

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

AMENDED REPORT

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

¹ Operator Name and Address Sonat Raton, L.L.C P.O. Box 190; Raton New Mexico 87740		² OGRID Number 180514
		³ API Number 30-007-20161
³ Property Code 24648 25180	⁵ Property Name Vermejo Park Ranch	Well No. VPR 'B' 27 WDW

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
A	36	30N	18E	A	717 ft.	NORTH	801	EAST	COLFAX

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

⁹ Proposed Pool 1

Entrada

¹⁰ Proposed Pool 2

Dakota

¹¹ Work Type Code N	¹² Well Type Code S	¹³ Cable/Rotary air / rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 8070'(GL)
¹⁶ Multiple no	¹⁷ Proposed Depth 7400'	¹⁸ Formation Entrada	¹⁹ Contractor Aztec	²⁰ Spud Date January 20, 2000

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	350'	200 sx.	Surface
12 1/4"	10 3/4"	40.5#	2600'	500 sx.	Surface
9 7/8"	7 5/8"	26.4#	6440'	1100 sx.	Surface
6 3/4"	5 1/2"	15.5#	7400'	800 sx.	Surface

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 one.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

- Drill 17 1/2" surface hole to 350'. Set 13 3/8" casing and cement to surf. with 200 sx. Midcon 2, at 13.5 ppg., 1.76 yld., 100% excess.
- Drill 12 1/4" hole to just above Pierre Shale at approx. 2600'. Set 10 3/4" csg. Cement with 400 sx. Silica Lite at 12 ppg., 2.07 yld., followed by 100 sx. Class 'G' at 13.5 ppg., 1.76 yld. Cement bond log will be run if unable to circulate cement to surface.
- Drill 9 7/8" hole to Dakota fmt. at approx. 6440'. Set 7 7/8" csg. Cement with 1100 sx. Midcon 2 (12.0 ppg., 2.49 yld., 100% excess). Cement bond log will be run if unable to circulate cement to surface.
- Drill 6 3/4" hole through Entrada fmt. at approx. 7400'. Open hole logs to include inductionresistivity, caliper, density, and gamma ray. Set 5 1/2" csg. Cement with 700 sx. Midcon 2 (12.0 ppg., 2.17 yld.) followed by 100sx. Class 'G' (14.6 ppg., 1.46 yld.)
- Perforate Entrada fmt. attempt to catch native formation water sample. Conduct injectivity test. Sand frac if necessary to establish satisfactory injection rate.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *DR Lankford*

Printed name: **Donald R. Lankford**

Title: **Senior Petroleum Engineer**

OIL CONSERVATION DIVISION

Approved by: *R. E. Johnson*

Title: **DISTRICT SUPERVISOR**

Approval Date: **1/21/00**

Expiration Date: **1/21/01**

COLLECT AND SACW SAMPLES FOR
NEW MEXICO BUREAU OF MINES, SOCORRO
AT AT LEAST TEN FOOT INTERVALS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised March 17, 1994

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name
⁴ Property Code 24648	⁵ Property Name VERMEJO PARK RANCH		⁶ Well Number VPR'B'27 WDW
⁷ GRID No. 180514	⁸ Operator Name SONAT RATON, L.L.C.		⁹ Elevation 8069.9

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	36	T 30 N	R 18 E	A	716.6	NORTH	801.2	EAST	COLFAX

¹¹ 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
									COLFAX

¹² Dedicated Acres	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

16				716.6 ● 801.2	<p>¹⁷ 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</i></p> <p>Signature <u>DR Lankford</u></p> <p>Printed Name DONALD R. LANKFORD</p> <p>Title SENIOR PETROLEUM ENGINEER</p> <p>Date _____</p>	
						<p>¹⁸ 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>JANUARY 14, 2000</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>Certificate Number 5103</p>