STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

5WD 4/19/00 FORM C-108 770 Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

√I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
✓ II.	OPERATOR: Sonat Raton, L.L.C.
	ADDRESS: P. O. Box 190; Raton, NM 87740-0190
	CONTACT PARTY: Don Lankford PHONE: 505-445-4621
VIII.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? X Yes No If yes, give the Division order number authorizing the project: N/A
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
∕* X .	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)
≯XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Ann E. Ritchie 915 6846381 TITLE: Regulatory Agent
	NAME: Ann E. Ritchie 915 684638/ TITLE: Regulatory Agent SIGNATURE: DATE: 4/3/2000
•	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: 7/22/99

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application the data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well Yo.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may he used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, 'township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Dil Conservation Division, P. 8. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF MOTICE HAS BEEN SUBHITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Sonat Raton, L.L.C. Vermejo Park Ranch "A", Well #42 Water Disposal 1619.4' FNL & 2510.6' FWL Section 1, T-31N, R-19-E Colfax County, New Mexico

Attachment A

III. Well Data

Section A:

1. Lease Name: Vermejo Park Ranch "A", Well #42 (Water Disposal)

Location: 1619.4' FNL & 2510.6' FWL, Sec. 1, T-31-N, R-19-E, Colfax Co. NM

2. Casing & Cementing (Wellbore Diagram attached)

Proposed:

Casing Size	Setting Depth	Sacks Cement	Hole Size	Top of Cement
13 3/8"	350°	200 sx	17 ½"	Surface
10 3/4"	2600'	500 sx	12 1/4"	Surface
7 5/8"	6440'	1100 sx	9 7/8"	Surface
5 ½"	7200'	750 sx	6 ¾"	Surface

3. Tubing: 2 7/8" 6.5# J-55 @ +/- 6350'

4. Packer: Baker Model R-3 @ +/- 6350'

Section B:

1. Injection Formation: Dakota/Entrada Sand

Field Name: Vermejo Park Ranch

- 2. Injection Interval: Dakota/Entrada Sandstone +/- 6400' 7350' (perforated interval)
- 3. Original Purpose of Well: Drilled for the purpose of disposing of produced Formation water.
- 4. No other perforated intervals
- Next Higher gas/oil zone: Vermejo Formation at approximately 2300' Next Lower gas/oil zone: None
- **IV.** This is an expansion of an existing project.
- V. Map attached "Attachment B", two mile & ½ mile radius area of review.

Sonat Raton, L.L.C. Vermejo Park Ranch "A", Well #42 Water Disposal 1619.4' FNL & 2510.6' FWL Section 1, T-31N, R-19-E Colfax County, New Mexico

VI. Area of Review

There are 4 wells within one half mile of the proposed disposal well, penetration is noted on forms attached.

VII. Operation Data:

- 1. Proposed average daily injection volume: 14,000 BWPD Proposed maximum daily injection volume: 20,000 BWPD
- 2. This well will be a closed system.
- Proposed average daily injection pressure: 875 psi
 Proposed maximum daily injection pressure: 2000 psi due to step rate
- Sources of injection/disposal water will be from the Vermejo and Raton
 Formation CBM wells that have been drilled or are scheduled to be drilled on the
 Vermejo Park Ranch.
- 5. Chlorides in the Entrada Formation are estimated to be between 1133 to 11,795 PPM as described in the "Attachment C" C-1, C-2 and C-3 Water Analysis Pantechs Laboratories taken from area wells – as available Chemical analysis of water zones penetrated while drilling were obtained by Roy Johnson, District 4, Oil Conservation Division, Santa Fe, NM.

VII. Geological Data:

Information pertaining to the lithological details and thickness are limited to the Eustace #1, located in Section 36, T-32-N, R-19-E, Unit J, 2500' FSL & 2300' FEL. Logs on the Eustace #1 were previously submitted to the Oil Conservation Division. (Eustace #1 Form C-103 & C-105 attached)

VIII. Stimulation Program

Anticipated frac job will be 200,000# 20/40 sand w/cross linked gell @ 5# per gallon.

X. Logs and Test Data

Well has not been logged to date, the Oil Conservation Division, Att: Roy Johnson, Santa Fe, NM, is on the distribution list for all logs

XI. Fresh Water

Roy Johnson, OCD took fresh water samples, during drilling

Sonat Raton, L.L.C. Vermejo Park Ranch "A", Well #42 Water Disposal 1619.4' FNL & 2510.6' FWL Section 1, T-31N, R-19-E Colfax County, New Mexico

XII. Statement

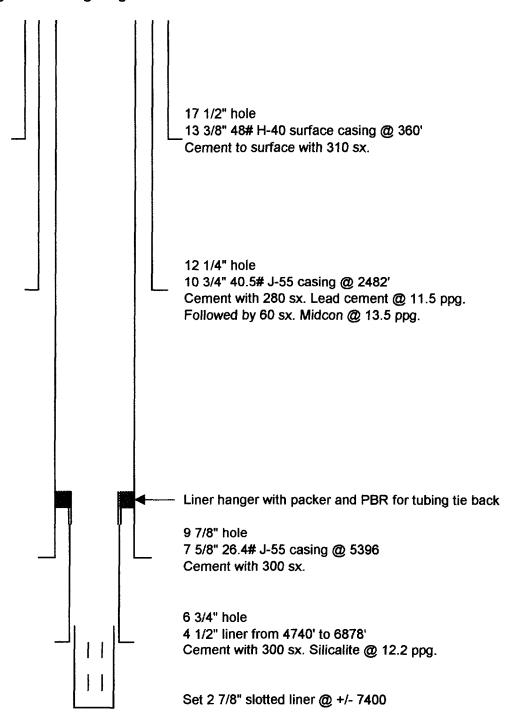
To the best of our current knowledge of the area there is no evidence of open Faults or other hydrologic connection between and disposal zone and underground Sources of drinking water.

XIII. Proof of Notice attached as "Attachment D"

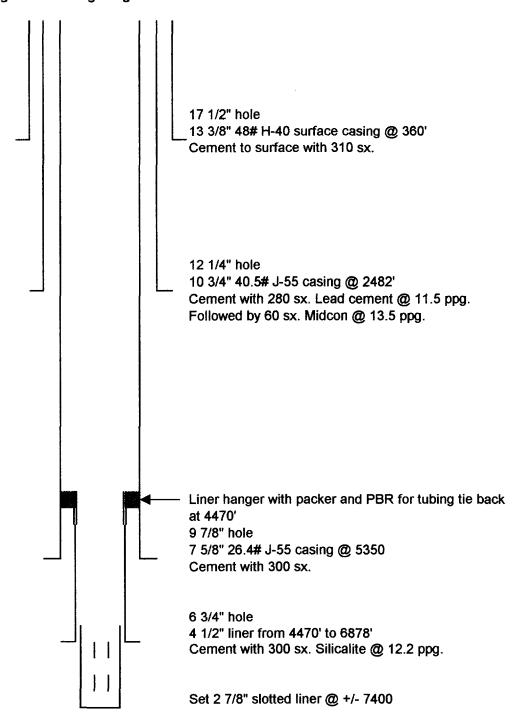
Sonat Raton, L.L.C. offsets Section 1 on all sides.

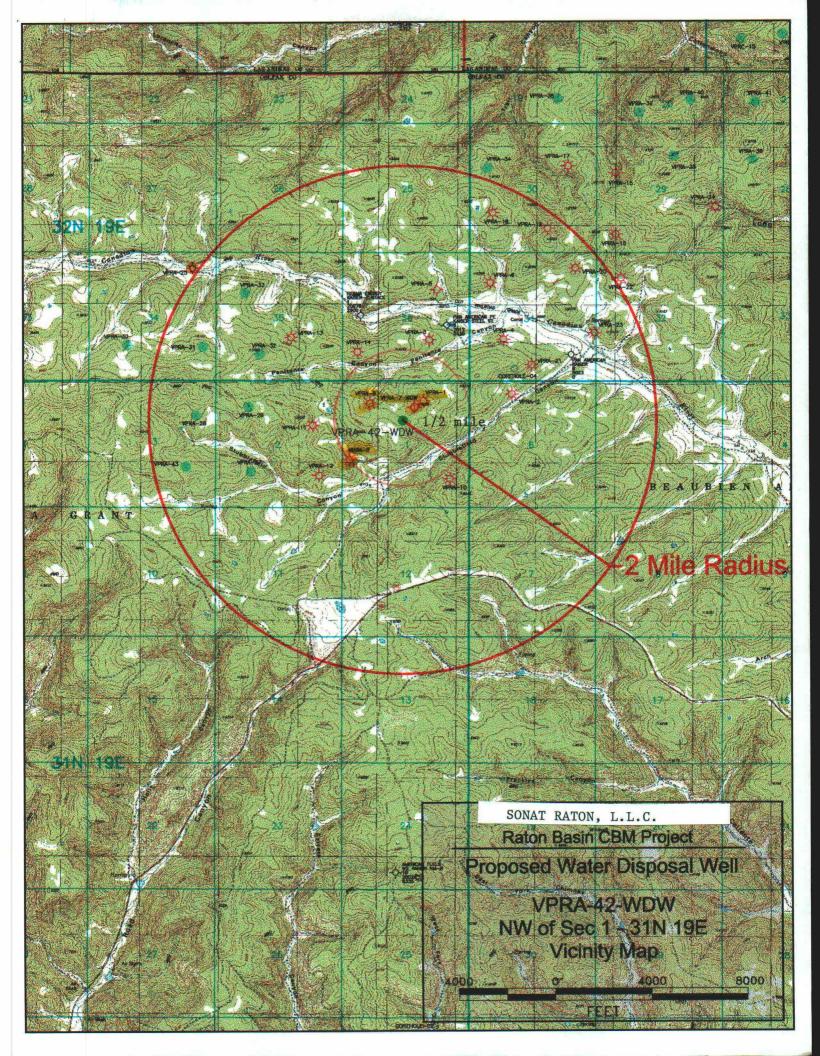
XIV. Certification: Form C-108 "Application for Authorization to Inject"

VPR'A' -42 WDW Revised Casing & Cementing Program



VPR'A' -42 WDW Revised Casing & Cementing Program





To Appropriate District	State of I				Form C-1	
	Energy, Minerals a	and Natu	ral Resources		Revised March 25, 1	1999
. French Dr., Hobbs, NM 87240				WELL API NO.		
dat II	OIL CONSERV	ATION	DIVISION	30-007-20116		
11 South First, Artesia, NM 87210	2040 So			5. Indicate Type of	of Lease	
District III 1000 Rio Brazos Rd., Aztec, NM 87410				STATE C	FEE X	
Dietrict IV	Santa Fe	, NM 87	/505	6. State Oil & G	as Lease No.	
2040 South Pacheco, Santa Fe, NM 87505						
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAL	S AND REPORTS ON S TO DRILL OR TO DEEP			7. Lease Name or	Unit Agreement Nar	ne:
DIFFERENT RESERVOIR. USE "APPLICATI	ION FOR PERMIT" (FORM	и C-101) FC	OR SUCH			
PROPOSALS.)						
Type of Well: Oil Well □ Gas Well □	Other Coalbed M	fathana				
2. Name of Operator	Other Coarbed IV	Tentane		8. Well No. VPR	5 A 2 7	
	RATON, L.L.C.			8. Well No. VPK	A 1	
3. Address of Operator	diron, b.b.c.	·		9. Pool name or V	Vildeat	
	190; Raton, NM 8774	10		9. I OUI Haine Of V	riucat	
4. Well Location	170, 141011, 1411 077			 		
Unit Letter B 1074	feet from the		North lin	e and 2276	East Line.	
 	Township 31 N	Range	19 E	NMPM Colfax	County	
	0. Elevation (Show w				County	
	8272'(GR		, 10D, 111, O1, e1c.			
11 Check Appr	ropriate Box to Ind		ature of Notice P	enort or Other I	Jota	
NOTICE OF INTE		izcate 148		SEQUENT REF		
PERFORM REMEDIAL WORK P						
PERFORM REMEDIAL WORK	LUG AND ABANDON	₩.	REMEDIAL WORK		ALTERING CASING	ــا ز
TEMPORARILY ABANDON C	HANGE PLANS		COMMENCE DRIL	LING OPNS.	PLUG AND ABANDONMENT	
PULL OR ALTER CASING	IULTIPLE		CASING TEST AN	n =	ADAINDONNEINI	
	OMPLETION		CEMENT JOB	_		
OTHER:			OTHER:			
12. Describe proposed or completed of	perations. (Clearly sta	ate all per	tinent details, and gi	ve pertinent dates,	ncluding estimated d	late
of starting any proposed work). SI	EE RULE 1103. For N	Multiple C	Completions: Attach	wellbore diagram o	of proposed completi-	.on
or recompilation.		•	-	J		
7/1/99: RU Thornton Rig 9. Spi	ud well at 5 am.					
7/2/99: Drill 17 1/2" hole to 356'						
7/3/99: Ran and set 13 3/8" 48# I						
Cement with 300 sx. Cem		rface.				
7/6/99: Drill 12 1/4" hole to 2662'						
Ran and set 9 5/8" 36# J-		662'				
Cement with 525 sx. No						
7/8/99: Pumped Bradenhead sque						
7/15/99: Drilled 8 3/4" hole to 6416		DIL/Cali	per/GR.			
7//19/99: Conditioning hole to run	7" casing.					
Therefore wife sheet information of		4 - 4 - 4b - 1		11 11 6		
I hereby certify that the information about	ove is true and comple	ic io ine t	est of the knowledg	e and deliel.		
SIGNATURE DR Lanch	_/	TITI E	SrPetroleum_Engi	ineer		
,	7	"IIIFE"	or "Legoienii Eußi	meet		—
DATE 7/21/99						
Type or print name Denald R, I	ankord			Tala	phoneNo.(505)445-4	620
This space for State Use	7/			1616	*CPP(COC).OFIDINGING	/
APPPROVED BY 7.4 4	Harry.	TITI E	ISTRICT SU	PERVISUR	DATE 7/22/9	इंद
Conditions of approval, if any:	<i>y y y y y y y y y y</i>	1111E		* 205 % T 5 % J & J 25	"DATE 1/004/	
Conditions of approval, it any.						

es To Appropriate District State of New Mexico Form C-103 Revised March 25, 1999 Energy, Minerals and Natural Resources <u>act Î</u> 1625 N. French Dr., Hobbs, NM 87240 WELL API NO. 30-007-20116 District II OIL CONSERVATION DIVISION 811 South First, Artesia, NM 87210 5. Indicate Type of Lease 2040 South Pacheco District III 1000 Rio Brazos Rd., Aztec, NM 87410 STATE \square FEE Santa Fe. NM 87505 District IV 6. State Oil & Gas Lease No. 2040 South Pacheco, Santa Fe, NM 87505 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name: (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A VPR 'A' DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well Gas Well Other Coalbed Methane Name of Operator 8. Well No. - 07 **SONAT RATON, L.L.C.** Address of Operator 9. Pool name or Wildcat P.O. Box 190; Raton, NM 87740 Well Location B : _1074 ______feet from the ____North _____ line and ___2276___ Unit Letter feet from the line East 01 Township 31N Section Range 19 E NMPM Colfax County 10. Elevation (Show whether DR, RKB, RT, GR, etc.) 8275'(GR) 11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMEDIAL WORK ALTERING CASING ☐ CHANGE PLANS П **TEMPORARILY ABANDON** COMMENCE DRILLING OPNS. **PLUG AND ABANDONMENT MULTIPLE PULL OR ALTER CASING CASING TEST AND** COMPLETION **CEMENT JOB** OTHER: OTHER: П 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. 07/25/99: Ran and set 7", 23#, J-55 casing at 5745'. Cement with 330 sx. RDMO United Rig #9. 08/02/99: MIRU Leed Rig #91 08/15/99: Wash to T.D. of 6620'. Condition hole. 08/16/99: Run open hole logs. Ran and set 5",18#, P-110 liner @ 6619' (Top of liner 5562'). 08/17/99: Cement with 200 sx. 08/18/99: CO liner to 6575'. 08/20/99: Squeeze liner top with 200 sx cement. 08/21/99: Perforate 4370-72 with 45PF. Cement with 500 sx. 08/22/99: Perforate 3150-52' with 4 SPF. Set cement retainer at 3039'. Cement with 500 sx. with 60-100% returns. 08/26/99: C.O. to linertop @ 5562'. Run CBL 08/27/99: C.O. to 6575'.

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

SIGNATURE

TITLE Petro levin Engs. Advisor DATE 9/2/99

Type or print name Woel W. Petscher

Telephone No. 505-445-

(This space for State use)

APPPROVED BY Kg & Ashirum
Conditions of approval, if any:

TITLE DISTRICT SUPERVISOR DATE 9/27/9

Submit To Appropriate District Office State of New Mexico Form C-105 State Lease - 6 copies Energy, Minerals and Natural Resources Revised March 25, 1999 Fee Lease - 5 copies District I WELL API NO. 1625 N. French Dr., Hobbs, NM 87240 30-007-20123 District II OIL CONSERVATION DIVISION 811 South First, Artesia, NM 87210 5. Indicate Type of Lease 2040 South Pacheco District III STATE FEE 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 District IV State Oil & Gas Lease No. 2040 South Pacheco, Santa Fe, NM 87505 WELL COMPLETION OR RECOMPLETION REPORT AND LOG 7. Lease Name or Unit Agreement Name OIL WELL GAS WELL DRY OTHER COALBED METHANE VPR 'A' b. Type of Completion: WORK PLUG NEW RESVR -DEEPEN OVER BACK **OTHER** WELL 2. Name of Operator 09 8. Well No. SONAT RATON, L.L.C. 3. Address of Operator 9. Pool name or Wildcat P.O. BOX 190: RATON, NM 87740 4. Well Location L: 1979 Feet From The South Line and 368 Feet From The West Unit Letter 01 Township 31N Range 19E NMPM Colfax Section County 12. Date Compl. (Ready to Prod.) 13. Elevations (DF& R(B. RT, GR, etc.) 14. Elev. Casinghead 11. Date T.D. Reached 10. Date Spudded 07/29/99 07/31/99 09/22/99 8274' (GR) 8273' 17. If Multiple Compl. How Many 18. Intervals Rotary Tools Cable Tools 15. Total Depth 16. Plug Back T.D. Drilled By O-TD 2520' 2368' 19. Producing Interval(s), of this completion - Top, Bottom, Name 20. Was Directional Survey Made 1378 - 1382; 1346 - 1350; 1300 - 1304; 1286 - 1290; 1127 - 1131; 1113-1118; 1086-1091; 1032-1036 RATON COALS 22. Was Well Cored 21. Type Electric and Other Logs Run NO CDL; Induction Log; CBL CASING RECORD (Report all strings set in well) 23. WEIGHT LB./FT. **DEPTH SET** HOLE SIZE CEMENTING RECORD AMOUNT PULLED **CASING SIZE** 353 11" 100 SKS NONE 23# 8 5/8 7 7/8" NONE 15.50# 2369 300 SKS 139 1 5 1/2 24. LINER RECORD 25. **TUBING RECORD** SACKS CEMENT | SCREEN TOP BOTTOM SIZE SIZE DEPTH SET PACKER SET 2 7/8 1406 26. Perforation record (interval, size, and number) Shot 4 SPF .48 dia. 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC 1378 - 1382; 1346 - 1350; 1300 - 1304; 1286 - 1290 136 holes DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1127 - 1131; 1113 - 1118; 1086 - 1091; 1032 - 1036 1032 - 1382 2500 GAL OF 71/2% hcl; 160,000 lbs of 20/40; 131,000 lbs. of 16/30; 1,689,000 scf of N2 (70 quality foam) **PRODUCTION** 28 Production Method (Flowing, gas lift, pumping - Size and type pump) **Date First Production** Well Status (Prod. or Shut-in 30-N-095 PC PUMP 10/01/99 PROD. Date of Test Hours Tested Choke Size Prod'n For Oil - Bbl Gas - MCF Water - Bbl. Gas - Oil Ratio 09/23/99 Test Period **TSTM** Flow Tubing Calculated 24-Oil - Bbl. Gas - MCF Water - Bbl. Casing Pressure Oil Gravity - API - (Corr.) 7 PSI Hour Rate Press. **TSTM** 88 29. Disposition of Gas (Sold, used fo Test Witnessed By LARRY CASEY r fuel, vented, etc.)
Used for fuel or vented N2 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

Title

Sr. Petroleum Engineer

Date

09/30/99

Printed

Name

Donald R. Lankford

Signature

DRL. EV.

State of New Mexico Energy, Minerals and Natural Resources

	Form	C-	105
tevised	March	25.	1999

r. French Dr., Hobbs, NM 87240 District II

OIL CONSERVATION DIVISION

WELL API NO. 30-007-20110
5. Indicate Type of Lease

District III					2040 South Pa	checo			J. Illulcat			FEE	
1000 Rio Brazzos Rd., Azzec, NM 87410 District IV Santa Fe, NM 87					87505		STATE FEE State Oil & Gas Lease No.						
2040 South Pacheco, Santa Fe, NM 87505 WELL COMPLETION OR RECOMPLETION REPORT AND LO							100		State On C	~ 0	us 130us	7110.	
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la. Type of Well: OIL WEI	T (GAS WEL	L DRY		OTHERCOAL	BED METH	IANE		7. Lease h		VPR '	Agreement	Name
b. Type of Compl NEW WELL	WORK COVER		PEN PL	UG	DIFF.	OTHER					VII. 1		
2. Name of Operato		DEE	PEN DA	<u> </u>	RESVK.	OTHER		十	8. Well No.		01	···	
SOI	NAT RA	ATON, L	L.C.						d. Well No.				
3. Address of Opera P.O. I		RATON,	NM 87740						9. Pool name	e or V	Vildcat		
4. Well Location	 				"			1					
Unit Letter		B:974	Fee	t From	TheNorth	Line an		58	Feet From	The	East		Line
Section County		01	Towns		31N	Range	19E						M Colfax
10. Date Spudded 06V15/99	11. Date 06/17/99		thed 12. 1 09/2		mpl. (Ready to Prod.)		Elevations (2' GR	(DF&	R(B. RT, GI	R, etc	·.)	14. Elev. 8271'	Casinghead
15. Total Depth 2547'	16	5. Plug Bac 190'		17. If	Multiple Compl. How ones?		18. Interv Drilled By		Rotary Tool	ls	L	Cable 7	
19. Producing Inter 2426 – 2444; 2376	val(s), of t - 2380; 23	his comple 386 - 2390	tion - Top, Bot; 2250 –2253;	tom, N						20. No	Was Di	rectional S	Survey Made
2264 – 2270; 2276			<u> </u>		VERMEJO (COALS			22. Was W	al C			
21. Type Electric au CDL; Induction Lo		ogs Kun							NO NO	en C	orea		
23.	g, CBL			CA	SING RECOR	D (Ren	ort all s	trin	os set in	We	11)		
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			· · · · · · · · · · · · · · · · · · ·		TO DECORD			الم					·- -
SIZE	TOP		воттом	LIN	ER RECORD SACKS CEMENT	SCREEN		SIZ			BING RE		PACKER SET
SIZE	101		DOTTON		JACKS CEMENT	SCICLLIA		27			2435	L I	TACKER SET
			 			 				-	2133	-	
26. Perforation re	cord (inter	rval, size, a	and number)			27. ACI	D, SHOT,	FR/	CTURE, C	EM	ENT, SQ	UEEZE,	ETC.
2426 – 2444; 226 2376 – 2380; 2276			Shot 4 SP			DEPTH II	NTERVAL		AMOUNT	AND	KIND M	ATERIA	L USED
2386 – 2390; 229			.46 dia. r			2291 - 2	444						000 lbs. of
2250 - 2253									20/40; 50				
						L			SCF OF 1	N2 (70 QUA	LITY F	FOAM)
28						DUCT							
Date First Production 10/01/99		3	0-N-095 PC I	PUMP	owing, gas lift, pumpin	-	type pump,		Well Statu PROD.				
Date of Test 09/23/99	Hours Te	ested	Choke Size		Prod'n For Test Period	Oil - Bbl	ı	Gas TST	– MCF M	_	Water - B! 185	bi.	Gas - Oil Ratio
Flow Tubing Press.	Casing P 7 PSI	ressure	Calculated 2 Hour Rate	24-	Oil - Bbl.	Gas -			Vater - Bbl. 185	_,L		ravity - A	PI - (Corr.)
29. Disposition of C	ias (Sold, i	used for fu	el, vented, etc.)		1					Te	st Witness ARRY CA	sed By	
Used for fuel or ven 30. List Attachment	ited N2			 		 		•		L/	RRY CA	SEY	
	-												
31 I hereby certif	y that the	informat	ion shown on	both s	ides of this form as i	true and co	omplete to	the l	est of my ki	now	edge and	l belief	
				1	Printed								
Signature					Name		Tit	le					Date
DR Lan	24_												
	-		Dona	ıld R.	Lankford		Sr. Pe	trole	um Engine	eer		0	9/30/99

Energy Minerals and Natural Resources Revised March 25, 1999		,				State of New M							D	Form C-105
County C	Discret I			En	ergy,	Minerals and Na	tural Re	sources	Γ	WELL AF	INO		Kev	rised March 25, 1999
Section Page	1625 N. French Dr., I			01	II CC	NICEDVATIO	NI DIU	ICION		WEEL AI	1110.		07-2011	7
Title Brown Rd. Amer., Not. 97-105 WELL COMPLETION OR RECOMPLETION REPORT AND LOG 12. Type of Well 13. Type of Well 14. Type of Well 15. Type of Well 16. Type of Well 17. Lease Name or Unit Agreement Name VPR 'A' WELL COMPLETION OR RECOMPLETION REPORT AND LOG 18. Type of Well 19. Type of Well 19. Type of Well 10. Diff Completies: 19. PLUG DEFER 19. BACK 19. PLUG DIFF 19. PLUG	811 South First, Artes	sia, NM 8721	10	O.	IL CC			1210N	Ī					
Tope A Company Continue	1000 Rio Brazos Rd.,	Aztec, NM	87410						-					
18. Type of Well:	2040 South Pacheco,	Santa Fe, Ni	M 87505							State Oil &	e Gas	Lease	No.	
Dig of Completions WORK DEPTEN BACK DIFF. STATE DIFF. STATE DIFF. STATE DIFF.		<u>OMPLE</u>	ETION C	OR RECC	MPL	ETION REPOR	RT AND	LOG						
Description	la. Type of Well: OIL WEI	ıı□ o	GAS WELL	DRY		OTHERCOAL	BED MET	HANE		7. Lease N	lame or	Unit A	greement	Name
2. Name of Operator	NEW			PL PL	UG □						VF	PR 'A	.,	
P.O. BOX 190: RATON, NM 87740	2. Name of Operato	or		·	ick	ILS VII.	OTILK	<u></u>		8. Well No.	08	3		
Unit Letter D : 950 Feet From The North Line and 1195 Feet From The West Line			RATON, 1	NM 87740						9. Pool name	or Wild	lcat	<u>,</u>	
Section O	4. Well Location													
County C	Unit Letter	D	:950	Feet	From T	TheNorth	Line ar	ıd119:	5	Feet From T	ne	West		_Line
10729999 10730999 10730999 1073099 10720999 1075 10	County		_		. •									
15. Total Depth 16. Plug Back T.D. 17. If Multiple Compl. How Many 18. Intervals Cable Tools 20.082 Depth 18. Producing interval(s), of this completion - Top, Botton, Name 21. Producing interval(s), of this completion - Top, Botton, Name 22. Was Well Cord NO NO NO NO NO NO NO N						mpl. (Ready to Prod.)			(DF&	R(B. RT, GF	t, etc.)			Casinghead
2349 - 2353; 2246 - 2250; 1459 - 1463; 1409 - 1413; 1236 - 1240; 1236 - 1240; 1207 - 1212; 1182 - 1185 11236 - 1240; 1207 - 1212; 1182 - 1185 1236 - 1240; 1207 - 1212; 1185 1236 - 1240; 1207 - 1212; 1185 1351 112 100 SKS 27 NONE	15. Total Depth			T.D.				18. Interv					Cable T	ools
22. Was Well Cored NO	2349 - 2353; 2246	- 2250; 14	59 – 1463;	1409 – 1413;	ttom, Na		RMEJO C	OALS					ectional S	urvey Made
CASING SIZE WEIGHT LB./FT DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLED	21. Type Electric a	nd Other L					·			1	ll Corec	1		
CASING SIZE WEIGHT LB.FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLED		og; CBL			CA	SING RECOR	D (Re	ort all s	trin	as set in	well)			
25		E	WEIGHT	LB./FT.								ORD	Al	MOUNT PULLED
24. LINER RECORD 25. TUBING RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 2.78 2370 26. Perforation record (interval, size, and number) 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. 28. 29. 2353, 2246 – 2250, 2236 – 2240, 28. POLICY 1.00 - 1413, 1397 – 1401; 29. 148 – 1401, 1397 – 1401; 2136 – 1240; 1207 - 1212; 1182 – 1185 AS DIA HOLES PRODUCTION PRODUCTION PRODUCTION PROPUCTION PROPUCTIO														
SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 2.7/8 2.370 2.6 Perforation record (interval, size, and number) 2.349 - 2353; 2246 - 2250; 2236 - 2240; Shot 4 SPF 1459 - 1463; 1409 - 1413; 1397 - 1401; A8" DIA HOLES 1236 - 1240; 1207 - 1212; 1182 - 1185 2.7 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1182 - 2353 1500 GAL OF 15% hel; 141 500 lbs of 20/40; 1182 - 2350 lbs. of 16/30; 1,157,000 sef of N2 (70 quality foam) 2.8 PRODUCTION Date First Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in PROD. Date of Test Hours Tested O9/23/99 24 Choke Size Prod'n For Oil - Bbl Gas - MCF Water - Bbl. Gas - Oil Ratio 09/23/99 24 Casing Pressure Test Period Test Witnessed By LARRY CASEY 29. Disposition of Gas (Sold, used for Pumple Period Pe	5 ½		15.5	-0#		2393 / //8"				300	SKS		1163'	NONE
SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 2.7/8 2.370 2.6 Perforation record (interval, size, and number) 2.349 - 2353; 2246 - 2250; 2236 - 2240; Shot 4 SPF 1459 - 1463; 1409 - 1413; 1397 - 1401; A8" DIA HOLES 1236 - 1240; 1207 - 1212; 1182 - 1185 2.7 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1182 - 2353 1500 GAL OF 15% hel; 141 500 lbs of 20/40; 1182 - 2350 lbs. of 16/30; 1,157,000 sef of N2 (70 quality foam) 2.8 PRODUCTION Date First Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in PROD. Date of Test Hours Tested O9/23/99 24 Choke Size Prod'n For Oil - Bbl Gas - MCF Water - Bbl. Gas - Oil Ratio 09/23/99 24 Casing Pressure Test Period Test Witnessed By LARRY CASEY 29. Disposition of Gas (Sold, used for Pumple Period Pe														
SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 2.7/8 2.370 2.6 Perforation record (interval, size, and number) 2.349 - 2353; 2246 - 2250; 2236 - 2240; Shot 4 SPF 1459 - 1463; 1409 - 1413; 1397 - 1401; A8" DIA HOLES 1236 - 1240; 1207 - 1212; 1182 - 1185 2.7 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1182 - 2353 1500 GAL OF 15% hel; 141 500 lbs of 20/40; 1182 - 2350 lbs. of 16/30; 1,157,000 sef of N2 (70 quality foam) 2.8 PRODUCTION Date First Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in PROD. Date of Test Hours Tested O9/23/99 24 Choke Size Prod'n For Oil - Bbl Gas - MCF Water - Bbl. Gas - Oil Ratio 09/23/99 24 Casing Pressure Test Period Test Witnessed By LARRY CASEY 29. Disposition of Gas (Sold, used for Pumple Period Pe														
26. Perforation record (interval, size, and number) 2349 - 2353; 2246 - 2250; 2236 - 2240; Shot 4 SPF 1459 - 1463; 1409 - 1413; 1397 - 1401; 48" DIA HOLES 1236 - 1240; 1207 - 1212; 1182 - 1185 28 PRODUCTION Date First Production Date of Test Double of Test D		mon		DOTTOM	LIN		Leonem							L D + CVCD CDC
26. Perforation record (interval, size, and number) 2349 - 2353, 2246 - 2250; 2236 - 2240; Shot 4 SPF 1459 - 1463; 1409 - 1413; 1397 - 1401; 48" DIA HOLES 1236 - 1240; 1207 - 1212; 1182 - 1185 28 PRODUCTION Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in PROD. Date of Test Hours Tested Choke Size Prod'n For Test Period Test Production Casing Pressure Calculated 24- Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API - (Corr.) 29. Disposition of Gas (Sold, used for fuel or vented N2 30. List Attachments 31. Thereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief Printed Name Title Date	SIZE	TOP		BOTTOM		SACKS CEMENT	SCREEN	1					1	PACKER SET
2349 - 2353; 2246 - 2250; 2236 - 2240; Shot 4 SPF A8" DIA HOLES 1459 - 1463; 1409 - 1413; 1397 - 1401; A8" DIA HOLES 1236 - 1240; 1207 - 1212; 1182 - 1185 144 HOLES 156,500 lbs. of 16/30; 1,157,000 scf of N2 (70 quality foam)									-					
1459 - 1463; 1409 - 1413; 1397 - 1401; 1236 - 1240; 1207 - 1212; 1182 - 1185				d number)	Chas	4 CDF								
PRODUCTION Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in PROD. Date of Test Hours Tested Choke Size Prod'n For Test Period Test Period TSTM 180 Flow Tubing Casing Pressure TPSI Hour Rate TSTM 180 29. Disposition of Gas (Sold, used for fuel or vented N2 30. List Attachments Large Hour Age Printed Name Title Signature Date of Total N2 Printed Name Title Its Witnessed By knowledge and belief Printed Name Title Date of Total N2 Title Date Its Witnessed By knowledge and belief Printed Name Title Date of Title Date Date Date of Total N2 Title Date Printed Name Title Date Date of Title Date Date of Total N2 Title Date Date of Title Date Date of Title Date Date of Title Date Date of Total N2 Total N2 Title Date of Title Date Date of Total N2 Title Date Date of Total N2 Title Date Date of Title Date Date Date of Total N2 Total N2 Title Date Date of Total N2 Total N2 Title Date Date of Total N2 Total N2 Title Date Date of Total N2 Total N2 Total N2 Title Date Date of Total N2														
PRODUCTION Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in PROD.	1236 – 1240; 1207	- 1212 ; 11	82 - 1185		144	HOLES	1102 - 2555						000 103 01 20/40,	
Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in 10/01/99 30-N-095 PC PUMP PROD.														ty foam)
Date of Test Hours Tested Choke Size Prod'n For Oil - Bbl Gas - MCF Water - Bbl. Gas - Oil Ratio											_			
Date of Test Hours Tested 24 Choke Size Prod'n For Test Period Test Period TSTM 180 Gas - MCF Water - Bbl. 180 Gas - Oil Ratio Test Period TSTM 180 Oil Gravity - API - (Corr.) Flow Tubing Casing Pressure TPSI Hour Rate Prod'n For Test Period Test Period TSTM Test Witnessed By LARRY CASEY LARRY CASEY 30. List Attachments Attachments Title Date Printed Title Date Da		on				wing, gas lift, pumpin	g - Size and	d type pump,)		s (Prod.	or Shu	t-in	
Press. 7 PSI Hour Rate TSTM 180 29. Disposition of Gas (Sold, used for fuel, vented, etc.) Used for fuel or vented N2 30. List Attachments 31. Thereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief Printed Name Title Date			sted	Choke Size			Oil - Bbl			- MCF			l	Gas - Oil Ratio
Signature Title Date LARRY CASEY LARRY CASEY LARRY CASEY LARRY CASEY LARRY CASEY Title Date	•		ressure		24- 	Oil - Bbl.						Oil Gr	avity - Al	PI - (Corr.)
31 Thereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief Printed Signature Name Title Date						<u></u>	L							
Printed Name Title Date			_								L			
Signature Name Title Date	31 Thereby certif	y that the	informatio	on shown on	both s	ides of this form as t	rue and c	omplete to	the b	est of my kn	owledg	ge and	belief	
	Signature							Titl	le					Date
	DRLul	4-1		Don						ım Fngine	. p			

LABORA'. (RIES PANTLE IS

☐ P.O. BOX 2439

TEL. 806 669-6821

PAMPA, TEXAS 79066-2439

P. O. BOX 3246

TEL. 806 797-4325

LUBBOCK, TEXAS 79452-3246

MATER ANALYSIS

SAMPLING BATA	MALYTICAL
Lab 6	pH Specific or Resistivity Filterable Carbon diox Sulfide (as Total hardo
Sampled by	DISSOLVED S
REMARKS: . + Cimarron, New Mexico Area	Cations Sodium (Na)
Color: Gray; cloudy; suspended Solids -	Calcium (Ca Magnesium (Iron (Fe), Potassium (Barium (Ba)
	Anions
OISTRIBUTION	Chloride (E Sulfate (SC Carbonate (Bicarbonate
3-Vermajo Higerals Corporation	9. Car 9014.

	-		440	•
ANAL	4111.	ai i	881	8

pH	8.09
Specific gravity & 75 deg. F	1.0031
Resistivity (ohs-s)	1.19
Filterable solids (ag/1)	166.8
Carbon dioxide (CO2) ag/1	NA
Sulfide (as H2S) so/l	NA
Total hardness (as CaCO3) ag/i	HA

SQLIDS

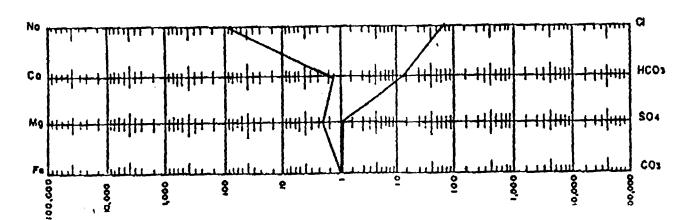
Cations	aeq/1	aq/1	ppa
Godium (Na)	\$5.4	1963	1957
Calcina (Ca)	1.5	30	20
Magnesiue (Mg)	2.5	20	30
Iron (Fe), total	.7	20	20
Potassive (K)	MA	NA	KA
Barios (Ba)	XA	KA	AK
Anions			
Chloride (C1)	71.2	2524	2516
Sulfate (SO4)	Q	0	Q
Carbonate (CO3)	Ō	0	0
Bicarbonate (MCO3)	18.9	1153	1149
Hydroxide (OH)	Ó	0	0
Total dissolved			
solids (calculated)	180.2	5720	5702

ILLEGIBLE

Mr Larry Williamson

Analysis By: ___Steve Hopkins

Water Patterns (seq/1) Logarithmic



PANTL(HS LABORA,)RIES

D P. O. BOX 2439

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TEL. 806 797-4325

LUBBOCK. TEXAS 79452-3246

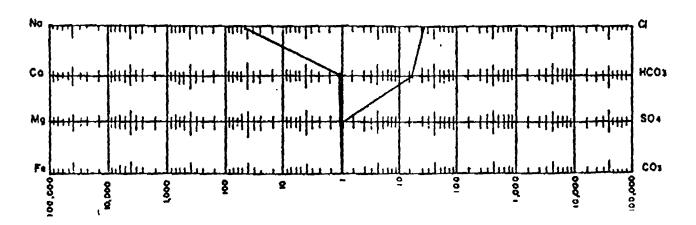
WATER ANALYSIS

	SAMPLING DATA	. ANALYTICAL DATA			
•	Lab #	pH	g. F	1.0005 1.98 10.8 NA	
	REMARKS:	DISSOLVED SOLIDS			
		Cations	aeq/1	ng/l	pps
	Cinarron, New Hexico Area	Sodium (Na)	53.7	1235	1234
	Color: Yellow; cloudy: suspended solids	Calcium (Ca) Magnesium (Mg) Iron (Fe), total Potassium (K) Barium (Ba)	.7 0 NA NA	18 ·9 ·0. NA NA	10 7 0 M A M A
		Anions			
	BISTRIBUTION	Chloride (Cl) Sulfate (504) Carbonate (503)	32 0 0	1134 0 0	1133
	3-Vermejo Himerals Corporation Rte i Box 68 Cimarron, Hew Mexico 87714	Bicarbonate (MCO3) Hydroxide (QH)	23.3	142Î 0	1420
	Mr Larry Williamson	Total dissolved solids (calculated)	110.6	3817	3814

ILLEGIBLE

Analysis By: Steve Hopkins

Water Patterns (seq/1) Logarithmic



PANTI CHS LABORA ORIES

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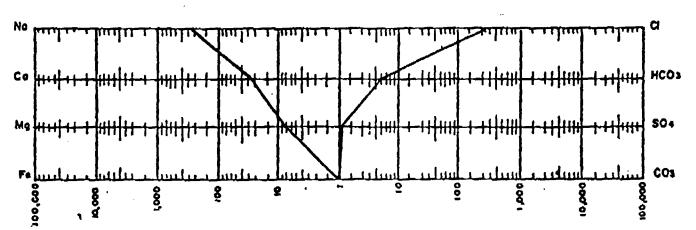
Attachment C-3
MATER ANALYSIS

SAMPLING DATA	ANALYTICAL BATA			
Lab 8	pH		. 566 NA NA	٠
•	DISSOLVED SOLIDS			
REMARKS:	Cations	82 q/1	sq/1	ppe
• Cinarron, New Mexico Arma	Fodium (Ng)	302.2	4948	6851
Color: Orange M/Suspended Solids	Calcium (Ca) Magnesium (Mg) Iron (Fe), total Potassium (K) Barium (Ba)	32.6 7.6 1.1 NA NA	453 92 31 NA NA	644 91 31 NA MA
	Anlans	•		
DISTRIBUTION 3-Vermejo Minerals Corporation Rts 1 Box 68	Chloride (C1) Sulfate (S04) Carbonate (C03) Bicarbonate (HC03) Hydroxide (OH)	337.4 .i .0	11761 5 0 366	11795 5 0 361 0
Cimarron, Newe Mexico 87714 Mr Larry Williamson	Total dissolved solids (ca)culated)	687	20056	19778

ILLEGIBLE

Analysis By Steve Hopkins

Water Patterns (meq/)) Logarithmic



Submit to Appropriate

penetrated top of Trinidad

State of New Mexico

Form C-105 Revised 1-1-29

	K	erled	1.
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DIL CONSERVATION DIVISION P.O. Box 2088 Sama Fe, New Mexico 87504-2088 Sama Fe, New Mexico 87504-2088 Sama Fe, New Mexico 87504-2088 Sama Francis Fe Fe Sama Fe, New Mexico 87504-2088 Sama Francis Fe Fe Sama Fe, New Mexico 87504-2088 Sama Francis Fe Fe Sama Fe, New Mexico 87504-2088 Sama Francis Fe Fe Sama Fe Fe Fe Sama Fe	District Office		Energy, Minera	TR TING LATERLET	MOSOW V	es trehenn	Ear			MANAGE 1	-1-67
STRICT Competition Compe	Biata Lassa — 6 copies Pee Lasse — 5 copies <u>DISTRICT I</u> P.O. Box 1980, Hobbs, N	M 88240	OIL CON			IVISIC	אל _	30-007-	20076		
STRICTION WELL COMPLETION OR RECOMPLETION REPORT AND LOG COUNTY COU	DISTRICT II P.O. Drawer DD, Arlesia	, NM \$8210	Santa Fe			4-2088	L		STAT		FEE X
Type of Completion:	DISTRICT III 1000 Rio Brazos R4., Az	tac, NM 87410							Gas Lease No.		
Type of Completion:			OR RECOMPL	ETION REPO	ORT ANI	LOG					
Name of Operator Pennzol 1 Exploration & Production Company Research Septenzol 1 Septenzol 2 S	L Type of Well:							7. Lease Name	or Unit Agree	ment Name	
Pennzol1 Exploration & Production Company Addess of Operator Addess of Operator P.O. Box 2967, Houston, TX 77252 Will Coation Unit Later Unit File Social Unit File Social Unit File Unit Social Unit Social Unit File Unit Social Unit File Unit Social Unit Social Unit File Unit Social Unit So	N. Type of Completion: NEW WORK WELL OVER		RUO []	DOTP RESVIR [OTHE	R <u>P</u>	& A		NA			
P. O. Box 2967 Houston TX 77252 Wildcat	Name of Operator Pennzoil Expl	oration &	Production	Company			1	Eustac		· · · · · · · · · · · · · · · · · · ·	
Unit Latter		, Houston	, TX 77252	•							
Section 36 Township 32 N Range 19 E NAPPM Colfax County		J , 250	0 Feet From The	South	•	Line and _	2300	Feet F	rom The	East	Llo
1. 1. 1. 1. 1. 1. 1. 1.				n a · se	Range	19 E	N	ем С	olfax		County
Producting Interval(0), of this completion - Top, Bottom, Name 1894-1986 Co.a1 CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT LB/FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLS 5 /8 24 327 12 1/4 225 Sacks 0 5 1/2 14 2464 7 7/8 325 sacks foam cement 0 LINER RECORD 25 TUBING RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SE PErfortation record (interval, size, and number) 1894-1904 1951-1955 1920-1922 1963-1970 4 SPF 1894-1904 1978-1986 1924-1934 1978-1986 1923-1945 PRODUCTION Production Mishod (Flowing, gas lift, pumping - Size and type pump) 1st of Test Hours Testad Choks Size Prod's For Oil - Bib. Cas - MCF Water - Bib. Cas - Oil Raid (2/17/89) 24 NA Test Period O 10 244 NA Disposition of Cas (Sold, used for fiel, vensed, stc.) List Attachments	0. Date Spudded 1 4/27/85	11. DNs T.D. Res 5/14/85	ched 12 Date (Compl. (Ready to 1 1/15/89	Prod.)	80	69 GR				
1. Type Electric and Other Logs Run	5. Total Depth 2497			17, If Multiple C Many Zoses	Compl. How	18.	lotervals Dailled By	Rotary Tool	7 C	able Tools	
CASING RECORD (Report all strings set in well)			s - Top, Bottom, Nam	•						ocai Survey	Made
CASING SIZE WEIGHT LB/FF. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLS 8 5/8 24 327 12 1/4 225 Sacks 0 5 1/2 14 2464 7 7/8 325 sacks foam cement 0 LINER RECORD 25. TUBING RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SE Perforation record (interval, size, and number) Perforation record (interval, size, and number) 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. 1894-1904 1951-1955 DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1920-1922 1963-1970 4 SPF 1924-1934 1978-1986 1939-1945 PRODUCTION Its Pirat Production 11/15/89 Prumping Production Method (Flowing, gar lift, pumping - Size and type pump) Pumping Shut-in State of Test 12/17/89 24 NA Test Period 0 10 244 NA OW Tubing Press. Calculated 24- Oil - Bbi. Gas - MCF Water - Bbi. Oil Gravity - API - (Corr.) NA Calculated 24- Oil - Bbi. Gas - MCF Water - Bbi. Oil Gravity - API - (Corr.) NA Test Period 0 10 244 NA Disposition of Oas (Sold, used for fuel, vensed, etc.) Tost Wilseased By L. D. Williamson	Unknown	er Logs Rus									
CASING SIZE WEIGHT LB/FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLS	.		CASING F	ECORD (F	Report a	II strings	set in v	vell)	-		
LINER RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE TUBING RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SE Perforation record (interval, size, and number) 1894-1904 1951-1955 DEPTH INTERVAL AMOUNT AND KND MATERIAL USED 1924-1934 1978-1986 PRODUCTION Production Melbod (Flowing, gas lift, pumping - Size and type pump) State of Test Hours Testad Choke Size Prod's For NA Disposition of Cas (Sold, used for fuel, varied, stc.) Pentle of Cas (Sold, used for fuel, varied, stc.) Test Witnessed By L. D. Williamson	CASING SIZE		BIFT. DEP	TH SET	HOLE	SIZE	CEN	MENTINO R	ECORD		
LINER RECORD 25. TUBING RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SE Perforation record (interval, size, and number) 1894-1904 1951-1955 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. 1894-1904 1951-1955 DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1924-1934 1978-1986 150,000 a and 1924-1934 1978-1986 1939-1945 Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Frad. or Shur-in) 11/15/89 Pumping Shut-in 12/17/89 24 Choke Size Prod's For Oil Bbit. Gas - MCF Water-Bbit. Gas - Oil Raid 12/17/89 24 Choke Size Prod's For Oil - Bbit. Gas - MCF Water-Bbit. Gas - Oil Raid 12/17/89 20 Roll Raid 10 244 NA Disposition of Gas (Sold, used for fuel, wated, ste.) Teat Witnessed By L. D. Williams on											
SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SE Perforation record (interval, size, and number) 1894-1904 1951-1955 1920-1922 1963-1970 4 SPF 1924-1934 1978-1986 1939-1945 PRODUCTION SIZE DEPTH SET PACKER SE DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1894-1986 150,000 sand. PRODUCTION SIZE DEPTH SET PACKER SE PROPERTY INTERVAL AMOUNT AND KIND MATERIAL USED 1894-1986 150,000 sand. PRODUCTION SIZE DEPTH SET PACKER SE DEPTH SET PROCESS Well Status (Fred. or Sharin) Shut-in Shut-in State of Test Hours Tested Choks Size Prod's For Oil-Bbl. Gas - MCF Water-Bbl. Gas - Oil Ratio 12/17/89 24 NA Test Parlod 0 10 244 NA OW TUBING Press. Calculated 24- Oil-Bbl. Gas - MCF Water-Bbl. Oil Gravity - API - (Corr.) NA Disposition of Gas (Sold, used for fuel, vented, etc.) Vent ed List Attachments List Attachments	2_1/2		240				323 8	CKB IOA	m cement		
SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SE Perforation record (interval, size, and number) 1894-1904 1951-1955 1920-1922 1963-1970 4 SPF 1924-1934 1978-1986 1939-1945 PRODUCTION SIZE DEPTH SET PACKER SE DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 1894-1986 150,000 sand. PRODUCTION SIZE DEPTH SET PACKER SE PROPERTY INTERVAL AMOUNT AND KIND MATERIAL USED 1894-1986 150,000 sand. PRODUCTION SIZE DEPTH SET PACKER SE DEPTH SET PROCESS Well Status (Fred. or Sharin) Shut-in Shut-in State of Test Hours Tested Choks Size Prod's For Oil-Bbl. Gas - MCF Water-Bbl. Gas - Oil Ratio 12/17/89 24 NA Test Parlod 0 10 244 NA OW TUBING Press. Calculated 24- Oil-Bbl. Gas - MCF Water-Bbl. Oil Gravity - API - (Corr.) NA Disposition of Gas (Sold, used for fuel, vented, etc.) Vent ed List Attachments List Attachments											
Perforation record (interval, size, and number) 1894-1904 1951-1955 1920-1922 1963-1970 1978-1986 1978-19	i.	····	LINER RECO	ORD		 	25.	TU	BING RECO	ORD	
1894-1904 1951-1955 DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED	SIZE	TOP			ENT	SCREEN					ACKER SE
1920-1922	Perforation reco	rd (interval, siz	ze, and number)	1	2	n. ACID,	SHOT,	FRACTUR	CEMENT	SQUE	ZE, ETC.
1924-1934 1978-1986 PRODUCTION Its First Production Production Method (Flowing, gar lift, pumping - Size and type pump) Pumping It of Test 12/17/89 Pumping Choks Size Prod's For Oil - Bbl. Test Period O 10 244 NA Ow Tubing Press. Catalign Pressure 20 Cliculated 24- Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API - (Corr.) NA Disposition of Gas (Sold, used for fuel, vented, stc.) Vent ed List Attachments	1894-1904		-			DEPTH INT	ERVAL.	AMOU	NT AND KINI	MATERI	AL USED
PRODUCTION ALLE First Production Alle First Production Production Method (Flowing, gar lift, pumping - Size and type pump) Pumping Pumping Production Method (Flowing, gar lift, pumping - Size and type pump) Pumping Shut = in Case - Oil Ration 12/17/89 24 NA Test Period O 10 244 NA Oil Gravity - API - (Corr.) NA Disposition of Qas (Sold, used for fuel, verted, stc.) Vent ed List Attachments	1924-1934				11	394-198	6	150.0	braa 00		
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Vented L. D. Williamson	ow Tubing Press. NA				1		W.			y - API - (C	orr.)
	. Disposition of Cas (So Vented	id, used for feel, t	rented, etc.)							meon	
. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief	List Attachments										
	. I hereby certify that	the information	shown on both side	s of this form is	true and	complete to	the best	of my browle	dge and beliq	/	

EUSTACE Submit 3 Copies to Appropriate District Office	State of New Me Energy, Minerals and Natural Re		Form C-103 Revised 1-1-89			
Districti P.O. Box 1960, Hobbe, NM 81240	OIL CONSERVATIO	WELL API NO. 30-007-20076				
DISTRICT II P.O. Drawe DD, Astella, NM \$2210	Santa Fe, New Mexico	5. Indicate Type of Lesse				
DISTRICT III 1000 Rio Briton Rd., Amer., NSM 87410			STATE FEE E			
CINODA NO.	TIGER AND DEPONTE ON WE	10				
(DO NOT USE THIS FORM FOR PE DIFFERENT RESE	FICES AND REPORTS ON WEI ROPOSALS TO DRILL OR TO DEEPEN PRIVAIR. USE "APPLICATION FOR PE C-101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name NA			
P. Table of Majit] onex					
2. Name of Operator .			8. Well No.			
Pennsoil Exploration Address of Openior	& Production Company		Eustace #1			
P.O. Box 2967, Housto	9. Pool name or Wildest Wildcat					
	O Feet From The South	Line and 2300	Feet From The East Line			
Section 36	Township 32 N R	19 E	NMPM Colfax County			
	10. Elevation (Show whether	DP, RKB, RT, GR, etc.)	VIIIIIIIIIIIII			
II. Check	Appropriate Roy to Indicate	\T-4 C\T-4 T				
NOTICE OF IN	Appropriate Box to Indicate					
	~	805	SSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING			
TEMPORABLY ABANDON	Change Plans	COMMENCE DRILLING	3 opns. 🔲 Plug and Abandonment 🗓			
PULL OR ALTER CASING CASING TEST AND C			EMENT JOB .			
OTHER:		OTHER:				
12. Describe Proposed or Completed Open work) SEE RULE 1103.	riloos (Clearly state all perinent details, an	d zive perihen dates, inclu	ding enimated date of starting any proposed			
of class A @	111 hole with 8.8 ppg 1 15.9 ppg from 975 to 8	ientonite mud. 175 across know	of class A @ 15.6 ppg from 1850 Set 100' cement plug w/12 sks n casing leak. Set CIBP @ 850' 5.6 ppg. Location cleared and			
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I harmby cartly that the information apolyo is you	sad for side to the best of my barnets - 41	.11.4				
BONATURE A 19-1111	Illussian m		erintendent page 6/1/90			
TYPE OR PROPERAGE L. D. 1	Villiamson		DATE 07 17 50 376-2			
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15 S / S	Rum_	DISTRICT ST	JPERVISOP /-5-80			

WAYN A TYAOAKE SO SHOLLIGHOO

Attachment "D"

XIII. Proof of Notice

Surface Owner:

Vermejo Park, L.L.C. P. O. Drawer E Raton, NM 87740

Working/Offset & Royalty Owners:

Sonat Raton, L.L.C. Sonat Exploration P. O. Box 1513 Houston, Texas 77251-1513 Attn: Stephen P. Guerin, P.E.

Vermejo Minerals Corp. C/o Devon Energy Corp. P. O. Box 4616 Houston, Texas 77210-4616 Attn: Ken Gray

Copies of the Oil Conservation, Division, Form C-108 have been sent to the above stated parties by certified mail on the the 3rd day of April, 2000.

Ann E. Ritchie Regulatory Agent

Sonat Raton, L.L.C. P. O. Box 190

Raton, New Mexico 87740

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF COLFAX)

The undersigned, being first duly sworn according to law, on his/her oath deposes and says that he/she is the business manager of the newspaper named "The Raton Range" and that he/she has personal knowledge of the facts stated herein; that the said "The Raton Range" is a twice-weekly newspaper of general paid circulation printed and published in the County of Colfax and State of New Mexico and entered under the Second class postal privilege in said County, and having been uninterruptedly and continuously printed and published in said County during the period of more than six months to the date of publishing of the first issue of the publication next prior or notice concerning which this affidavit is made and a copy of which is hereto attached; that said newspaper is duly qualified for that purpose under the laws of the state of New Mexico; that the publication, a printed copy of which is hereunto attached and made a part of this affidavit, was successive weeks, said paid publication having been made on the following dates, to-wit:

Margar Massure
Business Manager

Subscribed and sworn to before me this 28 14

day of Mach, 2000.

Ruby Contre as

OFFICIAL SEAL RUBY J. CONTRERAS

NOTARY PUBLIC
STATE OF NEW MEXICO
MY COMMISSION EXPERS: 1-2-4-0-4

PUBLISHER'S BILL

Notice of Application for Fluid Injection Well Permit

Sonat Raton, L.L.C., P.O.: min 90; Raton, New ocks 0 87740 is ds ig administrative sible val from the New 1/prop oil Conservation ataryion to complete Vermejo Park
th "A," Well No.
Apcated in Section -31-N, R-19-E, rmejo Park Ranch "Well No. 25, located Section 5, T-30-N, -18E, Vermejo Park tanch "B," Well No. .7. Section 36, T-30-N, R-18-E, Colfax County, New Mexico as water disposal wells. The proposed interval is the Dakota/Entrada Sand from an estimated depth of 6400'-7350'. Sonat Raton, L.L.C. intends to inject a maximum of 20,000 bols of produced formation water per day per well at a maximum injection pressure of 1240 psi.

Interested parties must file objections or request for hearing with the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, N.M. 87505 within 15 days of this notice.

Ann E. Ritchie, Regulatory Agent Sonat Raton, L.L.C. C/o P.O. Box 953 Midland, Texas 79702 1-800-432-2967, (915) 682-1458 fax

e-mail:

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Aritc19676@aol.com
Legal No. 295100.
Published in The

Raton Range March 24 and 28, 2000.

ILLEGIBLE

MAR. 31 2000 03:09PM P1

(3 pages)

March 31, 2000

Roy Johnson
Oil Conservation Division
State of New Mexico
Santa Fe, NM
Fax # 505 827 8177

RE: Sonat Raton, LLC

Dear Mr. Johnson,

Please see fax below – we requested that the notice for the current applied for injection/disposal wells in Colfax County be republished under the name of Sonat Raton instead of El Paso Raton – I can't read it so I am sure it is illegible to you. The Raton Range said that they sent the notice as published to us on Tuesday, March 28^{th} – we have not received it in the mail to date.

Surely, we will get it on Monday – please let us know if we need to overnight the article and anything else to you as Don L. said that you would be running some type of test on Tuesday. Thank you for your help.

Yours truly,

Ann E. Ritchie, Regulatory Agent

El Paso/Sonat Raton, LLC

C/o Box 953

Midland, TX 79702

1-800-432-2967, (915) 682-1458

03/31/00 14:39 \$\frac{13}{12}\$ 1 505 445 2723 RATON RANGE

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FAX COVERSHEET

No. of Pages (including cover): <u>2</u> Date: Blarlos

> To: <u>Qnne</u> Pitchey Of: <u>915-682-1458</u> Tel.#

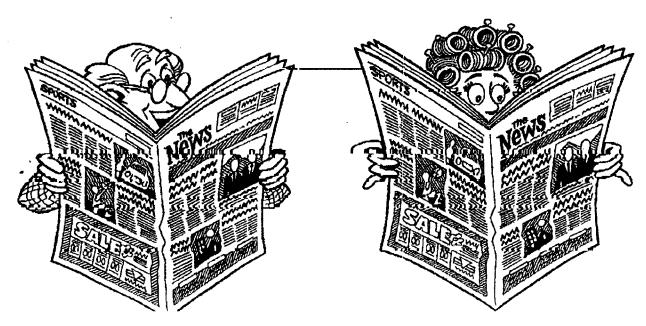
From: Margaret Marsine

The Raton Range/Trinidad Plus/Advertiser

Fax: (505)445-2723

Tel.# (505)445-2721

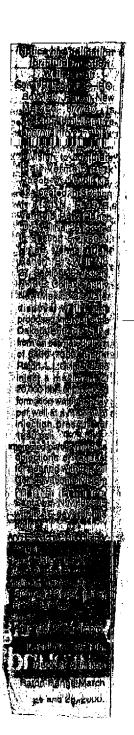
Regarding: legal in neuropoper.
Sonat Raton, U.C.



MAR. 31 2000 03:10PM P3

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Jo! anne Ritchey



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