| D | | | OCD Received | | | | |
|--|--|--|---|-----------------------|---|-----------|-----------------|
| | UNITED STATES EPARTMENT OF THE II UREAU OF LAND MANA | | FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 | | | | |
| SUNDRY | | 5. Lease Serial No. NMNM997346. If Indian, Allottee or Tribe Name | | | | | |
| Do not use the abandoned we | | | | | | | |
| SUBMIT IN | | 7. If Unit or CA/Agreement, Name and/or No. | | | | | |
| 1. Type of Well | | _ | | | 8. Well Name and No. SYNERGY 21-7-6 | 134 | |
| ☐ Oil Well ☐ Gas Well ☑ Oth 2. Name of Operator | Contact: | E GLEN PAPP | | | 9. API Well No. | | |
| SYNERGY OPERATING, LLC 3a. Address | C E-Mail: gpapp@sy | | .com | | 30-043-21041-00-S1 10. Field and Pool or Exploratory Area | | |
| FARMINGTON, NM 87499 | | | 9-4908 Ext: 1582 | | BASIN FRUITL | | |
| 4. Location of Well <i>(Footage, Sec., T</i> | ., R., M., or Survey Description | | -4900 | | 11. County or Parish, State | | |
| Sec 6 T21N R7W NESE 1580 36.077968 N Lat, 107.610955 | | | SANDOVAL COUNTY, NM | | | NM | |
| 12. CHECK THE AF | PPROPRIATE BOX(ES) | TO INDICA | TE NATURE O | F NOTICE, | REPORT, OR OTH | IER DA | TA |
| TYPE OF SUBMISSION | | | TYPE OF | ACTION | | | |
| Notice of Intent | □ Acidize | Dee | pen | Product | ion (Start/Resume) | 🗆 Wa | ater Shut-Off |
| Subsequent Report | □ Alter Casing | | raulic Fracturing | — | □ Reclamation | | ell Integrity |
| | Casing Repair | _ | Construction | □ Recomp | | □ Otł | ier |
| ☐ Final Abandonment Notice | □ Change Plans □ Convert to Injection | 🛛 Plug 🗖 Plug | and Abandon Back | □ Tempor □ Water D | arily Abandon Disposal | | |
| Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for final Synergy Operating LLC plans Attached are the follow docum | l operations. If the operation re bandonment Notices must be fil inal inspection. to plug and abandon the | sults in a multipl ed only after all | e completion or reco | mpletion in a 1 | new interval, a Form 316 | 0-4 must | be filed once |
| 1) Wellbore plugging plan 2) Reclamation plan | | | Notif | y NMOCI | 0 24hrs | | |
| | | | Prior to beginning | | | | |
| | | | | operatio | ns | | |
| | | | | | | | |
| 14. I hereby certify that the foregoing is | Electronic Submission # | OPERATING, | LLC, sent to the I | Farmington | - | | |
| Name(Printed/Typed) THOMAS | MULLINS | | Title ENGINE | ERING MA | NAGER/PARTNER | | |
| Signature (Electronic Submission) Date 06/19/2020 | | | | | | | |
| | THIS SPACE FO | | | | SE | | |
| Approved ByJOE KILLINS | | | | २ | | Γ | Date 07/30/2020 |
| Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu | Office Farming | ton | | | | | |
| Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent | U.S.C. Section 1212, make it a statements or representations as | crime for any person of the second se | rson knowingly and thin its jurisdiction. | willfully to ma | ake to any department or | agency of | f the United |
| (Instructions on page 2) ** BLM REV | ISED ** BLM REVISEI | D ** BLM RI AV | EVISED ** BLN | |) ** BLM REVISE | D ** | |

KP

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 Well: SYNERGY 21-7-6 134 API: 300432104100S1

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. If casing fails to test contact BLM Engineering. No changes are to be made to this approved Sundry without prior approval from the BLM.
- 4. A Subsequent Report Sundry Notice (Form 3160-5) must be submitted within 30 days after plugging operations are complete.

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 <u>minimum general</u> 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.

- 5.1 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 <u>date</u> 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: 7/16/2020

| Well No. | Synergy 21-7-6 #134 | | Location | 1580 | FSL | & | 715 | FEL |
|----------------|---------------------|--------------|---|----------|-----|-------|------------|------|
| Lease No. | NMNM-99734 | | Sec. 06 | T21N | | | | R07W |
| Operator | Synergy Operating | | County | Sandoval | | State | New Mexico | |
| Total Depth | 881 | PBTD 793 | Formation Fruitland Coal (target), Pictured Cliffs (TD) | | | | | |
| Elevation (GL) | 6648 | Elevation (K | B) 6655 | | | | | |

| Geologic Formations | Est. Top | Est. Bottom | Log Top | Log Bottom | Remarks |
|----------------------------|----------|-------------|---------|------------|-----------------------------|
| San Jose Fm | | | | | Surface/Fresh water sands |
| Nacimiento Fm | | | | | Fresh water sands |
| Ojo Alamo Ss | | | Surface | 138 | Aquifer (fresh water) |
| Kirtland Shale | | | 138 | 318 | |
| Fruitland Fm | | | 318 | 748 | Coal/Gas/Possible water |
| Pictured Cliffs Ss | | | 748 | PBTD | Gas |
| Lewis Shale | | | | | |
| Chacra | | | | | |
| Cliff House Ss | | | | | Water/Possible gas |
| Menefee Fm | | | | | Coal/Ss/Water/Possible O&G |
| Point Lookout Ss | | | | | Probable water/Possible O&G |
| Mancos Shale | | | | | |
| Gallup | | | | | O&G/Water |
| Graneros Shale | | | | | |
| Dakota Ss | | | | | O&G/Water |

| <u>Remark</u> P & A | <u>s:</u> | Reference Well: 1) Same | Fm. Tops |
|------------------------|---|--|-------------------|
| - | Log analysis of reference well #2 (attached worksheet) indicates the Ojo Alamo sands investigated contain fresh water (≤5,000 ppm TDS). | 2) M & M Production Socorro 21-7-10 #34 | Water Analysis |
| - | Plugging plan has entire casing filled with cement, which will protect fresh water sands in the well bore. | 330' FSL, 2200' FEL Sec. 10, T21N, R07W GL 6771', KB 6783' | |

- Perforations @ 676'-696'. CIBP @ 665'.

Prepared by: Chris Wenman

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

Wellbore Plugging Plan

Synergy Operating, LLC

Synergy 21-7-6 # 134 Plugging & Final Abandonment

Prepared by:

Thomas E. Mullins, P.E. Partner / Engineering Manager

June 2020

Submitted Electronically

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

Well Information:

| Well Name & #: | Synergy 21-7-6 # 134 |
|-----------------------|---|
| API #: | 30-043-21041 |
| Legal Location: | 1580' FSL, 715' FEL, Unit I, Section 6 – T21N-R07W, Sandoval County, NM |
| Latitude/Longitude: | 36.07797 / -107.61094 |
| Federal Lease #: | NMNM-99734 |
| USGS Topo Map: | Lybrook SE |
| Drilling Spud date: | June 5, 2007 |
| TD / PBTD: | 881' / 793' |
| Surface Hole Size: | 12-1/4" |
| Surface Casing: | 8-5/8" 24# J-55 @ 129' Cmt'd w/ 105-sxs Type V cmt – Circ 6 bbls to surface |
| Production Hole Size: | 7-7/8″ |
| Production Casing: | 5-1/2" 15.5# K-55 @ 877' Cmt'd w/ 220 sxs (290.4 ft3) Type 5 Cement – |
| | Circulated 18 bbls to surface |
| Perforations: | Fruitland Coal: 676' to 696' (20') – 80 holes |
| Tubing in Hole: | 2-3/8" 4.7# J-55 (23 Jts) & 9' long 4" ESP set at 724' EOT |
| Formation Tops (KB): | Kirtland @ 140', Fruitland @ 361', Pictured Cliffs @ 762' |

Project Summary:

Synergy Operating, LLC ("Synergy") is the operator of the Synergy 21-7-6 # 134 well. A Fruitland Coal gas well. 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 2-3/8" production tubing and ESP will need to be removed from the well and a CIBP set on wireline at 665' above the existing Perforations (676' to 696')

No Cement Bond Log is planned to be run, due to all casing strings being cemented and circulated to surface.

Multiple Wells will be cemented to surface in a single day, utilizing $1^{"}$ PVC tubing run (rigless) and cemented inside the 5-1/2" Production Casing.

Two (2) previous Sundry Notices have been submitted on this well that have not been returned by the BLM. The first was submitted on July 29, 2019, and the second was submitted on 10/31/2019.

The NIA will be submitted on the Sundry Notices and Reports on Wells, Form 3160-5.

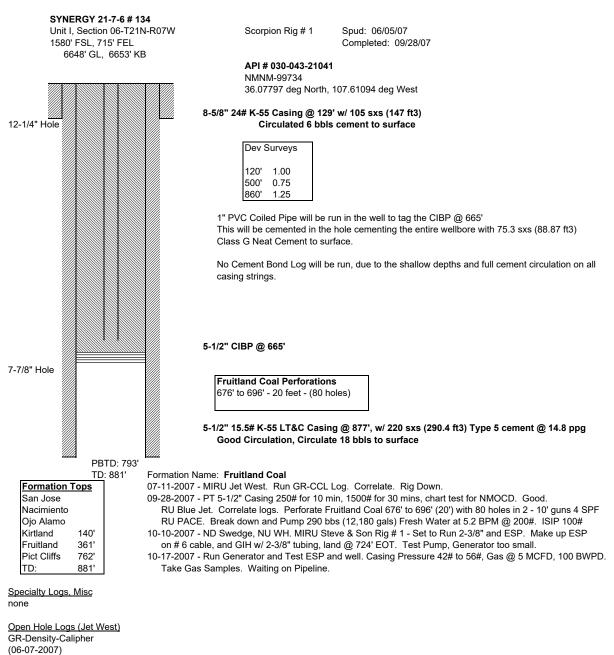
Proposed wellbore plugging procedure:

MIRU SERVICE RIG. ND WH. NU BOPE. COOH laying down 23 Jts and ESP Cable 2-3/8" 4.7# tubing and 9' ESP from 724'. RU wireline. Correlate w/ GR-CCL. PERFORATIONS 676' TO 696'. RIH AND SET CIBP @ 665'. POOH. RDMO RIG. LOAD HOLE W/ WATER TRUCK. TEST 5-1/2" CASING TO 550#. CHART PRESSURE TEST. RELEASE PRESSURE. RIH W/ 1" POLY PIPE AND TAG CIBP @ 665'. PULL UP. MIRU CEMENT PUMP TRUCK AND CIRCULATION TANK MIX AND PUMP 15.8 BBLS CLASS G NEAT CEMENT AT 15.5 PPG (88.87 FT3 / 75.3 SXS @ 1.18 YIELD). FILLING ENTIRE CASING WITH CEMENT TO SURFACE. CUT OFF WELLHEAD AND INSTALL ABOVE GROUND DRY-HOLE MARKER.

REMOVE ALL SURFACE EQUIPMENT AND TANK BATTERY. RIP LOCATION AND RECONTOUR PER BLM CONSULTATION. RESEED SURFACE LOCATION AND SUBMIT FOR FINAL ABANDONMENT APPROVAL.

Wellbore diagrams:

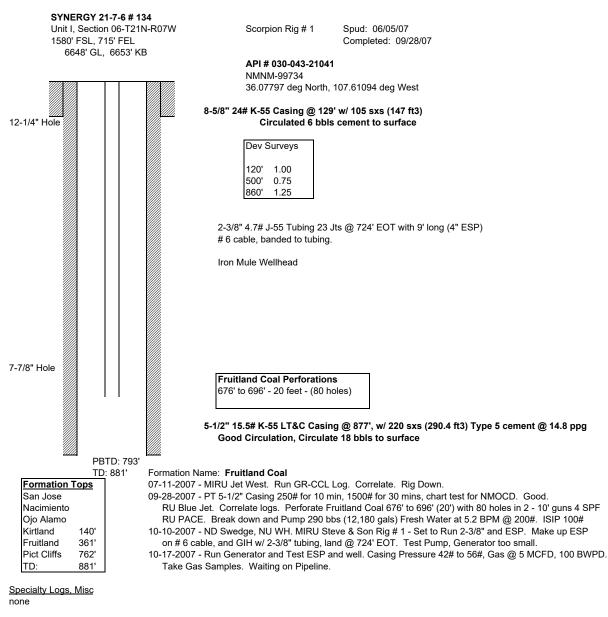
Attached are simple wellbore schematics of the well before and after the above well work is completed.



Cased Hole Logs (Jet West) GR-CCL (07-11-2007)

Thomas E. Mullins June 18, 2020

SYNERGY # 134 P&A



SYNERGY # 134

Open Hole Logs (Jet West) GR-Density-Calipher (06-07-2007)

Cased Hole Logs (Jet West) GR-CCL (07-11-2007)

Thomas E. Mullins June 18, 2020