



SUSPENSE 5/12/04	ENGINEER WVJ	LOGGED IN	TYPE SWD 922	APP NO. PWJ 0413439634
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NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ABOVE THIS LINE FOR DIVISION USE ONLY

RECEIVED
WVJ
4/26/04

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
NSL NSP SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
DHC CTB PLC PC OLS OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
WFX PMX SWD IPI EOR PPR

[D] Other: Specify _____

New well
N.O. AOR wells

Energex's
Tiffany SWD #1

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or _ Does Not Apply

[A] Working, Royalty or Overriding Royalty Interest Owners

[B] Offset Operators, Leaseholders or Surface Owner

[C] Application is One Which Requires Published Legal Notice

[D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] Waivers are Attached

30-045-32208

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application 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.

Print or Type Name

Signature

Title

Date

BRIAN WOOD
(505) 466-8120
FAX 466-9682

Brian Wood

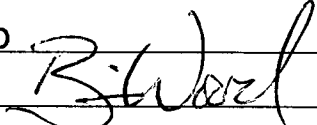
CONSULTANT

3-22-04

e-mail Address

brian@permitswest.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XXX _____ Disposal _____ Storage
Application qualifies for administrative approval? XXX _____ Yes _____ No
- II. OPERATOR: ENERGEN RESOURCES CORPORATION
ADDRESS: 2198 BLOOMFIELD HIGHWAY, FARMINGTON, NM 87401
CONTACT PARTY: BRIAN WOOD c/o PERMITS WEST, INC. PHONE 505 466-8120
- 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? _____ Yes XXX _____ No
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:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 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).
- *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: BRIAN WOOD TITLE: CONSULTANT
SIGNATURE:  DATE: MAR. 22, 2004
- * 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: _____

INJECTION WELL DATA SHEET

OPERATOR: ENERGEN RESOURCES CORPORATIONWELL NAME & NUMBER: TIFFANY SWD #1WELL LOCATION: 725' FNL & 325' FEL H 10 32 N 6 W
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8" @ 600'
 Cemented with: 700 sx. or 826 ft³
 Top of Cement: SURFACE Method Determined: VISUAL

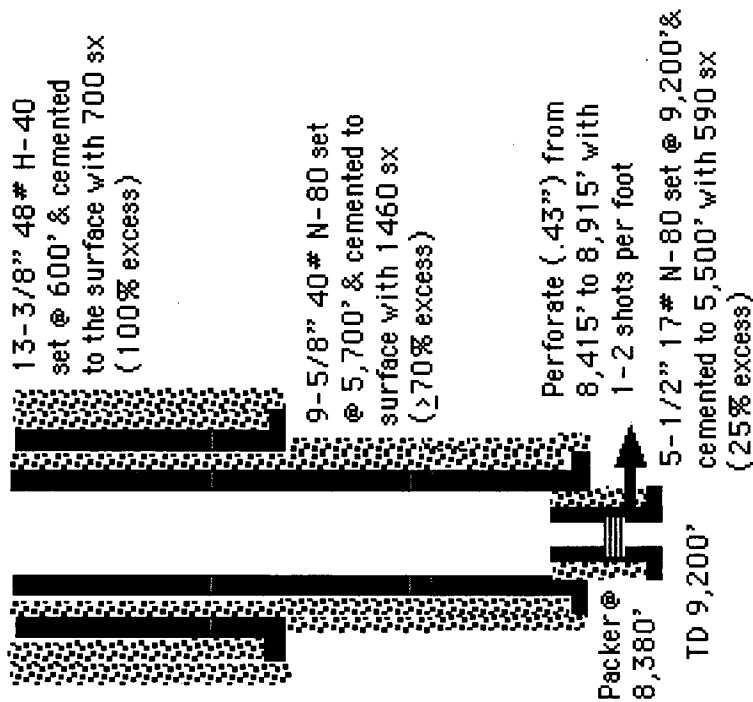
Intermediate Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"
 Cemented with: 1,460 sx. or 3,403 ft³
 Top of Cement: SURFACE Method Determined: VISUAL
Production Casing
 Method Determined: & TEMP SURVEY

Hole Size: 7-7/8" Casing Size: 5-1/2"
 Cemented with: 590 sx. or 1,163 ft³
 Top of Cement: 5,500' Method Determined: TEMP
 Total Depth: 9,200' SURVEY

8,415' Injection Interval 8,915'
feet to

(Perforated or Open Hole; indicate which)



INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" 9.3# Lining Material: IPC

Type of Packer: LARGE BORE 5-1/2" BAKER LOCK SET OR ITS EQUIVALENT

Packer Setting Depth: ≈8,380'

Other Type of Tubing/Casing Seal (if applicable): .

Additional Data

1. Is this a new well drilled for injection? XXX Yes No
 If no, for what purpose was the well originally drilled?
2. Name of the Injection Formation: SWD; BLUFF & ENTRADA
3. Name of Field or Pool (if applicable): WILDCAT
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO (NEW WELL)

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

NOW PRODUCING OVERLYING: FRUITLAND COAL (2,591' - 2,805')

NOW PRODUCING UNDERLYING: NONE

ENERGEN RESOURCES CORPORATION
TIFFANY SWD #1
725' FNL & 325' FEL
SEC. 10, T. 32 N., R. 6 W.
SAN JUAN COUNTY, NEW MEXICO

PAGE 1

I. Purpose is water disposal.

II. Operator: Energen Resources Corporation
Operator phone number: (505) 325-6800
Operator address: 2198 Bloomfield Highway
Farmington, NM 87401
Contact: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: fee lease
Lease Size: 240 acres
Lease Area: S2NE4 & SE4 Sec. 10, T. 32 N., R. 6 W.
Closest Lease Line: 127.04' north
Well Name & Number: Tiffany SWD #1
Well Location: 725' FNL and 325' FEL Sec. 10, T. 32 N., R. 6 W.
(see Exhibit A)

A. (2) Surface casing (13-3/8", 48#, H-40, S T & C) will be set at $\approx 600'$ in a 17-1/2" hole and cemented to the surface. Cement will be ≈ 700 sacks Class B + 2% CaCl_2 + 1/4 pound per sack Flocele®. This will yield 826 cubic feet (100% excess). W. O. C. = 12 hours. Test casing to 600 psi for 30 minutes. Texas pattern guide shoe will be used on bottom.

Intermediate casing (9-5/8", 40#, N-80, L T & C) will be set at $\approx 5,700'$ in a 12-1/4" hole and cemented to the surface.

First stage of intermediate casing will be ≈ 290 sacks 50/50 class H Poz with 1/4 pound per sack Flocele® + 5 pounds per sack gilsonite + 0.4% Halad-9 + 0.2% CFR-3 (yield = 317 cubic feet of slurry (or 100% excess) to circulate to packer stage collar at $\approx 5,200'$). Set packer stage collar at $\approx 5,200'$.

Second stage of intermediate casing will be ≈ 500 sacks 65/35 Premium Poz 6% gel + 1/4 pound per sack Flocele® + 5 pounds per sack gilsonite followed by ≈ 10 sacks Class H with 1/4

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pound per sack Flocele® + 5 pounds per sack gilsonite. Yield = 1,108 cubic feet of slurry ($\approx 70\%$ excess to cover stage collar at $\approx 3,300'$). Open stage collar $\approx 3,300'$. Circulate for 3 hours to allow cement to set.

Third stage of intermediate casing will be ≈ 670 sacks 3% Econolite = $1/2$ pound per sack Flocele® + 10 pounds per sack gilsonite followed by ≈ 100 sacks Class H + $1/2$ pound per sack Flocele® + 10 pounds per sack gilsonite + 2% CaCl_2 . This will yield 2,068 cubic feet (100% excess) which will be circulated to surface.

Cement float shoe on bottom with super seal float collar on top of two joint shoe. One centralizer on every joint on bottom with one below and 12 above third stage packer stage collar placed every third joint. One centralizer below and 12 above third stage collar placed every third joint for a total of 30 centralizers.

Set slips with full string weight.

W. O. C. = 12 hours. If cement does not circulate, run temperature survey in 8 hours to determine top of cement.

Nipple up 11" 3,000 psi double gate BOP in preparation to start air drilling.

Production liner (5-1/2", 17#, N-80, L T & C) will be set at $\approx 9,200'$ in a 7-7/8" hole and cemented to the surface. Lead with ≈ 300 barrel mud flush. Cement with ≈ 340 sacks 50/50 Premium Poz + $1/4$ pound per sack Flocele® + 5 pounds per sack gilsonite + 0.4% Halad-413 + 0.2% SCR-100 + 35% SSA-1. Follow with ≈ 250 sacks Neat + $1/4$ pound per sack Flocele® + 5 pounds per sack gilsonite + 0.4% Halad-413 + 0.25 SCR-100 + 35% SSA-1. This will yield 1,163 cubic feet of slurry ($\approx 50\%$ excess) to circulate to liner top. Calculate volume based on caliper log + 25% excess. W. O. C. = 12 hours before starting completion operations.

Will install liner float shoe on the bottom with a float collar and landing collar on top of the shoe joint. Place ≈ 14 bow spring centralizers spaced every third joint on bottom.

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TIFFANY SWD #1
725' FNL & 325' FEL
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Will use hydro test from the surface to the packer for the mechanical integrity test.

- A. (3) Tubing will be plastic coated 3-1/2" 9.3# N-80 injection string. It will be set at $\approx 8,380'$.
- A. (4) A 5-1/2" large bore Baker lock set packer or its equivalent will be set at $\approx 8,380'$ ($\approx 35'$ above the top perforation at $\approx 8,415'$).
- B. (1) Disposal zones will be the Bluff and Entrada sandstones. Fracture gradient is expected to be ≈ 0.64 psi per foot.
- B. (2) Disposal interval will be $\approx 8,415'$ to $\approx 8,915'$ (well logs will determine exact interval after drilling). Perforations will be $\approx 0.43"$. Bluff will have two shots per foot. Entrada will have 1 shot per foot.
- B. (3) Well has not yet been drilled. It will be drilled for the exclusive use by Energen and for the sole purpose of water disposal from present and future Energen wells. Water analyses from Energen wells are attached.
- B. (4) Well bore has not yet been perforated since it has not been drilled. It will be perforated from $\approx 8,415'$ to $\approx 8,915'$ (logs will determine exact interval after drilling).
- B. (5) Top of the Bluff (a member of the Morrison Formation) is at $\approx 8,411'$. Top of the Entrada is at $\approx 8,686'$. Twenty-one other wells in the San Juan Basin are disposing, or have disposed of, water into the Morrison-Bluff-Entrada interval. Oil and gas are produced elsewhere in the San Juan Basin from the Morrison and Entrada. Closest Morrison production is ≈ 46 miles west at Ute Dome. Closest Entrada production is ≈ 65 miles south at the Arena Blanca Field. Bottom of the closest overlying productive formation (Dakota) is at $\approx 7,910'$. There will be $\approx 505'$ interval between the highest injection perforation and the bottom of the Dakota. Closest underlying potentially productive formation is the Pennsylvanian. Closest Pennsylvanian production is ≈ 42 miles west at Barker Dome.

IV. This is not an expansion of an existing injection project.

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 TIFFANY SWD #1
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V. A map (Exhibit B) is attached showing all 8 well bores (1 P & A + 3 gas + 4 water) within a half mile radius. A map is attached (Exhibit C) showing all 28 (8 water + 4 P & A + 15 oil or gas) existing well bores within a two mile radius. (Much of the two mile radius is underwater - Navajo Reservoir.) Details on the wells within a half mile radius are below.

OPERATOR	WELL	LOCATION	ZONE	TD	STATUS	DISTANCE
??	N/A	SENE Sec. 10	San Jose	??	Water Well	≈500'
Pacific	SJ 32-6	990 FN & 990 FE Sec. 10	Mesa Verde	5660	P & A	687'
BP	Miller 10-1	1380 FN & 1030 FE Sec. 10	Fruitland	2844	Gas Well	963'
Cemetery	N/A	SWNE Sec. 10	San Jose	280	Water Well	≈1000'
Poma	N/A	SWNE Sec. 10	San jose	300	Water Well	≈1000'
BP	Miller 11-1	1130 FN & 760 FW SEC. 11	Fruitland	2900	Gas Well	1158'
Clark	N/A	NWSWSW Sec. 11	San Jose	200	Water Well	≈2000'
BP	Carnes 11-1	1800 FS & 230 FW Sec. 11	Fruitland	2839	Gas Well	2131'

A map (Exhibit D) showing all leases (1 BLM and remainder fee) within a half mile and all leases within two miles is attached. Except for some BLM leases along the south and east sides, all other leases in the 2 mile radius are fee. Details on the leases within a half mile are:

AREA	TYPE LEASE	LEASE #	LESSEE(S)
Lots 1 & 2 10-32n-6w	BLM	NM-86475	Habbit, Shern, W. Sol
remainder	Fee	N/A	BP, Burlington Consolidated, SG

VI. Eight existing wells are within a half mile radius. None penetrated the Bluff or Entrada. In fact, deepest well ended 2,751' above the Bluff top.

- VII.
1. Average injection rate = 2,500 bwpd. Maximum = 3,000 bwpd.
 2. System will be open (water will be trucked). Facilities will include 8 to 10 ≈400 barrel water tanks, two filtration units, and two injection pumps.
 3. Average injection pressure = 1,500 psi
Maximum pressure = 1,700 psi

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4. Water source will be present and future Energen wells in the San Juan Basin. Three produced water analyses (Exhibit E) are attached. Averages follow. No local sample exists from the Bluff or Entrada.

Bicarbonates (HCO_3)	6,520 mg/l
Calcium	27 mg/l
Carbonates (CO_3)	27 mg/l
Chloride	1,703 mg/l
Iron	0 mg/l
Magnesium	20 mg/l
pH	7.5 pH units
Potassium	0 mg/l
Resistivity	1.02 units
Sodium	3,504 mg/l
Specific Gravity	1.012 units
Sulfate	0 mg/l
Total Dissolved Solids	11,800 mg/l

5. The Bluff and Entrada have not been proven productive within two miles of the proposed well. (Energen will attempt to swab back load water after stimulation and take Bluff and Entrada water samples. If successful, then the analyses will be provided to the New Mexico Oil Conservation Division.)

According to Stone et al in Hydrogeology and water resources of San Juan Basin, New Mexico, lower (known variously as the Junction Creek, Cow Springs, or Bluff member of the) Morrison water near the basin fringe has a specific conductance of <2,000 μmhos . Morrison water from one deep test of the basin had a specific conductance of 4,300 μmhos . Stone et al state, "No wells are known to derive their water exclusively from this aquifer" and transmissivity is "relatively low". Stone et al also state, "Generally, however, water from the Entrada is not suitable for drinking, especially in deeper parts of the basin."

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Summaries of analyses of Morrison and Entrada water follow (also see Exhibit F).

Well	<u>Simms Fed. 1</u>	<u>NEBU 501</u>
Location	13-30n-4w	10-32n-7w
Distance from Tiffany SWD 1	17 miles Southeast	6 miles West
Zone	Morrison	Entrada
Bicarbonate	180 ppm	152 ppm
Calcium	150 ppm	1,310 ppm
Carbonate	N/A	0 ppm
Chloride	10,479 ppm	8,280 ppm
Hydroxide	N/A	0 ppm
Hydrogen Sulfide	No Trace	N/A
Iron	0 ppm	164 ppm
Magnesium	24 ppm	29 ppm
pH	7.1	5.07
Potassium	15,600 ppm	169 ppm
Resistivity	0.34 ohms @ 71° F	45 ohms
Sodium	N/A	4,760 ppm
Sodium Chloride	17,237 ppm	N/A
Sodium + Potassium	11,485 ppm	N/A
Specific Gravity	1.015 @ 72° F	1.01 @ 73° F
Sulfate	256 ppm	2,100 ppm
Total Dissolved Solids	22,873 ppm	19,000 ppm
Total Hardness	473 ppm	N/A

VIII. According to the U. S. Geological Survey (Ground Water Atlas of the United States - Arizona, Colorado, New Mexico, Utah - HA 730-C), the middle and lower Morrison is an “ ... interbedded fine to medium sandstone, siltstone, and mudstone.” It produces oil elsewhere in the basin (e. g., XTO's Ute A #30 in 2-31n-14w)). Bluff member of the Morrison Formation is predicted to be ≈234' thick in the planned well bore. Top is ≈8,411' and bottom is ≈8,645'.

The Entrada sandstone is a very porous and permeable æolian sandstone. It produces oil elsewhere in the basin (e. g., Eagle Mesa, Leggs, Media, Ojo Encino, Papers Wash, Snake Eyes Fields). Entrada is estimated to be ≈234' thick in the well bore. Top is ≈8,686' and bottom is ≈8,920'.

Estimated well bore formation tops are:

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San Jose Sandstone: 0'
Ojo Alamo Sandstone: 2,061'
Kirtland Shale: 2,166'
Fruitland Formation: 2,591'
Pictured Cliffs Sandstone: 2,806'
Lewis Shale: 3,136'
Cliff House Sandstone: 5,116'
Menefee Shale: 5,166'
Point Lookout Sandstone: 5,371'
Gallup Sandstone: 6,071'
Greenhorn: 7,476'
Graneros: 7,536'
Dakota Sandstone: 7,666'
Morrison Formation: 7,911'
Bluff Sandstone: 8,411'
Todilto: 8,646'
Entrada Sandstone: 8,686'
Chinle Shale: 8,921'
Total Depth: 9,200'

There are eight water wells within a two mile radius. Of the eight water wells, deepest reported depth is 300'. Water bearing strata are 0' to 2,165'. Water well bores are in Quaternary alluvium or the San Jose sandstone. No existing underground drinking water sources are below the Entrada within a two mile radius. There will be $\approx 8,111'$ vertical separation between the bottom of the lowest existing underground water source and the top of the Bluff.

IX. The well will be stimulated with a $\approx 90,000$ gallon gelled water frac and $\approx 150,000$ pounds of 20/40 sand.

X. Caliper log will be run from surface to intermediate casing TD. GR/TemplHRI: GR/Spec Den/Dual Spaced Neutron and mud logs will be run from the base of the intermediate casing to TD ($\approx 9,200'$). Copies will then be provided to the NMOCD.

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XI. There are no water wells within two miles which penetrate the Bluff or Entrada. The deepest reported water well depth within two miles is 300'.

XII. Energen is not aware of any geologic or engineering data which indicate the Bluff or Entrada are in hydrologic connection with any underground sources of water. There will be $\approx 8,111'$ of vertical separation and four shale zones (Kirtland, Lewis, Menefee, and Mancos) between the top (8,411') of the Bluff and the bottom (300') of the deepest water well.

XIII. Notice (this application) has been sent to the surface owner (Rosa Joint Venture), operators of all wells (only BP), and lease operating right holders (BP, Burlington, Consolidated, Habbit, SG, Shearn, and West Sol III), and lessors (BLM) within a half mile. A legal ad (see Exhibit G) was published on March 15, 2004.



District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code	*Pool Name
*Property Code	*Property Name TIFFANY SWD		*Well Number 1
*OGRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION		*Elevation 6194'

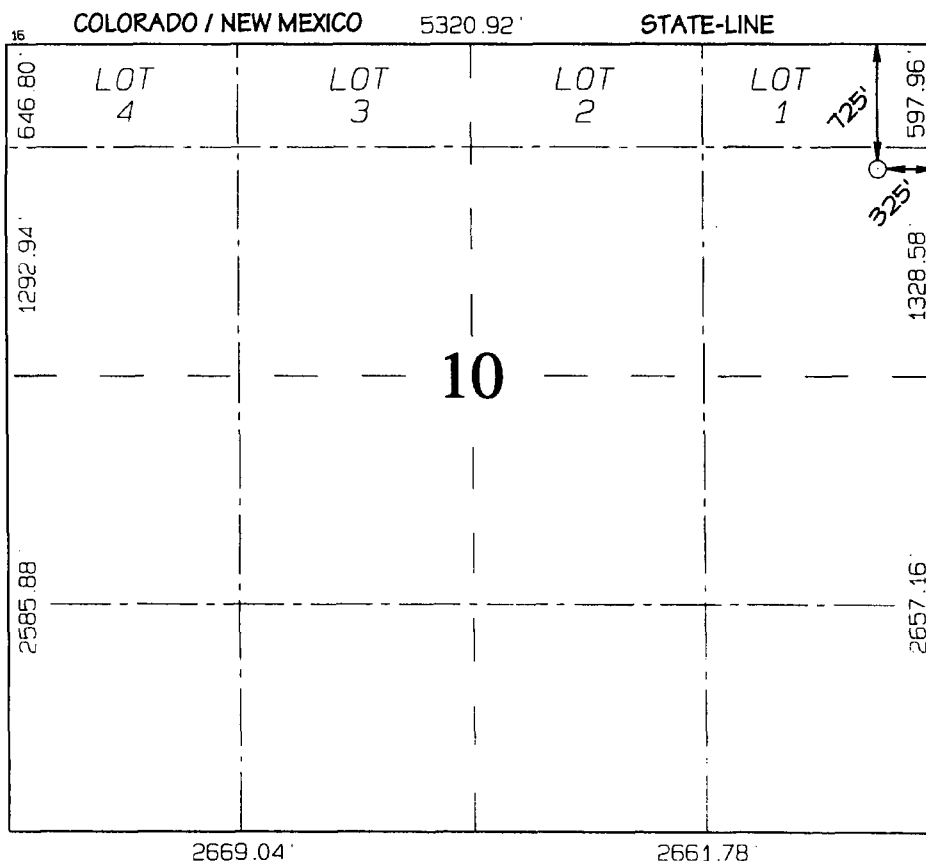
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	10	32N	6W		725	NORTH	325	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres					13 Joint or Infill	14 Consolidation Code	15 Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

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

Signature

Printed Name

Title

Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief

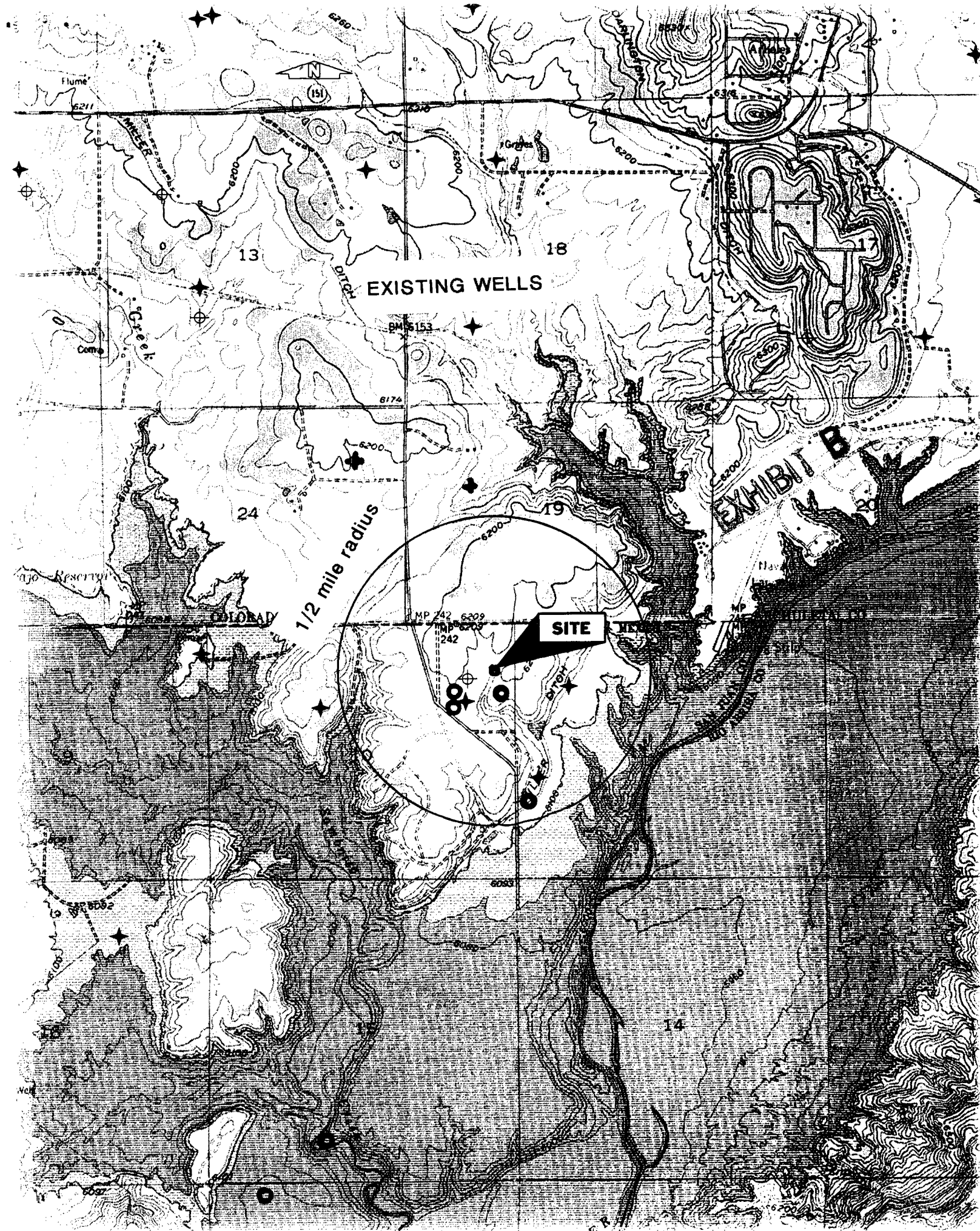
Survey Date: DECEMBER 22, 2003

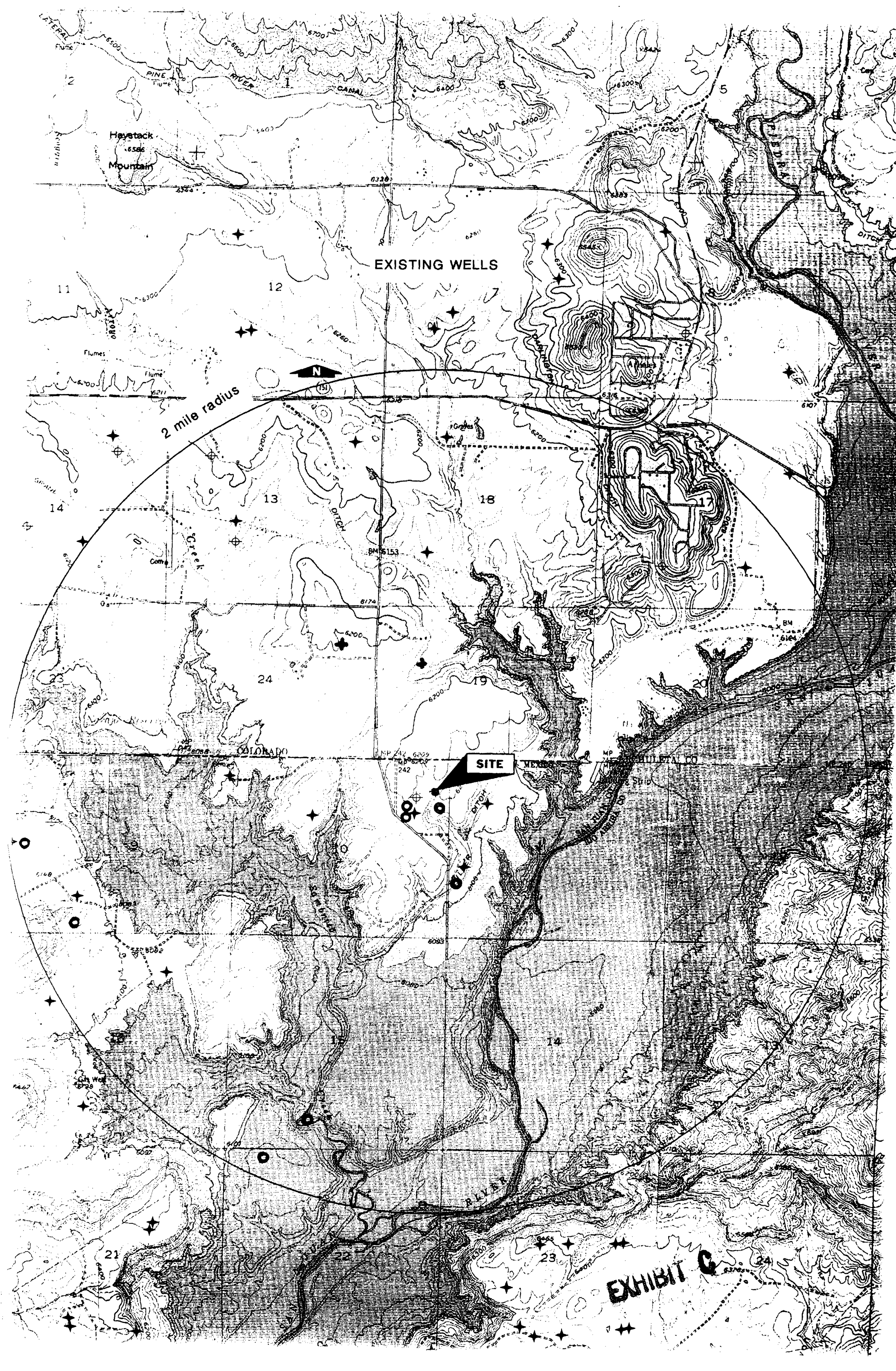
Signature and Seal of Professional Surveyor

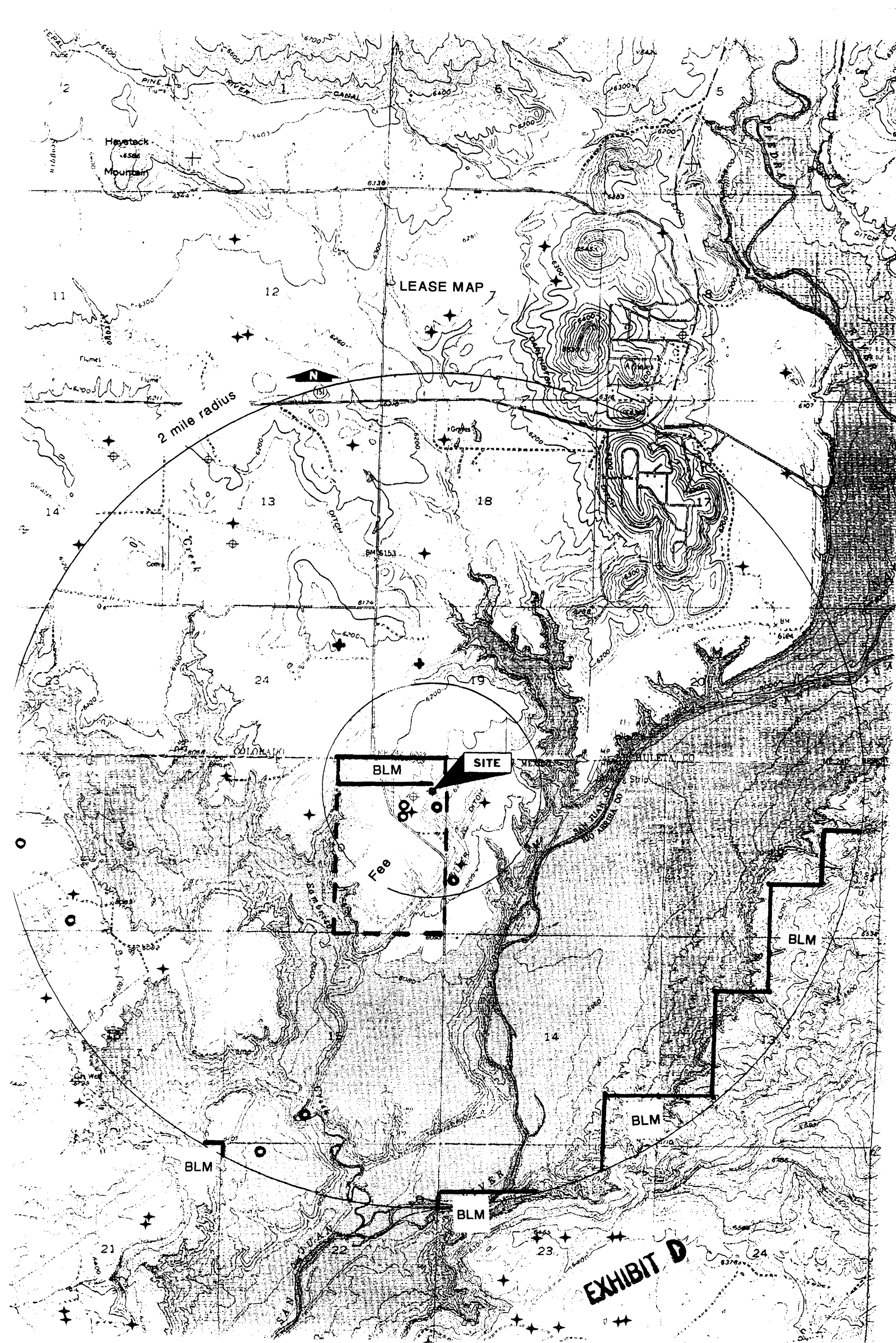


JASON C. EDWARDS
Certificate Number 15269

EXHIBIT A









HALLIBURTON

Water Analysis Report

To: Energen Resources Date: 2/25/2004
Submitted by: Halliburton Energy Services Date Rec: 2/23/2004
Attention: Sam Mohler Report #: FLMM4120
Well Name: Big Elk 32-8; #5-1 Formation: Well Head

Specific Gravity	1.012	
pH	7.70	
Resistivity	1.10	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	0	Mg / L
Sodium (Na)	3235	Mg / L
Calcium (Ca)	28	Mg / L
Magnesium (Mg)	20	Mg / L
Chlorides (Cl)	960	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	80.0	Mg / L
Bicarbonates (HCO ₃)	7035	Mg / L
Total Dissolved Solids	11358	Mg / L

Respectfully: Bill Loughridge

Title: Senior Scientist

Location: Farmington, NM

NOTICE: This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.

EXHIBIT E

HALLIBURTON

Water Analysis Report

To:	<u>Energen Resources</u>	Date:	<u>2/25/2004</u>
Submitted by:	<u>Halliburton Energy Services</u>	Date Rec:	<u>2/23/2004</u>
Attention:	<u>Sam Mohler</u>	Report #:	<u>FLMM4121</u>
Well Name:	<u>Dugan 32-5; #5-1</u>	Formation:	<u>Well Head</u>

Specific Gravity	1.012	
pH	7.40	
Resistivity	0.85	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	0	Mg / L
Sodium (Na)	3696	Mg / L
Calcium (Ca)	24	Mg / L
Magnesium (Mg)	20	Mg / L
Chlorides (Cl)	2800	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	5165	Mg / L
Total Dissolved Solids	11705	Mg / L

Respectfully: Bill Loughridge

Title: Senior Scientist

Location: Farmington, NM

NOTICE: This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.

EXHIBIT E

HALLIBURTON

Water Analysis Report

To: Energen Resources Date: 2/25/2004
Submitted by: Halliburton Energy Services Date Rec: 2/23/2004
Attention: Sam Mohler Report #: FLMM4122
Well Name: Padget 32-6; #5-2 Formation: Well Head

Specific Gravity	1.012	
pH	7.50	
Resistivity	1.10	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	0	Mg / L
Sodium (Na)	3580	Mg / L
Calcium (Ca)	28	Mg / L
Magnesium (Mg)	20	Mg / L
Chlorides (Cl)	1350	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	7361	Mg / L
Total Dissolved Solids	12338	Mg / L

Respectfully: Bill Loughridge

Title: Senior Scientist

Location: Farmington, NM

NOTICE: This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.

EXHIBIT E

BJ SERVICES COMPANY
WATER ANALYSIS #FW01W718
FARMINGTON LAB

GENERAL INFORMATION

OPERATOR:	MALLON OIL	DEPTH:	
WELL:	SIMMS FED. #1	DATE SAMPLED:	11/15/99
FIELD:	13-30n-4w	DATE RECEIVED:	11/15/99
SUBMITTED BY:	J. ZELLITTI	COUNTY:	STATE: NM
WORKED BY:	D. SHEPHERD	FORMATION:	Mallison
PHONE NUMBER:			

SAMPLE DESCRIPTION

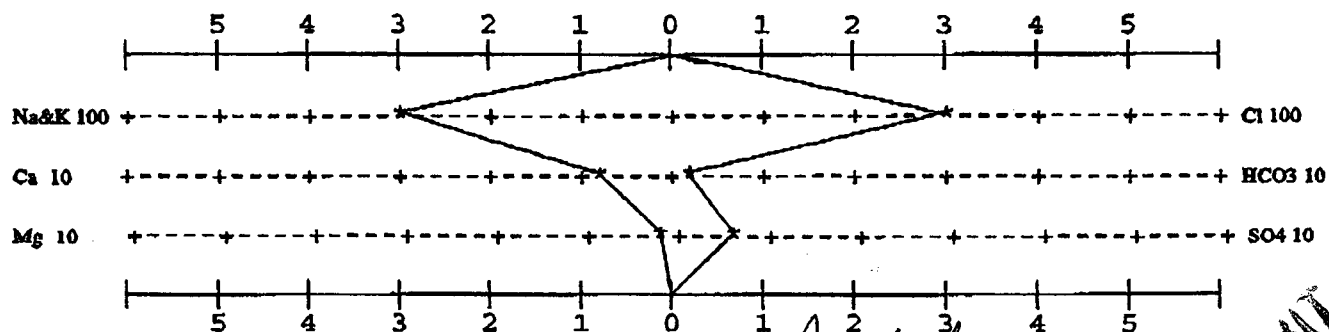
SAMPLE #1

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.015	@ 72°F	PH:	7.10
RESISTIVITY (MEASURED):	0.340	ohms @ 71°F		
IRON (FE++) :	0 ppm	SULFATE:	256	ppm
CALCIUM:	150 ppm	TOTAL HARDNESS	473	ppm
MAGNESIUM:	24 ppm	BICARBONATE:	180	ppm
CHLORIDE:	10,479 ppm	SODIUM CHLORIDE (Calc)	17,237	ppm
SODIUM+POTASS:	11,485 ppm	TOT. DISSOLVED SOLIDS:	22,873	ppm
H2S: NO TRACE		POTASSIUM (PPM):	15,600	

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

D. Shepherd
D. SHEPHERD

EXHIBIT F

2605
DURANGO, CO 81302
(303) 247-4220

ATTEN: BILL CLARK
PO BOX 1237
DURANGO, CO 81302
(303) 247-0728

DATE SAMPLED: 8/1/88
WELL NAME: NEBU UNIT 501
LOCATION: 10-32N-7W
FORMATION: ENTRADA WATER
SAMPLED FROM:
WELL ON/OFF:

CDS ID #: 1119

CONSTITUENT	ppm	epm
Sodium Na +	4760	207.1
Potassium K +	169	4.3
Calcium Ca ++	1310	65.4
Magnesium Mg ++	29.4	2.4
Iron Total Fe++ & Fe+++	164	8.8

Item 2A
SWD-339

POSITIVE SUB-TOTAL 6432.4 287.9799

Chloride Cl -	8280	233.5
Carbonate CO3 =	0	0.0
Bicarbonate HCO3-	152	2.5
Hydroxide OH -	0	0.0
Sulfate SO4 =	2100	43.7

NEGATIVE SUB-TOTAL 10532 279.70928

Total Dissolved Solids 19000 ppm
pH 5.07 units
Specific Gravity 1.01 @ 73 F.
Resistivity 45 ohm-cm

APPROVED BY:



DR. JOE BOWDEN, DIRECTOR

This Laboratory report may not be published or used for advertising or in connection with advertising of any kind without prior written permission from CDS Laboratories.
Results are based on analysis made at the time samples are received at the laboratory.

EXHIBIT F

AFFIDAVIT OF PUBLICATION

Ad No. 49486

STATE OF NEW MEXICO County of San Juan:

CONNIE PRUITT, being duly sworn says:
That she is the CLASSIFIED MANAGER of
THE DAILY TIMES, a daily newspaper of
general circulation published in English at
Farmington, said county and state, and that
the hereto attached Legal Notice was
published in a regular and entire issue of the
said DAILY TIMES, a daily newspaper duly
qualified for the purpose within the meaning of
Chapter 167 of the 1937 Session Laws of the
State of New Mexico for publication and
appeared in the Internet at The Daily Times
web site on the following day(s):

Monday, March 15, 2004.

And the cost of the publication is \$31.91.

Connie Pruitt

ON 3-16-04 CONNIE PRUITT
appeared before me, whom I know personally
to be the person who signed the above
document.

Spring Beck
My Commission Expires April 2, 2004.

COPY OF PUBLICATION

918	Legals
NOTICE	
Energen	Resources
Corporation is applying to drill the Tiffany SWD #1 water disposal well. The Tiffany SWD #1 will be located at 725' FNL & 325' FEL, Sec. 10, T. 32N., R. 6W., San Juan County, NM. The well will dispose of water produced from oil and gas wells into the Bluff and Entrada Formations at a depth of 8,415' to 8,915' at a maximum rate of 3,000 barrels of water per day and at a maximum pressure of 1,700 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.	
Legal No. 49486 published in The Daily Times, Farmington, New Mexico on Monday, March 15, 2004.	

EXHIBIT G

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 22, 2004

BLM
1235 LaPlata Highway
Farmington, NM 87401

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

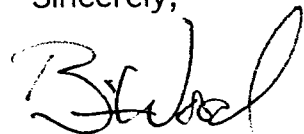
Energen Resources Corporation is applying (see attached application) to drill its Tiffany SWD #1 well.

Well Name: Tiffany SWD #1 Total Depth: 9,200'
Proposed Disposal Zone: Bluff & Entrada (from $\approx 8,415'$ to $\approx 8,915'$)
Location: 725' FNL & 325' FEL Sec. 10, T. 32 N., R. 6 W.,
San Juan County, NM on a fee lease
Approximate Location: ≈ 2 air miles southwest of Arboles, Colorado
Applicant Name: Energen Resources Corporation
Applicant's Address: 2198 Bloomfield Highway, Farmington, NM 87401

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

2002 2410 0007 8721 2232

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Sent To: BLM
Street, Apt. No.: 1235 LaPlata
PO Box No.: h. NM 87401

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 22, 2004

Cherry Hlava
BP America Production Company
P. O. Box 3092
Houston, Tx. 77253-3092

Dear Cherry,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Energen Resources Corporation is applying (see attached application) to drill its Tiffany SWD #1 well.

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Proposed Disposal Zone: Bluff & Entrada (from ≈8,415' to ≈8,915')
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San Juan County, NM on a fee lease
Approximate Location: ≈2 air miles southwest of Arboles, Colorado
Applicant Name: Energen Resources Corporation
Applicant's Address: 2198 Bloomfield Highway, Farmington, NM 87401

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

If you have any questions.

Sincerely,


Brian Wood

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BP
Street, Apt. No.,
or PO Box No. PO Box 3092
City, State, ZIP+4 Houston TX 77253

Stamp: SANTA FE NM 87508 USPS APR 23 2004 QUICK SEND CPU

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 22, 2004

John Zent
Burlington Resources Oil and Gas Company
P. O. Box 4289
Farmington, M 87499

Dear John,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Energen Resources Corporation is applying (see attached application) to drill its Tiffany SWD #1 well.

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Location: 725' FNL & 325' FEL Sec. 10, T. 32 N., R. 6 W.,
San Juan County, NM on a fee lease
Approximate Location: ≈ 2 air miles southwest of Arboles, Colorado
Applicant Name: Energen Resources Corporation
Applicant's Address: 2198 Bloomfield Highway, Farmington, NM 87401

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Questions.

Sincerely,

Brian Wood
Brian Wood

2410 0897 1721 2256

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Burlington
4289

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 22, 2004

Consolidated Oil & Gas Inc.
1860 Lincoln St.
Denver, CO 80295

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

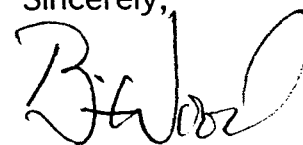
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Applicant's Address: 2198 Bloomfield Highway, Farmington, NM 87401

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Please call me if you have any questions.

Sincerely,


Brian Wood

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Sent To Consolidated

PERMITS WEST INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 22, 2004

Robert Habbit
6006 North Mesa, #400
El Paso, TX 79912

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

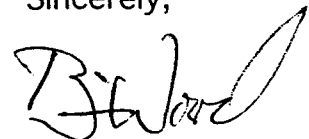
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Please call me if you have any questions.

Sincerely,



Brian Wood

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March 22, 2004

Ralph & Cecil Phelps
Rosa Joint Venture
3626 County Road 330
Ignacio, CO 81137

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

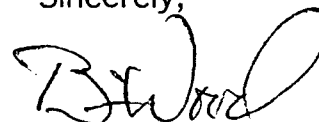
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Please call me if you have any questions.

Sincerely,



Brian Wood



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Street, Apt. No., or PO Box No.	3626 CR 330
	Ignacio, CO 81137

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 22, 2004

SG Interests I Ltd
P. O. Box 2677
Durango, CO 81302

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

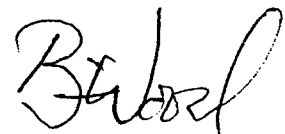
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Applicant's Address: 2198 Bloomfield Highway, Farmington, NM 87401

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Please call me if you have any questions.

Sincerely,


Brian Wood

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March 22, 2004

Michael Shern & West Sol III
P. O. Box 10120
El Paso, TX 79992

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

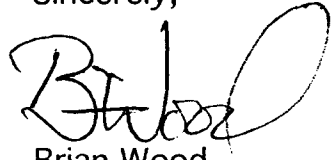
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Please call me if you have any questions.

Sincerely,


Brian Wood

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Sent To: Shern & West
P.O. Box 10120
El Paso, TX 79992

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 22, 2004

Michael Shern & West Sol III
P. O. Box 10120
El Paso, TX 79995

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Please call me if you have any questions.

Sincerely,


Brian Wood

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10120