



Submit 3 Copies To Appropriate District Office  
 District I  
 1625 N. French Dr., Hobbs, NM 87240  
 District II  
 811 South First, Artesia, NM 87210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised March 25, 1999

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

WELL API NO.  
 30-007-20126

5. Indicate Type of Lease  
 STATE  FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:  
**VPR 'A'**

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)  
 1. Type of Well:  
 Oil Well  Gas Well  Other Coalbed Methane

2. Name of Operator  
**SONAT RATON, L.L.C.**

8. Well No. - **06**

3. Address of Operator  
 P.O. Box 190; Raton, NM 87740

9. Pool name or Wildcat

4. Well Location  
 Unit Letter    P   : 1225.01 feet from the    South    line and 947.22 feet from the    East    line  
 Section 02 Township 31 N Range 19 E NMPM Colfax  
 County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
8209'(GR)

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: COMPLETION <input checked="" type="checkbox"/>	

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Perforate casing 2285 – 2288, 2269 – 2273 W/4 SPF and 2248 – 2258 W/2 SPF.  
 Frac'd 2248 – 2288 with 90,000 lbs. of sand.  
 Set RBP @ 2210.  
 Perforated casing 2151 – 2155, 2097 – 2104 W/4 SPF  
 Frac'd 2097 – 2155 with 110,000 lbs of sand.  
 Cleaned out to 2374'.  
 Ran production equipment (PC Pump)

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

SIGNATURE DR Lankford TITLE Sr. Petroleum Engineer DATE 9/29/99

Type or print name Donald R. Lankford Telephone No. (505) 445 4620

(This space for State use)  
 APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 9/30/99  
 Conditions of approval, if any:

Submit To Appropriate District Office  
 State Lease - 6 copies  
 Fee Lease - 5 copies  
 District I  
 1625 N. French Dr., Hobbs, NM 87240  
 District II  
 811 South First, Artesia, NM 87210  
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 1000 Rio Brazos Rd., Aztec, NM 87410  
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 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-105  
 Revised March 25, 1999

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

WELL API NO. 30-007-20115
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/> COALBED METHANE <input type="checkbox"/>	7. Lease Name or Unit Agreement Name  VPR 'A'
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>	
2. Name of Operator SONAT RATON, L.L.C.	8. Well No. 06
3. Address of Operator P.O. BOX 190: RATON, NM 87740	9. Pool name or Wildcat

4. Well Location  
 Unit Letter D : 1254 Feet From The NORTH Line and 863 Feet From The WEST Line  
 Section 31 Township 32N Range 20E NMPM Colfax  
 County

10. Date Spudded 06/23/99	11. Date T.D. Reached 06/26/99	12. Date Compl. (Ready to Prod.) 09/22/99	13. Elevations (DF& R(B. RT, GR, etc.) 8110' (GR)	14. Elev. Casinghead 8109'
15. Total Depth 2379'	16. Plug Back T.D. 2374'	17. If Multiple Compl. How Many Zones? Many	18. Intervals Drilled By Rotary Tools O-TD	Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name  
 2285 - 2288; 2269 - 2273; 2248 - 2258; 2151 - 2155; 2097 - 2104 VERMEJO COALS

21. Type Electric and Other Logs Run  
 CDL; Induction Log; CBL

22. Was Well Cored  
 NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	353'	11"	120 SKS	NONE
5 1/2	17#	2375'	7 7/8"	345 SKS	NONE

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	2281	

26. Perforation record (interval, size, and number) 2285 - 2288 4 SPF 2269 - 2273 4 SPF 2248 - 2258 2 SPF 2151 - 2155 4 SPF 2097 - 2104 4 SPF 48" DIA HOLES 92 TOTAL HOLES	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 2097 - 2288 AMOUNT AND KIND MATERIAL USED 1000 GAL OF 7 1/2 hcl; 150,000 LBS. of 20/40; 50,000 lbs. of 16/30; 1,090,000 scf of N2 (70 quality foam)
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28. PRODUCTION

Date First Production 09/22/99	Production Method (Flowing, gas lift, pumping - Size and type pump) 30-N-095 PC PUMP	Well Status (Prod. or Shut-in) PROD.					
Date of Test 09/23/99	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF TSTM	Water - Bbl. 180	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure 7 PSI	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF TSTM	Water - Bbl. 180	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
 Used for fuel or vented N2

Test Witnessed By  
 LARRY CASEY

30. List Attachments

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature <i>DR Lankford</i>	Printed Name DONALD R. LANKFORD	Title Sr. PETROLEUM ENGINEER	Date 09/30/99
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# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

### Southeastern New Mexico

- T. Anhy \_\_\_\_\_
- T. Salt \_\_\_\_\_
- B. Salt \_\_\_\_\_
- T. Yates \_\_\_\_\_
- T. 7 Rivers \_\_\_\_\_
- T. Queen \_\_\_\_\_
- T. Grayburg \_\_\_\_\_
- T. San Andres \_\_\_\_\_
- T. Glorieta \_\_\_\_\_
- T. Paddock \_\_\_\_\_
- T. Blinebry \_\_\_\_\_
- T. Tubb \_\_\_\_\_
- T. Drinkard \_\_\_\_\_
- T. Abo \_\_\_\_\_
- T. Wolfcamp \_\_\_\_\_
- T. Penn \_\_\_\_\_
- T. Cisco (Bough C) \_\_\_\_\_
- T. Canyon \_\_\_\_\_
- T. Strawn \_\_\_\_\_
- T. Atoka \_\_\_\_\_
- T. Miss \_\_\_\_\_
- T. Devonian \_\_\_\_\_
- T. Silurian \_\_\_\_\_
- T. Montoya \_\_\_\_\_
- T. Simpson \_\_\_\_\_
- T. McKee \_\_\_\_\_
- T. Ellenburger \_\_\_\_\_
- T. Gr. Wash \_\_\_\_\_
- T. Delaware Sand \_\_\_\_\_
- T. Bone Springs \_\_\_\_\_
- T. \_\_\_\_\_
- T. \_\_\_\_\_
- T. \_\_\_\_\_
- T. \_\_\_\_\_

### Northwestern New Mexico

- T. Ojo Alamo \_\_\_\_\_
- T. Kirtland-Fruitland \_\_\_\_\_
- T. Pictured Cliffs \_\_\_\_\_
- T. Cliff House \_\_\_\_\_
- T. Menefee \_\_\_\_\_
- T. Point Lookout \_\_\_\_\_
- T. Mancos \_\_\_\_\_
- T. Gallup \_\_\_\_\_
- Base Greenhorn \_\_\_\_\_
- T. Dakota \_\_\_\_\_
- T. Morrison \_\_\_\_\_
- T. Todilto \_\_\_\_\_
- T. Entrada \_\_\_\_\_
- T. Wingate \_\_\_\_\_
- T. Chinle \_\_\_\_\_
- T. Permian \_\_\_\_\_
- T. Penn "A" \_\_\_\_\_
- T. Penn. "B" \_\_\_\_\_
- T. Penn. "C" \_\_\_\_\_
- T. Penn. "D" \_\_\_\_\_
- T. Leadville \_\_\_\_\_
- T. Madison \_\_\_\_\_
- T. Elbert \_\_\_\_\_
- T. McCracken \_\_\_\_\_
- T. Ignacio Otzte \_\_\_\_\_
- T. Granite \_\_\_\_\_
- T. Raton - Surface \_\_\_\_\_
- T. Vermejo - 2087' \_\_\_\_\_
- T. Trinidad - 2324' \_\_\_\_\_
- T. \_\_\_\_\_
- T. \_\_\_\_\_
- T. \_\_\_\_\_
- T. \_\_\_\_\_

### OIL OR GAS SANDS OR ZONE:

No. 1, from.....to.....  
 No. 2, from.....to.....

No. 3, from.....to.....  
 No. 4, from.....to.....

### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....  
 No. 2, from.....to.....feet.....  
 No. 3, from.....to.....feet.....

### LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

**Sonat Raton  
P.O. Box 190  
Raton, NM 87740**

**Oct. 6, 1999**

**NOTICE OF GAS CONNECTION**

This is to notify the New Mexico Oil Conservation Division that connection for purchase of gas from Sonat Raton's Vermejo Park Ranch Well No. A-6, meter station no. 'A-6' located in unit letter D, Section 31, Township 32 North, Range 20 East, Colfax County, New Mexico, 160 acre area, was made on 09/22/99, by Sonat Raton, L.L.C. First delivery date: 10/1/99.

Purchaser: Sonat Raton, L.L.C.

Representative: *DR Lalland*

Title: Facilities Engineer

Sonat Raton, L.L.C.  
P.O. Box 190  
Raton, New Mexico 87740

October 5, 1999

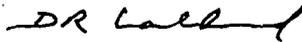
Mark Ashley  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

Mark:

The subject well, as well as all wells within the Vermejo Park Ranch have the following Working Interest:

Sonat Exploration:	75.000 %
Devon Energy:	25.000 %

Respectfully,



Don Lankford

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 Energy, Minerals and Natural Resources

Form C-103  
 Revised March 25, 1999

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

WELL API NO. 30-007-20115
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Coalbed Methane <input type="checkbox"/>		7. Lease Name or Unit Agreement Name:
2. Name of Operator SONAT RATON, L.L.C.		8. Well No. VPR 'A' - 6
3. Address of Operator P.O. Box 190; Raton, NM 87740		9. Pool name or Wildcat
4. Well Location Unit Letter <u>D</u> : <u>1254</u> feet from the <u>North</u> line and <u>863</u> West Line. Section <u>31</u> Township <u>32 N</u> Range <u>20 E</u> NMPM Colfax County		
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 8133'(GR)		

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b> PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETION <input type="checkbox"/> OTHER: <input type="checkbox"/>		<b>SUBSEQUENT REPORT OF:</b> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/> CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/> OTHER: <input type="checkbox"/>	
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12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 6/24/99: RU Thornton Rig 1. Spud well at 9 am
- 6/25/99: Drill 11" hole to 364'. Run and set 8 5/8" 24# J55 surface casing at 352' Cement with 140 sx. Circ. 40 sx. to surface.
- 6/27/99: Encountered drilling problems from water flow at 1290'
- 6/28/99: RD Thornton. RU completion rig. Finish drilling 7 7/8" hole to 2315'.
- 6/25/99: Cement with 325 sx. Circ. 2 bbls. To surface.
- 6/30/99: Ran and set 5 1/2" 17# J-55 casing at 2375'. Cement with 345 sx. No circulation. 200 psi.lift.
- 7/08/99: Perf. Squeeze holes at 2300' Remedial cement with 230 sx.
- 7/10/99: Ran CBL. Found fair cement bond. TOC at 440 ft.

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

SIGNATURE DR Lankford TITLE Sr. Petroleum Engineer  
 DATE 7/21/99

Type or print name Donald R. Lankford  
 Telephone No. (505)445-4620  
 This space for State Use  
 APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 7/22/99