

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 200 N Lorraine, Suite 1010 Midland Tx 79701		² OGRID Number 20165	
³ Property Code 35862		⁴ Property Name Mescalero Springs Unit State Com	
⁵ Proposed Pool 1 T V Penn		⁶ 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
G.	23	11S	31S	G	1980'	North	1980''	EAST	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
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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 4457.2'
¹⁶ Multiple N	¹⁷ Proposed Depth 12,000'	¹⁸ Formation Mississippian Limestone	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater 60'		Distance from nearest fresh water well 5280'		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: 20,000 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	970	970	300
8.75	5.5	20	12000	Per Caliner	Cover Hydro carbon 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.

Samson proposes to drill and test The Mississippian Limestone/intermediate formations. Approximately 400' of surface casing will be Cemented. Commercial Intermediate 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

**Permit Expires 1 Year From Approval
Date Unless Drilling Underway**

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 NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name :Duke Roush

Title: Landman

E-mail Address: droush@samson.com

Date: */21/06

Phone: 432-686-7063

OIL CONSERVATION DIVISION

Approved by:

AUG 29 2006

Approval Date:

PETROLEUM ENGINEER

Expiration Date:

Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-005-27954	Pool Code 86560	Pool Name TV Penn
Property Code 35862	Property Name MESCALERO SPRINGS State Com	Well Number 4
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 4451'

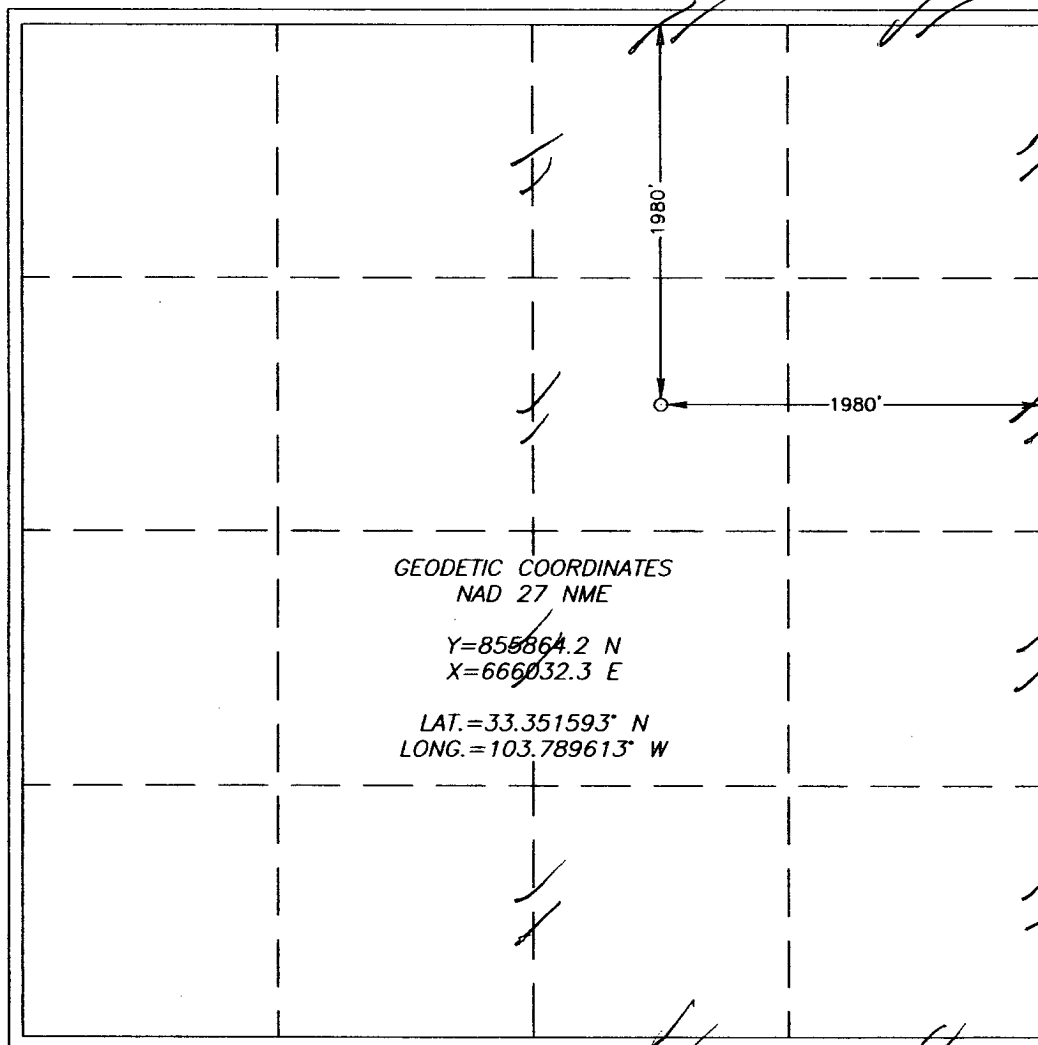
Surface Location

UL or lot No. G	Section 23	Township 11-S	Range 31-E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 1980	East/West line EAST	County CHAVES
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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
Dedicated Acres 320	Joint or Infill	Consolidation Code		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

	OPERATOR CERTIFICATION <i>I hereby certify that the information 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 or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Signature Duke Roush Date 8/31/06 Printed Name Duke Roush
	SURVEYOR CERTIFICATION <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> AUGUST 9, 2006 Date Surveyed Signature & Seal of Professional Surveyor Ronald J. Eidson 8/16/06 Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3239
	GEODETIC COORDINATES NAD 27 NME Y=855864.2 N X=666032.3 E LAT.=33.351593° N LONG.=103.789613° W

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State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☐

Operator: Samson Resources Telephone: 432-683-7063 e-mail address: droush@samson.com
Address: 200 N Loraine, Suite 1010, Midland, Texas 79701
Facility or well name: Mescalero Springs Unit #3 API #: 30-005-27954 U/L or Qtr/Qtr SWNE Sec 23 T 11S R 31E
County Chaves Latitude 33.351593 N Longitude 103.798613 W NAD: 1927
☐ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

<u>Pit</u>	<u>Below-grade tank</u>
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness 20 mil Clay <input type="checkbox"/> Pit Volume 20,000 bbls	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points)
Ranking Score (Total Points)	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 8/21/06

Printed Name/Title

Duke Roush Landman Signature Duke Roush

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title

PETROLEUM ENGINEER

Signature

[Signature]

Date:

AUG 29 2006