

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Operator Copy

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.**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMLC029509A
2. Name of Operator FRONTIER FIELD SERVICES LLC Contact: JULIE DOSSEY E-Mail: jdossey@akaenergy.com		6. If Indian, Allottee or Tribe Name
3a. Address 65 MERCADO STREET, SUITE 250 DURANGO, CO 81301	3b. Phone No. (include area code) Ph: 970-759-7110 Fx: 970-375-2216	7. If Unit or CA/Agreement, Name and/or No.
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		8. Well Name and No. MALJAMAR AGI 2
		9. API Well No. 30-254-42628-025-42628
		10. Field and Pool, or Exploratory WOLFCAMP
		11. County or Parish, and State LEA COUNTY COUNTY, NM

12. CHECK 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"/> 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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.)

The casing design on the Maljamar AGI #2 was improved, from the approved APD, to incorporate the use of an additional string of casing. Due to casing design changes other aspects of the drilling design have been altered and therefore the 9 Point Drilling Plan has been revised to reflect the changes. Changes are included in the following drilling components:

1. Pressure control has been amended to adequately fit the different casing sizes.

2. Casing design has been changed to include the additional string of casing. Therefore all casing strings prior to the injection will be increased in size to fit the additional string. It was determined that this additional string is needed to provide a more durable metallurgy for acid gas injection. New safety factors have also been given to the casing design.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct. Electronic Submission #319769 verified by the BLM Well Information System For FRONTIER FIELD SERVICES LLC, sent to the Hobbs Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/16/2015 ()	
Name (Printed/Typed) MARVIN SEALE	Title PETROLEUM ENGINEER 1
Signature (Electronic Submission)	Date 10/13/2015

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.		
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.		

**APPROVED
PETROLEUM ENGINEER**

DEC 30 2015

Kenneth Rennie

BUREAU OF LAND MANAGEMENT

CARLOSAD FIELD OFFICE

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

JAN 04 2016

KA

Additional data for EC transaction #319769 that would not fit on the form

32. Additional remarks, continued

3. Cement program has been amended to reflect the additional casing. A ThermaLock and CorrosaCem cement slurry is now included through the injection zone of the casing.

4. Circulating Medium (Drilling mud program) has been amended to reflect the additional casing.

Please see the attached revised documents:-

a) 9 Point Drilling Plan, b) Wellbore schematic, c) Wellhead design and diagram,
d) Directional drilling plan and profile, e) Drilling Fluids program, f) Revised Cement, g) Solids
and Drilling Waste Management

Please contact Marvin Seale, Petroleum Engineer, at:- office-(970)563-5167 cell-(970)442-1003 with
any questions.



Fernandez, Edward <efernand@blm.gov>

Maljamar AGI #2 - Conductor Pipe Setting Depth

4 messages

Dan Dodd <ddodd@sierra-engineering.net>
To: "efernand@blm.gov" <efernand@blm.gov>

Mon, Dec 7, 2015 at 3:19 PM

Ed:

Confirming our phone conversation this afternoon regarding conductor pipe setting on the referenced well, it is now planned to set 80' of 30" conductor pipe on this well instead of the 40' that was noted on the amended APD currently under review by the BLM. It is my understanding that no further revision to the APD is required to make this change. For your reference, the specific wellbore information for the subject well is listed below:

**Frontier Energy Services / Running Horse Production Company,
LLC**

Maljamar AGI #2

SHL: 400' FSL & 2100' FEL

API No. 30 - 025 - 42628

432 / 889-2202

Mon, Dec 7, 2015 at 3:34 PM

<https://mail.google.com/mail/u/0/?ui=2&ik=2988713837&view=pt&search=inbox&th=1517e7fdaf8e043d&siml=1517e7fdaf8e043d&siml=1517e94f07e853b9&sim...> 2/3