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4]	CERTIFICATIO	DN: Ih	ereby certify that	at the information sub	nitted with this a	pplication for administrative

approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.



P.O. BOX¹10523, MIDLAND, TX 79702 (432) 682-1251

November 14, 2008

Oil Conservation Division 1220 South Francis Drive Santa Fe, New Mexico 87505

Attn: Mr. Will Jones

Re: Request for Administrative Approval For Water Disposal Well. <u>BITSY FEDERAL #1</u> API # 30-015-33398 Section 7 E, T-23-S, and R-32-E Lea County, New Mexico

Dear Mr. Jones:

Please find attached a Form C-108 requesting approval to utilize the <u>BITSY FEDERAL #1</u> as a salt-water disposal well. If all attachments are satisfactory and no offset Owners object, Enervest Inc. respectfully requests approval be granted administratively. This is a marginal <u>Bone Spring</u> producer Enervest plans to convert.

Enervest requests permission to inject water into the Delaware Formation from at 4660-4720, 4820-4890, 4905-4925, 4940-4995, 5005-5025, 5070-5100, 5145-5155, 5270-5280, 5305-5350, 5390-5410, 5520-5535, 5570-5600, 5620-5635, 5910-5935, 5950-6030, 6060-6090, 6105-6205, and 6260-6270. The 2 7/8" cement lined injection tubing will be set at 4625' with a plastic coated Lok-Set Packer.

The maximum anticipated injection rate is 2000 BWPD with an injection pressure not to exceed .930 PSI. If injection pressures need to be increased, a State witnessed step-rate test will be performed.

If you have any questions, or if I can be of any assistance please do not hesitate to me at (432)-682-1251. My e-mail address is: robertlee5@att.net.

Sincerely, Refertfell

Robert Lee

STÅTE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No
H.	OPERATOR:Enervest LTD
	ADDRESS:1001 Fannin Street, Suite 800 Houston, Texas 77002-5300
	CONTACT PARTY:Mr. Robert LeePHONE:432-682-1251
III.	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?YesXNo If yes, give the Division order number authorizing the project:
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 nurposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a

- 5. 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).
- *X1. 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:Robert Lee	TITLE:Consulting Engineer
SIGNATURE:	DATE:November 14, 2008
E-MAIL ADDRESS: robertlee5@att.net	

* 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: Side 2

HI. 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 No.; 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 be 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 the 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 Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

BITSY FEDERAL # 1 APPLICATION FOR INJECTION NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

- Tabular data1.Lease: Bitsy FederalWell No: 1Location: 1980' FNL & 660' FEL,Section 7T-23-S, R-32-ELea County, NM
- 2. Casing: 13 3/8" surface csg. @ 858', cemented w/650 sx. TOC @ surface, circulated.

8 5/8", intermediate casing @ 4388' cemented w/ 1500 sx. TOC @ surface, circulated

5 ¹/₂" J-55, 15.5# / ft. casing to 9442' cemented w/ 1330 sx. Cement. TOC @ surface, circulated

- 3. Injection tubing: + or 144 jts 27/8", 4.6 lb/ft, J-55 Rice Duoline internally cement lined tubing set @ 4625'.
- 4. Packer: Plastic coated Lok-Set Packer set at 4625'.

B. Other well information

- 1. Injection-formation: Delaware Field:-Sand-Dunes,
- 2. The injection intervals will be from 4660-to-6270. The well is currently producing. It is proposed to set a CIBP with cement at 8200' and add perfs in the Delaware formation from 4660-6270 in various intervals with sufficient porosity for water injection.
- 3. This well was drilled as a Bone Springs producer in 1996.
- 4. The perfs in the well are 8350-8449' which were squeezed with 150 sx, 8679-8691' and 8978-9137'. There are no other perfed or tested intervals in this well. We intend to set a CIBP with 35 sx of cmt @ 8200' and add-perfs-as-listed-in-item * # 2.
- 5. There is deeper Bone Springs producing horizons in the area of review. There is no shallower production in the area of review.

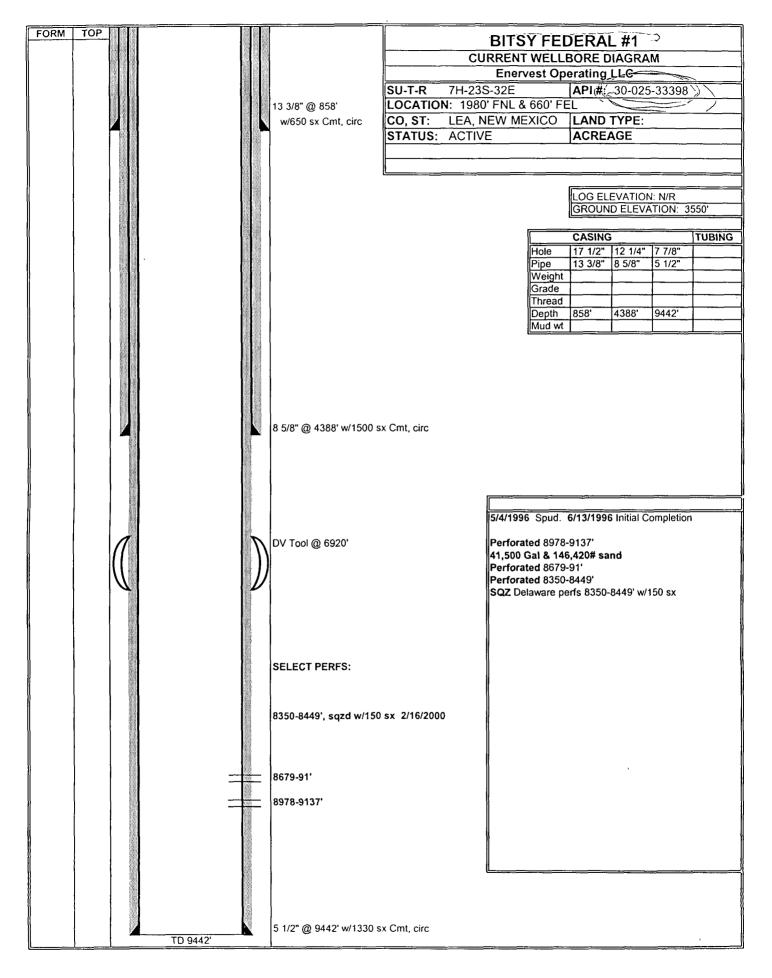
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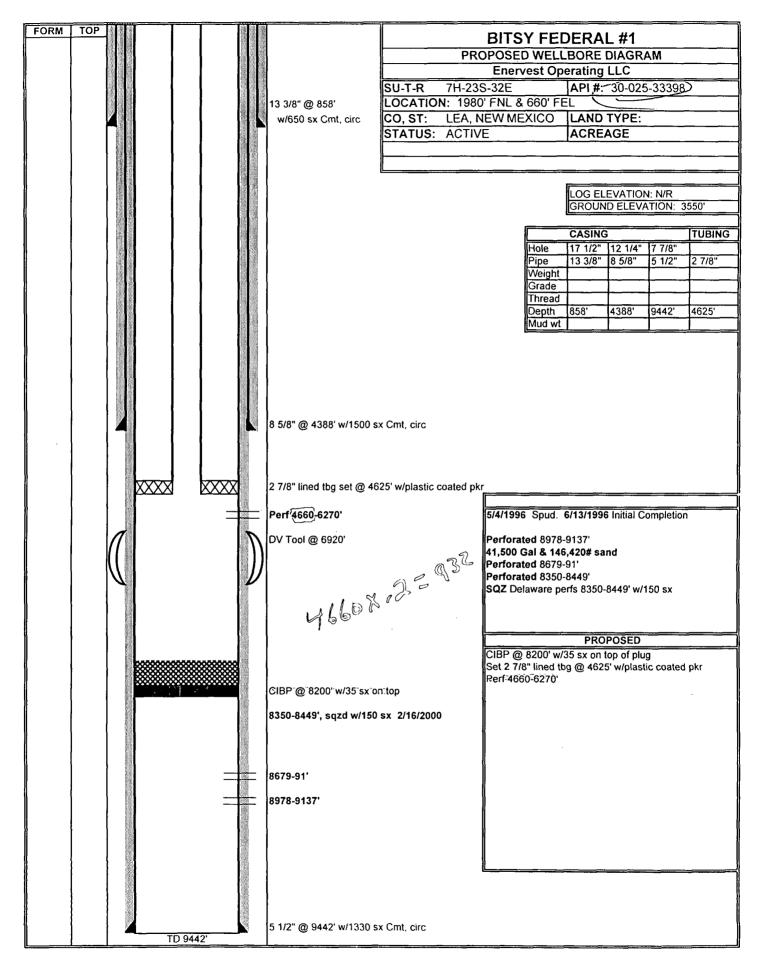
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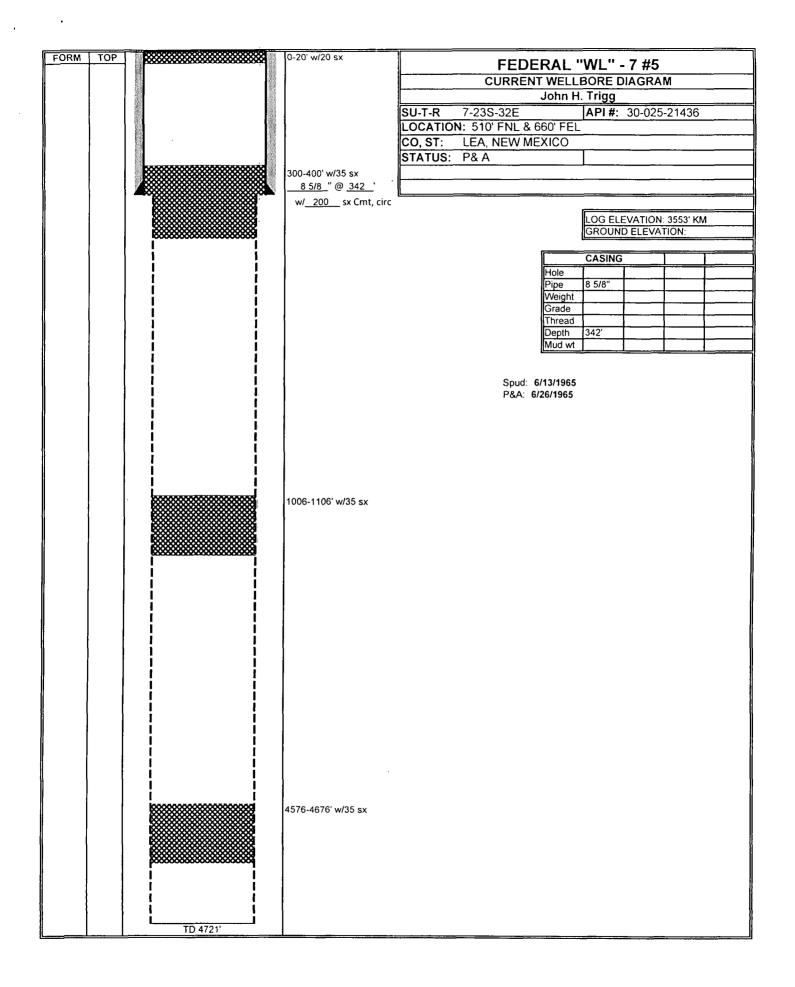
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<u>BITSY FEDERAL # 1</u> <u>CONVERT TO INJECTION</u> NMOCD Form C-108 Sections VII thru XII

VII. Data on proposed operation.

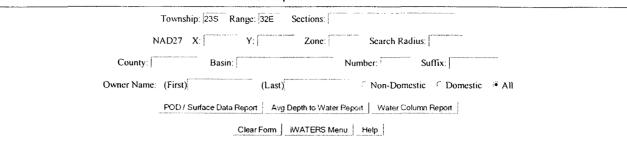
- 1. Proposed average injection rate: 1000 BWPD per well Proposed maximum injection rate: 2000 BWPD per well.
- 2. The system will be a closed system.
- 3. Proposed average injection pressure: 900 PSI Proposed maximum injection pressure: 930-PSI (This is based on a .2 psi/ft gradient)

4. The proposed-injection fluid is produced water from other Enervest leases. Water analysis of these waters is attached.

5. There is production from these intervals within 1 mile=of-this=well and water analyses are attached for these wells.

- VIII. The=proposed-injection interval is located in the Delaware formation. The Delaware is a Permian age-reservoir that is 3900' thick in this area. The top of the Delaware is at 4660' and the base is at 8564'. The intervals to be injected into are 4660-4720, 4820-4890, 4905-4925, 4940-4995, 5005-5025, 5070-5100, 5145-5155, 5270-5280, 5305-5350, 5390-5410, 5520-5535, 5570-5600, 5620-5635, 5910-5935, 5950-6030, 6060-6090, 6105-6205, and 6260-6270. There are no fresh water wells within one mile of the proposed salt-water disposal well based on the attached information provided by the State Engineer.
- IX. The injection zone will be perforated intervals in the Delaware as shown in Item VIII. The injection string will be 2 7/8" cement lined tubing set at 4625' with a plastic coated Lok-Set packer. No stimulation is planned for the injection interval.
- X. Logs have been submitted to the OCD.
- XI. There are no fresh water wells within one mile of the proposed conversion. The information for this area as provide by the State Engineer is attached
- XII. An examination of this area has determined there are no open faults or other hydrologic connection between the disposal zone and any underground drinking water. These shallow formations are generally not faulted. The casing and cement should isolate the migration of salt water up the borehole. The salt and anhydrite section from 1200' to 4420' will prevent vertical migration in the formation.

New Mexico Office of the State Engineer POD Reports and Downloads

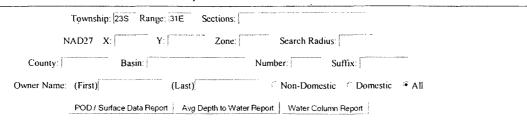


POD / SURFACE DATA REPORT 11/14/2008

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New Mexico Office of the State Engineer POD Reports and Downloads



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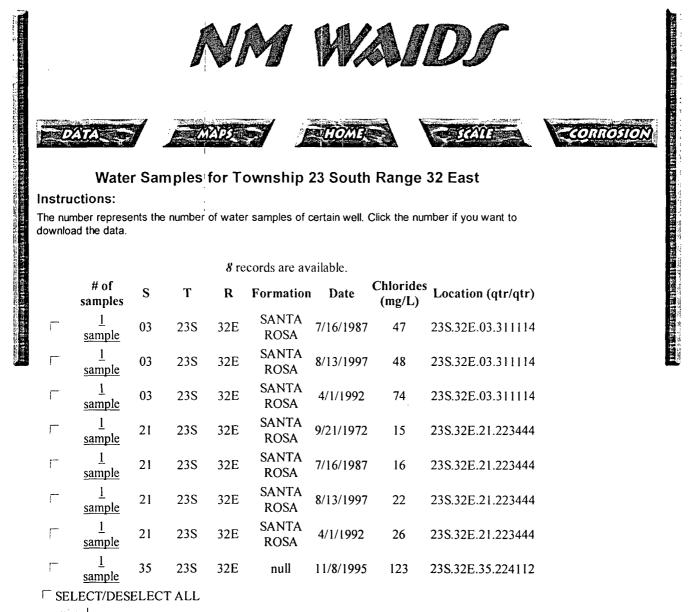
POD / SURFACE DATA REPORT 11/14/2008

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С	02258	PRO	3	DEVON ENERGY CORPORATION	<u>c</u>	02258	Shallow	235	31E	26	23			
c	02348	STK	3	MILLS FAMILY PARTNERSHIP	c	02348		235	31E	26	32			
С	02492	COM	105	J.C & FRANCIS MILLS FAMILY LIM	С	02492	Shallow	235	31E	06	444			
c	02602	SAN	0	POGO PRODUCING COMPANY	С	02602		235	31E	35	22			
c	02664	MON	0	SANDIA NATIONAL LABORATORIES	C	02664	Shallow	235	31E	05	233			
č	02725	MON	0	U.S. DEPT. OF ENERGY, WIPP	<u>c</u>	02725		235	31E	05	1 1 1			
с	02773	MON	0	U.S. DEPT. OF ENERGY - WIPP	c	02773		23\$	31E	03	314			
С	02774	MON	0	U.S. DEPT. OF ENERGY - WIPP	c	02774		235	31E	04	313			
c	02775	MON	0	U.S. DEPT. OF ENERGY - WIPP	<u>c</u>	02775		235	31E	05	1 1 1			
c	02776	MON	0	U.S. DEPT. OF ENERGY - WIPP	с	02776		235	31E	05	1 1 2			
с	02777	MON	0	U.S. DEPT. OF ENERGY - WIPP	<u>c</u>	02777		235	31E	15	222			
C	02865	EXP	0	STACY MILLS	<u>c</u>	02865	Shallow	235	31E	06	444			
с	02954	EXP	0	U.S. DEPARTMENT OF ENERGY CARL	c	02954 EXPL	Shallow	235	31E	20	413			
С	03140	MON	0	US DEPT OF ENERGY	с	03140	Shallow	235	31E	04	424			
с	03351	STK	3	US BLM CRLSB FLD OFFICE	c	03351 POD1	Shallow	235	31E	04	4 1 4			
с	03389	STK	3	FRANCES MILLS	c	03389 POD1		235	31E	17	3 1 1			
c	03394	PUB	0	JAMES HAMILTON CONSTRUCTION	С	03389		235	31E	17	3 1 1			

Record Count: 17

1

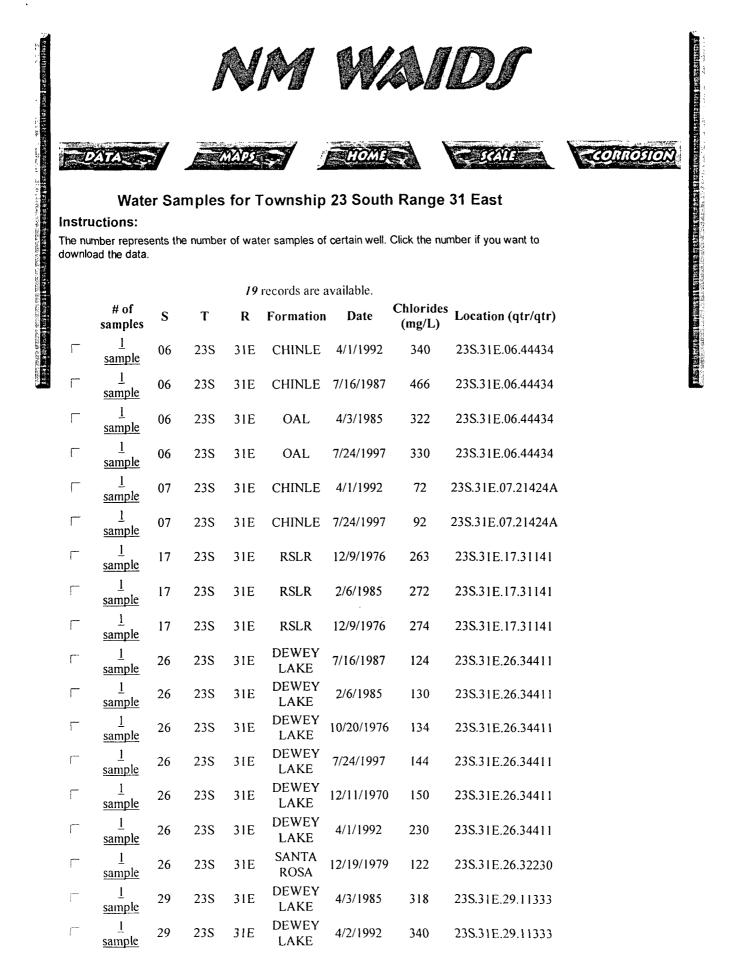
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New Mexico Tech

PRRC

SAMPLE

Oil Co. : Trex Lease : Bitsy Federal Well No.: 1 Location: Attention:

Date Sampled : 20-August-2007 Date Analyzed: 22-August-2007 Lab ID Number: Aug2307.001-2 Salesperson : File Name : Aug2307.001

ANALYSIS

1. 2.	Ph Specific Gravity 60)/60 F.	6.19 1.04						
3.	CACO3 Saturation		-						
			@140F	C).714	Moderate			
_	issolved Gasses				MG/L.	EQ. W	<u>Т</u>	*MEQ/I	=
4.	Hydrogen Sulfide				Present				
5 <i>.</i> 6.	Carbon Dioxide				termined				
	Dissolved Oxygen			NOT De	termined				
<u>ل</u> 7.	<u>ations</u> Calcium	(Ca++)			2,918	/ 20.1	_	145.17	
8.	Magnesium	(Ca++) (Mg++)			2,918 759	/ 20.1		62.21	
9.	Sodium	(Na+)	(Calculated)		19,061	/ 23.0		828.74	
10.	Barium	(Ba++)	• •	Not Def	termined	7 20.0		020.14	
	nions								
11.	Hydroxyl	(OH-)			0	/ 17.0	=	0.00	
12.	Carbonate	(CO3=)			Ō	/ 30.0		0.00	
13.	Bicarbonate	(HCO3-)			908	/ 61.1		14.86	
14.	Sulfate	(SO4=)			340	/ 48.8	=	6.97	
15.	Chloride	(CI-)			35,992	/ 35.5	2	1,013.86	
16.	Total Dissolved So	lids			,59,978 ,				
17.	Total Iron	(Fe)			368.33	3 / 18.2	=	20.24	
18.	Manganese	(Mn++)	1	Not Del	termined				
19.	Total Hardness as		0		10,409				
20.	Resistivity @ 75 F.	(Calculate	ed)		0.16	50 Ohm me	ters		
	LOGARITHMIC	NATER PA	TTERN		PRO	BABLE MINE	RAL (COMPOSITI	ION
		eq / L.	at a channel of a constant		COMPOUN			EQ. WT.	= mg/L.
Na					Ca(HCO3)			81.04	1,204
Ca				203	CaSO4	6.97		68.07	474
					CaCl2	123.35		55.50	6,846
Mg			FHILL HILL SC	D4	Mg(HCO3) MgSO4)2 0.00 0.00		73.17 60.19	0
r				20	MgCl2	62.21		47.62	2,963
Fe	2 			3	NaHCO3	0.00		84.00	2,300
	Calcium Sulfate				NaSO4	0.00		71.03	Ō
	2680				NaCl	828.30		58.46	48,422
m	2644					* milliequiva	alents	per Liter	
9	2626		<u> </u>						
1	2590				Mi	((0)			
L	2554				Ken	n Bijine	~		
	2518				Kevin Byrn	Analyst			
	Z500 Temp ⁰F. 50 70 00	110 130	150 170			o , Anaiyst			

Lease Well I Locat Atten	D. : Trex ∋ : Blue Quail Fe No.: 2 ion: tion:	ed.		Date Analyze Lab ID Numb Salesperson	ed : 20-August-20 ed: 22-August-20 ber: Aug2307.00 : Aug2307.001) 07	
ANALY							
1.	Ph		5.340)			
2.	Specific Gravity		1.199)			
3.	CACO3 Saturati	on Index	@ 80F	1.098	Moderate		
			@140F	2.198	Severe		
<u>ם</u>	issolved Gasses			<u>MG/L.</u>	EQ. WT.	*MEQ/	L
4.	Hydrogen Sulfide	Э		Not Present			
5.	Carbon Dioxide			ot Determined			
6.	Dissolved Oxyge	n	N	ot Determined			
C	ations						
7.	Calcium	(Ca++)		24,280	/ 20.1 =	1,207.96	5
8.	Magnesium	(Mg++)		4,741	/ 12.2 =		
9.	Sodium	(Na+)	(Calculated)	74,156	/ 23.0 =	3,224.17	•
10.	Barium	(Ba++)		6	/ 68.7 =	0.09)
А	nions						
1 1.	Hydroxyl	(OH-)		0	/ 17.0 =	0.00)
12.	Carbonate	(CO3=)		0	/ 30.0 =	0.00)
13.	Bicarbonate	(HCO3-)		64	/ 61.1 =	1.05	5
14.	Sulfate	(SO4=)		190	/ 48.8 =	3.89)
15.	Chloride	(Cl-)		170,961	/ 35.5 =	4,815.80	
16.	Total Dissolved	Sõlids		274,398°			
17.	Total Iron	(Fe)		94.0	0 / 18.2 =	5.16	
18.	Manganese	(Mn++)	N	ot Determined	,		
19.	Total Hardness a	• •		80,152			
20.	Resistivity @ 75	F. (Calculat	ted)		001 Ohm · meter	s	
	LOGARITHMIC		, 				2011
		neq/L.	ATTERN	COMPOUN			
Na				Composition Ca(HCO3		X EQ. WT. 81.04	= mg/L 85
1.40				CaSO4	3.81	68.07	259
Ca	a 			³ CaCl2	1,203.11	55.50	66,772
				Marucos		73.17	00,772
Mg			11 ++++# SO4	MgSO4	0.00	60.19	ŏ
Ec					388.61	47.62	18,505
16	⊐ partitit partiti pastiti paa 10000 1000 100 100 10	11:1 FILLINA 17:5 70 - 10	100 1000 10000	NaHCO3	0.00	84.00	0
	Calcium Sulfa	te Solubility	/ Profile	NaSO4	0.00	71.03	0
	520 <u></u>			NaCí	3,224.09	58.46	188,480
m	508				* milliequivaler	nts per Liter	
9	502						
1	490	1		Ň	· m		
ι	478			Apr.	in Ampone		
	472				<u>c</u>		
	460	10 130	150 170	Kevin Byrı	ne, Analyst		

mg/L. 85 259

SAMPLE

Oil Co. : Trex Lease : Sharbro Fed. Well No.: 1 Location: Attention:

Date Sampled : 20-August-2007 Date Analyzed: 22-August-2007 Lab ID Number: Aug2307.001-9 Salesperson : File Name : Aug2307.001

ANALYSIS

1. 2.	Ph Specific Gravity 60	V60 F		6.680 1.064					
3.	CACO3 Saturation		@ 80F	1.004	0.207	Mild			
_			@140F		1.132	Moderate			
	issolved Gasses				MG/L.	EQ. WI	- 	*MEQ/L	-
4. E	Hydrogen Sulfide				Not Present				
5. 6.	Carbon Dioxide Dissolved Oxygen				Determined				
	• -			NOL	Determined				
	<u>ations</u> Calcium	(Co. 4)			0.400	1 00 1		400.00	
7. 8.	Magnesium	(Ca++) (Mg++)			2,188 506	/ 20.1 / 12.2		108.86	
9.	Sodium	(Na+)	(Calculate	(he	29,063	/ 23.0		41.48 1,263.61	
10.	Barium	(Ba++)	Calculati		Determined	7 25.0	-	1,203.01	
	nions	(00)			Determined				
11.	Hydroxyl	(OH-)			0	/ 17.0	-	0.00	
12.	Carbonate	(CO3=)			0	/ 30.0		0.00	
13.	Bicarbonate	(HCO3-)			914	/ 61.1		14.96	
14.	Sulfate	(SO4=)			875	/ 48.8		17.93	
15.	Chloride	(CI-)			48,989	/ 35.5		1,379.97	
16.	Total Dissolved So	lids			-82,535 ^{->}			·	
17.	Total Iron	(Fe)			265.00	/ 18.2	=	14.56	
18.	Manganese	(Mn++)		Not	Determined				
19.	Total Hardness as				7,547				
20.	Resistivity @ 75 F.	(Calculate	ed)		0.11	18 Ohm · mete	ers		
	LOGARITHMIC	NATER PA	TTERN		PRO	BABLE MINE	RAL CO	OMPOSITI	ON
	*me	q/L.			COMPOUN	D *meg/L	Х	EQ. WT.	= mg/L.
Na		╘╌┨╌┼┼┼╢╢╣╌┼┼╵╣		l CI	Ca(HCO3)	2 14.96		81.04	1,212
0		┝╌┨╌╁┼╫╢╟╴╓┸┰╢╢			CaSO4	17.93		68.07	1,221
Ca				HC03	CaCl2	75.97		55.50	4,216
Mg				SO4	Mg(HCO3)			73.17	0
-					MgSO4	0.00		60.19	0
Fe				CO3	MgCl2 NaHCO3	41.48 0.00		47.62 84.00	1,975
	Calcium Sulfate	Solubility	Profile		NaSO4	0.00		71.03	0 0
	3930-1	-	- - -		NaCl	1,262.53		58.46	73,808
ŕn,	3906					* milliequival	ents pe		. 0,000
ទ	3858					•			
1	3510				MI	(00			
L	3762				Er P.	n Bym			
	3738		\mp			<u>A</u>			
	3690	110 130	150 170		Kevin Byrn	e, Analyst			

	b. : Trex : Sharbro Fed. No.: 2 ion: lion:			Date Analyzed		
1.	Ph		5.910			
2.	Specific Gravity 6	60/60 F	1.193			
3.	CACO3 Saturatio		@ 80F	1.419	Severe	
		-	@140F		Severe	
D	issolved Gasses		0	MG/L.	EQ. WT.	*MEQ/L
4.	Hydrogen Sulfide			Not Present		
5.	Carbon Dioxide		Not	Determined		
6.	Dissolved Oxyger	ı		Determined		
С	ations					
7.	Calcium	(Ca++)		21,988	/ 20.1 =	1,093.93
8.	Magnesium	(Mg++)		4,046	/ 12.2 =	331.64
9.	Sodium	(Na+)	(Calculated)	76,112	/ 23.0 =	3,309.22
10.	Barium	(Ba++)	· · ·	6	/ 68.7 =	0.09
А	nions					
11.	Hydroxyl	(OH-)		0	/ 17.0 =	0.00
12.	Carbonate	(CO3=)		0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO3-)		76	/ 61.1 =	1.24
14.	Sulfate	(SO4=)		90	/ 48.8 =	1.84
15.	Chloride	(CI-)		167,962	/ 35.5 =	4,731.32
16.	∓otal Dissolved S	olids		_270,280 _		
17.	Total Iron	(Fe)		38.00	/ 18.2 =	2.09
18.	Manganese	(Mn++)	Not	Determined	, , , , , , , , , , , , , , , , , , , ,	2100
19.	Total Hardness as	· ·		71,564		
20.	Resistivity @ 75 I	7. (Calculat	ed)	•	1 Ohm · meters	
	LOGARITHMIC		, 			0011000171011
		eq/L.	ALIERN		BABLE MINERAL	
Na	a Mi ll I Mills - Mills - Mills					EQ. WT. = mg/L
INC				Ca(HCO3): CaSO4	2 1.24 1.76	81.04 101 68.07 120
Ca	a 			CaCl2	1,090.93	68.07 120 55.50 60,547
				Mg(HCO3)	-	73.17 0
Mg		{ <mark> }</mark> } } ₩₩	₩-11100 11300 SO4	MgSO4	0.00	60.19 0
5		<u>+++++++</u>		MgCl2	331.64	47.62 15,793
ге	אין הווארין הנונען אין אוויאריין אין אוויאראטן אין אין אין אין אין אין אווי 1000 1000 1000 1000 10			NaHCO3	0.00	84.00 0
	Calcium Sulfat	e Solubility	Profile	NaSO4	0.00	71.03 0
	600			NaCl	3,308.76	58.46 193,430
m	592 584	F			* milliequivalents	
9	576	7				
1	560			MI.	· 00	
L	544			AGAD-	1 anner 1	
	536				3	
	520 Tomp %. 50 70 90	110 130	150 170	Kevin Byrne	e, Analyst	

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mg/L. 101 120

SAMPLE

Oil Co. : Trex Lease : Sharbro Fed. Well No.: 3 Location: Attention: Date Sampled : 20-August-2007 Date Analyzed: 22-August-2007 Lab ID Number: Aug2307.001-7 Salesperson : File Name : Aug2307.001

ANALYSIS

1. 2.	Ph Specific Gravity 60	/60 F		5.250 1.199					
3.	CACO3 Saturation		@ 80F		0.920	Moderate			
			@140F		2.020	Severe	_		
	ssolved Gasses				MG/L.	EQ. WI		*MEQ/	
4.	Hydrogen Sulfide				Not Present				
5. 6.	Carbon Dioxide				Determined				
	Dissolved Oxygen			NOU	Determined				
	ations	10-11			00.004	(00 4		4 4 9 7 9 9	
7. °	Calcium	(Ca++)			23,864	/ 20.1		1,187.26	
8. 9.	Magnesium Sodium	(Mg++) (No+)	(Calculate	a/	4,425	/ 12.2 / 23.0		362.70 3,295.61	
9. 10.	Barium	(Na+) (Ba++)	Calculate	u)	75,799 8	/ 68.7		3,295.01 0.12	
		(Da. ()			0	7 00.7	~	0.12	•
11.	<u>nions</u> Hydroxyl	(OH-)			0	/ 17.0	_	0.00	
12.	Carbonate	(CO3=)			0	/ 30.0		0.00	
13.	Bicarbonate	(HCO3-)			53	/ 61.1		0.87	
14.	Sulfate	(SO4=)			32	/ 48.8		0.66	
15.	Chloride	(CI-)			171,961	/ 35.5		4,843.97	
16.	Total-Dissolved-So	• •			276,142 ₂			,	
17.	Total Iron	(Fe)			22.50) / 18.2	=	1.24	L
18.	Manganese	(Mn++)		Not	Determined				
19.	Total Hardness as	· · ·			77,809				
20.	Resistivity @ 75 F.	(Calculate	ed)		0.0	01 Ohm · mete	ers		
	LOGARITHMIC	VATER PA	TTERN		PRO	BABLE MINE	RAL C	OMPOSIT	ION
		q/L.			COMPOUN	ID *meq/L	Х	EQ. WT.	= mg/L.
Na				Cl	Ca(HCO3)			81.04	70
6.				11000	CaSO4	0.54		68.07	37
Ca		- 1 1 1 1 H H - 7 1 1 H H		HC03	CaCl2	1,185.86		55.50	65,815
Ma				SO4	Mg(HCO3			73.17	0
-					MgSO4	0.00		60.19	0
			00 100C 100	CO3	MgCl2 NaHCO3	362.70 0.00		47.62	17,272
	Calcium Sulfate				NaSO4	0.00		84.00 71.03	0 0
	530 -++	-t			NaCl	3,295.41		58.46	192,650
m	524					* milliequival	ents c		152,000
g	512				_				
1	500	4			N	· m			
ι	494 468				1 ley	zn Bazina	-		
	482								
	470	110 130	150 170		Kevin Byrn	ie, Analyst			

Salesperson :

Date Sampled : 20-August-2007

Date Analyzed: 22-August-2007

File Name : Aug2307.001

Lab ID Number: Aug2307.001-10

SAMPLE

Oil Co. : **Trex** Lease : **Sharbro Fed.** Well No.: **4** Location: Attention:

ANALYSIS

MALIS	213							
1.	Ph		5.8	60				
2.	Specific Gravity 60)/60 F	1.1					
3.	CACO3 Saturation		@ 80F	00	0.653	Moderate		
.	On OO Outuration	muex	@140F			Severe		
D	iccolved Gassas		@1401*				+1400	11
	issolved Gasses				<u>MG/L.</u>	EQ. WT.	*MEQ	<u>/L</u>
4. r	Hydrogen Sulfide				ot Present			
5.	Carbon Dioxide				etermined			
6.	Dissolved Oxygen			Not D	etermined			
<u>C</u> :	ations							
7.	Calcium	(Ca++)			13,234	/ 20.1 =	658.4	1
8.	Magnesium	(Mg++)			2,086	/ 12.2 =	170.9	
9.	Sodium	(Na+)	(Calculated)		86,093	/ 23.0 =	3,743.1	
10.	Barium	(Ba++)	• •	Not D	etermined	/ 20.0	0,740.1	,
		(20)			cicillinga			
	nions Hudrovad				~	(47.0	~ ~	•
11.	Hydroxyl	(OH-)			0	/ 17.0 =	0.0	
12.	Carbonate	(CO3=)			0	/ 30.0 =	0.0	
13.	Bicarbonate	(HCO3-)			70	/ 61.1 =	1.1	
14.	Sulfate	(SO4=)			350	/ 48.8 =	7.1	
15.	Chloride	(CI-)			161,963	/ 35.5 =	4,562.3	4
16.	Total-Dissolved So	lids-		7	263,796			
17.	Total Iron	(Fe)			27.00	/ 18.2 =	1.4	8
18.	Manganese	(Mn++)		Not D	etermined	-		-
19.	Total Hardness as	• •			41,637			
20.	Resistivity @ 75 F.		(he		•	1 Ohm · meters		
		•	,					
	LOGARITHMIC		TTERN			ABLE MINERA		
		q/L.			COMPOUND	,	X EQ. WT.	= mg/L.
Na		┝╾╋╴┽┼┼╢╢╣ <mark>╴</mark> ╆┼┊╢			Ca(HCO3)2	2. 1.15	81.04	93
<u> </u>					CaSO4	7.17	68.07	488
Ca			H -++## -+++###	203	CaCl2	650.09	55.50	36,080
Mg				74	Mg(HCO3)2	2 0.00	73.17	0
Mg				74	MgSO4	0.00	60.19	0
Fe		KI HIRI - 1481		73	MgCl2	170.98	47.62	8,142
	10000 1000 100 10	1 10 1	00 1000 10000		NaHCO3	0.00	84.00	0
	Calcium Sulfate	Solubility	Profile		NaSO4	0.00	71.03	0
	1030				NaCl	3,741.26	58.46	218,714
m	1022					* milliequivalen		
g	1006	×				······································	-	
1	990	/			\mathcal{O}^{1}	6 •		
, 1	282 974	<u></u>			Star H	13		
Ĺ	960				t spatin.	agene		
	956				Kevin Byrne	······		
	Temp *F. 50 /0 90	110 130	150 170		Actin Dynie	, randiyət		

Date Sampled : 20-August-2007

Date Analyzed: 22-August-2007

Lab ID Number: Aug2307.001-3

File Name : Aug2307.001

Salesperson :

SA	MP	LE

Oil Co.: Trex Lease : Sharbro Fed. Well No.: 5 Location: Attention:

ANALYSIS

500 Temp °F, 50

70

90

110

130

150

170

1. Ph 5.020 2. Specific Gravity 60/60 F. 1.193 3. **CACO3** Saturation Index @ 80F 0.702 Moderate @140F 1.802 Severe **Dissolved Gasses** *MEQ/L MG/L EQ. WT. Hydrogen Sulfide 4. Not Present Carbon Dioxide 5. Not Determined **Dissolved** Oxygen 6. Not Determined Cations 7. Calcium (Ca++) 22.092 / 20.1 = 1.099.10 Magnesium $(Mq++)^{2}$ / 12.2 = 8. 4,172 341.97 9. Sodium (Na+) (Calculated) 79,651 / 23.0 =3,463.09 10. Barium (Ba++) 9 168.7 =0.13 Anions 11. Hydroxyl (OH-) 0 0.00 / 17.0 = 12. Carbonate (CO3=) 0 / 30.0 =0.00 13. Bicarbonate (HCO3-) 59 / 61.1 = 0.97 14. Sulfate (SO4=) 118 / 48.8 = 2.42 15. Chloride (CI-) 173,961 1.35.5 =4,900.31 16. Total Dissolved Solids. 280.062 17. Total Iron (Fe) 24.00 / 18.2 = 1.32 18. Manganese (Mn++) Not Determined 19. Total Hardness as CaCO3 72,345 20. Resistivity @ 75 F. (Calculated) 0.001 Ohm meters LOGARITHMIC WATER PATTERN **PROBABLE MINERAL COMPOSITION** *meg / L. COMPOUND *meq/L Х EQ WT. = mg/L. Na 🛲 **╋╫╬╬╄┧╾╪╌┽┼╫┼┼┼╶╴╫╗╔╢┼╎╶┊╶╶┇╴┼╶╿**╒┇║╝╢ Ca(HCO3)2 0.97 81.04 78 CaSO4 2.29 68.07 156 ╉ ++++++ -HII版 HC03 Са 闘₩ **#**#### CaCl2 1.095.85 55.50 60,820 Mg(HCO3)2 0.00 73.17 -11118 -1111 -1111 SO4 -----Mq MqSO4 0.00 60.19 MgCl2 341.97 47.62 16,284 າວັດອອ NaHCO3 0.00 84.00 **Calcium Sulfate Solubility Profile** NaSO4 0.00 71.03 570 NaCl 3.462.49 58.46 202,417 553 * milliequivalents per Liter 556 549 547 535 528 Ł 521 514 507

Kevin Byrne, Analyst

0

0

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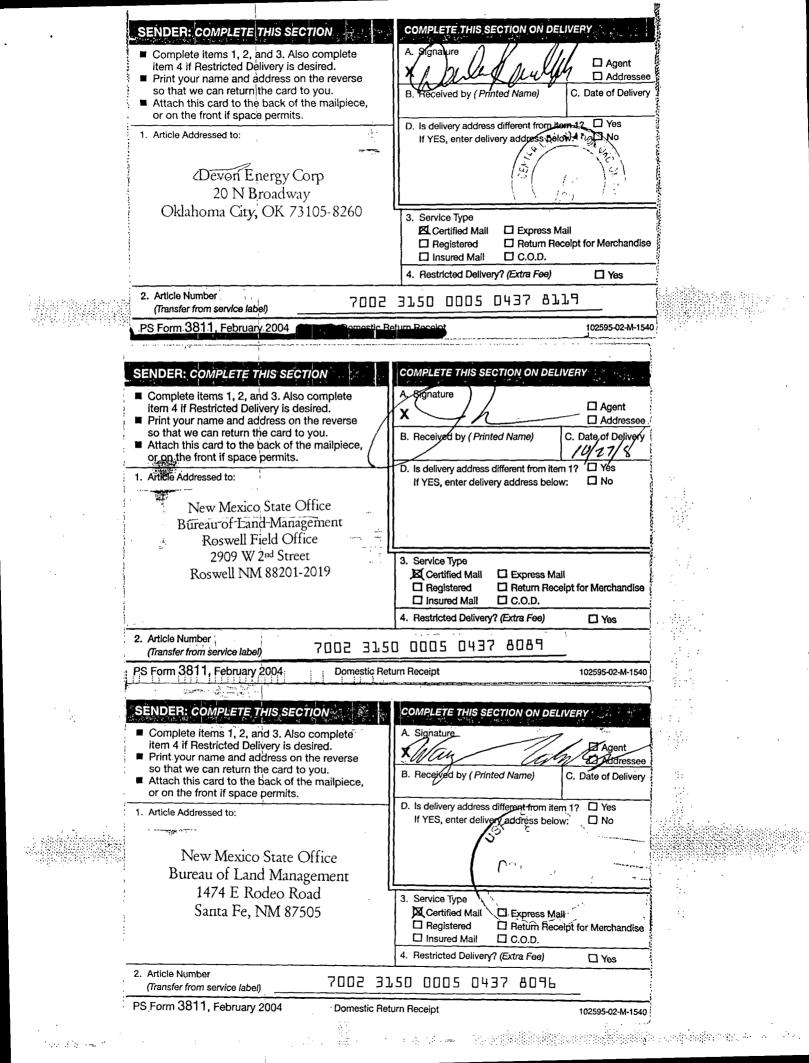
Miller Chemicals, Inc. WATER ANALYSIS REPORT

Lease	. : Trex : Sharbro Fed. No.: 6 ion: tion:			Date Analyze			
1.	Ph		5.200				
2.	Specific Gravity 6	0/60 E	1.193				
3.	CACO3 Saturation			0.953	Moderate		
J.	CACOS Saturation	TITUEX	@ 80F @1405	2.053			
	Secolured Coores		@140F		Severe	*******	
_	issolved Gasses			MG/L.	EQ. WT.	*MEQ/L	
4.	Hydrogen Sulfide			Not Present			
5.	Carbon Dioxide			Determined			
6.	Dissolved Oxygen	1	Not	Determined			
Q	ations						
7.	Calcium	(Ca++)		21,988	/ 20.1 =	1,093.93	
8.	Magnesium	(Mg++)		4,362	/ 12.2 =	357.54	
9.	Sodium	(Na+)	(Calculated)	79,415	/ 23.0 =	3,452.83	
10.	Barium	(Ba++)		11	/ 68.7 =	0.16	
A	nions						
11.	Hydroxyl	(OH-)		0	/ 17.0 =	0.00	
12.	Carbonate	(CO3=)		Ō	/ 30.0 =	0.00	
13.	Bicarbonate	(HCO3-)		70	/ 61.1 =	1.15	
14.	Sulfate	(SO4=)		118	/ 48.8 =	2.42	
15.	Chloride	(Cl-)		173,961	/ 35.5 =	4,900.31	
		. ,		•	7 35.5 -	4,500.51	
16.	Total Dissolved Se			279,925	, • () • •		
17.	Total Iron	(Fe)		38.0	0 / 18.2 =	2.09	
18.	Manganese	(Mn++)	Not	Determined			
19.	Total Hardness as			72,865			
20.	Resistivity @ 75 F	. (Calculati	ed)	0.0	01 Ohm · meters		
	LOGARITHMIC	WATER PA	ATTERN	PRO	BABLE MINERAL	COMPOSITI	ON
		eq/L.		COMPOUN			= mg/L
N				Ca(HCO3	•	81.04	93
				CaSO4	2.26	68.07	154
C	a 			CaCl2	1,090.53	55.50	60,524
				Mg(HCO3		73.17	00,021
Mg	g milli mille fille	+ -)	8 +++++++ SO4	MgSO4	0.00	60.19	Õ
c.		H KIIIII - I III		MgCl2	357.54	47.62	17,026
L. L	E <u> </u>			NaHCO3	0.00	84.00	0
	Calcium Sulfate	e Solubility	Profile	NaSO4	0.00	71.03	0
	570			NaCl	3,452.24		201,818
m	564				* milliequivalents		
ę	552				innoquitaionio		
1	546	7		Ø:			
	534			UK.	'B		
L	522			1 John	in ayone		
	516			Kevin Byrr	ne, Analyst		
	Temp ⁶ F. 50 70 90	110 130	150 170		, , , , , , , , , , , , , , , , , ,		

mg/L. 93 154

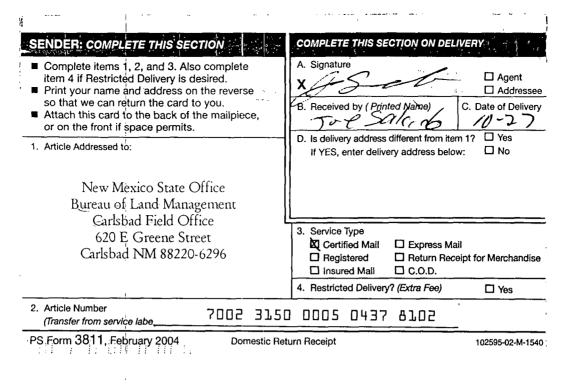
	_			1147-16		A Las I			
SAMPLE								~	
	Trex				Date Sample				
	Sharbro Fed.				Date Analyze				
Well N Locati					Lab ID Numb Salesperson		2307.001-	5	
Attent					File Name :		001		
ANALYS						ugzoor			
				r 000					
1.	Ph			5.280					
2.	Specific Gravity 6		• • • • •	1.199					
3.	CACO3 Saturation	n Index	@ 80F		1.077	Moder			
			@140F		2.177	Severe		+1450/	
	issolved Gasses				MG/L.	<u></u>	<u>Q. WT.</u>	*MEQ/	L
4.	Hydrogen Sulfide				Not Present				
5.	Carbon Dioxide				Determined				
6.	Dissolved Oxygen			NOT	Determined				
	ations								
7.	Calcium	(Ca++)			24,280		20.1 =	1,207.96	
8.	Magnesium	(Mg++)			4,994		12.2 =	409.34	
9.	Sodium	(Na+)	(Calcula	ted)	72,985		23.0 =	3,173.26	
10.	Barium	(Ba++)			9	/	68.7 =	0.13	,
A	nions								
11.	Hydroxyl	(OH-)			0	/	17.0 =	0.00	ł
12.	Carbonate	(CO3=)			0	1	30.0 =	0.00)
13.	Bicarbonate	(HCO3-)			70	1	61. 1 =	1.15	
14.	Sulfate	(SO4=)			93	1	48.8 =	1.91	
15.	Chloride	(CI-)			169,962	/	35.5 =	4,787.66	i
16.	Total Dissolved So	olids⇒			c 272,39 3	د			
17.	Total Iron	(Fe)			33.0	0 /	18.2 =	1.81	
18.	Manganese	(Mn++)		Not	Determined				
19.	Total Hardness as	CaCO3			81,192				
20.	Resistivity @ 75 F	. (Calculat	ed)		0.0	0 1 Ohm	ı · meters		
	LOGARITHMIC		TTEDN		DPC		MINEDAL	. COMPOSIT	
		eq/L.			COMPOUN		neq/L X		
Na	- Inclusion deserve ferters a deserve			III CI	Ca(HCO3		1.15	81.04	= mg/L. 93
110					CaSO4	5/2	1.15	68.07	121
Ca	a : <mark> </mark>	+		₩ нсоз	CaCl2	1 2	05.04	55.50	66,880
					Mg(HCO:		0.00	73.17	00,000
Mg	3 100000-0000000000000000000000000000000	+++++	╫╄╼┥┼┼╢╢╼╂╉╢	SO4	MgSO4	v) L	0.00	60.19	ŏ
r.,					MgCl2	4	09.34	47.62	19,493
Fe	9 putri i i i i i i i i i i i i i i i i i i	1 10 1	100 · 000		NaHCO3		0.00	84.00	0
	Calcium Sulfate	e Solubility	Profile		NaSO4		0.00	71.03	0
	520			-	NaCl	3,1	73.28	58.46	185,510
m	514	\mp		•				s per Liter	-
g	502			-			-	-	
t	490	/		-	<i>M</i>	\sim			
L	484 478			-	UK.	13.	100.0		
	472					n · · · · · · · · ·			
	460			-	Kevin Byr	ne, Anal	yst		
	Temp ºF. 50 70 90	110 130	150 170		•		-		

	b. : Trex : Sharbro Fed. No.: 8 ion: tion:			Date Analyze Lab ID Numb Salesperson	ed : 20-August-2007 ed: 22-August-2007 per: Aug2307.001- 1 : Aug2307.001				
1.	Ph		5.320						
2.	Specific Gravity 6	0/60 F.	1.203						
3.	CACO3 Saturatio	n Index	@ 80F	1.430	Severe				
			@140F	2.350	Severe				
	issolved Gasses	•		MG/L.	EQ. WT.	*MEQ/L			
4.	Hydrogen Sulfide			Not Present					
5.	Carbon Dioxide			ot Determined					
6.	Dissolved Oxyger	1	No	ot Determined					
	ations	, ,							
7.	Calcium	(Ca++)		26,365	/ 20.1 =	1,311.69			
8.	Magnesium	(Mg++)	(Coloulated)	3,919	/ 12.2 =	321.23			
9. 10	Sodium	(Na+)	(Calculated)	75,924 10	/ 23.0 =	3,301.04 0.15			
10.	Barium	(Ba++)		IU	/ 68.7 =	0.15			
	<u>inions</u>				1 47 0	0.00			
11.	Hydroxyl	(OH-)		0	/ 17.0 =	0.00			
12.	Carbonate	(CO3=)		0	/ 30.0 =	0.00			
13.	Bicarbonate	(HCO3-)		88	/ 61.1 = / 48.8 =	1.44 4.00			
14. 15.	Sulfate Chloride	(SO4=) (Cl-)		195 174,961	/ 35.5 =	4,928.48			
		. ,				4,920.40			
16.	Total Dissolved S			281,462					
17.	Total Iron	(Fe)		15.0	0 / 18.2 =	0.82			
18. 10	Manganese Total Hardness as	(Mn++)	NC	ot Determined					
19. 20 <i>.</i>	Resistivity @ 75 F		ed)	81,973	01 Ohm · meters				
20.									
	LOGARITHMIC	1	ATTERN		PROBABLE MINERAL COMPOSITION				
	*m	eq/L	are ensure encoded	COMPOUN	•	÷.			
Na	a 	11 - 11 - 11 - 1 1		Ca(HCO3		81.04 117			
C,				CaSO4	3.85	68.07 262			
Ų.				OUVIL	1,306.40	55.50 72,505			
Mg	g ####################################	 	BHHHH SO4	Mg(HCO3		73.17 0			
-				MgSO4 MgCl2	0.00 321.23	60.19 0 47.62 15,297			
Fe			100 1000 10000	NaHCO3	0.00	47.62 15,297 84.00 0			
	Calcium Sulfat			NaSO4	0.00	71.03 0			
	450			NaCl	3,300.85	58.46 192,96 8			
m	440				* milliequivalents				
9	420								
1	400			a	3				
L	330			C. H	· 73				
	370			j (¢	ion l'Agine	<u></u>			
	350	110 130	150 170	Kevin Byrr	ne, Analyst				
			-						



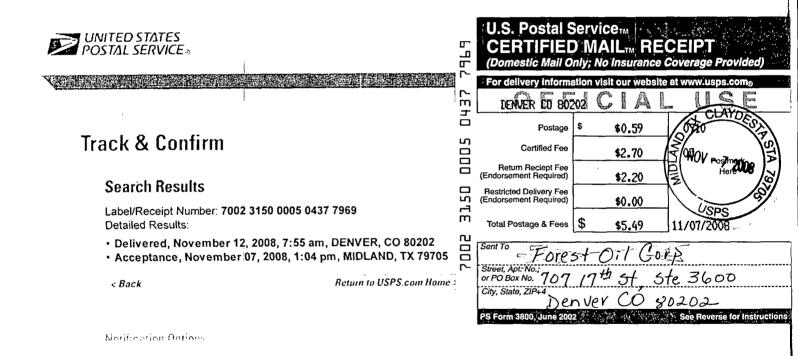
•		SENDER: COMPLETE THIS SECTION	N. S. S.	COMPLETE THIS SECTION ON DELIVERY	
		 Complete items 1, 2, and 3. Also coniter 4 if Restricted Delivery is desire Print your name and address on the so that we can return the card to you Attach this card to the back of the more on the front if space permits. Article Addressed to: 	mplete ed. reverse u.	B. Received by (<i>Printed Name</i>) PAT Co 6 C . Da D. Is delivery address different from item 1?	Agent Addressee te of Delivery Z7-08 Yes No
		&∓⊙=Energy Inc. 200 N Loraine, Ste 8 Midland TX 79701	00	3. Service Type S. Certified Mail Express Mail Registered Return Receipt for Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee)	Merchandise
		2. Article Number (Transfer from service label)	2002	4. Restricted Delivery (EXT 140)	
		PS Form 3811, February 2004	Domestic Ref	turn Receipt 10:	2595-02-M-1540
	1		· · · · · · · · · · · · · · · · · · ·		······
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	ť.	 Complete items 1, 2, and 3. Also con item 4 if Restricted Delivery is desired Print your name and address on the 	d.		Agent Addressee
		 Print your name and address on the so that we can return the card to you Attach this card to the back of the m or on the front if space permits. 	u. İ		Addressee
	5 1	1. Article Addressed to:] Yes] No
		Nadel & Gussman 601 N Marienfeld St, Ste	508		
		Midland TX 79701	L	3. Service Type	Verchandise
		2. Article Number		ter and the second s] Yes
		(Transfer from service label)		3150 0005 0437 8140	<u> </u>
		PS Form 3811, February 2004	Domestic Reti	urn Receipt 102	595-02-M-1540
•.		SENDER: COMPLETE THIS SECTIO	DN	COMPLETE THIS SECTION ON DELIVERY	and .
		 Complete items 1, 2, and 3. Also content item 4 if Restricted Delivery is desire Print your name and address on the 	omplete ed.	A. signature	Agent
		so that we can return the card to yo Attach this card to the back of the r	su.		ate of Delivery
		or on the front if space permits. 1. Article Addressed to:		D. Is delivery address different from item 1?	
				a red, enter derivery address below:	
	an mané hina diteng diting di di	Roff Operating Comp			
		333 Clay St, Ste 430 Houston TX 77002		3. Service Type	
			-	Certified Mail Express Mail Registered Return Receipt for Insured Mail C.O.D.	Merchandise
		· · · · · · · · · · · · · · · · · · ·			□ Yes
			2002 315	0 0005 0437 8133	i
· · ·		PS Form 3811, February 2004	Domestic Re	eturn Receipt 10	02595-02-M-154(
Sector Alleria	an a tha an	1977 - 1977 - 1977 - 一般語の - 1			

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Affidavit of Publication

State of New Mexico, County of Lea.

I, KATHI BEARDEN PUBLISHER

of the Hobbs News-Sun, a newspaper-published at Hobbs; New Mexico, do solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period

of 1 issue(s). Beginning with the issue dated October 28, 2008 and ending with the issue dated October 28, 2008

PUBLISHER Sworn and subscribed to before me this 28th day of October 2008

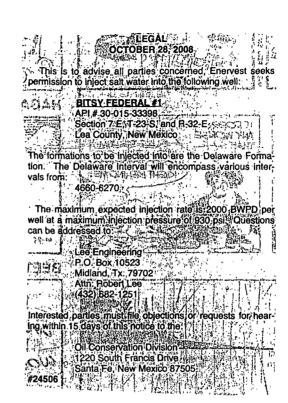
Notary Public

My commission expires February 07, 2009



OFFICIAL SEAL DORA (AONT Z NOTAPY POPTIO STATE OF NEW MEXICO My Commission Expires: _____

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.



02102084 00020017 ATTN: ROBERT LEE LEE ENGINEERING P.O. BOX 10523

MIDLAND, TX 79702

Warnell, Terry G, EMNRD

To:robertlee5@att.netSubject:RE: Bitsy Fed. #1 SWD Application

No that's okay It got logged in here at OCD as 30-015-33398 Because that's what the Clerk saw on your Nov 14th cover letter Everything has been corrected/changed to API # 30-025-33398

Thanks, Terry

From: robertlee5@att.net [mailto:robertlee5@att.net] Sent: Thursday, December 11, 2008 8:54 PM To: Warnell, Terry G, EMNRD Subject: Re: Bitsy Fed. #1 SWD Application

I do have an idea. I can not tell Lea county from Eddy County. The county code should be 025. Sorry about the confusion. Do you want me to resubmit the application?

Thansk

RObert

------ Original message from "Warnell, Terry G, EMNRD" <<u>TerryG.Warnell@state.nm.us</u>>: --------

Hi Robert,

I got your Enervest SWD Application from Will the other day When I put the API # 30-015-33398 from you application into ONGARD it comes up as a Mewbourne, Tamano 15 Fed Com Well No. 15 in Sec 15 18S 31E

Any idea why that is?

Thanks,

Terry G. Warnell New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3466

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