



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.  
 30-007-20111

5. Indicate Type of Lease  
 STATE  FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

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. VPR 'A' - 2

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

9. Pool name or Wildcat

4. Well Location  
 Unit Letter C : 577 feet from the North line and 1593 feet from the West line  
 Section 6 Township 31 N Range 20 E NMPM Colfax County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
 8051'(GR)

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK  PLUG AND ABANDON

TEMPORARILY ABANDON  CHANGE PLANS

PULL OR ALTER CASING  MULTIPLE COMPLETION

OTHER:

SUBSEQUENT REPORT OF:

REMEDIAL WORK  ALTERING CASING

COMMENCE DRILLING OPNS.  PLUG AND ABANDONMENT

CASING TEST AND CEMENT JOB

OTHER:

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.

6/13/99: RU Thornton Rig 1. Spud well at 8 am. Drill 11" hole to 368'. Run and set 8 5/8" 24" J55 surface casing at 349'. Cement with 141 sx. Circ. 9.5 sx. To surface.

6/15/99: Drill 7 7/8" hole at 2370: Ran open hole logs. RD Thornton. RU Completion rig. Ran and set 5 1/2" 17# J-55 casing at 2338:

6/16/99: Cement with 280 sx. Circ. Gray water to surface.

6/17/99 Ran CBL. Showed good bond throughout with TOC at 190'.

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

SIGNATURE DR L. L. ... TITLE Sr. Petroleum Engineer

DATE 7/21/99

Type or print name  
 This space for State use

Telephone No. (505)445-4620

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 7/22/99

Conditions of approval, if any

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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. 30-007-20111
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.)		7. Lease Name or Unit Agreement Name: <b>VPR 'A'</b>
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Coalbed Methane		8. Well No. - 2
2. Name of Operator <b>SONAT RATON, L.L.C.</b>		9. Pool name or Wildcat
3. Address of Operator P.O. Box 190; Raton, NM 87740		
4. Well Location Unit Letter <u>C</u> : <u>577</u> feet from the <u>North</u> line and <u>1593</u> feet from the <u>West</u> line Section <u>6</u> Township <u>31 N</u> Range <u>20 E</u> <u>NMPM Colfax</u> County		
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 8051'(GR)		

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
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 2202 - 08 w/4SPF, 4SPF, 2194-98, 2185-88, & 2172 - 76 W/2SPF  
 Fracture treat perms 2172 - 2208 w/200,000 #sand  
 Set RBP @ 2050'  
 Perforate 1978 - 82' w/4 SPF  
 Fracture treat perms. 1978- 82' w/50,000 #sand  
 CO. to 2332'  
 RIH W/PCP AND TBG. Nu stuffing box & tbg.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.  
 SIGNATURE Donald R. Lankford TITLE Petroleum Engineer Advisor DATE 8/31/99

Type or print name Donald R. Lankford Telephone No.

(This space for State use)  
 APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 9/2/99  
 Conditions of approval, if any:

Submit To Appropriate District Office  
 State Lease - 6 copies  
 Fee Lease - 5 copies

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-105  
 Revised March 25, 1999

District I  
 1625 N. French Dr., Hobbs, NM 87240  
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 811 South First, Artesia, NM 87210  
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 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

WELL API NO. 30-007-20111
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  <b>VPR 'A'</b>
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 <b>SONAT RATON, L.L.C.</b>	8. Well No. <b>02</b>
3. Address of Operator P.O. BOX 190: RATON, NM 87740	9. Pool name or Wildcat

4. Well Location  
 Unit Letter C : 577 Feet From The North Line and 1593 Feet From The West Line  
 Section 06 Township 31N Range 20E NMPM Colfax  
 County

10. Date Spudded 06/12/99	11. Date T.D. Reached 06/14/99	12. Date Compl. (Ready to Prod.) 09/22/99	13. Elevations (DF& R(B. RT, GR, etc.) 8051' GR	14. Elev. Casinghead 8051'
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15. Total Depth 2370'	16. Plug Back T.D. 2334'	17. If Multiple Compl. How Many Zones? 	18. Intervals Drilled By 	Rotary Tools O-TD	Cable Tools 
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19. Producing Interval(s), of this completion - Top, Bottom, Name 1978-1982; 2172-2176; 2185 - 2188; 2194-2198; 2202-2208	20. Was Directional Survey Made No
--	---------------------------------------

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#	349'	11"	141 SKS	NONE
5 1/2	17#	2334'	7 7/8"	280 SKS	NONE

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	2189	

26. Perforation record (interval, size, and number) 1978 - 1982; .16 HOLES 2172 - 2176; .8 HOLES 2185 - 2188; .6 HOLES 2194 - 2198; DIA; 8 HOLES	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 1978 - 2208 AMOUNT AND KIND MATERIAL USED 900 GALS 7 1/2 HCL; 198,400 LBS. OF 20/40; 50, 480 LBS 16/30; 1,085,000 SCF OF N2 (70 QUALITY FOAM)
2202-2208; .24 HOLES SHOT R spf '48" DIA HOLES 62 HOLES	

28. PRODUCTION

Date First Production 10/01/99	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 09/27/99	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF TSTM	Water - Bbl. 437	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF TSTM	Water - Bbl. 437	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 	Printed Name Donald R. Lankford	Title Sr. Petroleum Engineer	Date 09/30/99
---------------	------------------------------------	---------------------------------	------------------



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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.  
 30-007-20111

5. Indicate Type of Lease  
 STATE  FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

**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. VPR 'A' - 2

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

9. Pool name or Wildcat

4. Well Location  
 Unit Letter C : 577 feet from the North line and 1593 feet from the West line  
 Section 6 Township 31 N Range 20 E NMPM Colfax County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
 8051'(GR)

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK  PLUG AND ABANDON

TEMPORARILY ABANDON  CHANGE PLANS

PULL OR ALTER CASING  MULTIPLE COMPLETION

OTHER:

SUBSEQUENT REPORT OF:

REMEDIAL WORK  ALTERING CASING

COMMENCE DRILLING OPNS.  PLUG AND ABANDONMENT

CASING TEST AND CEMENT JOB

OTHER:

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6/15/99: Drill 7 7/8" hole at 2370: Ran open hole logs. RD Thornton. RU Completion rig. Ran and set 5 1/2" 17# J-55 casing at 2338:

6/16/99: Cement with 280 sx. Circ. Gray water to surface.

6/17/99 Ran CBL. Showed good bond throughout with TOC at 190'.

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

SIGNATURE DR L. L. L... TITLE Sr. Petroleum Engineer

DATE 7/21/99

Type or print name  
 This space for State use

Telephone No. (505)445-4620

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 7/22/99

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 Section 6 Township 31 N Range 20 E NMPM Colfax  
 County

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

8. Well No. - **2**

9. Pool name or Wildcat

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
**8051'(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"/>	
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 Set RBP @ 2050'  
 Perforate 1978 - 82' w/4 SPF  
 Fracture treat perms. 1978- 82' w/50,000 #sand  
 CO. to 2332'  
 RIH W/PCP AND TBG. Nu stuffing box & tbg.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.  
 SIGNATURE Donald R. Lankford TITLE Petroleum Engineer Advisor DATE 8/31/99

Type or print name Donald R. Lankford Telephone No.

(This space for State use)  
 APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 9/2/99  
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WELL API NO. 30-007-20111
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  <b>VPR 'A'</b>
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 <b>SONAT RATON, L.L.C.</b>	8. Well No. <b>02</b>
---	-----------------------

3. Address of Operator P.O. BOX 190: RATON, NM 87740	9. Pool name or Wildcat
---	-------------------------

4. Well Location  
 Unit Letter C : 577 Feet From The North Line and 1593 Feet From The West Line  
 Section 06 Township 31N Range 20E NMPM Colfax  
 County

10. Date Spudded 06/12/99	11. Date T.D. Reached 06/14/99	12. Date Compl. (Ready to Prod.) 09/22/99	13. Elevations (DF& R(B. RT, GR, etc.) 8051' GR	14. Elev. Casinghead 8051'
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15. Total Depth 2370'	16. Plug Back T.D. 2334'	17. If Multiple Compl. How Many Zones? 	18. Intervals Drilled By Rotary Tools O-TD	Cable Tools
--------------------------	-----------------------------	--	--	-------------

19. Producing Interval(s), of this completion - Top, Bottom, Name 1978-1982; 2172-2176; 2185 - 2188; 2194-2198; 2202-2208	20. Was Directional Survey Made No
--	---------------------------------------

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#	349'	11"	141 SKS	NONE
5 1/2	17#	2334'	7 7/8"	280 SKS	NONE

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	2189	

26. Perforation record (interval, size, and number) 1978 - 1982; .16 HOLES 2172 - 2176; .8 HOLES 2185 - 2188; .6 HOLES 2194 - 2198; . DIA; 8 HOLES	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 1978 - 2208 AMOUNT AND KIND MATERIAL USED 900 GALS 7 1/2 HCL; 198,400 LBS. OF 20/40; 50, 480 LBS 16/30; 1,085,000 SCF OF N2 (70 QUALITY FOAM)
2202-2208; .24 HOLES SHOT R spf '48" DIA HOLES 62 HOLES	

**28. PRODUCTION**

Date First Production 10/01/99	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 09/27/99	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF TSTM	Water - Bbl. 437	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF TSTM	Water - Bbl. 437	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
---------------------------------	------------------------------------	---------------------------------	------------------

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

### Northwestern New Mexico

- |                             |                           |
|-----------------------------|---------------------------|
| T. Ojo Alamo _____          | T. Penn. "B" _____        |
| T. Kirtland-Fruitland _____ | T. Penn. "C" _____        |
| T. Pictured Cliffs _____    | T. Penn. "D" _____        |
| T. Cliff House _____        | T. Leadville _____        |
| T. Menefee _____            | T. Madison _____          |
| T. Point Lookout _____      | T. Elbert _____           |
| T. Mancos _____             | T. McCracken _____        |
| T. Gallup _____             | T. Ignacio Otzte _____    |
| Base Greenhorn _____        | T. Granite _____          |
| T. Dakota _____             | T. Raton - Surface _____  |
| T. Morrison _____           | T. Vermejo - 1976' _____  |
| T. Todilto _____            | T. Trinidad - 2224' _____ |
| T. Entrada _____            | T. Pierre - 2317' _____   |
| T. Wingate _____            | T. _____                  |
| T. Chinle _____             | T. _____                  |
| T. Permian _____            | T. _____                  |
| T. Penn "A" _____           | T. _____                  |

### OIL OR GAS SANDS OR ZONES

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-2, meter station no. 'A-2', located in unit letter C, Section 6, Township 31 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 Lalk*

Title: **Facilities Engineer**

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

October 5, 1999

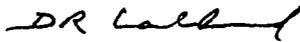
Mark Ashley  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, NM 87505

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