

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**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.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

5. Lease Serial No.  
NMLC029509A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION

8. Well Name and No.  
MALJAMAR AGI 2

2. Name of Operator  
FRONTIER FIELD SERVICES LLC

Contact: MICHAEL W SELKE  
E-Mail: mselke@geolex.com

9. API Well No.  
30-025-42628

3a. Address  
65 MERCADO STREET SUITE 250  
DURANGO, CO 81301

3b. Phone No. (include area code)  
Ph: 505-842-8000  
Fx: 505-842-7380

10. Field and Pool, or Exploratory  
WOLFCAMP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 21 T17S R32E Mer NMP SWSE 400FSL 2100FEL  
32.813967 N Lat, 103.769748 W Lon

11. County or Parish, and State  
LEA COUNTY, NM

FEB 16 2016  
RECEIVED

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<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 checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input 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 recomple 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Maljamar AGI #2 well was spud at 15:30 CST on Monday, January 25, 2016. The 26-inch surface casing borehole was drilled through 82 feet of 30-inch conductor pipe and completed to a depth of 900 feet (MD) at 03:00 CST on January 27, 2016. A stable casing seat was selected approximately 40 feet below the top of the Magenta Dolomite and 85 feet above the underlying salt, based on a correlation with Maljamar AGI #1, located approximately 400 feet to the southeast.

Following the completion of drilling, a fluid caliper log (Attachment A) was performed to determine the required cement volume needed to install the 20-inch surface casing. The results indicated an average borehole diameter of 27.25 inches.

The surface casing was constructed of 21 joints of 20-inch, 94 lb/ft, J-55 grade, BTC casing. A schematic of the Maljamar AGI #2 well design and installation casing tally are provided in

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #330953 verified by the BLM Well Information System  
For FRONTIER FIELD SERVICES LLC, sent to the Hobbs  
Committed to AFMSS for processing by KENNETH RENNICK on 02/07/2016 ()

Name (Printed/Typed) MICHAEL W SELKE

Title CONSULTANT TO FRONTIER

Signature (Electronic Submission)

Date 02/07/2016

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

Approved By

Title

Date

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

ACCEPTED FOR RECORD  
PETROLEUM ENGINEER  
FEB - 7 2016  
Kenneth Rennick  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

Kz  
DJ

## **Additional data for EC transaction #330953 that would not fit on the form**

### **32. Additional remarks, continued**

Attachment B.

Halliburton provided the services for the Maljamar AGI #2 surface casing cement job. The compressive strength test results were onsite before the cement job and Geolex provided the report to the BLM prior to the cementing of the surface casing. The BLM Inspector approved the lab tests in advance of the cement job.

The surface casing for Maljamar AGI #2 was cemented on Thursday, January 28, 2016 in one stage of Class C cement that included a lead of 825 sacks of ECONOCER (trade mark) SYSTEM, with a yield of 1.833 cubic feet per sack and a tail of 625 sacks of HALCEM (trade mark) SYSTEM with a yield of 1.342 cubic feet per sack. Eighty bbls (245 sacks) of cement was circulated to the surface, as witnessed onsite by Paul Flowers (BLM). Cement did not fall back and wait on cement (WOC) time was 24 hours. Halliburton cement laboratory reports, summary job report, and a circulation photograph are included in Attachment C.

Beginning on Friday January 29, 2016 the 20-inch BOP was installed and tested. A casing integrity test (CIT) was conducted on Saturday, January 30, 2016. The casing was successfully tested to 1,480 psi which is 70% of the casing burst pressure. Test results and charts for the BOP and surface casing are provided in Attachment D.

After the cement shoe was drilled out and the 17.5-inch borehole was advanced to the upper intermediate casing borehole TD (2567 feet), a cement bond log (CBL) of the surface casing was completed by Baker Hughes. The logging results indicated that there is adequate hydraulic isolation in the surface casing annulus and BLM approved the cement job. The CBL for the Maljamar AGI #2 surface casing is provided in Attachment E.