



#16	SUSPENSE 12/22/06	ENGINEER JONES	LOGGED IN 12/8/06	TYPE SWD	APP NO. P-TDSOG-34231389
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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

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

Rosetta's
 Tsah Tah SWD #11

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 _____

[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

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

Signature

Title
CONSULTANT

Date
12-1-06

e-mail Address
brian@permitswest.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance YES Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: ROSETTA RESOURCES OPERATING LP
ADDRESS: 1200 17TH ST., SUITE 770, DENVER, CO 80202
CONTACT PARTY: BRIAN WOOD (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 (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

SIGNATURE: _____



TITLE: CONSULTANT

DATE: DEC. 1, 2006

E-MAIL ADDRESS: brian@permitswest.com

- * 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: _____

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 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.

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# J-55 Lining Material: PLASTIC

Type of Packer: 5-1/2" x 2-7/8" COMPRESSION SET WITH ON/OFF TOOL

Packer Setting Depth: WITHIN 50' OF THE HIGHEST PERFORATION

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

Additional Data

1. Is this a new well drilled for injection? Yes No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: POINT LOOKOUT SANDSTONE

3. Name of Field or Pool (if applicable): SWD; MESA VERDE

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. _____

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

OVER: FRUITLAND (1,386') & PICTURED CLIFFS (1,636')

UNDER: GALLUP (5,186') & DAKOTA (6,159')

ROSETTA RESOURCES OPERATING LP
TSAH TAH SWD #11
970' FSL & 1510' FWL
SEC. 11, T. 24 N., R. 10 W.
SAN JUAN COUNTY, NEW MEXICO

PAGE 1

I. Purpose is water disposal.

II. Operator: Rosetta Resources Operating LP
Operator phone number: (720) 359-9144
Operator address: 1200 17th St., Suite 770
Denver, CO 80202
Contact: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: BLM lease NMNM-112955
Lease Size: 1,761.69 acres
Lease Area: SW4NE4, S2NW4, S2, & Lots 2-4 Sec. 1
SE4NE4 & NE4SE4 Sec. 3
SW4 & N2 Sec. 11
all Sec. 12
all T. 24 N., R. 10 W.
Closest Lease Line: 970'
Well Name & Number: Tsah Tah SWD #11
Well Location: 970' FSL and 1510' FWL Sec. 11, T. 24 N., R. 10 W.
(see Exhibit A)

A. (2) Surface casing (8-5/8", 24#, J-55, S T & C) will be set at \approx 200' in a 12-1/4" hole and cemented to the surface with \approx 100% excess. Will use \approx 165 cubic feet (\approx 140 sacks) Class B cement + 1/4 pound per sack cellophane + 2% CaCl₂ mixed at 15.6 pounds per gallon and 1.18 cubic feet per sack. Top will be visually determined.

Production casing (5-1/2", 15.5#, J-55, S T & C) will be set at \approx 4,500' in a 7-7/8" hole and cemented to the surface with \approx 100% excess. Top will be determined by visual observation and cement bond log. About ten centralizers will be used.

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Lead with $\approx 1,442$ cubic feet (≈ 700 sacks) Class B with 2% SMS + 1/4 pound per sack cellophane + 5 pounds per sack gilsonite. Yield = 2.06 cubic feet per sack. Lead weight = 12.6 pounds per gallon. Tail with ≈ 118 cubic feet (≈ 100 sacks) Class B with 1/4 pound per sack cellophane + 5 pounds per sack gilsonite + 2% CaCl_2 . Tail yield = 1.18 cubic feet per sack. Tail weight = 15.6 pounds per gallon. Top will be determined by visual observation and cement bond log.

Mechanical integrity of the casing will be assured by hydraulically pressure testing to $\approx 3,500$ psi.

- A. (3) Tubing will be 2-7/8" 6.5# J-55 plastic lined injection string. It will be set at $\approx 4,050'$ (disposal interval will be $\approx 4,100'$ to $\approx 4,250'$).
- A. (4) A 5-1/2" x 2-7/8" compression set packer with an on/off tool or its equivalent will be set within $\approx 50'$ of the highest perforation. Thus, packer will be set at $\approx 4,050'$ which will be $\approx 50'$ above the top perforation of $\approx 4,100'$.
- B. (1) Disposal zone will be the Point Lookout sandstone of the Mesa Verde Formation (Pool 96160). Fracture gradient is expected to be a normal ≈ 0.433 psi per foot.
- B. (2) Disposal interval will be $\approx 4,100'$ to $\approx 4,250'$ (well logs will determine exact interval after drilling). It will be perforated (0.32") with four shots per foot.
- B. (3) Well has not yet been drilled. It will be drilled for the exclusive use by Rosetta and for the sole purpose of water disposal from present and future Rosetta wells. Water analyses from two Basin Fruitland coal gas wells 2 to 3 miles away in Sections 15 and 16 of 24n-10w are attached.
- B. (4) Well bore has not yet been perforated since the well has not yet been drilled. It will be perforated from $\approx 4,100'$ to $\approx 4,250'$ (logs will determine exact interval after drilling).

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 TSAH TAH SWD #11
 970' FSL & 1510' FWL
 SEC. 11, T. 24 N., R. 10 W.
 SAN JUAN COUNTY, NEW MEXICO

B. (5) Top of the Point Lookout is predicted to be $\approx 4,086'$. Oil has been produced elsewhere in the San Juan Basin from the Point Lookout (≈ 33 miles east-southeast in 32-23n-4w at the Otero Point Lookout Field). Bottom of the closest potentially productive zone (Pictured Cliffs) is at $\approx 1,786'$. There will be a $\approx 2,314'$ interval between the bottom of the Pictured Cliffs and the highest injection perforation. Top of the closest underlying potentially productive zone (Gallup) is at $\approx 5,186'$. There will be a $\approx 936'$ interval between the lowest injection perforation and the top of the Gallup.

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

V. A map (Exhibit B) showing all existing wells (1 stock watering well) within a half mile radius is attached. A map (Exhibit C) showing all 62 wells (32 P & A + 25 oil or gas producers + 5 water) within a two mile radius is attached. Details (no depth or casing details in state files) on the one well within a half mile are:

<u>OPERATOR</u>	<u>WELL USE</u>	<u>LOCATION</u>	<u>ZONE</u>	<u>TD</u>	<u>DISTANCE</u>
Thomas & Sarah Yazzie	stock watering	NWSE 11-24n-10w	Nacimiento ??	??	$\approx 1/4$ mile

Exhibit D shows all leases (all BLM) within a half mile radius. Details are:

<u>AREA</u>	<u>LESSOR</u>	<u>LEASE #</u>	<u>LESSEE(S)</u>
E2 10-24n-10w	BLM	NMNM-104606	Coleman
W2 & NE4 11-24n-10w	BLM	NMNM-112955	Rosetta
SE4 11-24n-10w	BLM	NMNM-114376	Rosetta & Baseline
N2 14-24n-10w	BLM	NMNM-016760	Questar
NE4 15-24n-10w	BLM	NMNM-100807	Coleman

A map (Exhibit E) showing all lessors within a two mile radius is attached. Most leases are BLM. The remainder are Navajo allotted (FIMO) or State (NMSLO).

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VI. There is only one well (stock watering well) within a half mile radius. It did not penetrate the Point Lookout. There will be a $\approx 3,000'$ interval between the bottom of the deepest (1,100') water well within a ≈ 1.95 mile radius and the highest proposed perforation ($\approx 4,100'$). No other wells have been drilled to date within a half mile, though Rosetta has filed an Application for Permit to Drill its 1,900' deep Basin Fruitland coal gas well Tsah Tah 11 #3. The 11 #3 is staked at 1000 FSL & 1205 FWL 11-24n-10w. It will be 382' away as measured from well head to well head (see Exhibit F).

- VII. 1. Average injection rate will be $\approx 1,500$ bwpd.
Maximum injection rate will be $\approx 2,000$ bwpd.
2. System will be closed (Rosetta will lay water pipelines with its gas pipelines). Facilities will include a tank battery with skimmer and settling tanks, filters, and an electric injection pump.
3. Average injection pressure will be ≈ 450 psi
Maximum injection pressure will be ≈ 820 psi (≤ 0.2 psi x depth of top perforation)
4. Water source will be existing and future Rosetta wells in the San Juan Basin. As of November 23, Rosetta had 22 approved wells in Townships 24 and 25 North, Range 10 West. Seventeen of the 22 have been drilled, none of which have been completed. All will be Fruitland coal gas with a maximum TD of 1,900'. The closest (382') is the Tsah Tah 11 #3.
- Two water analyses from the Point Lookout, Menefee, and Mesa Verde (Exhibit G) are attached. Two produced water analyses from the Basin Fruitland coal (Exhibit H) are also attached. A summary follows on the next page.

ROSETTA RESOURCES OPERATING LP
 TSAH TAH SWD #11
 970' FSL & 1510' FWL
 SEC. 11, T. 24 N., R. 10 W.
 SAN JUAN COUNTY, NEW MEXICO

Well:	Juniper 24-15	Juniper 1	Juniper 4 SWD	Sanchez O'Brien 1
Location:	15-24n-10w	16-24n-10w	17-24n-10w	6-24n-9w
Zone(s) Sampled:	Fruitland	Fruitland	Point Lookout & Menefee	Mesa Verde
<u>Parameter</u>				
pH	7.34	7.59	7.06	7.23
Total Dissolved Solids	14,300	13,900	21,520	37,823
Total Hardness as CaCO ₃	460	420	1,480	1,074
Chloride	8840	8340	12,450	22,137
Iron	0.7	No	57.1	3
Calcium	133	121	417	336
Magnesium	31.6	27.3	106	57
Potassium	75.8	21.6	118	84

No closer (the Juniper 4 SWD is ≈3 miles away) sample exists from the Point Lookout. (The Sanchez O'Brien #1 is ≈2.2 miles northeast. However, the laboratory analysis indicates the water came from the "Mesa Verde".) Rosetta will try to swab load water back after stimulation and take a Point Lookout water sample. If successful, then the analysis will be sent to the New Mexico Oil Conservation Division.

5. The Point Lookout has not been proven productive within two miles of the proposed well. Indeed, water is being disposed into the Point Lookout at the Sanchez O'Brien #1 well which is ≈2.2 miles northeast. Point Lookout water near recharge zones (basin fringe) generally has a specific conductance of >1,500 μmhos. Entrada water from deeper parts of the basin has a specific conductance of >59,000 μmhos. Stone et al in Hydrogeology and water resources of San Juan Basin, New Mexico wrote, "The Point Lookout Sandstone is not widely used as a source of water" An analysis of Point Lookout is summarized in the above table.

VIII. The Point Lookout is a very fine to medium grained coastal marine sandstone. It produced oil elsewhere in the basin (e. g., ≈33 miles east-southeast in 32-23n-4w at the Otero Point Lookout Field). The Point Lookout is estimated to be ≈200' thick in the proposed SWD #11 well bore. Top is ≈4,086' and bottom is ≈4,286'. Estimated formation tops are:

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Nacimiento: 0'
Ojo Alamo Sandstone: 886'
Kirtland Shale: 961'
Fruitland Formation: 1,386'
Pictured Cliffs Sandstone: 1,636'
Lewis Shale: 1,786'
Cliffhouse Sandstone: 2,411'
Menefee Shale: 2,986'
Point Lookout Sandstone: 4,086'
Mancos Shale: 4,286'
Total Depth: 4,500'

There is one water well within a one mile radius. It is a stock watering well $\approx 1/4$ mile northeast in the NWSE Section 11. There are two water wells within a two mile radius. There is the previously mentioned stock well, plus a Dugan water well in NWNW 7-24n-9w which is ≈ 1.95 miles northeast. This latter well is 1,100' deep and is used to support oil field exploration and production.

No existing underground drinking water sources are below the Point Lookout within a two mile radius. There will be $\approx 3,000'$ of vertical separation between the bottom of the deepest water well within ≈ 1.95 miles and the top of the Point Lookout.

IX. The well will be stimulated with a sand-water fracture.

X. IES Gamma Ray Density logs will be run. Copies will then be provided to the NMOCD.

XI. There is one water well within a one mile radius. It is a stock watering well of unreported depth. It is $\approx 1/4$ mile northeast in the NWSE of Section 11. A water analysis is attached as Exhibit I. (The analysis was also hand delivered to the family which operates the well. The well is only used for stock watering.) A

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Navajo Tribal Utility Authority water pipeline provides drinking water to the family.

XII. Rosetta is not aware of any geologic or engineering data which may indicate the Point Lookout is in hydrologic connection with any underground sources of water. There will be $\approx 3,000'$ of vertical separation between the top ($\approx 4,086'$) of the Point Lookout and the bottom ($1,100'$) of the deepest water well within ≈ 1.95 miles. This interval includes at least two shale zones (Lewis and the Menefee).

XIII. Notice (this application) has been sent (Exhibit J) to the surface owner (BLM), operators of all wells (Rosetta and Yazzie), and lessees or lease operating right holders (Baseline, Coleman, EOG, North American Petro Corp, Questar), and lessors (only BLM) within a half mile. A legal ad (see Exhibit K) was published on November 1, 2006.

DISTRICT II
811 South First, Artesia, N.M. 88210

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-		² Pool Code 96160		³ Pool Name SWD; MESA VERDE	
⁴ Property Code .		⁵ Property Name TSAH TAH SWD		⁶ Well Number 11	
⁷ GRID No. 239235		⁸ Operator Name ROSETTA RESOURCES OPERATING LP		⁹ Elevation 6886'	

¹⁰ Surface Location

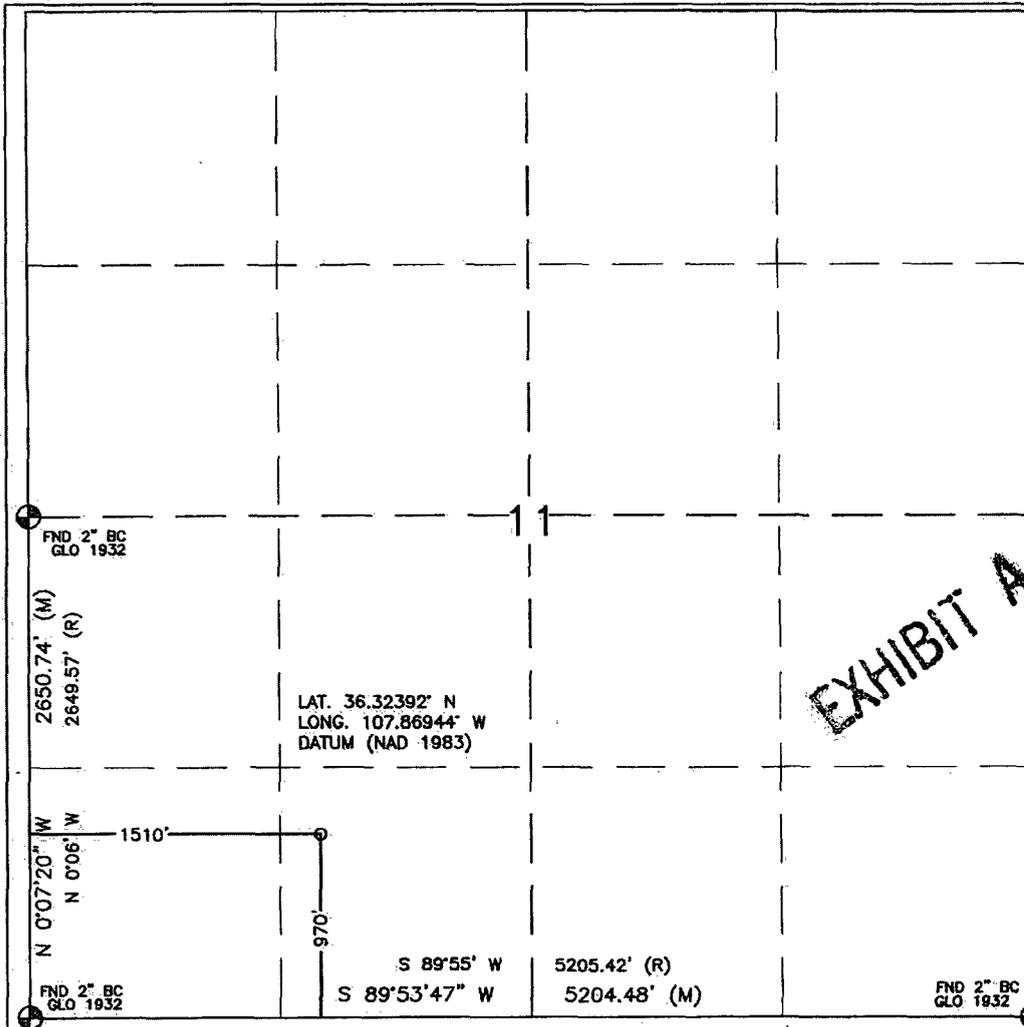
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	11	24N	10W		970'	SOUTH	1510'	WEST	SAN JUAN

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

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17 OPERATOR CERTIFICATION

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

Brian Wood

Signature

BRIAN WOOD

Printed Name

CONSULTANT

Title

NOV. 23, 2006

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.

SEPTEMBER 23 2006

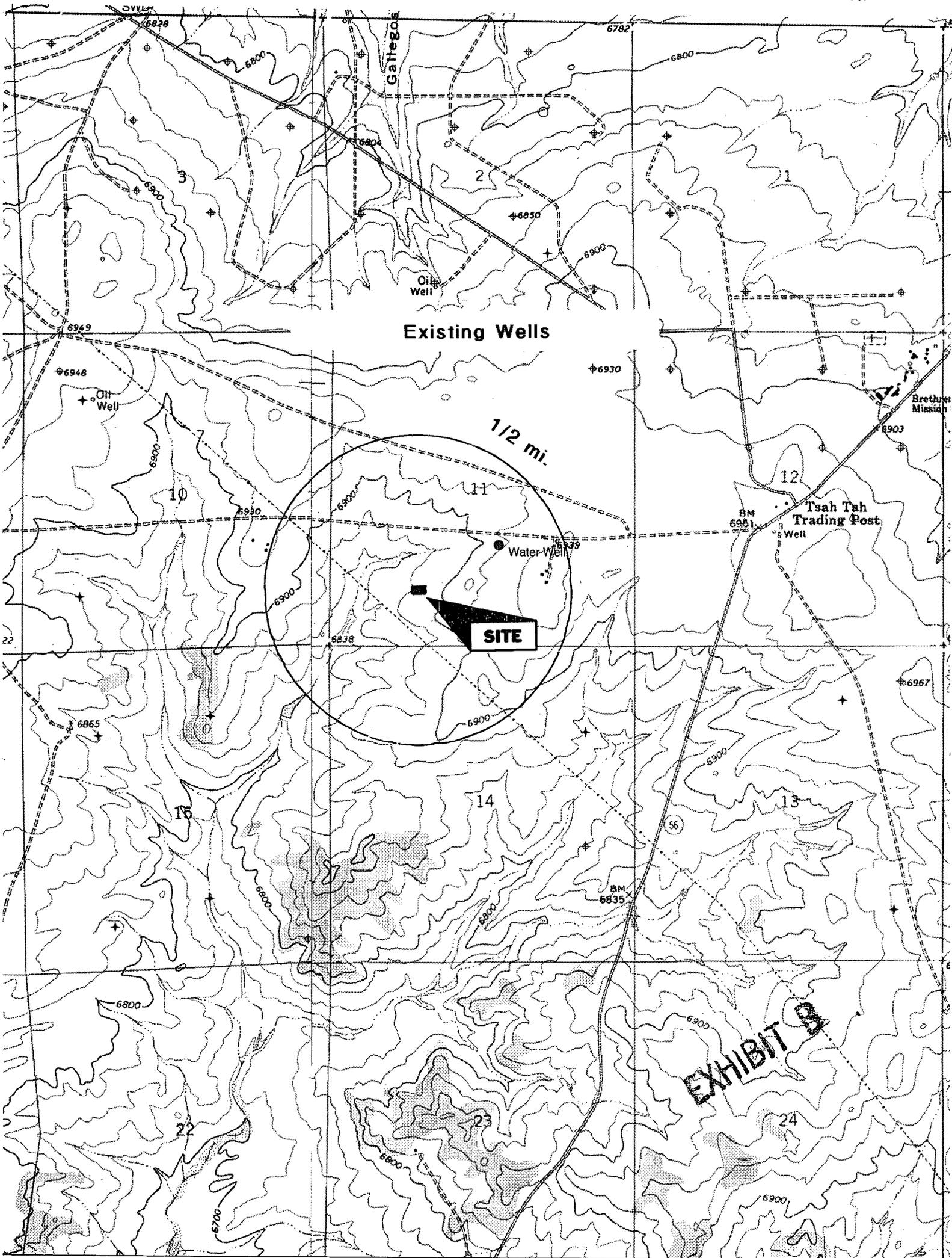
Date of Survey

Signature and Seal of Professional Surveyor

David Russell

DAVID RUSSELL

Certificate Number 10201



Existing Wells

1/2 mi.

SITE

Tsah Tah Trading Post Well

EXHIBIT B



Existing Wells

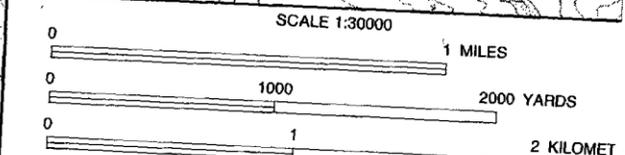
2 mi.

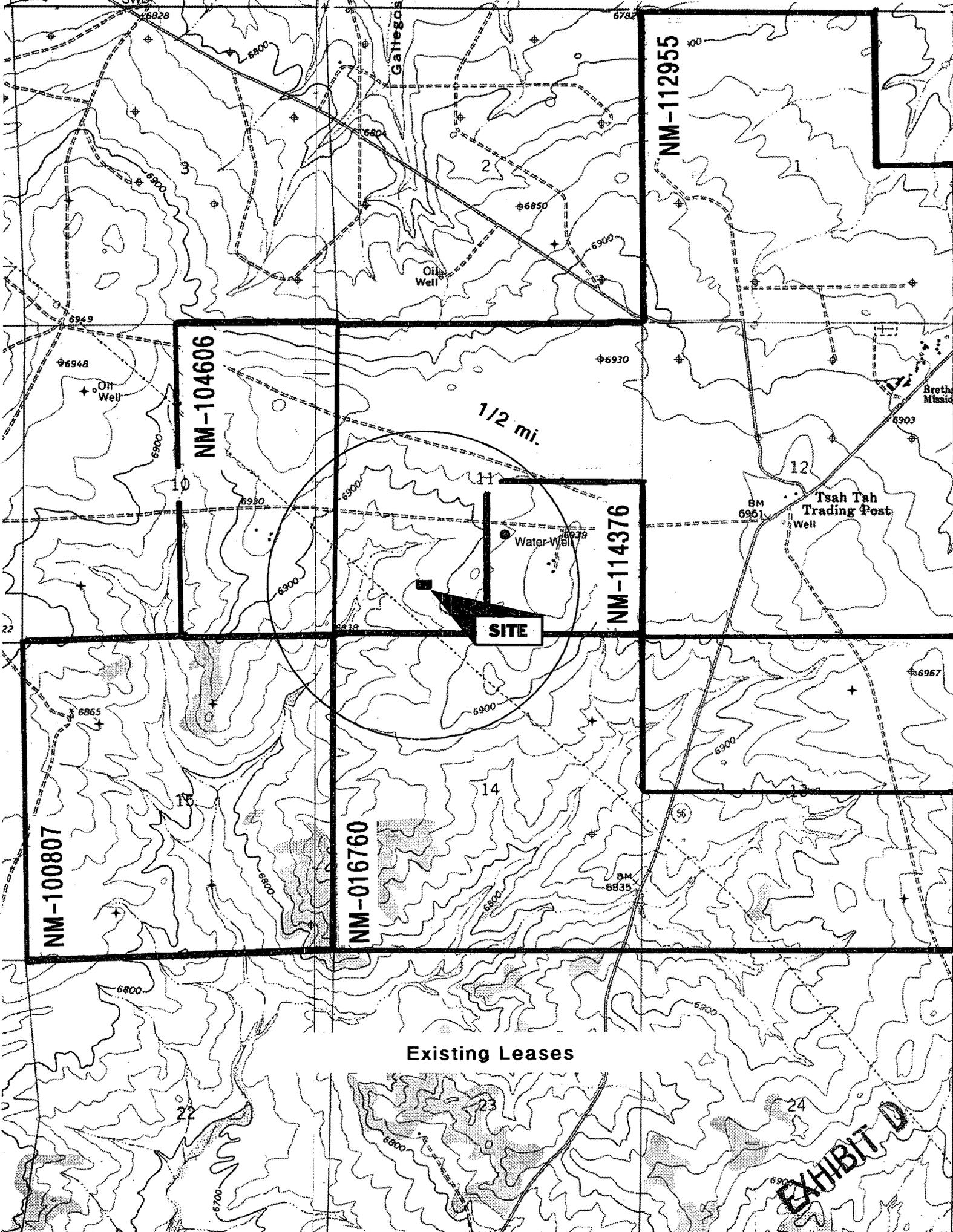
SITE

Tash Tab Trading Post

Brother in Christ Mission School

EXHIBIT C





NM-112955

NM-104606

NM-114376

NM-100807

NM-016760

1/2 mi.

SITE

Existing Leases

EXHIBIT D

Gatagos

Brother Mission

Tsah Tah Trading Post

BM 6951

BM 6835

6967

56

6828

6782

900

3

2

1

Oil Well

6949

6948

6930

6903

6930

6939

6865

14

15

12

22

22

23

24

6800

6900

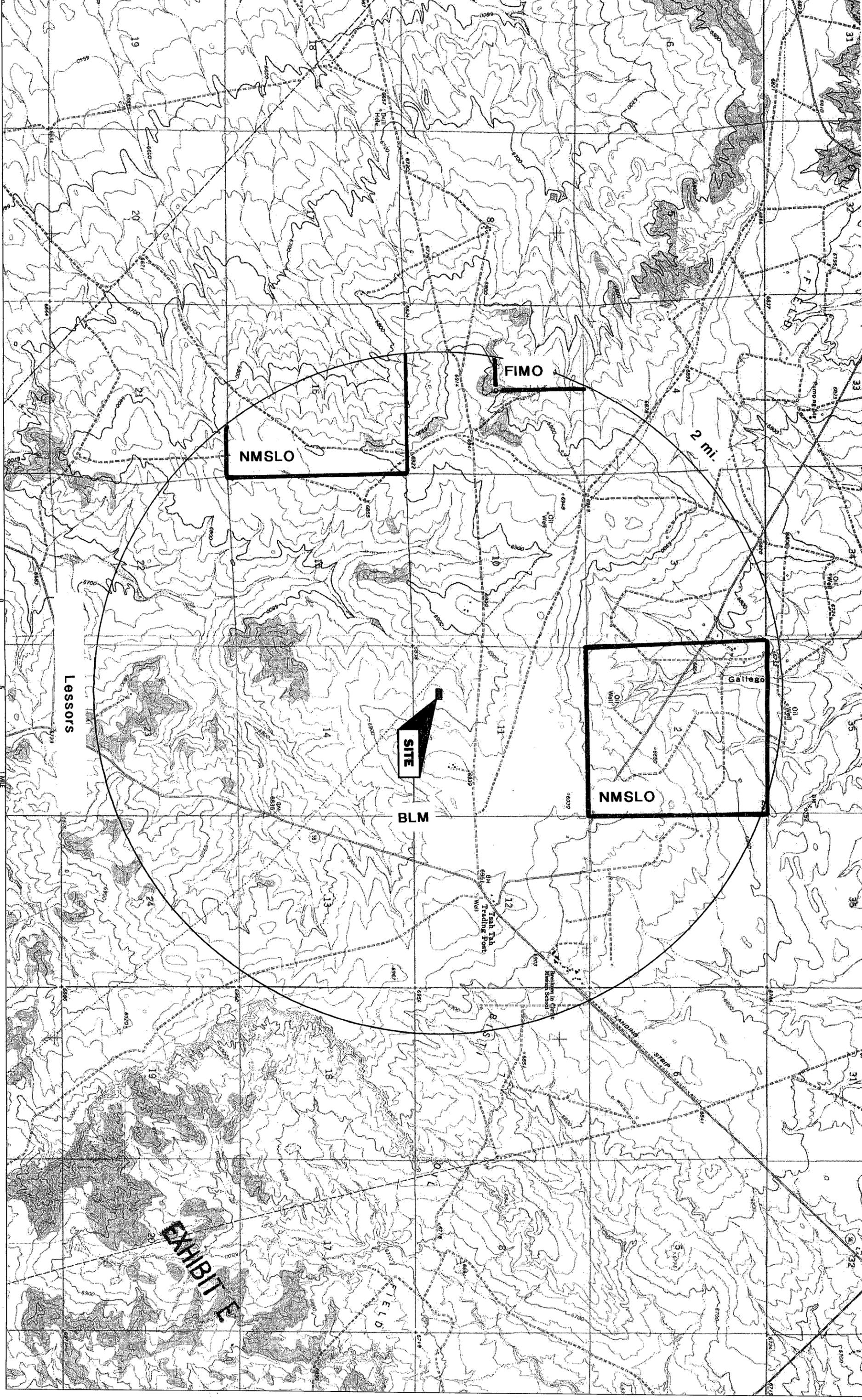
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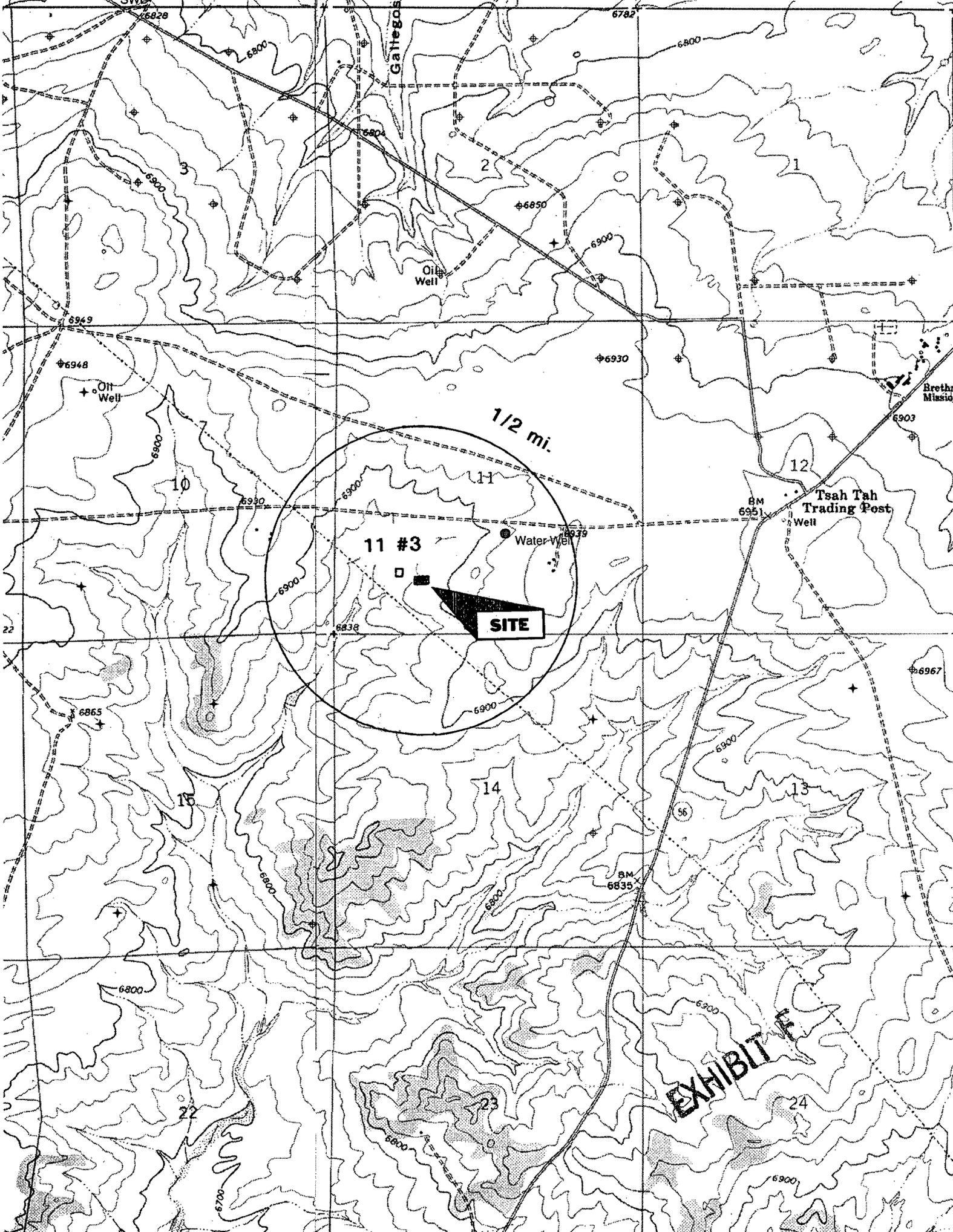
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6900

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11°

0 1000 FEET 0
500 1000 METERS
Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)





Gallegos

Oil Well

Oil Well

Water Well

Tсах Tah Trading Post

Brethren Mission

SITE

EXHIBIT E

1/2 mi.

11 #3

BM 6835

BM 6951

6930

6782

6800

6900

6900

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6900

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Coleman Oil & Gas	Project #:	05206-001
Sample ID:	Mensesee # <i>Point Lookout</i>	Date Reported:	03-16-06
Laboratory Number:	36459	Date Sampled:	03-14-06
Chain of Custody:	15676	Date Received:	03-16-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-16-06
Condition:	Cool & intact		

Parameter	Analytical Result	Units		
pH	7.06	s.u.		
Conductivity @ 25° C	35,300	umhos/cm		
Total Dissolved Solids @ 180C	21,520	mg/L		
Total Dissolved Solids (Calc)	21,750	mg/L		
SAR	88.4	ratio		
Total Alkalinity as CaCO3	814	mg/L		
Total Hardness as CaCO3	1,480	mg/L		
Bicarbonate as HCO3	814	mg/L	13.34	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	2.50	mg/L	0.04	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	12,450	mg/L	351.21	meq/L
Fluoride	2.48	mg/L	0.13	meq/L
Phosphate	25.2	mg/L	0.60	meq/L
Sulfate	326	mg/L	6.78	meq/L
Iron	57.1	mg/L	2.04	meq/L
Calcium	417	mg/L	20.81	meq/L
Magnesium	106	mg/L	8.72	meq/L
Potassium	118	mg/L	3.02	meq/L
Sodium	7,810	mg/L	339.74	meq/L
Cations			372.28	meq/L
Anions			372.31	meq/L
Cation/Anion Difference			0.01%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Juniper #4 SWD.

17-24n-10w

660 FS

2015 FW

Christine Walsh
 Review

EXHIBIT G

[Signature]
 Analyst

BJ SERVICES COMPANY
WATER ANALYSIS #FW01W027
FARMINGTON LAB

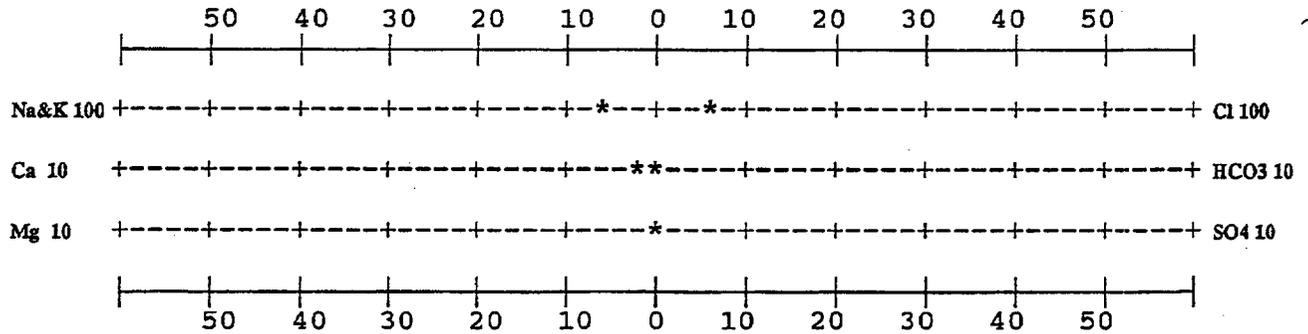
GENERAL INFORMATION		
OPERATOR:	DUGAN PRODUCTION	DEPTH:
WELL:	SANCHEZ O'BRIEN #1	DATE SAMPLED:
FIELD:	SEC.6/T24N/R9W	DATE RECEIVED:
SUBMITTED BY:	JOHN ALEXANDER	COUNTY:
WORKED BY :	D. SHEPHERD	STATE:
PHONE NUMBER:		FORMATION:

SAMPLE DESCRIPTION
SWAB SAMPLE AFTER 200 BBL.

PHYSICAL AND CHEMICAL DETERMINATIONS	
SPECIFIC GRAVITY:	1.025 @ 76°F PH: 7.23
RESISTIVITY (MEASURED):	0.160 ohms @ 76°F
IRON (FE++) :	3 ppm
CALCIUM:	336 ppm
MAGNESIUM:	57 ppm
CHLORIDE:	22,137 ppm
SODIUM+POTASS:	14,065 ppm
H2S: NO TRACE	
SULFATE:	0 ppm
TOTAL HARDNESS	1,074 ppm
BICARBONATE:	548 ppm
SODIUM CHLORIDE(Calc)	36,415 ppm
TOT. DISSOLVED SOLIDS:	37,823 ppm
POTASSIUM (PPM):	84

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST _____
 D. SHEPHERD

EXHIBIT G

15-24a-10w

* Basin
Fruitland
coal

612 E. Murray Drive
Farmington, NM 87499

P.O. Box 3788

Shiprock, NM 87420

iiná bá

ANALYTICAL REPORT

Date: 02-Sep-05 Off: (505) 368-4065

CLIENT: Coleman Oil and Gas Company
Work Order: 0508043
Project: Well Head
Lab ID: 0508043-002A

Client Sample Info: Well Head
Client Sample ID: Juniper #24-15 *
Collection Date: 8/26/2005 10:45:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		SW6010B		(SW6010B)		Analyst: JLE
Iron	0.749	0.225		mg/L	1.25	8/29/2005 1:52:33 PM
Magnesium	31.6	1.30		mg/L	100	8/29/2005 11:01:45 AM
Calcium	133	4.10		mg/L	100	8/29/2005 11:01:45 AM
Sodium	5410	13.0		mg/L	100	8/29/2005 11:01:45 AM
Potassium	75.8	11.0		mg/L	100	8/29/2005 11:01:45 AM
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: JLE
Chloride	8840	100		mg/L	1000	8/30/2005
Sulfate	0.206	0.100		mg/L	1	8/29/2005
ALKALINITY, TOTAL		M2320 B				Analyst: JEM
Alkalinity, Bicarbonate (As CaCO3)	411	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Total (As CaCO3)	411	5		mg/L CaCO3	1	8/29/2005
HARDNESS, TOTAL		M2340 B				Analyst: JEM
Hardness (As CaCO3)	460	1		mg/L	1	9/2/2005
PH		E150.1				Analyst: JEM
pH	7.34	1.00		pH units	1	8/26/2005
Temperature	25.5	0		Deg C	1	8/26/2005
RESISTIVITY (@ 25 DEG. C)		M2510 C				Analyst: JEM
Resistivity	0.408	0.001		ohm-cm	1	8/26/2005
SPECIFIC GRAVITY		M2710 F				Analyst: JEM
Specific Gravity	1.009	0.001		Units	1	8/26/2005
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: JEM
Total Dissolved Solids (Residue, Filterable)	14300	40		mg/L	1	8/30/2005
TOTAL DISSOLVED SOLIDS		M1030F				Analyst: JEM
Total Dissolved Solids (Calculated)	14700	5		mg/L	1	9/2/2005

EXHIBIT H

Qualifiers:
 ND - Not Detected at the Practical Quantitation Limit
 J - Analyte detected below Practical Quantitation Limit
 B - Analyte detected in the associated Method Blank
 H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted precision limits
 E - Value above Upper Quantitation Limit - UQL

16-24w-10w

* Basin
Fruitland coal

612 E. Murray Drive
Farmington, NM 87499

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 327-1072

ANALYTICAL REPORT

iiná bá

Date: 02-Sep-05 Off: (505) 368-4065

CLIENT: Coleman Oil and Gas Company
Work Order: 0508043
Project: Well Head
Lab ID: 0508043-001A

Client Sample Info: Well Head
Client Sample ID: Juniper #1 *
Collection Date: 8/26/2005 10:00:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED						
		SW6010B		(SW6010B)		Analyst: JLE
Iron	ND	0.225		mg/L	1.25	8/29/2005 1:47:05 PM
Magnesium	27.3	1.30		mg/L	100	8/29/2005 10:52:19 AM
Calcium	121	4.10		mg/L	100	8/29/2005 10:52:19 AM
Sodium	4910	13.0		mg/L	100	8/29/2005 10:52:19 AM
Potassium	21.6	11.0		mg/L	100	8/29/2005 10:52:19 AM
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: JLE
Chloride	8340	100		mg/L	1000	8/30/2005
Sulfate	0.210	0.100		mg/L	1	8/29/2005
ALKALINITY, TOTAL						
		M2320 B				Analyst: JEM
Alkalinity, Bicarbonate (As CaCO3)	469	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Total (As CaCO3)	469	5		mg/L CaCO3	1	8/29/2005
HARDNESS, TOTAL						
		M2340 B				Analyst: JEM
Hardness (As CaCO3)	420	1		mg/L	1	9/2/2005
PH						
		E150.1				Analyst: JEM
pH	7.59	1.00		pH units	1	8/26/2005
Temperature	25.1	0		Deg C	1	8/26/2005
RESISTIVITY (@ 25 DEG. C)						
		M2510 C				Analyst: JEM
Resistivity	0.426	0.001		ohm-cm	1	8/26/2005
SPECIFIC GRAVITY						
		M2710 F				Analyst: JEM
Specific Gravity	1.008	0.001		Units	1	8/26/2005
TOTAL DISSOLVED SOLIDS						
		E160.1				Analyst: JEM
Total Dissolved Solids (Residue Filterable)	13900	40		mg/L	1	8/30/2005
TOTAL DISSOLVED SOLIDS						
		M1030F				Analyst: JEM
Total Dissolved Solids (Calculated)	13700	5		mg/L	1	9/2/2005

EXHIBIT H

Qualifiers: ND - Not Detected at the Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below Practical Quantitation Limit R - RPD outside accepted precision limits
 B - Analyte detected in the associated Method Blank E - Value above Upper Quantitation Limit - UQL
 H - Parameter exceeded Maximum Allowable Holding Time

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072
Fax: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

November 17, 2006

Brian Wood
Permits West
37 Verano Loop
Santa Fe, NM 87508

TEL: 505-466-8120

FAX:

RE: Section 11

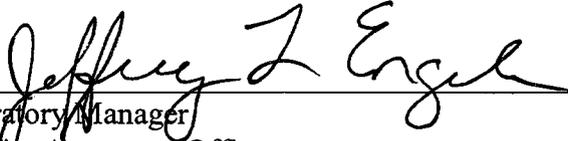
Order No.: 0611009

Dear Brian Wood:

iiná bá received 1 sample on 11/8/2006 9:40:00 AM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: 
Jeffrey L. Engels, Laboratory Manager
Edwina F. Aspaas, Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at (505) 327-1072.

EXHIBIT A



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 17-Nov-06

CLIENT: Permits West
Project: Section 11
Lab Order: 0611009

CASE NARRATIVE

Samples were analyzed using the methods outlined in one or more of the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94/111,
May 1994.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

EXHIBIT 1

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 17-Nov-06

CLIENT: Permits West
Work Order: 0611009
Project: Section 11
Lab ID: 0611009-001A

Client Sample Info:
Client Sample ID: Section 11 NW to SE
Collection Date: 11/8/2006 9:00:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		SW6010B				Analyst: jle
Iron	< 0.021	0.021		mg/L	1	11/9/2006 4:04:02 PM
Magnesium	2.64	0.010		mg/L	1	11/9/2006 4:04:02 PM
Calcium	16.8	0.490		mg/L	10	11/10/2006 10:31:04 AM
Sodium	98.0	0.800		mg/L	10	11/10/2006 10:31:04 AM
Potassium	1.43	0.040		mg/L	1	11/9/2006 4:04:02 PM
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: elc
Chloride	10.1	2.00		mg/L	20	11/15/2006
Sulfate	74.5	2.00		mg/L	20	11/15/2006
ALKALINITY, TOTAL		M2320 B				Analyst: elc
Alkalinity, Bicarbonate (As CaCO3)	169	5		mg/L CaCO3	1	11/8/2006
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	11/8/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	11/8/2006
Alkalinity, Total (As CaCO3)	169	5		mg/L CaCO3	1	11/8/2006
HARDNESS, TOTAL		M2340 B				Analyst: jem
Hardness (As CaCO3)	53	1		mg/L	1	11/17/2006
PH		E150.1				Analyst: elc
pH	7.92	1.00		pH units	1	11/8/2006
Temperature	20.3	0		deg C	1	11/8/2006
RESISTIVITY (@ 25 DEG. C)		M2510 C				Analyst: elc
Resistivity	18.900	0.001		ohm-m	1	11/8/2006
SPECIFIC GRAVITY		M2710 F				Analyst: elc
Specific Gravity	1.001	0.001		Units	1	11/8/2006
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: elc
Total Dissolved Solids (Residue, Filterable)	330	25		mg/L	1	11/13/2006
TOTAL DISSOLVED SOLIDS		M1030F				Analyst: jem
Total Dissolved Solids (Calculated)	305	5		mg/L	1	11/17/2006

EXHIBIT 1

Qualifiers: ND - Not Detected at the Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit R - RPD outside accepted precision limits
B - Analyte detected in the associated Method Blank E - Value above Upper Quantitation Limit - UQL
* - Value exceeds Maximum Contaminant Level

iiiná bá

Date: 17-Nov-06

CLIENT: Permits West
Work Order: 0611009
Project: Section 11

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID: MBLK_061115A	SampType: MBLK	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061115A						
Client ID: ZZZZZ	Batch ID: R8698	TestNo: E300		Analysis Date: 11/15/2006	SeqNo: 121608						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	<0.101	0.101	0	0	0	0	0	0	0	0	J
Sulfate	0.021	0.101	0	0	0	0	0	0	0	0	

Sample ID: LCS2_061115A	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061115A						
Client ID: ZZZZZ	Batch ID: R8698	TestNo: E300		Analysis Date: 11/15/2006	SeqNo: 121607						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.82	0.101	2.02	0	90.1	90	110	0	0	0	
Sulfate	1.983	0.101	2.02	0.021	97.1	90	109	0	0	0	

Sample ID: 0611009-001AMS	SampType: MS	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061115A						
Client ID: Section 11 NW to SE	Batch ID: R8698	TestNo: E300		Analysis Date: 11/15/2006	SeqNo: 121613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	46.98	2.00	40.4	10.14	91.2	80	117	0	0	0	
Sulfate	115.1	2.00	40.4	74.48	101	90	112	0	0	0	

Sample ID: 0611009-001AD	SampType: DUP	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061115A						
Client ID: Section 11 NW to SE	Batch ID: R8698	TestNo: E300		Analysis Date: 11/15/2006	SeqNo: 121612						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.64	2.00	0	0	0	0	0	10.14	5.06	12	
Sulfate	74.28	2.00	0	0	0	0	0	74.48	0.269	10.5	

EXHIBIT 1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
Page 1 of 9

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_CATIONS

CLIENT: Permits West
 Work Order: 0611009
 Project: Section 11

Sample ID: MB_061109B	SampType: MBLK	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061109B						
Client ID: ZZZZZ	Batch ID: R8673	TestNo: SW6010B		Analysis Date: 11/9/2006	SeqNo: 121298						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	< 0.0210	0.0210									
Magnesium	< 0.0100	0.0100									
Calcium	< 0.0490	0.0490									
Sodium	< 0.0800	0.0800									
Potassium	< 0.0400	0.0400									

Sample ID: MB2_061110A	SampType: MBLK	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061110A						
Client ID: ZZZZZ	Batch ID: R8672	TestNo: SW6010B		Analysis Date: 11/10/2006	SeqNo: 121337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	0.01121	0.0490									
Sodium	< 0.0800	0.0800									

Sample ID: LCS_061109B	SampType: LCS	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061109B						
Client ID: ZZZZZ	Batch ID: R8673	TestNo: SW6010B		Analysis Date: 11/9/2006	SeqNo: 121299						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	5.094	0.0210	5	0	102	75	125	0	0		
Magnesium	4.871	0.0100	5	0	97.4	75	125	0	0		
Calcium	4.593	0.0490	5	0	91.9	75	125	0	0		
Sodium	4.994	0.0800	5	0	99.9	75	125	0	0		
Potassium	4.904	0.0400	5	0	98.1	75	125	0	0		

Sample ID: LCS2_061110A	SampType: LCS	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061110A						
Client ID: ZZZZZ	Batch ID: R8672	TestNo: SW6010B		Analysis Date: 11/10/2006	SeqNo: 121338						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	4.74	0.0490	5	0.01121	94.6	75	125	0	0		
Sodium	4.88	0.0800	5	0	97.6	75	125	0	0		

EXHIBIT A

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits

CLIENT: Permits West
 Work Order: 0611009
 Project: Section 11

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_CATIONS

Sample ID: LCSD_061109B	SampType: LCSD	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061109B						
Client ID: ZZZZZ	Batch ID: R8673	TestNo: SW6010B		Analysis Date: 11/9/2006	SeqNo: 121300						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	5.038	0.0210	5	0	101	75	125	5.094	1.11	20	
Magnesium	4.826	0.0100	5	0	96.5	75	125	4.871	0.928	20	
Calcium	4.573	0.0490	5	0	91.5	75	125	4.593	0.443	20	
Sodium	4.955	0.0800	5	0	99.1	75	125	4.994	0.787	20	
Potassium	4.878	0.0400	5	0	97.6	75	125	4.904	0.535	20	

Sample ID: LCSD2_061110A	SampType: LCSD	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061110A						
Client ID: ZZZZZ	Batch ID: R8672	TestNo: SW6010B		Analysis Date: 11/10/2006	SeqNo: 121339						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	4.631	0.0490	5	0.01121	92.4	75	125	4.74	2.33	20	
Sodium	4.722	0.0800	5	0	94.4	75	125	4.88	3.29	20	

Sample ID: 0611008-001AMS	SampType: MS	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061109B						
Client ID: ZZZZZ	Batch ID: R8673	TestNo: SW6010B		Analysis Date: 11/9/2006	SeqNo: 121305						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1119	2.10	500	607.5	102	75	125	0	0		
Magnesium	561.1	1.00	500	74.65	97.3	75	125	0	0		
Calcium	1021	4.90	500	547.4	94.7	75	125	0	0		
Sodium	1008	8.00	500	501	101	75	125	0	0		
Potassium	520.5	4.00	500	30.99	97.9	75	125	0	0		

Sample ID: 0611008-001AMSD	SampType: MSD	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061109B						
Client ID: ZZZZZ	Batch ID: R8673	TestNo: SW6010B		Analysis Date: 11/9/2006	SeqNo: 121306						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1117	2.10	500	607.5	102	75	125	1119	0.221	20	
Magnesium	562.2	1.00	500	74.65	97.5	75	125	561.1	0.189	20	
Calcium	1014	4.90	500	547.4	93.3	75	125	1021	0.669	20	
Sodium	1003	8.00	500	501	100	75	125	1008	0.511	20	

EXHIBIT 1

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0611009
Project: Section 11

TestCode: ALK_W

Sample ID: LCS_061108H	SampType: LCS	TestCode: ALK_W	Units: mg/L CaCO3	Prep Date:	Run ID: WET CHEM_061108H						
Client ID: ZZZZ	Batch ID: R8666	TestNo: M2320 B		Analysis Date: 11/8/2006	SeqNo: 121212						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	451	5.0	459.2	0	98.2	80	120	0	0	0	

Sample ID: 0611007-001AD	SampType: DUP	TestCode: ALK_W	Units: mg/L CaCO3	Prep Date:	Run ID: WET CHEM_061108H						
Client ID: ZZZZ	Batch ID: R8666	TestNo: M2320 B		Analysis Date: 11/8/2006	SeqNo: 121223						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1501	5.0	0	0	0	0	0	1474	1.82	20	
Alkalinity, Carbonate (As CaCO3)	40	5.0	0	0	0	0	0	48	18.2	20	
Alkalinity, Hydroxide	ND	5.0	0	0	0	0	0	0	0	20	
Alkalinity, Total (As CaCO3)	1541	5.0	0	0	0	0	0	1522	1.24	20	

EXHIBIT A

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0611009
Project: Section 11

TestCode: PH_W

Sample ID: LCS_061108C	SampType: LCS	TestCode: PH_W	Units: pH units	Prep Date:	Run ID: WET CHEM_061108C					
Client ID: ZZZZ	Batch ID: R8659	TestNo: E150.1		Analysis Date: 11/8/2006	SeqNo: 121176					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.29	1.00	7.38	98.8	98	102	0	0	0	0

Sample ID: 0611009-001AD	SampType: DUP	TestCode: PH_W	Units: pH units	Prep Date:	Run ID: WET CHEM_061108C					
Client ID: Section 11 NW to SE	Batch ID: R8659	TestNo: E150.1		Analysis Date: 11/8/2006	SeqNo: 121179					
Analyte	Result	PQL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.967	1.00	0	0	0	0	7.925	0.529	2	0
Temperature	20.5	0	0	0	0	0	20.3	0.980	0	0

EXHIBIT 1

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0611009
Project: Section 11

TestCode: RES_W

Sample ID: LCS_061108B	Samp Type: LCS	TestCode: RES_W	Units: ohm-m	Prep Date:	Run ID: WET CHEM_061108B						
Client ID: ZZZZ	Batch ID: R8658	TestNo: M2510 C		Analysis Date: 11/8/2006	SeqNo: 121172						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Resistivity	10	0.00100	10.02	0	99.8	90	110	0	0	0	0

Sample ID: 0611009-001AD	Samp Type: DUP	TestCode: RES_W	Units: ohm-m	Prep Date:	Run ID: WET CHEM_061108B						
Client ID: Section 11 NW to SE	Batch ID: R8658	TestNo: M2510 C		Analysis Date: 11/8/2006	SeqNo: 121174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Resistivity	18.83	0.00100	0	0	0	0	0	18.9	0.371	10	

EXHIBIT 4

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0611009
Project: Section 11

TestCode: SPGR_W

Sample ID: LCS_061108A	SampType: LCS	TestCode: SPGR_W	Units: Units	Prep Date:	Run ID: WET CHEM_061108A						
Client ID: ZZZZZ	Batch ID: R8657	TestNo: M2710 F		Analysis Date: 11/8/2006	SeqNo: 121168						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Gravity	1	0.001000	1	0	100	80	120	0	0	0	

Sample ID: 0611009-001AD	SampType: DUP	TestCode: SPGR_W	Units: Units	Prep Date:	Run ID: WET CHEM_061108A						
Client ID: Section 11 NW to SE	Batch ID: R8657	TestNo: M2710 F		Analysis Date: 11/8/2006	SeqNo: 121170						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Gravity	1.001	0.001000	0	0	0	0	0	1.001	0	0	15

EXHIBIT 1

Qualifiers: ND - Not Detected at the Reporting Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits
 Page 8 of 9

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0611009
Project: Section 11

TestCode: TDS_W

Sample ID: MBLK_061113C	SampType: MBLK	TestCode: TDS_W	Units: mg/L	Prep Date:	Run ID: WET CHEM_061113C
Client ID: ZZZZZ	Batch ID: R8704	TestNo: E160.1		Analysis Date: 11/13/2006	SeqNo: 121686
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	25.0			
Total Dissolved Solids (Residue, Filtera)					

Sample ID: LCS_061113C	SampType: LCS	TestCode: TDS_W	Units: mg/L	Prep Date:	Run ID: WET CHEM_061113C
Client ID: ZZZZZ	Batch ID: R8704	TestNo: E160.1		Analysis Date: 11/13/2006	SeqNo: 121687
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	1153	25.0	1170	0	98.5
Total Dissolved Solids (Residue, Filtera)					

Sample ID: 0611014-005AD	SampType: DUP	TestCode: TDS_W	Units: mg/L	Prep Date:	Run ID: WET CHEM_061113C
Client ID: ZZZZZ	Batch ID: R8704	TestNo: E160.1		Analysis Date: 11/13/2006	SeqNo: 121694
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	908	25.0	0	0	0
Total Dissolved Solids (Residue, Filtera)					

Sample ID: 0611009-007AD	SampType: DUP	TestCode: TDS_W	Units: mg/L	Prep Date:	Run ID: WET CHEM_061113C
Client ID: Section 11 NW to SE	Batch ID: R8704	TestNo: E160.1		Analysis Date: 11/13/2006	SeqNo: 121697
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	334	25.0	0	0	0
Total Dissolved Solids (Residue, Filtera)					

EXHIBIT

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 Page 9 of 9

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Sample Receipt Checklist

Client Name: PW1001

Date and Time Received: 11/8/2006 9:40:00 AM

Work Order Number: 0611009

Received by: jem

Checklist completed by: [Signature] 11/8/06 [Date]

Reviewed by: [Initials] [Date]

Matrix:

Carrier name: Charles Black

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [] No [checked]
Water - VOA vials have zero headspace? No VOA vials submitted [checked] Yes [] No []
Water - pH acceptable upon receipt? Yes [checked] No []

Adjusted? _____ Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: Sample in cooler not on ice. Sample received within 1 hr of sampling event

Corrective Action: _____

EXHIBIT 1

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

December 1, 2006

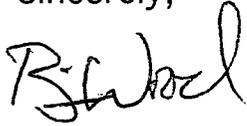
Baseline Minerals Inc.
 1645 Court Place, Suite 422
 Denver, CO 80202

Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD #11 water disposal well. 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.

Well Name: Tsah Tah SWD #11 Total Depth: ≈4,500'
Proposed Disposal Zone: Point Lookout (from ≈4,100' to ≈4,250')
Location: 970' FSL & 1510' FWL Sec. 11, T. 24 N., R. 10 W.,
 San Juan County, NM on BLM lease NMNM-112955
Approximate Location: ≈27 air miles south of Bloomfield, NM
Applicant Name: Rosetta Resources Operating LP (720) 359-9144
Applicant's Address: 1200 17th St., Suite 770, Denver, CO 80202

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

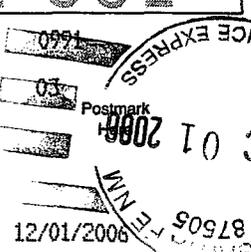
U.S. Postal Service™		CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only. No Insurance Coverage Provided)</i>			
For delivery information visit our website at www.usps.com			
DENVER CO 80202		OFFICIAL USE	
Postage	\$ 1.59		
Certified Fee	\$ 2.40		
Return Receipt Fee (Endorsement Required)	\$ 1.85		
Restricted Delivery Fee (Endorsement Required)	\$ 0.00		
Total Postage & Fees	\$ 5.84		
Sent To		Baseline	
Street, Apt. No., or PO Box No.		1645 Court Pl #422	
City, State, ZIP+4		Denver 80202	

EXHIBIT J

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

December 1, 2006

BLM
 1235 LaPlata Highway
 Farmington, NM 87401

Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD #11 water disposal well. 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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Proposed Disposal Zone: Point Lookout (from ≈4,100' to ≈4,250')
Location: 970' FSL & 1510' FWL Sec. 11, T. 24 N., R. 10 W.,
 San Juan County, NM on BLM lease NMNM-112955
Approximate Location: ≈27 air miles south of Bloomfield, NM
Applicant Name: Rosetta Resources Operating LP (720) 359-9144
Applicant's Address: 1200 17th St., Suite 770, Denver, CO 80202

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
 Brian Wood

U.S. Postal Service™		
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For delivery information visit our website at www.usps.com		
OFFICIAL USE		
Postage	\$ 4.05	0991
Certified Fee	\$2.40	03
Return Receipt Fee (Endorsement Required)	\$1.85	Postmark
Restricted Delivery Fee (Endorsement Required)	\$0.00	OFFICE EXPRESS
Total Postage & Fees	\$ 8.30	12/01/2006
Sent To	BLM	
Street, Apt. No., or PO Box No.	1235 LaPlata	
City, State, ZIP+4	Farmington 87401	
PS Form 3800, June 2002 See Reverse for Instructions		

EXHIBIT

PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87508

(505) 466-8120

December 1, 2006

Mike Hanson
Coleman Oil & Gas Inc.
P. O. Drawer 3337
Farmington, NM 87499-3337

Dear Mike,

Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD #11 water disposal well. 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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San Juan County, NM on BLM lease NMNM-112955
Approximate Location: ≈27 air miles south of Bloomfield, NM
Applicant Name: Rosetta Resources Operating LP (720) 359-9144
Applicant's Address: 1200 17th St., Suite 770, Denver, CO 80202

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,



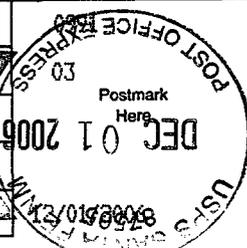
Brian Wood

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FARMINGTON, NM 87499

Postage	\$	1.59
Certified Fee		2.40
Return Receipt Fee (Endorsement Required)		1.95
Restricted Delivery Fee (Endorsement Required)		0.00
Total Postage & Fees	\$	5.94



Sent To

Coleman

Street, Apt. No.,
or PO Box No.

PO 3337

City, State, ZIP+4

Farmington 87499

EXHIBIT J

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

December 1, 2006

North American Petro. Corp. USA
 16191 Highway 40
 Folsom, LA 70437

Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD #11 water disposal well. 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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Approximate Location: ≈27 air miles south of Bloomfield, NM
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Please call me if you have any questions.

Sincerely,

 Brian Wood

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For delivery information visit our website at www.usps.com

FOLSOM LA 70437

Postage	\$	\$1.59
Certified Fee		\$2.40
Return Receipt Fee (Endorsement Required)		\$1.85
Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$5.84

Postmark Here: DEC 01 2006

Sent To: N. Amer. Petro
 Street, Apt. No. or PO Box No.: 16191 Hwy 40
 City, State, ZIP+4: Folsom LA 70437

EXHIBIT J

Injection Permit Checklist 12/7/06

SWD Order Number 1063 Dates: Division Approved _____ District Approved _____

Well Name/Num: ISAH TAH SWD #11 Date Spudded: New

API Num: (30-) 045- County: SAN JUAN

Footages 970 FSL/1510 FWL Sec 11 Tsp 24N Rge 10W

Operator Name: Rosetta Resources Orlady LP Contact Brian Wood (ogel Pointe wellsite)

Operator Address: 1200 17th St SUITE 710 Denver, CO 80202

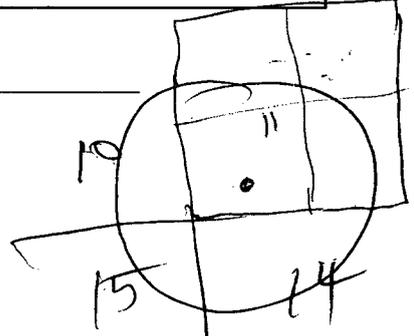
Current Status of Well: New Well Planned Work: Drill For IWT Inj. Tubing Size: 2 7/8"

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	<u>12 1/4 8 5/8</u>	<u>200'</u>	<u>140 SX</u>	<u>SIRC</u>
Intermediate				
Production	<u>7 7/8 5 1/2</u>	<u>4500'</u>	<u>800 SX</u>	<u>CIRC</u>
Last DV Tool				
Open Hole/Liner				
Plug Back Depth				

Diagrams Included (Y/N): Before Conversion After Conversion

Checks (Y/N): Well File Reviewed _____ ELogs in Imaging _____

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash	<u>1386</u>	<u>FRC</u>	
Capitan Reef	<u>1636</u>	<u>P.C.</u>	
<u>Cliff House</u>	<u>2411</u>	<u>CLIFF HOUSE</u>	
Formation Above	<u>2986</u>	<u>Menafee</u>	
Top Inj Interval	<u>4100</u>	<u>POINTLOOKER</u>	<u>450</u>
Bottom Inj Interval	<u>4250'</u>	<u>11"</u>	<u>NO</u>
Formation Below	<u>5186'</u>	<u>Gallup</u>	



820 PSI Max. WHIP
NO Open Hole (Y/N)
NO Deviated Hole (Y/N)

Fresh Water: Exists (Y/N) Yes Wells (Y/N) Yes Analysis Included (Y/N): NO Affirmative Statement

Salt Water Analysis: Injection Zone (Y/N/NA) NO DispWaters (Y/N/NA) Yes Types: FRC

Notice: Newspaper (Y/N) Surface Owner BLM Mineral Owner(s) BLM

Other Affected Parties: Rosetta Yozzie, Paulie, Colan, EOG, NA Petro, Quanta

AOR/Repairs: NumActiveWells 0 Repairs? _____ Producing in Injection Interval in AOR _____

AOR Num of P&A Wells 0 Repairs? _____ Diagrams Included? _____

Required Work to this Well: _____

Well Table Adequate (Y/N) AOR STRs: Sec 11 Tsp 24 Rge 10 RBDMS Updated (Y/N) 12/10/06

New AOR Table Filename _____ Sec _____ Tsp _____ Rge _____ UIC Form Completed (Y/N)

Conditions of Approval: Sec _____ Tsp _____ Rge _____ This Form completed 12/11/06

all opt to run open hole poss. L&S
(Get API)

Data Request Sent _____

Inactive Well List

Total Well Count:22 Inactive Well Count:0 Since:9/17/2005

Printed On: Monday, December 11 2006

District API Well ULSTR OCD Unit OGRID Operator Lease Type Well Type Last Production Formation/Notes Status Days in TA

WHERE Ogrid:239235, County:All, District:All, Township:All, Range:All, Section:All, Production(months):15

AFFIDAVIT OF PUBLICATION

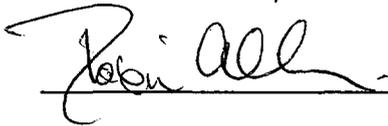
Ad No. 54160

**STATE OF NEW MEXICO
County of San Juan:**

ROBIN ALLISON, 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):

Wednesday, November 01, 2006

And the cost of the publication is \$44.95.



ON 11-3-2006 ROBIN ALLISON
appeared before me, whom I know personally
to be the person who signed the above
document.


My Commission Expires
August 30, 2010

COPY OF PUBLICATION

Rosetta Resources Oper
ating LP is applying to
drill the Tsch Tah SWD
11 as a water disposal
well. The Tsch Tah SWD
11 will be located at
970' FSL 8' 1510' FWL
SEC. 11 T. 23 N. R. 10
W. San Juan County,
NM. The well will dis
pose of water produced
from oil and gas wells
into the Point Lookout
sandstone at a depth of
4,100' to 4,250' at a
maximum rate of 2,000
barrels of water per day
and a maximum rate of
2,000 barrels of water
per day and at a maxi
mum pressure of 820
psi. Interested parties
must file objections or
requests for hearing
with the NM Oil Conser
vation Division, 1220
South Saint Francis Dr,
Santa Fe, NM 87505
within 15 days. Addition
al 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. 54160, pub
lished in The Daily
Times, Farmington, New
Mexico on Wednesday,
October 01, 2006.

EXHIBIT K

