

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



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: 12/17/2019

Well information:

30-045-34452 BECK 29 12 10 #108

SYNERGY OPERATING LLC

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:

Conditions of Approval:

- Notify NMOCD 24 Hours prior to commencing activities
- In addition to the BLM approved plugs:
- Ensure the Fruitland is covered 1166'-1266'. OCD Fruitland pick @ 1216'.
- Extend surface plug to 550'-0'. OCD Kirtland pick @ 500'.

NMOCD Approved by Signature

____4/15/20____
Date

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.
NMNM014375

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM121816

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: COAL BED METHANE		8. Well Name and No. BECK 29-12-10 108
2. Name of Operator SYNERGY OPERATING, LLC Contact: GLEN PAPP E-Mail: gpapp@synergyoperating.com		9. API Well No. 30-045-34452-00-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 10 T29N R12W SESW 1165FSL 1510FWL 36.737107 N Lat, 108.090304 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
	<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	

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 follow documents:

- 1) Wellbore plugging plan
- 2) Reclamation plan

OCB Received
4/8/2020

14. I hereby certify that the foregoing is true and correct. Electronic Submission #496221 verified by the BLM Well Information System For SYNERGY OPERATING, LLC, sent to the Farmington Committed to AFMSS for processing by ALBERTA WETHINGTON on 12/19/2019 (20AMW0114SE)	
Name (Printed/Typed) GLEN PAPP	Title OPERATIONS MANAGER / PARTNER
Signature (Electronic Submission)	Date 12/17/2019

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

Beck 29-12-10 #108

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:

Well Name & #:	Beck 29-12-10 #108
API #:	30-045-34452
Legal Location:	1165' FSL & 1510' FWL, Section 10-N, T-29-N, R-12-W, San Juan Co., NM
Latitude/Longitude:	36.73711 / -108.09031
Federal Lease #:	NM-014375
USGS Topo Map:	Horn Canyon, NM 1965 (PR 1979), USGS Quad Code: 36108-F1
Drilling Spud date:	February 2, 2008
TD / PBTD:	1865' / 1832'
Surface Hole Size:	12-1/4"
Surface Casing:	8-5/8" 24# J-55 @ 208' Cmt'd w/ 142-sxs Type V cmt – circ to surface
Production Hole Size:	7-7/8"
Production Casing:	5-1/2" 15.5# J-55 @ 1853' Cmt'd w/ 280-sxs Type V cmt – circ to surface
Perforations:	Fruitland Coal: 1655-57', 1622-42' w/ 4-SPF (88-Holes)
Tubing in Hole:	53-Jts 2-3/8" 4.7# J-55 EUE w/ SN & MA, EOT @ 1736'
Formation Tops (KB):	Ojo Alamo @ 329', Kirtland @ 410', Fruitland @ 1216', PC @ 1660'

Project Summary:

Synergy Operating, LLC ("Synergy") is the operator of the Beck 29-12-10 #108 well. A Fruitland Coal gas well. The well has not produced economic quantities of gas 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_{tbg}, P_{csg}, P_{bh}. 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, 63 – 3/4" rods, 4 – 1-1/4" sinker-bars and 2" x 1-1/2" 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 1710'.
6. **Plug #1:** Mix and pump 21-sxs of Class 'G' cement and spot balanced plug F/1710' –T/1572'. PUH and WOC. TIH & tag TOC, top off if necessary.
7. PUH to 1266', laying down 2-3/8" tbg. PT 5-1/2" 15.5# csg to 800#.

8. **Plug #2:** Mix and pump 18-sxs of Class 'G' cement and spot balanced plug F/1266' –T/1166'.
9. PUH to 450', laying down 2-3/8" tbg
10. Pressure Test Bradenhead 8-5/8" x 5-1/2" annulus to 300#.
 - (a) If PT **Holds**, Mix and pump **Plug #3**, 53-sxs Class 'G' cement inside 5-1/2" casing F/450' – 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 #3** (Volume TBD) inside and outside 5-1/2" casing from squeeze holes to surface.
11. TOO H and LD 2-3/8" tbg.
12. ND BOPE. Cut-off wellhead & rig anchors. Top off cement if necessary and install P&A marker.
13. RD well service rig.
14. Submit subsequent report plug and abandon (SRA) using the Sundry Notices and Reports on Wells Form 3160-5.
15. See Reclamation Plan for surface restoration.

Wellbore diagrams:

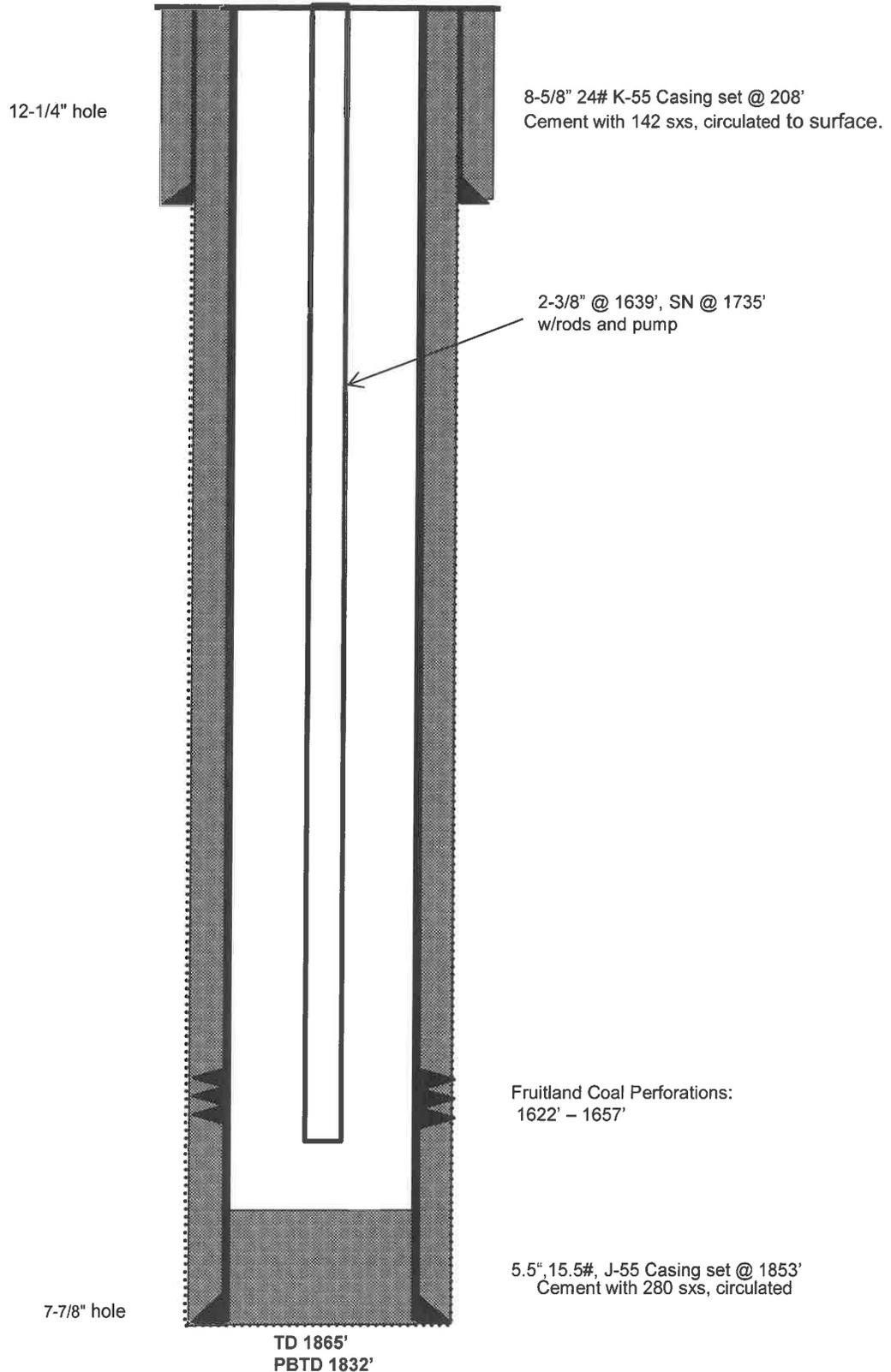
Attached are simple wellbore schematics of the well before and after the above well work is completed.

Beck 29-12-10 #108

Current
Basin FtC

1165' FSL & 1510' FWL, Section 10, T29N, R12W
San Juan County, NM, API #30-045-34452

Today's Date: 11/15/19
Spud: 2/20/08
Completed: 5/20/08
Elevation: 5603' GL



Beck 29-12-10 #108

Proposed P&A

Basin FtC

1165' FSL & 1510' FWL, Section 10, T29N, R12W

San Juan County, NM, API #30-045-34452

Today's Date: 11/15/19

Spud: 2/20/08

Completed: 5/20/08

Elevation: 5603' GL

12-1/4" hole

8-5/8" 24# K-55 Casing set @ 208'
Cement with 142 sxs, circulated to surface.

Plug #3: 450' - 0'
Class G cement, 53 sxs

Ojo Alamo @ 329'

Kirtland @ 410'

***BLM picks Fruitland @ 1124'

Fruitland @ 1216'

***plug 2 1074'- 1174'

Plug #2: 1266' - 1166'
Class G cement, 18 sxs

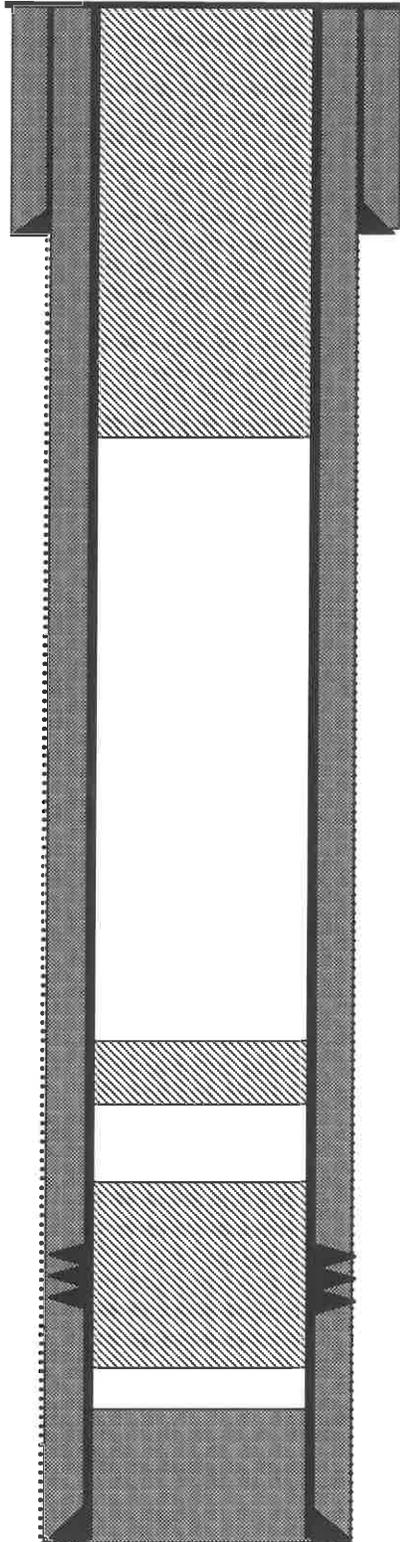
Pictured Cliffs @ 1660'

Fruitland Coal Perforations:
1622' - 1657'

Plug #1: 1710' - 1572'
Class G cement, 21 sxs

7-7/8" hole

5.5" 15.5# J-55 Casing set @ 1853'
Cement with 280 sxs, circulated



TD 1865'
PBD 1832'

**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: Beck 29-12-10 #108

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.
3. BLM picks top of Fruitland at 1124' md. Modify plug 1 to cover 1074' – 1174' md excluding required excess.

**BLM FLUID MINERALS
Geologic Report**

Date Completed: 3/11/20

Well No.	Beck 29-12-10 #108	Location	1165'	FSL &	1510'	FWL
Lease No.	NMNM014375	Sec.	10	T29N		R12W
Operator	Synergy	County	San Juan	State	New Mexico	
Total Depth	1865'	PBTD	1832'	Formation	Fulcher Pictured Cliffs/Basin Fruitland Coal	
Elevation (GL)	5603'		Elevation (KB) 5615' (est.)			

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/Fresh water sands
Nacimiento Fm			Surface	323'	Fresh water sands
Ojo Alamo Ss			323'	454'	Aquifer (fresh water)
Kirtland Shale			454'	1124'	
Fruitland Fm			1124'	1664'	Coal/Gas/Possible water
Pictured Cliffs Ss			1664'	1844'	Gas
Lewis Shale			1844'		
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)Hilcorp
Beck A No 1
1700' FSL, 1760' FEL
Sec 10, T29N, 12W
GL= 5609'

Fm. Tops

Prepared by: Walter Gage