

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 13648

APPLICATION FOR PERMIT TO DRILL

Operator Name and Address SAMSON RESOURCES CO Two West Second Street Tulsa, OK 74103		OGRID Number 20165
		API Number 30-005-27943
Property Code 34961	Property Name MESCALERO SPRINGS STATE	Well No. 001

Surface Location

UL or Lot L	Section 23	Township 11S	Range 31E	Lot Idn L	Feet From 1980	N/S Line S	Feet From 660	E/W Line W	County Chaves
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Proposed Pools

Wildcat Mississippian

Work Type New Well	Well Type GAS	Cable/Rotary	Lease Type State	Ground Level Elevation 4456
Multiple N	Proposed Depth 12000	Formation Mississippi Limestone	Contractor	Spud Date 09/30/2005

Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	400	450	0
Int1	12.25	9.625	36	3700	1350	0
Prod	8.75	5.5	15.5	12000	2225	3200

Casing/Cement Program: Additional Comments

Samson proposes to drill and test the Mississippi Lime/intermediate formations. Approximately 400 of surface casing will be set/cemented. If commercial, intermediate/production casing will be run/cemented, will perforate/stimulate as needed for production. MUD PROGRAM: 0-400 FW/Spud Mud; 400-1450 Fresh Water; 1450-3700 Red Bud Mud/Oil; 3700-7200 Cut Brine; 7200-8550 S Gel/Oil; 8550-10500 S Gel/Starch; 10500-11375 SW/Starch/4% KCL

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	

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

Electronically Signed By: Brad Hargrove

Title: Manager

Date: 07/25/2005

Phone: 918-591-1939

OIL CONSERVATION DIVISION

Electronically Approved By: Paul Kautz

Title: Geologist

Approval Date: 07/26/2005 Expiration Date: 07/26/2006

Conditions of Approval:
There are conditions. See Attached.