

9/08/2015 DATE IN	SUSPENSE	m A m ENGINEER	9/08/2015 LOGGED IN	NSL TYPE	PMAM1525156088 APP NO
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]

[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]

[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]

[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]

[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]

[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication

☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

#### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note:** Statement must be completed by an individual with managerial and/or supervisory capacity.

Tamra Sessions

Print or Type Name

Signature

Regulatory Specialist

Title

Date

tsessions@logosresourcesllc.com

e-mail Address

NSL-7377  
-LOGOS OPERATING, LLC  
289 408

2015 SEP - 8 A 8:23

RECEIVED OOD

-L211  
-LOGOS JICAM 11-24  
30-039-Pending  
Pool  
-BESIN MANCOS  
97232



4001 N. Butler Ave  
Farmington, NM 87401  
Phone: (505) 215-8215  
Fax: (303) 974-1767

September 2, 2015

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Re: Logos Operating, LLC  
Request for Administrative Approval  
Unorthodox Well Location and Non-Standard Spacing Unit  
Basin-Mancos Gas Pool - 97232  
Logos Jicarilla 24D  
API No. - Not yet Granted  
807 FNL & 215 FWL  
NW/4NW/4 Section 24, T26N, R05W  
Rio Arriba County, New Mexico

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To whom it may concern:

Logos Operating, LLC (Logos) hereby requests administrative approval for an unorthodox location and non-standard spacing unit for the Logos Jicarilla 24D pursuant to Division Rules pertaining to Basin-Mancos Gas Pool (97232). Logos intends to drill the Logos Jicarilla 24D as a vertical well at an unorthodox well location to be located 807' FNL and 215' FWL of Section 24, T26N, R05W NMPM in Rio Arriba County, New Mexico. The NW/4 of Section 24 will be dedicated to the well.

The standard spacing unit required under Order R-12984 covering the Basin-Mancos Gas Pool is 320 acres. Rule 3(B) of Order R-12984 allows, where any quarter section cannot be paired with another quarter section in the same section, a non-standard unit may be administratively approved by the Aztec district office, without the filing of an application other than an APD with a plat attached demonstrating that such quarter section is a stranded unit. As shown on Exhibit "B," the Tapacito-Gallup Associated Pool (58090) covers the E/2 and the SW/4 of Section 24, T26N, R5W. Consequently, the NW/4 of said Section 24 cannot be combined with any other quarter section of said Section 24 which is covered by the Basin-Mancos Gas Pool. Logos requests classification of this spacing unit as a Stranded Unit under R-12984 Rule 3(B).

The Basin-Mancos Gas Pool requires a 660' setback from the outer boundary of a spacing unit. Because the Logos Jicarilla 24D is to be located 215' FWL of Section 24, T26N, R5W, the proposed location is unorthodox by 445' to the west. Logos seeks an exception from the well location rules governing the Basin-Mancos Gas Pool because the chosen

location will maximize operational efficiencies and will avoid cultural issues identified as part of the BIA and Jicarilla Apache Nation onsite process.

EnerVest Operating, LLC, presently operates all spacing units covering the affected formation surrounding the 160 acre spacing unit proposed in this letter, and all such surrounding spacing units share common ownership. Please see Exhibit "C" and Exhibit "D." A copy of this application for unorthodox location and non-standard spacing unit has been mailed to EnerVest Operating, LLC, the Farmington Field Office of the United States Bureau of Land Management and to the Jicarilla Oil and Gas Administration.

Thank you for your consideration. If any additional information is required, please do not hesitate to contact me at 505-436-2606.

Sincerely,

A handwritten signature in black ink, appearing to read "Tamra Sessions", with a stylized flourish at the end.

Tamra Sessions  
Regulatory Specialist  
Logos Resources, LLC

cc: Jicarilla Oil and Gas Administration  
P.O. Box 146  
Dulce, NM 87528

Bureau of Land Management  
Farmington Field Office  
6251 College Blvd. Suite A  
Farmington, NM 87402

# Exhibit A

Form 3160-3  
(March 2012)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

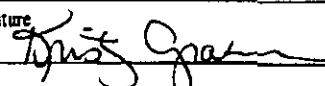
FORM APPROVED  
OASB No. 1004-0137  
Expires: October 31, 2014

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. Jicarilla Apache Lease #108
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Jicarilla Apache Nation
2. Name of Operator Logos Operating, LLC		7. If Unit or CA Agreement, Name and No.
3a. Address 4001 North Butler Ave, Building 7101 Farmington, NM 87401	3b. Phone No. (include area code) 505-330-9333	8. Lease Name and Well No. Logos Jicarilla 24D
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 807' FNL 215' FWL, NW/NW At proposed prod. zone same as above		9. API Well No.
14. Distance in miles and direction from nearest town or post office* 20 miles NE of Counselor, NM		10. Field and Pool, or Exploratory Basin Mancos
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1833' FSL	16. No. of acres in lease 2560.0 acres	11. Sec., T. R. M. or Blk. and Survey or Area Sec 24, T28N R05W, UL D
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1040' Jicarilla C 2N	19. Proposed Depth ~7336'	12. County or Parish Rio Arriba
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6644' GL	22. Approximate date work will start* 10/01/2015	13. State NM
23. Estimated duration 45 days		

### 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed Typed) Kristy Graham	Date 07/29/2015
Title Production Engineer		
Approved by (Signature)	Name (Printed Typed)	Date
Title	Office	

Application approval 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.  
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

\*(Instructions on page 2)

**CONFIDENTIAL**

15703

**LOGOS OPERATING, LLC.**  
**DRILLING PLAN**  
**LOGOS JICARILLA 24D**

**Note: This procedure will be adjusted on site based on actual conditions.**

- I. **Location: 807' FNL & 215' FWL** **Date: July 27, 2015**  
**Sec 24, T26N, R05W**  
**Rio Arriba County, NM**

**Field:** Mancos  
**Surface:** Tribal  
**Minerals:** Tribal

- ## II. Geology: Surface formation, San Jose

a. Note: tops estimated

Formation Tops	Depths
Ojo Alamo	2556'
Kirtland	2765'
Fruitland	2836'
Pictured Cliffs	3127'
Lewis	3185'
Chacra	4033'
Cliff House	4809'
Menefee	4893'
Point Lookout	5321'
Mancos	5531'
Gallup	6347'
Greenhorn Member-Mancos	7237'
Graneros Shale	7293'
Dakota	7336'
Total Depth Proposed	7336'

**Estimated depths of anticipated water, oil, gas, and other mineral bearing formations, which are expected to be encountered:**

**Water and gas- 3127', 4033', 4809', and 5321'**

**Water, gas, and oil- 5531', and 6347'**

- b. Logging Program: Induction/GR and density/neutron logs from TD to the surface casing point. Mud logs will be run from below the surface casing to TD. No DST's or cores are planned for this well. Cased hole GR/CCI and CBL logs will be run from PBTD to surface.**
- c. No over pressured zones are expected in this well. No H<sub>2</sub>S zones will be penetrated in this well. Max BHP = 3176 psig. Lost circulation zones may be encountered in the Mesa Verde group and Niobrara sections.**

**LOGOS OPERATING, LLC.**  
**DRILLING PLAN**

**III. Drilling**

a. Contractor: To be determined.

b. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water mud and will use bentonite to increase the viscosity. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected in 9.2 ppg. The water loss will be controlled to a 6-8 cc/30 min. and loss circulation will be controlled with cedar fiber, paper, etc.

The Mancos, and Gallup formations will all be considered for completion in this well. A completion procedure will be developed after evaluating the wireline and mud logs.

c. Minimum Blowout Control Specifications:

Double ram type 2000 psi working pressure BOP with a rotating head. See the attached Exhibit #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up to 250 psi (Low) for 5 minutes and 1,500 psi (High) for 10 minutes. All tests and inspections will be recorded in the daily drilling tour book.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

**IV. Materials**

a. Casing Program

Hole Size	Depth	Casing Size	Wt. & Grade
12-1/4"	500'	9-5/8"	36# J or K-55
7-7/8"	7336'	5-1/2"	17# P-110

b. Float Equipment:

- i. Surface Casing: Notched collar, aluminum insert float in the first collar, and 3 centralizers on the bottom 3 joints.
- ii. Production Casing: 5-1/2" cement float shoe and self-fill insert float collar. Place float one joint above shoe. **Place DV tool at 5681'**. Place ten centralizers spaced every other joint above the shoe, two turbolizers on the collars below the DV tool and two turbolizers above the DV tool. Place five turbolizers every third joint from the top of the well.

**LOGOS OPERATING, LLC.  
DRILLING PLAN**

**V. Cementing:**

**Note: Cement volumes will be adjusted based on actual conditions.**

**Surface casing: 9-5/8"** – use 225 sx (266) cu. ft.) of Type V with 2%  $\text{CaCl}_2$  and ¼ #/sk Celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 1500 psi.

**Production casing: 5-1/2"** – Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. **1<sup>st</sup> stage:** Lead with 260 sx (458 cu. ft.) of Cl "B" 65/35 poz with 6% gel, 1%  $\text{CaCl}_2$ , 4% Phenoseal, and ¼ #/sx Celloflake (Yield = 1.6 cu. ft./sk; slurry weight = 12.8 PPG) > Tail with 100 sx (146 cu. ft.) of Cl "B" 50/50 poz with 0.15% dispersant, 1%  $\text{CaCl}_2$  and ¼ #/sk. Celloflake. (Yield 1.46 cu.ft./sk; slurry weight = 13.0 PPG). **2<sup>nd</sup> stage:** Precede cement with 20 bbls of water. Lead with 600 sx (1056 cu. ft.) Cl "B" 65/35 poz with 6% gel, 1%  $\text{CaCl}_2$ , and ¼ #/sx Celloflake (Yield = 1.76 cu. ft./sk; slurry weight = 12.8 PPG). Tail with 100 sx (146 cu. ft.) of Cl "B" 50/50 poz with 0.15% dispersant, 1%  $\text{CaCl}_2$ , and ¼ #/sk. Celloflake. (Yield = 1.46 cu. ft./sk; slurry weight = 13.0 PPG). Total cement volume is 1806 cu. ft. (50% excess to hole volume to circulate cement to surface).



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. **JAN 108**

6. If Indian, Allottee or Tribe Name  
**Jicarilla Apache Nation**

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
**Logos Operating, LLC**

3a. Address **4001 North Butler Ave, Bldg 7101  
Farmington, NM 87401**

3b. Phone No. (include area code)  
**(505) 436-2606**

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

8. Well Name and No. **Logos Jicarilla 24D**

9. API Well No.

10. Field and Pool or Exploratory Area  
**Basin Mancos**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**807' FNL & 215' FWL (NW/NW) Sec 24, T26N, R05W, UL D**

11. Country or Parish, State  
**Rio Arriba, 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 checked="" type="checkbox"/> Other
	<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 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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 detennined that the site is ready for final inspection.)

Logos wishes to change the dedicated acres as submitted with the APD (320 acres) to 160 acres in accordance with Basin Mancos Order R-12984 Rule 3 (B) for a stranded unit. This would eliminate the need for a spacing exception for a possible future second vertical well in the spacing unit. Attached is an updated C-102.

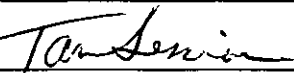
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

**Tamra Sessions**

Regulatory Specialist

Title

Signature



Date

**09/02/2015**

**THE 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

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.

## Exhibit B

Pools



# Exhibit C



## Exhibit D

Affected Operators

EnerVest Operating, LLC  
1001 Fannin Street Suite 800  
Houston, TX 77002-6707

PLACE STICKER TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
CERTIFIED MAIL™



7013 2250 0001 2785 5293  
7013 2250 0001 2785 5293

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)  
For delivery information visit our website at [www.usps.com](http://www.usps.com)

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To *EverVest Operating LLC* <sup>240</sup>  
 Street, Apt. No. or PO Box No. *1001 Fannin Street, Ste 800* <sup>NSL</sup>  
 City, State, ZIP+4 *Houston TX 77002-6707*  
 PS Form 3800, August 2006 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
*EverVest Operating, LLC*  
*Attn: Chris Jeffus*  
*1001 Fannin Street, Ste 800*  
*Houston, TX 77002-6707*

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature ☐ Agent  
**X** ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes  
 If YES, enter delivery address below: ☐ No

3. Service Type  
☐ Certified Mail® ☐ Priority Mail Express™  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number  
 (Transfer from service label) **7013 2250 0001 2785 5293** <sup>240</sup>  
 PS Form 3811, July 2013 Domestic Return Receipt <sup>NSL</sup>



4001 N. Butler Ave  
Farmington, NM 87401  
Phone: (505) 215-8215  
Fax: (303) 974-1767

September 2, 2015

EnerVest Operating, LLC  
1001 Fannin Street, Suite 800  
Houston, TX 77002-6707

Re: Application for Administrative Approval of an Unorthodox Well Location and Non-Standard Spacing Unit in the Basin Mancos Gas Pool (97232) for the Logos Jicarilla 24D API No. - Not yet Granted, 807 FNL & 215 FWL, NW/4NW/4 Section 24, T26N, R05W, Rio Arriba County, New Mexico

To whom it may concern:

Enclosed is a copy of the above referenced application which was filed with the New Mexico Oil Conservation Division. Any objection to this application must be filed in writing within twenty (20) days from the date above with the applicant and the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505. If no objection is received within the twenty (20) day period, this application may be approved administratively by the Division.

If you have no objection to the proposed unorthodox location or the proposed non-standard spacing unit, please so indicate by signing and returning one copy of this letter to the address noted at the bottom of this letter as soon as possible.

If you have any questions or concerns about this application, please contact me at:

Tamra Sessions  
Logos Resources, LLC  
4001 N. Butler Ave., Bldg 7101  
Farmington, NM 87401  
[tsessions@logosresourcesllc.com](mailto:tsessions@logosresourcesllc.com)  
505-436-2606

EnerVest Operating, LLC hereby waives notice of hearing and objection to the application by Logos Resources, LLC for the unorthodox location and non-standard spacing unit for the Logos Jicarilla 24D, as depicted on the enclosed plat.

By: [Signature]  
Printed Name: KEVIN LEONARD  
Date: 9/2/15