Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.	30-005-61173
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil & Gas Lease No.	STA-NM-LG-0565
7. Lease Name or Unit Agreement Name	Grynberg 14 State Com
8. Well Number	1
9. OGRID Number	11492
10. Pool name or Wildcat	Pecos Slope , Abo

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator: Jack J. Grynberg

3. Address of Operator: 3600 S Yosemite Street, Suite 900 Denver, CO 80237-1830

4. Well Location
Unit Letter N : 660 feet from the South line and 1,980 feet from the West line
Section 14 Township 5 South Range 24 East NMPM County Chaves

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3,981 GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Notify NMOCD 24hrs before MIRU
Request for Permission to Abandon Well

Please See Attached Procedure

RECEIVED
JUL 09 2018
DISTRICT II-ARTESIA O.C.D.

Spud Date: December 1, 2018 Rig Release Date: December 15, 2018

*See Attached COA's Must be Plugged by 1-15-2019

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Randy Edelen TITLE Operations Engineer DATE June 29, 2018

Type or print name Randy Edelen, P. E. E-mail address: r.edelen@grynberg.com PHONE: (303) 850-7490

For State Use Only

APPROVED BY: TITLE Staff Mgr DATE 7-10-19

Conditions of Approval (if any):

Grynberg Petroleum Company **6/8/2018**

Grynberg 14 State #1, Sec 14 5S 24E, Chaves Cnty, NM, API 30-005-61173
Status:
Drilled 14 ¾" hole to 904'. Set 904' of 10 ¾" 32.75# casing. Top of cement -surface.
Drilled 7 7/8" hole to 4100'. Set 4100' of 4 ½" 10.5# casing. Top of cement unknown. No CBL ran (1550sx pumped assume TOC at 2065' for planning purposes, will run CBL prior to P&A)
End of 2 3/8" tubing at 3602'.
Existing Perforations: 3652'-3919'.

REQUEST PERMISSION TO ABANDON WELL AS FOLLOWS

Pull 3602' of 2-3/8" tbg. Run CBL and adjust plug depths as needed based on Top of Cement. Obtain approval of changes from NMOCD. Notify NMOCD Rep 24 hours prior to plugging.

PLUG #1 - Set CIBP at 3627, (25' above top perf at 3652).
25 sx on top CIBP. WOC 4 Hrs and tag. Est TOC 3291
Add Gelled Wtr to fill 4-1/2" Csg from 3291-1965=1362*.0159=21.6 Bbls

Est TOC 2065. Run CBL to verify TOC and adjust depth of this PLUG #2.
Verify TOC and any changes with NMOCD

PLUG #2 - Perf at 1965 (100'above TOC) Set Cmt Retainer at 1865'.
Place 100' Cmt (40sx) thru Ret and out Perfs Inside and Outside 4-1/2".
Cement Vol: 100' x .3382 cuft/ft x 1.2% Excess = 40 sx Total
Add Gelled Wtr to fill 4-1/2" Csg from 1865-1520 =345*.0159=5.5 Bbls

PLUG #3 - Perf at 1520 (Covers Glorieta) Set Cmt Retainer at 1420'.
Place 100' Cmt (40sx) thru Ret and out Perfs Inside and Outside 4-1/2".
Cement Vol: 100' x .3382 cuft/ft x 1.2% Excess = 40 sx Total
Add Gelled Wtr to fill 4-1/2" Csg from 1420-954=466*.0159=7.4 Bbls

PLUG #4 - Perf at 954 (50' below Surf. Csg shoe) Set Cmt Retainer at 854'.
Sqz 100' Cmt (70sx) thru Ret and out Perfs Inside and Outside 4-1/2".
Cement Vol: 100' x .5665 cuft/ft x 1.2% Excess = 70 sx Total
Add Gelled Wtr to fill 4-1/2" Csg from 854-60=794*.0159=12.6 Bbls

PLUG #5 - 60' cmt on top inside 4 1/2" csg.
Top out betw 10 3/4" & 4 1/2" with 200' of 1".

Cut Off Csg Below GL and Install Dry Hole Marker.
RDMO service rig. Submit completion forms to NMOCD.

Prepared by: Richard Miller, r.miller@grynberg, 303-881-5440

Grynberg Petroleum Company

Grynberg 14 State #1

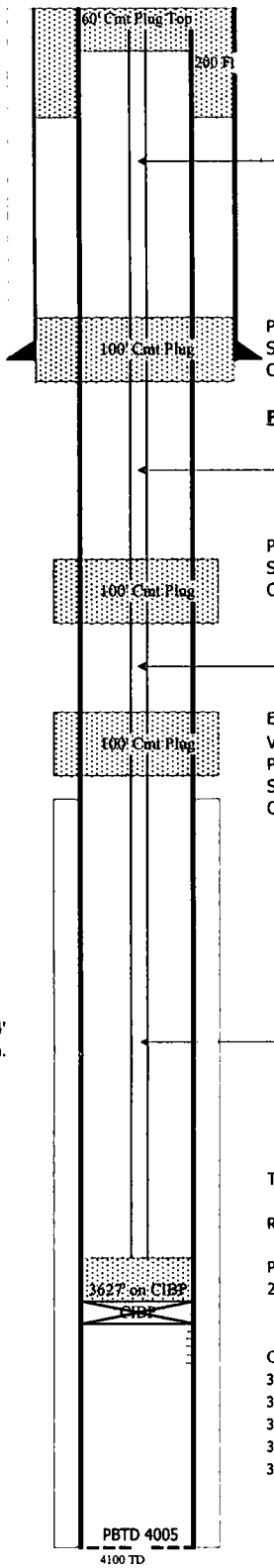
33.8667717,-104.3954544 NAD83

Current Schematic . P&A Plan in RED, Revised 6/8/2018

Sec 14, 5S, 24E
660FSL 1980FWL
Chavez Cnty, NM
API 30-005-61173
GL: 3981'
Spud Date: 12/20/81

904' of 14 3/4" hole, 10 3/4" 32# casing
Cmt'd w/ 600'sx, Circ'd to Surface

4 1/2" 10.5# Casing in 7 7/8" hole set at 4054'
Cmt'd with 1550 sx. 50/50 poz, no CBL ran.



Cut Off Csg Below GL and Install Dry Hole Marker

PLUG #5 - 60' cmt on top inside 4 1/2" csg.
Top out betw 10 3/4" & 4 1/2" with 200' of 1".

Gelled Wtr to fill 4-1/2" Csg:
854-60=794*.0159=12.6 Bbls

PLUG #4 - Perf at 954 (50' below Surf. Csg shoe) Set (
Sqz 100' Cmt (70sx) thru Ret and out Perfs Inside and
Cement Vol: 100' x .5665 cuft/ft x 1.2% Excess = 70 s

Proposed Abandonment Plan in RED

Gelled Wtr to fill 4-1/2" Csg:
1420-954=466*.0159=7.4 Bbls

PLUG #3 - Perf at 1520 (Covers Glorieta) Set Cmt Reta
Sqz 100' Cmt (40sx) thru Ret and out Perfs Inside and
Cement Vol: 100' x .3382 cuft/ft x 1.2% Excess = 40 s

Gelled Wtr to fill 4-1/2" Csg:
1520-1865=345*.0159=5.5 Bbls

Est TOC 2065. Run CBL to verify TOC and adjust deptr
Verify TOC and any changes with NMOCD
PLUG #2 - Perf at 1965 (100'above TOC) Set Cmt Reta
Sqz 100' Cmt (40sx) thru Ret and out Perfs Inside and
Cement Vol: 100' x .3382 cuft/ft x 1.2% Excess = 40 s

Gelled Wtr to fill 4-1/2" Csg:
3291-1965=1362*.0159=21.6 Bbls

Top Abo 3605

Remove 3602' of 2 3/8" Tbg.

PLUG #1 - Set CIBP at 3627, (25' above top perf at 3652).
25 sx on top CIBP. WOC 4 Hrs and tag. Est TOC 3291

Orig Perfs -
3652-3659
3744-3752
3676-3671
3811-3814
3896-3919

Not to Scale

Richard Miller, Drlg. Mgr.
303-881-5440
r.miller@grynberg.com

CONDITIONS FOR PLUGGING AND ABANDONMENT

District II / Artesia N.M.

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If the well is not plugged within 1
7. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
8. **Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.**
9. Produced water **will not** be used during any part of the plugging operation.
10. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
11. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
12. **Class 'C' cement will be used above 7500 feet.**
13. **Class 'H' cement will be used below 7500 feet.**
14. **A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged**
15. **All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing**

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. **A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.**
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, **(WOC 4 hrs and tag).**
19. No more than **3000' is allowed between cement plugs in cased hole and 2000' in open hole.**
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
    A) Fusselman
    B) Devonian
    C) Morrow
    D) Wolfcamp
    E) Bone Springs
    F) Delaware
    G) Any salt sections
    H) Abo
    I) Glorieta
    J) Yates.
    K) **Potash---** (In the R-111-P Area (Potash Mine Area), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, **WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.**
21. **If cement does not exist behind casing strings at recommended formation depths,** the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

DRY HOLE MARKER REQUIRMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name 2. Lease and Well Number 3.API Number 4. Unit Letter 5. Quarter Section (feet from the North, South, East or West) 6. Section, Township and Range 7. Plugging Date 8. County (SPECIAL CASES)-------AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)