

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**

Form C-101  
Revised July 18, 2013  
Permit 171928

**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address LOGOS OPERATING, LLC 4001 N. Butler, Bldg 7101 Farmington, NM 87401		2. OGRID Number 289408
		3. API Number 30-039-31195
4. Property Code 310176	5. Property Name NCRA STATE	6. Well No. 008P

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	16	24N	06W	P	888	S	470	E	RIO ARRIBA

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	16	24N	06W	P	888	S	470	E	Rio Arriba

**9. Pool Information**

DEVILS FORK GALLUP (ASSOCIATED)	17610
DEVILS FORK MESAVERDE	17620

**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 6769
16. Multiple Y	17. Proposed Depth 6506	18. Formation Gallup Formation	19. Contractor	20. Spud Date 10/31/2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	32	320	225	0
Prod	7.875	5.5	15.5	6506	1012.27	0

**Casing/Cement Program: Additional Comments**

Surface casing: 8-5/8" - Use 225 sx (266 cu. ft.) of Type V with 2% CaCl<sub>2</sub> and 1/4 #/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. 1st Stage: Lead with 260 sx (458 cu.ft.) of C1 "B" 65/35 poz with 6% gel, 1% CaCl<sub>2</sub>, 4% phenoseal, and 1/4 #/sx celloflake (Yield = 1.76 cu. ft./sk; slurry weight = 12.8 PPG). Tail with 100 sx (146 cu.ft.) of C1 "B" 50/50 poz with 0.15% dispersant, 1% CaCl<sub>2</sub> and 1/4 #/sk. celloflake. (Yield = 1.46 cu. ft./sk; slurry weight = 13.0 PPG). 2nd Stage: Precede cement with 20 bbls of water. Lead with 600 sx (1056 cu.ft) C1 "B" 65/35 poz with 6% gel, 1% CaCl<sub>2</sub>, and 1/4 #/sx celloflake (Yield = 1.76 cu. ft./sk; slurry weight = 12.8 PPG). Tail with 100 sx (146 cu.ft.) of C1 "B" 50/50 poz with 0.15% dispersant, 1% C

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	1500	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature: Printed Name: Electronically filed by DAVID PAUL GONZALES Title: VICE PRESIDENT OF OPERATIONS Email Address: dgonzales@logosresourcesllc.com Date: 8/23/2013	<b>OIL CONSERVATION DIVISION</b>	
	Approved By: Charlie Perrin	
	Title: District Supervisor	
	Approved Date: 8/28/2013	Expiration Date: 8/28/2015
Date: 8/23/2013	Phone: 505-215-8215	Conditions of Approval Attached

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-102  
 August 1, 2011  
 Permit 171928

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-039-31195	2. Pool Code 17610	3. Pool Name DEVILS FORK GALLUP (ASSOCIATED)
4. Property Code 310176	5. Property Name NCRA STATE	6. Well No. 008P
7. OGRID No. 289408	8. Operator Name LOGOS OPERATING, LLC	9. Elevation 6769

**10. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	16	24N	06W		888	S	470	E	RIO ARRIBA

**11. Bottom Hole Location If Different From Surface**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 160.00		13. Joint or Infill		14. Consolidation Code		15. Order No.			

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

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			■														
<p align="center"><b>SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Surveyed By: Glen Russell        Date of Survey: 8/15/2013        Certificate Number: 15703</p>																	

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## Permit Conditions of Approval

Operator: LOGOS OPERATING, LLC , 289408

Well: NCRA STATE #008P

API: 30-039-31195

OCD Reviewer	Condition
whoppe	Setbacks in the Gallup require 790 feet
CPerrin	Requires NSL, Hold C-104 for NSL Gallup