sands
Ojo Alamo Ss			403'	583'	Aquifer (fresh water)
Kirtland Shale			583'	1396'	
Fruitland Fm			1396'	1703'	Coal/Gas/Possible water
Pictured Cliffs Ss			1703'	1773'	Gas
Lewis Shale			1773'		
Chacra (upper)					Probable water or dry
La Ventana Tongue					Probable water or dry
Cliff House Ss (main)					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					Source rock
Gallup					O&G/Water
Dakota					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.

Reference Well:

1)BP  
Crawford Com B # 1  
1450' FSL, 810' FWL  
Sec 24, T29N, 12W  
GL= 5618'

Fm. Tops

Prepared by: Walter Gage