

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101

May 27, 2004

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit to appropriate District Office

☒ AMENDED REPORT

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

| | | |
|---|---|---|
| ¹ Operator Name and Address SAMSON RESOURCES COMPANY TWO WEST SECOND STREET TULSA, OK 74103 | | ² OGRID Number 20165 |
| | | ³ API Number 30 - 005-27943 |
| ⁴ Property Code 34961 | ⁵ Property Name MESCALERO SPRINGS STATE | |
| ⁹ Proposed Pool 1 WILDCAT MISSISSIPPIAN | | ⁶ Well No. 001 |
| ¹⁰ Proposed Pool 2 | | |

7 Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L | 23 | 11S | 31E | L | 1980 | S | 660 | W | CHAVES |

8 Proposed Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |

Additional Well Information

| | | | | |
|---|---------------------------------------|--|--|--|
| ¹¹ Work Type Code NEW WELL | ¹² Well Type Code GAS | ¹³ Cable/Rotary ROTARY | ¹⁴ Lease Type Code STATE | ¹⁵ Ground Level Elevation 4456 |
| ¹⁶ Multiple N | ¹⁷ Proposed Depth 12000 | ¹⁸ Formation MISSISSIPPI LIMESTONE | ¹⁹ Contractor | ²⁰ Spud Date 12/15/05 |
| Depth to Groundwater | | Distance from nearest fresh water well | | Distance from nearest surface water |
| Pit: Liner: Synthetic <input type="checkbox"/> _____mils thick Clay <input type="checkbox"/> Pit Volume: _____bbls Drilling Method: _____ Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/> | | | | |

21 Proposed Casing and Cement Program

| Hole Size | Casing Size | Casing weight/foot | Setting Depth | Sacks of Cement | Estimated TOC |
|-----------|-------------|--------------------|---------------|-----------------|-------------------|
| 17.5 | 13.375 | 48 | 400 | 400 | 0 |
| 12.25 | 9.625 | 36 | 3700 | 970 | 300 |
| 7.875 | 5.5 | 20 | 12000 | Per Caliner | Cover Hydrocarbon |
| | | | | | Zones |

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

AMENDED REPORT

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' Brine
 3700' - 7200' Fresh Water/Cut Brine
 7200' - TD Fresh Water/Cut Brine/Polymer with 4-6% KCL

All other information contained in the original permit package will stay the same.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCDC guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Todd Wiley
 Title: DRILLING ENGINEER
 E-mail Address: TWILEY@SAMSON.COM

Date: 12/01/05

Phone: (918) 591-1531

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval Attached ☐