

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

Form C-101
August 1, 2011
Permit 162352

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
4. Property Code 310176		3. API Number 30-039-31181
5. Property Name NCRA STATE		6. Well No. 007A

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	16	24N	06W	A	1181	N	666	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
A	16	24N	06W	A	1181	N	666	E	Rio Arriba

9. Pool Information

DEVILS FORK MESAVERDE	17620
DEVILS FORK GALLUP (ASSOCIATED)	17610

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 6697
16. Multiple Y	17. Proposed Depth 6396	18. Formation Gallup Formation	19. Contractor	20. Spud Date 4/1/2013
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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	6396	1060	0

Casing/Cement Program: Additional Comments

Note: Cement volumes will be adjusted based on actual conditions. Surface casing: 8-5/8" - Use 225 sx (266 cu. ft.) of Type V with 2% CaCl₂ 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% CaCl₂, 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% CaCl₂ 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% CaCl₂, and 1/4 #/sx celloflake (Yield = 1.76 cu. ft./sk; slurry weight = 12.8 PPG.) T

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: 2/21/2013	OIL CONSERVATION DIVISION Approved By: Charlie Perrin Title: District Supervisor Approved Date: 2/25/2013 Expiration Date: 2/25/2015 Conditions of Approval Attached
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WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-039-31181	2. Pool Code 17620	3. Pool Name DEVILS FORK MESAVERDE
4. Property Code 310176	5. Property Name NCRA STATE	6. Well No. 007A
7. OGRID No. 289408	8. Operator Name LOGOS OPERATING, LLC	9. Elevation 6697

10. Surface Location

UL - Lot A	Section 16	Township 24N	Range 06W	Lot Idn A	Feet From 1181	N/S Line N	Feet From 666	E/W Line E	County RIO ARriba
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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 40.00	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

<table border="1" style="width: 100%; border-collapse: collapse; height: 150px;"> <tr> <td style="width: 25%; height: 40px;"></td> <td style="width: 25%; height: 40px;"></td> <td style="width: 25%; height: 40px;"></td> <td style="width: 25%; height: 40px; background-color: #cccccc; text-align: center;">■</td> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </table>				■													<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: DAVID PAUL GONZALES Title: VICE PRESIDENT OF OPERATIONS Date: 2/21/2013</p> <hr/> <p style="text-align: center;">SURVEYOR CERTIFICATION</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: David Russell Date of Survey: 12/11/2012 Certificate Number: 10201</p>
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WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-039-31181	2. Pool Code 17610	3. Pool Name DEVILS FORK GALLUP (ASSOCIATED)
4. Property Code 310176	5. Property Name NCRA STATE	6. Well No. 007A
7. OGRID No. 289408	8. Operator Name LOGOS OPERATING, LLC	9. Elevation 6697

10. Surface Location

UL - Lot A	Section 16	Township 24N	Range 06W	Lot Idn A	Feet From 1181	N/S Line N	Feet From 666	E/W Line E	County RIO ARriba
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11. Bottom Hole Location If Different From Surface

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12. Dedicated Acres 160.00	13. Joint or Infill	14. Consolidation Code	15. Order No.						

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Permit Comments

Operator: LOGOS OPERATING, LLC , 289408

Well: NCRA STATE #007A

API: 30-039-31181

Created By	Comment	Comment Date
whoppe	need stage tool depth	2/21/2013
whoppe	stage tool at 4667 feet - shown on additional pages received Feb. 22, 2013.	2/22/2013

Permit Conditions of Approval

Operator: LOGOS OPERATING, LLC , 289408

Well: NCRA STATE #007A

API: 30-039-31181

OCD Reviewer	Condition
whoppe	Will require administrative order for non-standard location