

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
Permit 4343

APPLICATION FOR PERMIT TO DRILL

Operator Name and Address SOUTHWESTERN ENERGY PRODUCTION COMPANY 2350 N San Houston Pkwy E Houston, TX 77032		OGRID Number 148111
		API Number 30-015-33793
Property Code 25212	Property Name NO BLUFF STATE COM	Well No. 004

Surface Location

UL or Lot E	Section 36	Township 17S	Range 27E	Lot Idn E	Feet From 1765	N/S Line N	Feet From 330	E/W Line W	County Eddy
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Proposed Pools

RED LAKE; GLORIETA YESO, NORTHEAST 96836
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Work Type New Well	Well Type OIL	Cable/Rotary	Lease Type State	Ground Level Elevation 3583
Multiple N	Proposed Depth 4200	Formation Glorieta Formation	Contractor	Spud Date

Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	32	475	301	0
Prod	7.875	5.5	15.5	4200	645	0

Casing/Cement Program: Additional Comments

8.625 casing Slurry 305 sacks Class C Cement + 2% bwoc Calcium Chloride + 025 lbs/sack Cello Flake + 56.3% Fresh Water. 5.5 casing Lead Slurry 405 sacks (35:65) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 6% bwoc Bentonite + 111.6% Fresh water. Tail Slurry 240 sacks (50:50) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 2% bwoc Bentonite + 58.7% Fresh Water.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	1000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Electronically Signed By: Terry Jasso

Title: Engineer Tech

Date: 12/31/2004

Phone: 281-618-4797

OIL CONSERVATION DIVISION

Electronically Approved By: Bryan Arrant

Title: Geologist

Approval Date: 01/04/2005

Expiration Date: 01/04/2006

Conditions of Approval:

There are conditions. See Attached.