



SUSPENSE

ENGINEER

LOCATION

TYPE

APPROV

B. Jane. W. Jones

18 June 07

SWD

PLP 0716941098

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

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

Rosetta S
Tsaah Taa SWD #1

RECEIVED

JUN 18 2007

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

[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

Signature

Title

Date

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

Brian Wood

CONSULTANT

6-15-07

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? XXX 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 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: JUNE 15, 2007
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

OPERATOR: ROSETTA RESOURCES OPERATING LP

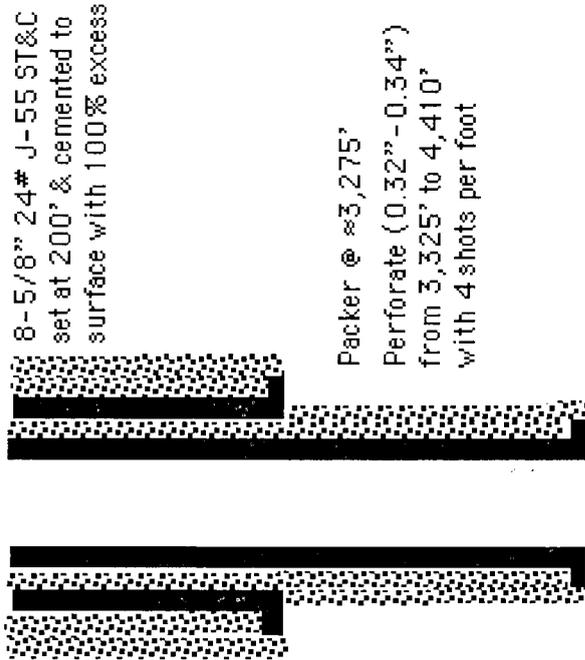
WELL NAME & NUMBER: TSAH TAH SWD #1

WELL LOCATION: 1200' FNL & 1511' FEL
FOOTAGE LOCATION

B UNIT LETTER 1 SECTION 24 N TOWNSHIP 10 W RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA
Surface Casing



Hole Size: 12-1/4"

Cemented with: 140 sacks

Top of Cement: SURFACE

Hole Size: _____

Cemented with: _____ sacks

Top of Cement: _____

Hole Size: 7-7/8"

Cemented with: 820 sacks

Top of Cement: SURFACE

Total Depth: 4,600'

Casing Size: 8-5/8" 24# J-55 ST&C

or 165 ft³

Method Determine: VISUAL

Intermediate Casing

Casing Size: _____

or _____ ft³

Method Determined: _____

Production Casing

Casing Size: 5-1/2" 15.5# J-55 ST&C

or 1,600 ft³

Method Determine: VISUAL

Injection Interval

From ≈3,325 feet To ≈4,410 feet

(Perforated or Open Hole; indicate which)

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? XXX Yes No

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

2. Name of the Injection Formation: MENEFEE & POINT LOOKOUT

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. _____

NOT YET DRILLED

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

OVER: FRUITLAND (1,660') & PICTURED CLIFFS (1,710')

UNDER: GALLUP (5,225') & DAKOTA (6,300')

ROSETTA RESOURCES OPERATING LP
TSAH TAH SWD #1
1200' FNL & 1511' FEL
SEC. 1, T. 24 N., R. 10 W.
SAN JUAN COUNTY, NM

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MENEFEE &
POINT LOOKOUT

I. Purpose is water disposal into the Menefee and Point Lookout zones.

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: 191'
Well Name & Number: Tsah Tah SWD #1 (API # 30-045-34282)
Well Location: 1200' FNL and 1511' FEL Sec. 1, 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 $\geq 200'$ in a 12-1/4" hole. Surface casing will be cemented to the surface with ≈ 165 cubic feet (≈ 140 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.6 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter. Thread lock the guide shoe and bottom of float collar only. Will use API casing dope.

Production casing (5-1/2", 15.5#, J-55, S T & C) will be at $\approx 4,600'$ in a 7-7/8" hole. Production casing will be cemented to the surface

with $\approx 1,600$ cubic feet and ≈ 10 centralizers will be used. Volume = 100% excess. Lead with $\approx 1,482$ cubic feet (≈ 720 sacks) Class B with 2% SMS + 1/4 pound per sack cellophane + 5 pounds per sack gilsonite. Lead 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.

- A. (3) Tubing will be 2-7/8" 6.5# J-55 plastic lined injection string. It will be set at $\approx 3,275'$ (disposal interval will be $\approx 3,325'$ to $\approx 4,410'$).
- 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 $\approx 3,275'$ which will be $\approx 50'$ above the top perforation of $\approx 3,325'$.
- B. (1) Disposal zones will be the Menefee and Point Lookout sandstones. Both zones are in 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 $\approx 3,325'$ to $\approx 4,410'$ (well logs will determine exact interval after drilling). It will be perforated (0.32" or 0.34") with two to four shots per foot.
- B. (3) Well has not yet been drilled. It will be for Rosetta's exclusive use and for the sole purpose of water disposal from present and future Rosetta wells. Water analyses from three Rosetta Basin Fruitland coal gas wells within a four mile radius are attached.
- B. (4) Well bore has not yet been perforated since the well has not yet been drilled. It will be perforated from $\approx 3,325'$ to $\approx 4,410'$ (logs will determine exact interval after drilling).
- B. (5) Top of the Menefee is predicted to be at $\approx 3,295'$. Bottom of the Menefee is at $\approx 4,185'$. Bottom of the closest potentially productive zone (Pictured Cliffs) is at $\approx 1,810'$. There will be a

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 POINT LOOKOUT

≈1,515' interval between the bottom of the Pictured Cliffs and the highest Menefee injection perforation. Top of the closest underlying potentially productive zone (Gallup) is at ≈5,225'. There will be a ≈1,040' interval between the bottom of the Menefee and the top of the Gallup. Within this ≈1,040' interval is the Point Lookout zone. The Point Lookout is currently being used for water disposal in the Sanchez O'Brien #1 which is 3,847' southeast and the Tsah Tah SWD #36 which is 5,263' northwest. Oil is being produced elsewhere in the San Juan Basin from the Menefee (≈37 miles south in 18-18n-10w at the Seven Lakes Menefee Field). Closest plugged Menefee well is ≈26 miles south in 30-20n-9w (wildcat with no production).

Top of the Point Lookout is predicted to be at ≈4,185'. Bottom of the Point Lookout is at ≈4,510'. Oil has been produced elsewhere in the San Juan Basin from the Point Lookout (≈32 miles east-southeast in 32-23n-4w at the Otero Point Lookout Field). Bottom of the closest potentially productive zone (Pictured Cliffs) is at ≈1,810'. There will be a ≈2,375' interval between the bottom of the Pictured Cliffs and the highest Point Lookout injection perforation. Top of the closest underlying actual productive zone (Gallup) is at ≈5,225'. There will be a ≈815' interval between the lowest Point Lookout injection perforation and the top of the Gallup.

IV. This is not an expansion of an existing injection project. It is an expansion (third well) of an existing water disposal project.

V. A map and diagram (Exhibits B) showing the one existing well (Rosetta's Tsah Tah 1 #2) within a half mile is attached. A map (Exhibit C) showing all 64 wells (34 P & A + 22 oil or gas producers + 6 water + 2 water disposal) within a two mile radius is attached. Details on the one well within a half mile are:

<u>WELL</u>	<u>API #</u>	<u>T. 24 N., R. 10 W.</u>	<u>ZONE</u>	<u>TD</u>	<u>DISTANCE</u>
Tsah Tah 1 #2	30-045-34134	SWNW Sec. 1	Fruitland coal	1935'	2,602'

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

<u>AREA</u>	<u>LESSOR</u>	<u>LEASE #</u>	<u>LESSEE(S)</u>
31-25n-9w	BLM	NMNM-16759	BP & McHugh
6-24n-9w	BLM	NMNM-97108	Dugan
W2NE4, NW4, & S2 1-24n-10w	BLM	NMNM-112955	Rosetta
E2NE4 1-24n-10w	BLM	NMNM-118138	Rosetta
NESE 36-25n-10w	NMSLO	EO-3148-0010	Rosetta & Speer
SESW & NWSE 36-25n-10w	NMSLO	EO-6644-0021	Rosetta & Kaiser-Francis
S2SE4 36-25n-10w	NMSLO	VO-6298-0000	Rosetta & Yates

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).

VI. The one well which is within a 1/2 mile radius does not penetrate the proposed injection zones. That well (Rosetta's Tsah Tah 1 #2) has a total depth of 1,935'. There will be a \approx 1,390' interval between the bottom of that gas well and the highest proposed perforation (\approx 3,325').

- VII. 1. Average injection rate will be \approx 2,000 bwpd.
 Maximum injection rate will be \approx 3,000 bwpd.
2. System is closed. (Rosetta laid water pipelines with its gas pipelines). Facilities will include a tank battery with skimmer and settling tanks, filters, meter, and an injection pump.
3. Average injection pressure will be \approx 650 psi
 Maximum injection pressure will be \approx 665 psi (\leq 0.2 psi x depth of top perforation)
4. Water source will be existing and future Rosetta wells in the San Juan Basin. Rosetta had 29 approved gas wells in Townships 24 and 25 North, Range 10 West as of June 15, 2007. Seventeen of the 29 have been drilled. All gas wells are or will be Fruitland coal gas with a maximum TD of \approx 1,900'. The closest (332') is the proposed Tsah Tah 1 #1.

Water analyses from the La Ventana Cliff House, Menefee, and Point Lookout (Exhibit F) are attached. Three produced water analyses from the Basin Fruitland coal (Exhibit G) are also attached. A summary follows. All are Rosetta Tsah Tah wells. (The La Ventana is included for background data. There are no plans to dispose into it at this time.)

Well:	2-4	33-2	34-4	SWD 11	SWD 11	SWD 11
Where:	2-24n-10w	33-25n-10w	34-25n-10w	11-24n-11w	11-24n-11w	11-24n-11w
What Zone:	Fruitland	Fruitland	Fruitland	La Ventana	Menefee	Pt. Lookout
<u>Parameter</u>						
Barium	2.44	3.19	2.26	No	Analysis	Run
Bicarbonate	518.5	786.9	549.0	486	725	483
Calcium	800	400	960	56	63	40
Chloride	19,000	18,000	16,000	9,552	14,653	13,465
Iron	27.62	46.22	21.77	0.10	0.16	0.46
Magnesium	344.04	245.22	149.33	48	77	77
pH	7.3	6.8	7.0	8.5	9.0	10.0
Sodium	10,906	10,980	9,166	6,240	9,586	8,752
Sulfate	zero	zero	2.0	23	32	97
TDS	31,599	30,462	26,851	16,443	25,149	22,953

5. Neither the Menefee nor Point Lookout have been found to be productive within two miles of the well.

Oil is being produced elsewhere in the San Juan Basin from the Menefee (≈37 miles south at the Seven Lakes Menefee Field). Closest plugged Menefee well is 26 miles south in 30-20n-9w (a wildcat with no production).

Oil has been produced elsewhere in the San Juan Basin from the Point Lookout (≈32 miles east-southeast at the Otero Point Lookout Field).

Stone et al in Hydrogeology and water resources of San Juan Basin, New Mexico wrote that fluoride concentrations in Menefee wells near the Chaco River exceed safe drinking water limits. Stone also wrote, "The Point Lookout Sandstone is not widely used as a source of water". Analyses of the Menefee and Point Lookout are summarized in the above table.

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VIII. The Menefee Formation consists of Late Cretaceous claystone, coal, siltstone, shale, and sandstone. The Formation is $\approx 890'$ thick in this well. Top is at $\approx 3,295'$. Bottom is at $\approx 4,185'$.

The Point Lookout is a very fine to medium grained coastal marine sandstone. It is estimated to be $\approx 325'$ thick in the well bore. Top is $\approx 4,185'$ and bottom is $\approx 4,510'$.

Formation tops in this well are estimated to be at:

Nacimiento: 0'
Ojo Alamo Sandstone: 820'
Kirtland Shale: 910'
Fruitland Coal: 1,660'
Pictured Cliffs Sandstone: 1,710'
Lewis Shale: 1,810'
Cliff House Sandstone: 2,180'
La Ventana: 2,580'
Menefee: 3,295'
Point Lookout Sandstone: 4,185'
Mancos Shale: 4,510'
Total Depth: 4,600'

There are three water wells within a one mile radius. Two are at a mission and $\approx 4,500'$ away in the NENE Section 12. One Mission well is shut-in, but a sample was able to be collected at the second well. Mission director Duane Bristow said the wells are $\approx 850'$ deep. A third well is a plugged back (to 1,100') oil well which is used for oil field water supply by Dugan. There are six water wells within a two mile radius. All six water wells are believed to be above the Menefee. Likely aquifers are the Nacimiento and Ojo Alamo. From close to far, the five water wells are:

Mission wells ≈ 0.9 miles SSE in NENE Sec. 12
Dugan well ≈ 0.98 miles SE in NWNW Section 7
stock well ≈ 1.4 miles SW in NESW Section 12
well ≈ 1.8 miles SE in NWSE Section 7
stock well ≈ 1.85 miles SW in NWSE Section 11

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No existing underground drinking water sources are below the Menefee and Point Lookout within a two mile radius. There will be $\approx 2,195'$ of vertical separation between the bottom of the deepest water well (Dugan) within two miles and the top of the Menefee.

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

X. IES Gamma Ray Density logs will be run and copies will be provided to the NMOCD.

XI. There are two $\approx 850'$ deep water wells within a one mile radius. They are ≈ 0.9 mile south at the mission in the NENE of Section 12. A water analysis from the one well available for sampling is attached as Exhibit H. (Rosetta has a signed agreement with the Mission to drill 3 gas wells on their property.) A third water well is an 1,100' deep Dugan water supply well in NWNW Section 7. Its analysis is also in Exhibit H.

XII. Rosetta is not aware of any geologic or engineering data which may indicate the Menefee or Point Lookout is in hydrologic connection with any underground sources of water. There will be $\approx 2,195'$ of vertical separation between the top ($\approx 3,295'$) of the Menefee and the bottom (1,100') of the deepest water well within two miles. This interval includes at least two shale zones (Lewis and the Menefee).

XIII. Notice (this application) has been sent (Exhibit I) to the surface owner (BLM), operators of all wells (Rosetta), and lessees or lease operating right holders (BP, Dugan, Kaiser-Francis, McHugh, Speer, and Yates), and lessors (BLM and NM State Land Office) within a half mile. Legal ads (see Exhibit J) were published on November 15, 2006 and April 18, 2007.

State of New Mexico
 Energy, Minerals & Mining Resources Department
 OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

Form C - 102

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

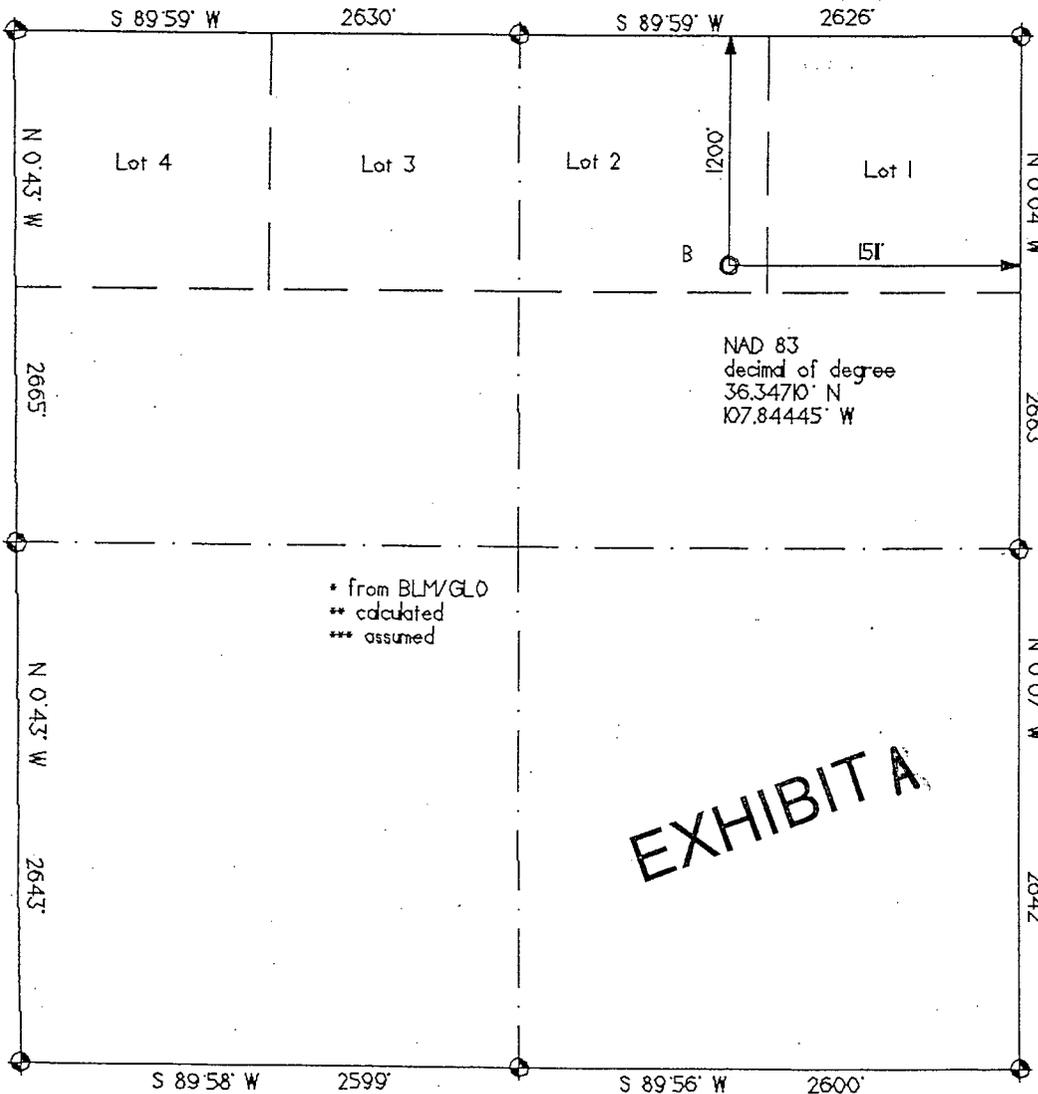
APA Number 30-045-	Pool Code 96160	Pool Name SWD; MESA VERDE
Property Code .	Property Name TSAH TAH SWD	Well Number .
GRID No. 239235	Operator Name . ROSETTA RESOURCES OPERATING, L.P.	Elevation 6810'

Surface Location									
UL or Lot	Sec.	Twp.	Rge.	Lot kh.	Feet from >	North/South	Feet from >	East/West	County
B	1	24 N.	10 W.		1200'	NORTH	151'	EAST	SAN JUAN

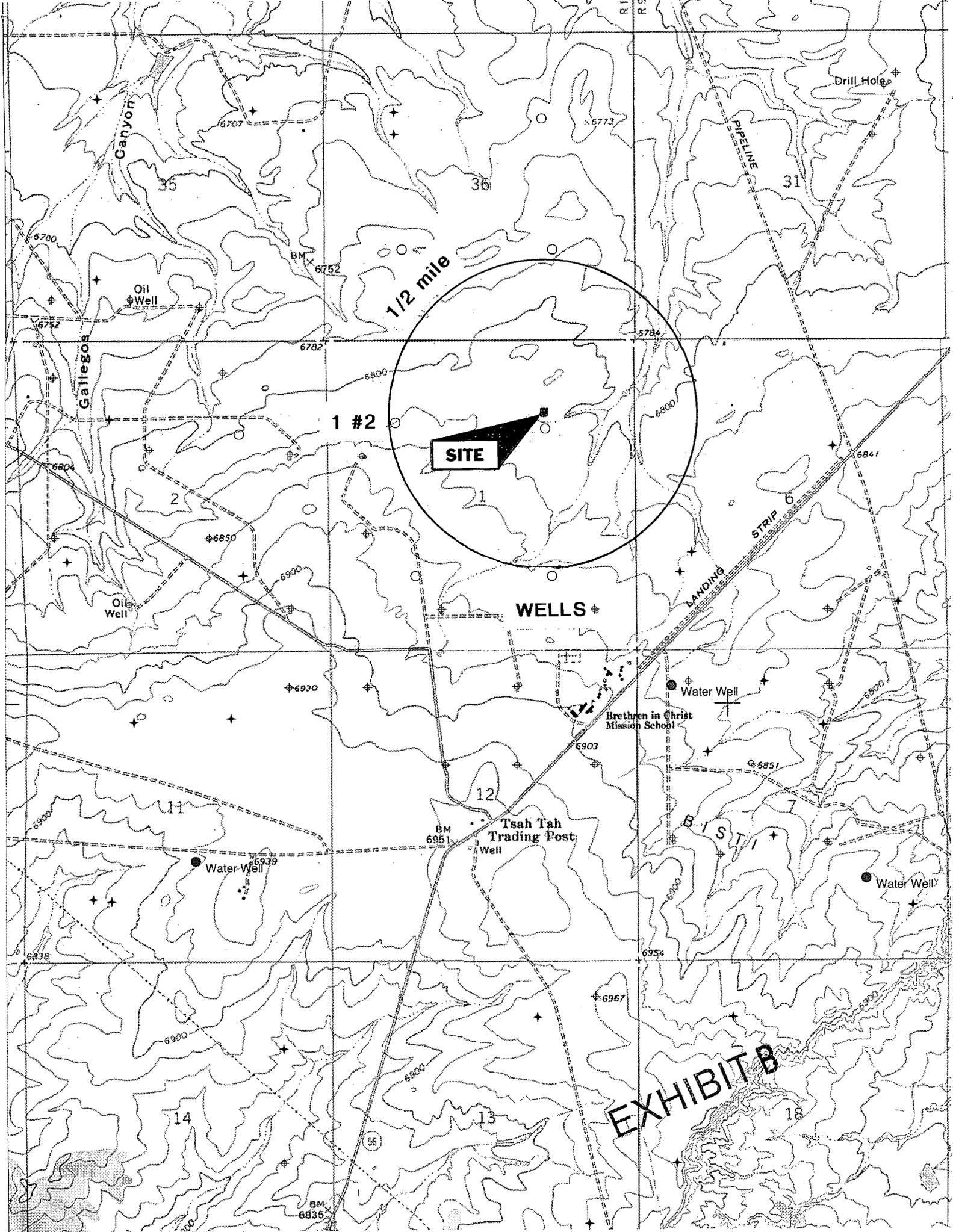
Bottom Hole Location If Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot kh.	Feet from >	North/South	Feet from >	East/West	County

Dedication .	Joint ? .	Consolidation .	Order No. .
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NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
 OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature	<i>Brian Wood</i>
Printed Name	BRIAN WOOD
Title	CONSULTANT
Date	APR. 15, 2007
SURVEYOR CERTIFICATION	
I hereby certify that the well location 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.	
Date of Survey	09/28/06
Signature and Seal of Professional Surveyor	



1/2 mile

SITE

1 #2

WELLS

Brethren in Christ
Mission School

Tsah Tah
Trading Post

EXHIBIT B

TSAH TAH 1 #2

API# 30-045-34134

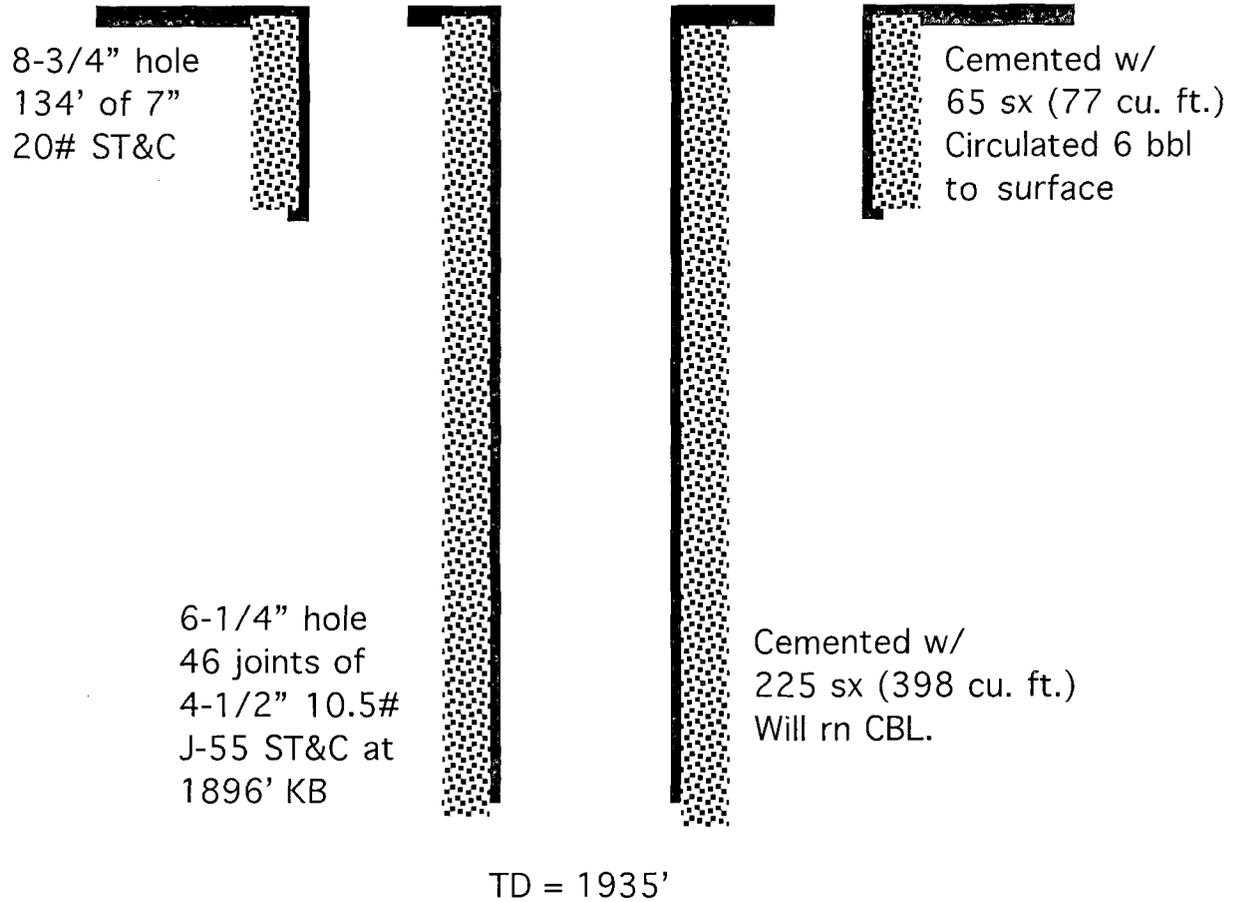
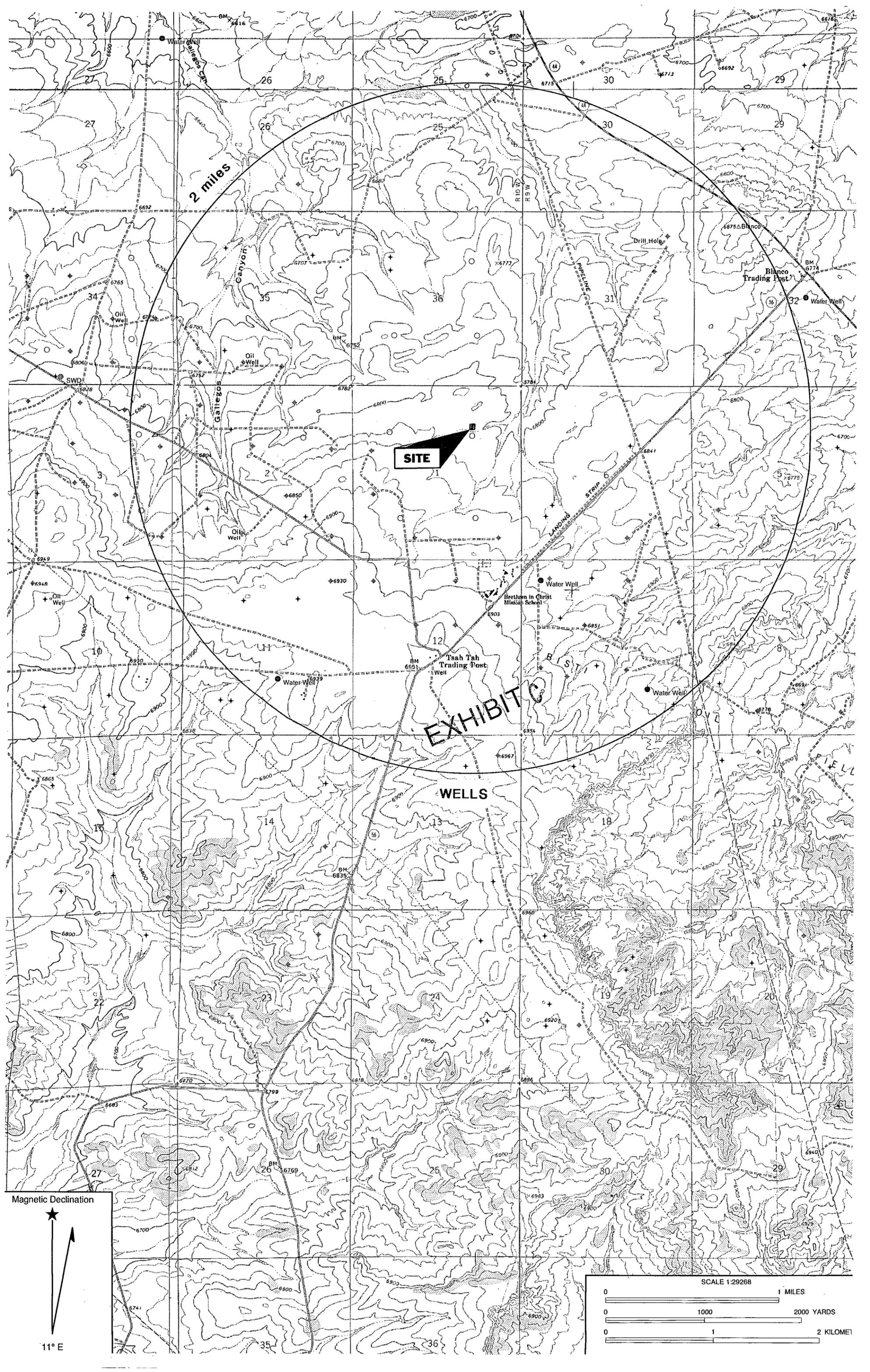


EXHIBIT B

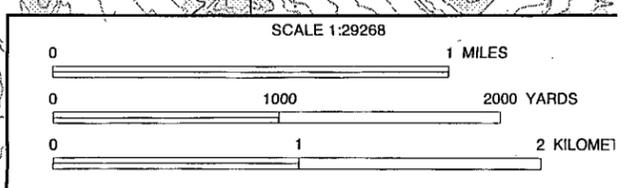


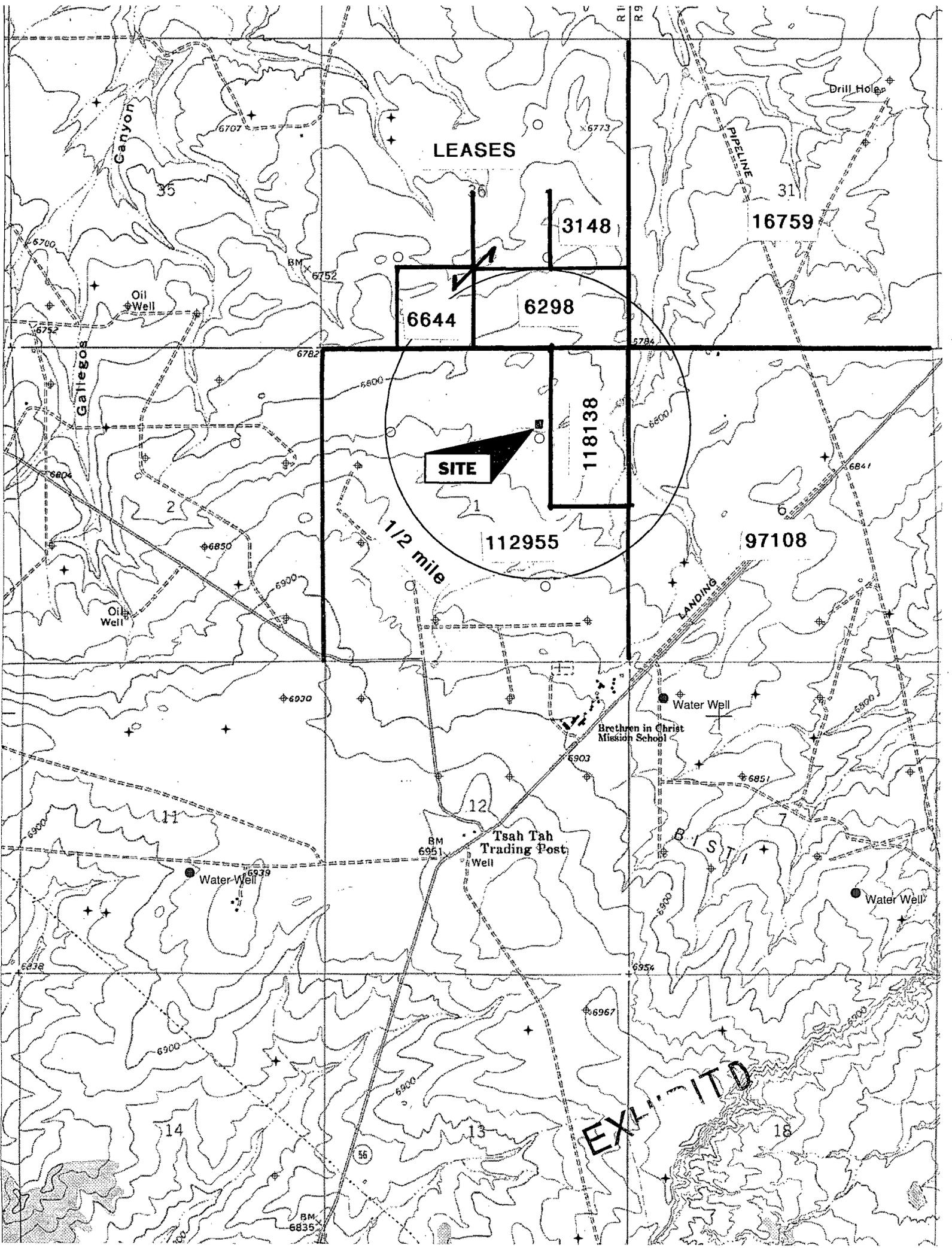
2 miles

SITE

EXHIBIT C

WELLS





LEASES

3148

16759

6644

6298

118138

SITE

112955

97108

1/2 mile

Water Well

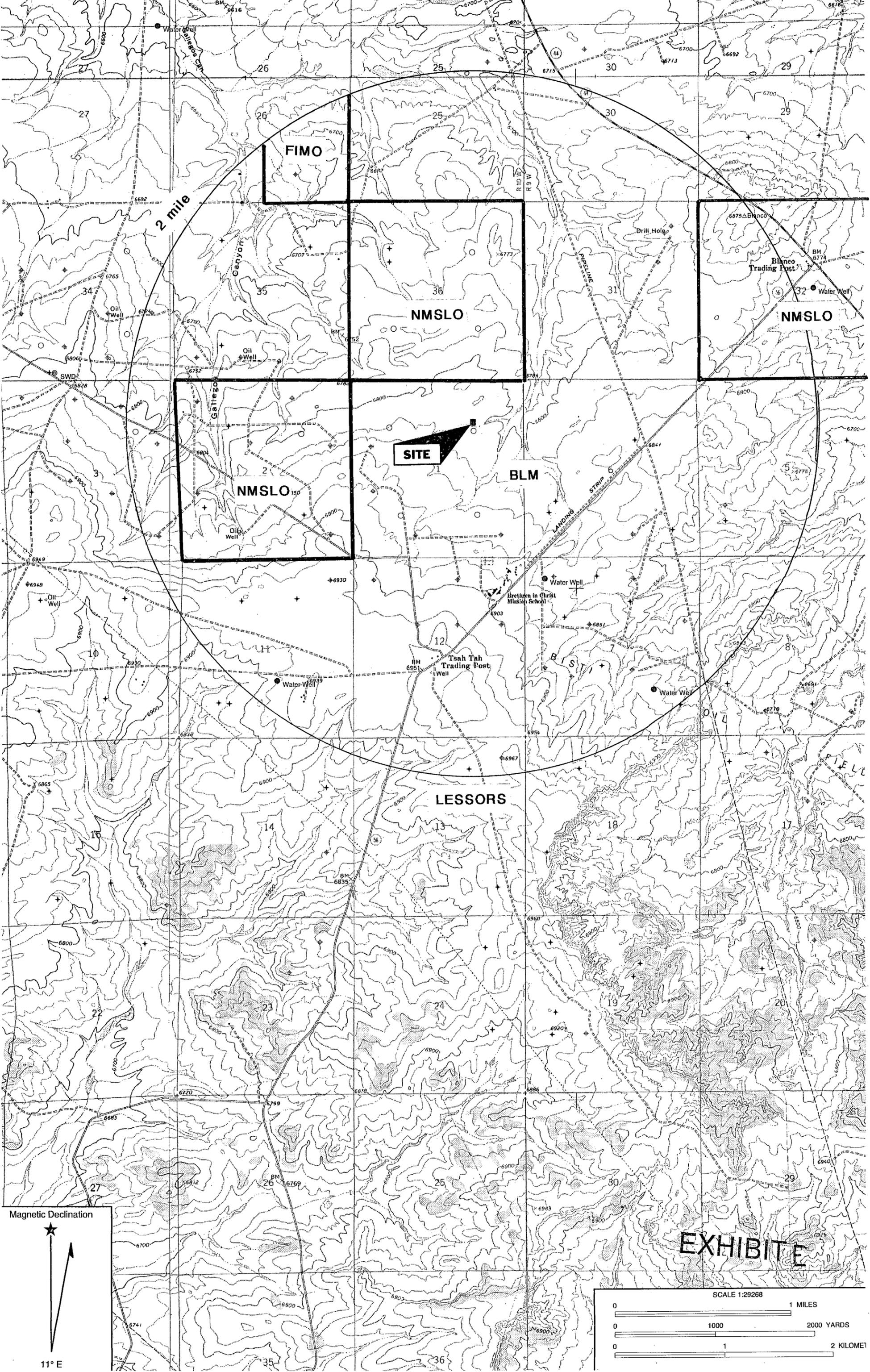
Brethren in Christ Mission School

Tsah Tah Trading Post

Water Well

Water Well

EX-117D



2 mile

FIMO

NMSLO

NMSLO

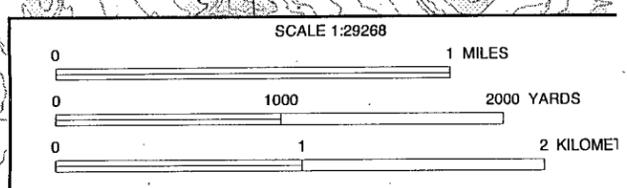
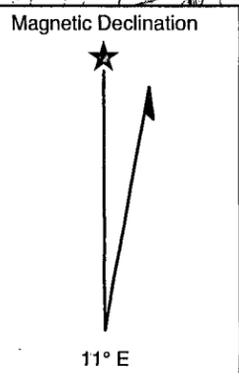
NMSLO

SITE

BLM

LESSORS

EXHIBITE



Key Pressure Pumping Services
 Water Analysis Result Form
 Farmington, NM.
 708 S. Tucker
 Phone:(505)325-4192
 Fax:(505)564-3524
 Zip:87401

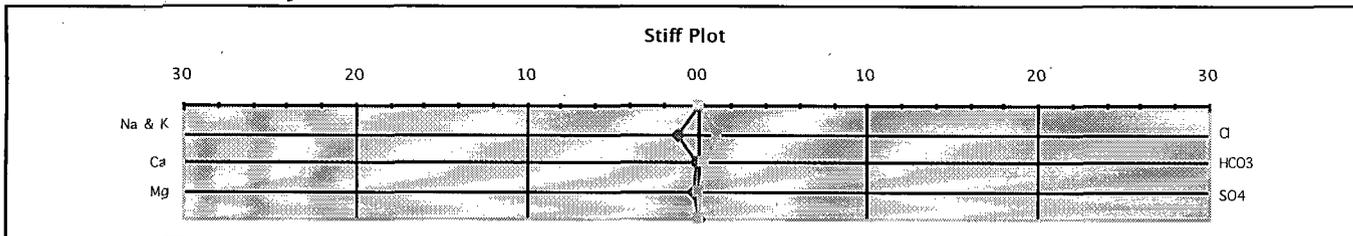


Operator:	Rosetta Resources	Sample Date:	March 15, 2007
		Analysis Date:	March 17, 2007
Well	Tsah Tah SWD # 11	District:	Farmington
Formation:	CLIFFHOUSE	Requested By:	RUSS McQUITTY
County:	SAN JUAN N.M.	Technician:	BEN BARELA
Depth:	2469	Source:	Swab Run #1

P H Y S I C A L A N D C H E M I C A L D E T E R M I N A T I O N

SPECIFIC GRAVITY:	1.005	59 (°F)	S.G. (Corrected):	1.005
pH:	8.50		MAGNESIUM:	48 ppm
RESISTIVITY:	0.70 ohm/meter		CALCIUM:	56 ppm
IRON:	0.10 ppm		BICARBONATES:	486 ppm
H2S:	0 ppm		CHLORIDES:	9552 ppm
POTASSIUM:	38 ppm		SODIUM :	6240 ppm
SULFATES:	23 ppm		TDS:	16443 ppm

CaCO3 Scale Tendency = Remote
 CaSO4 Scale Tendency = Remote



Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.

EXHIBIT F

Key Pressure Pumping Services
 Water Analysis Result Form
 Farmington, NM.
 708 S. Tucker
 Phone:(505)325-4192
 Fax:(505)564-3524
 Zip:87401

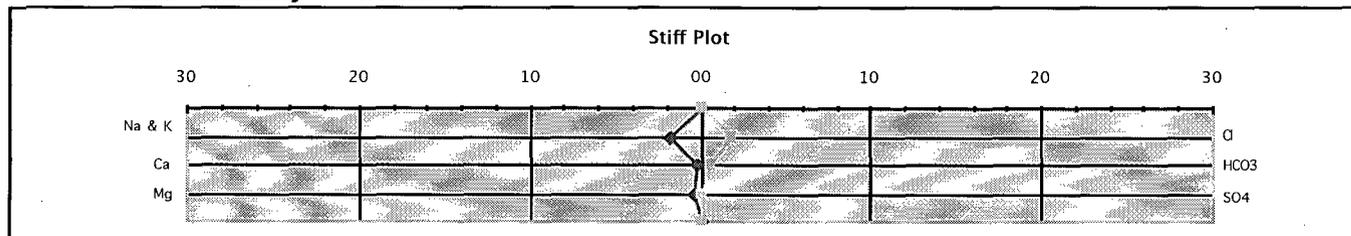


Operator: Rosetta Resources	Sample Date: March 15, 2007
	Analysis Date: March 17, 2007
Well Tsah Tah SWD # 11	District: Farmington
Formation: Menefee	Requested By: RUSS McQUITTY
County: SAN JUAN N.M.	Technician: BEN BARELA
Depth: 3645	Source: Swab Run #1

P H Y S I C A L A N D C H E M I C A L D E T E R M I N A T I O N

SPECIFIC GRAVITY: 1.010	52 (°F)	S.G. (Corrected): 1.010
pH: 9.00	MAGNESIUM: 77 ppm	
RESISTIVITY: 0.80 ohm/meter	CALCIUM: 63 ppm	
IRON: 0.16 ppm	BICARBONATES: 725 ppm	
H2S: 0 ppm	CHLORIDES: 14653 ppm	
POTASSIUM: 11 ppm	SODIUM : 9586 ppm	
SULFATES: 32 ppm	TDS: 25149 ppm	

CaCO3 Scale Tendency = Remote
 CaSO4 Scale Tendency = Remote



Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.

EXHIBIT F

Key Pressure Pumping Services
 Water Analysis Result Form
 Farmington, NM.
 708 S. Tucker
 Phone:(505)325-4192
 Fax:(505)564-3524
 Zip:87401

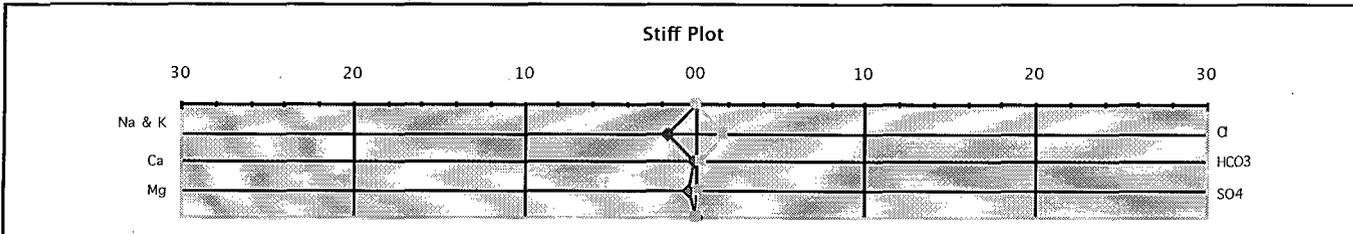


Operator: Rosetta Resources	Sample Date: March 15, 2007
	Analysis Date: March 17, 2007
Well Tsah Tah SWD # 11	District: Farmington
Formation: POINT LOOKOUT	Requested By: RUSS McQUITTY
County: SAN JUAN N.M.	Technician: BEN BARELA
Depth: 4181	Source: Swab Run #6

P H Y S I C A L A N D C H E M I C A L D E T E R M I N A T I O N

SPECIFIC GRAVITY: 1.010 @ 47 (°F)	S.G. (Corrected): 1.010
pH: 10.00	MAGNESIUM: 77 ppm
RESISTIVITY: 0.40 ohm/meter	CALCIUM: 40 ppm
IRON: 0.46 ppm	BICARBONATES: 483 ppm
H2S: 0 ppm	CHLORIDES: 13465 ppm
POTASSIUM: 38 ppm	SODIUM : 8752 ppm
SULFATES: 97 ppm	TDS: 22953 ppm

CaCO3 Scale Tendency = Remote
 CaSO4 Scale Tendency = Remote



Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.

EXHIBIT F

Water Analysis Analysis #: 1058

Date: January 16, 2007

Company: Rosetta Resources

Attention: Bryan Enns

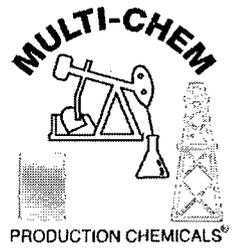
Lease: .

Description:

Well: Tsah Tah 2 #4

Location: Farmington, New Mexico

Sample Point: 2 #4



DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	10,906.14	474.18
Calcium, Ca	800.00	39.80
Magnesium, Mg	344.04	28.20
Barium, Ba	2.44	0.04
Iron, Fe	27.62	1.48

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	518.50	8.49
Sulfate, SO4	0.00	0.00
Chloride, Cl	19,000.00	535.21
Sulfide, S		

OTHER PROPERTIES

pH	7.30
Specific Gravity	1.014
Dissolved Oxygen, (Mg/l)	
Dissolved Carbon Dioxide	19.80
Sulfide as H2S, (ppm)	0.00
Sample Temp	F. 72 C. 22
CO2 in Gas Phase (Mg/l)	
H2S in Gas Phase (Mg/l)	
Total Hardness (Me/l)	68.00

Total Dissolved Solids (Mg/l)	31,599
Total Ionic Strength	0.5784
Maximum CaSO4, (calc.)	0.00
Maximum BaSO4, (calc.)	0.00
Total SRB (colonies/cc)	
Total APB (colonies/cc)	
Total Aerobic (colonies/cc)	
Manganese (Mg/l):	0.84

Conclusion:

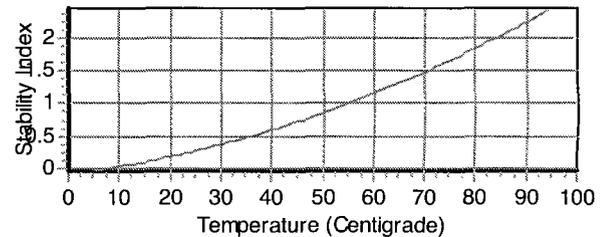
Calcium Carbonate scaling index is positive above 9 degrees Centigrade.
 Calcium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

Remarks:

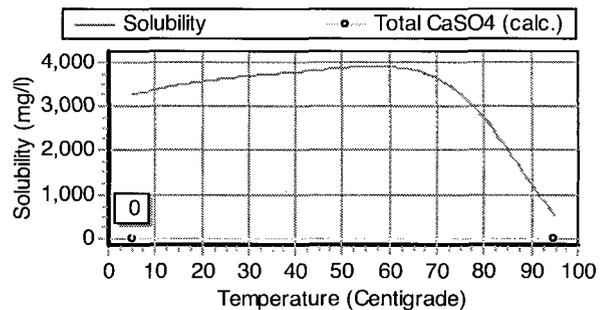
EXHIBIT G

Scaling Indices vs. Temperature

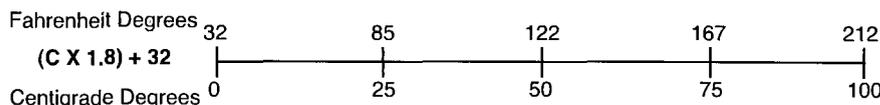
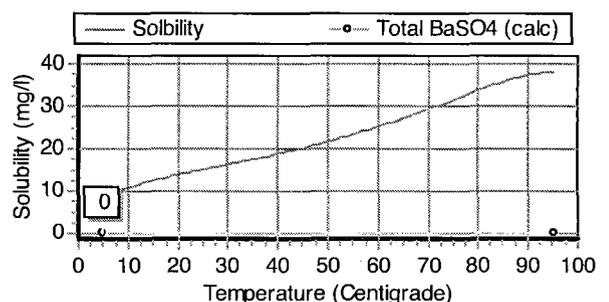
Calcium Carbonate Saturation Index



Calcium Sulfate Solubility



Barium Sulfate Solubility



Water Analysis Analysis #: 1059

Date: January 16, 2007

Company: Rosetta Resources

Attention: Bryan Enns

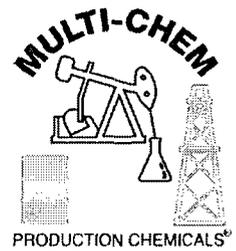
Lease: .

Description:

Well: Tsah Tah 33 #2

Location: Farmington, New Mexico

Sample Point: 33 #2



DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	10,979.97	477.39
Calcium, Ca	400.00	19.90
Magnesium, Mg	245.22	20.10
Barium, Ba	3.19	0.05
Iron, Fe	46.22	2.48

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	786.90	12.88
Sulfate, SO4	0.00	0.00
Chloride, Cl	18,000.00	507.04
Sulfide, S		

OTHER PROPERTIES

pH	6.80
Specific Gravity	1.014
Dissolved Oxygen, (Mg/l)	
Dissolved Carbon Dioxide	7.90
Sulfide as H2S, (ppm)	0.00
Sample Temp	F. 72 C. 22
CO2 in Gas Phase (Mg/l)	
H2S in Gas Phase (Mg/l)	
Total Hardness (Me/l)	40.00

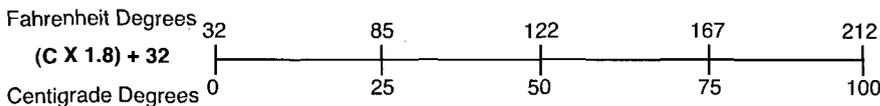
Total Dissolved Solids (Mg/l)	30,462
Total Ionic Strength	0.5402
Maximum CaSO4, (calc.)	0.00
Maximum BaSO4, (calc.)	0.00
Total SRB (colonies/cc)	
Total APB (colonies/cc)	
Total Aerobic (colonies/cc)	
Manganese (Mg/l):	0.43

Conclusion:

Calcium Carbonate scaling index is positive above 41 degrees Centigrade.
 Calcium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.
 Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

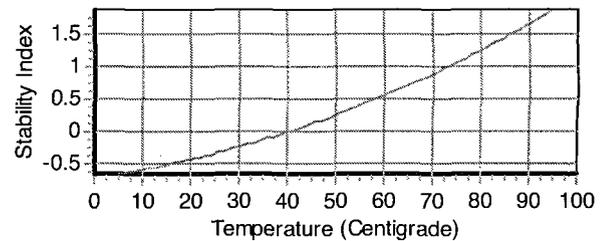
Remarks:

EXHIBIT G

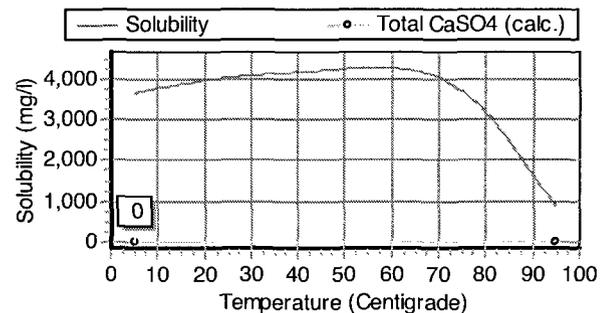


Scaling Indices vs. Temperature

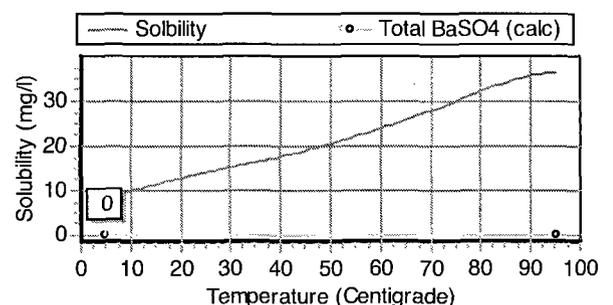
Calcium Carbonate Saturation Index



Calcium Sulfate Solubility



Barium Sulfate Solubility



Water Analysis Analysis #: 1060

Company: Rosetta Resources

Lease: .

Location: Farmington, New Mexico

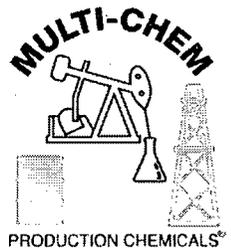
Date: January 16, 2007

Attention: Bryan Enns

Description:

Well: Tsah Tah 34 #4

Sample Point: 34 #4



DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	9,166.19	398.53
Calcium, Ca	960.00	47.76
Magnesium, Mg	149.33	12.24
Barium, Ba	2.26	0.03
Iron, Fe	21.77	1.17

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	549.00	8.99
Sulfate, SO4	2.00	0.04
Chloride, Cl	16,000.00	450.70
Sulfide, S		

OTHER PROPERTIES

pH	7.00
Specific Gravity	1.014
Dissolved Oxygen, (Mg/l)	
Dissolved Carbon Dioxide	11.90
Sulfide as H2S, (ppm)	0.00
Sample Temp	F. 72 C. 22
CO2 in Gas Phase (Mg/l)	
H2S in Gas Phase (Mg/l)	
Total Hardness (Me/l)	60.00

Total Dissolved Solids (Mg/l)	26,851
Total Ionic Strength	0.4905
Maximum CaSO4, (calc.)	2.85
Maximum BaSO4, (calc.)	3.87
Total SRB (colonies/cc)	
Total APB (colonies/cc)	
Total Aerobic (colonies/cc)	
Manganese (Mg/l):	0.26

Conclusion:

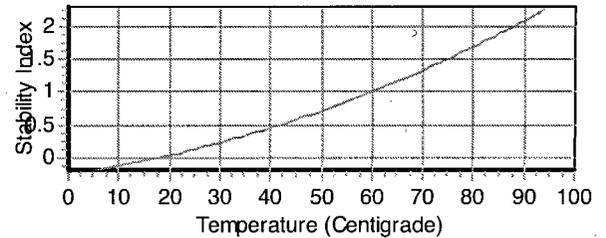
Calcium Carbonate scaling index is positive above 19 degrees Centigrade.
 Calcium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.
 Barium Sulfate scale is indicated below 5 degrees Centigrade.

Remarks:

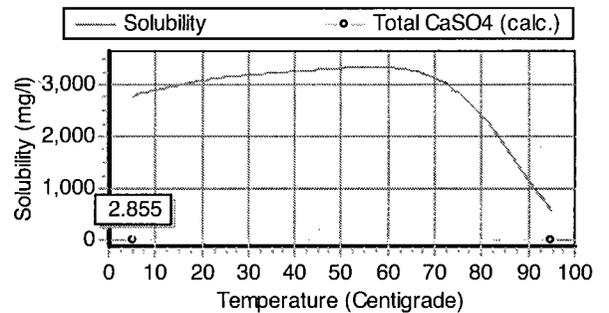
EXHIBIT G

Scaling Indices vs. Temperature

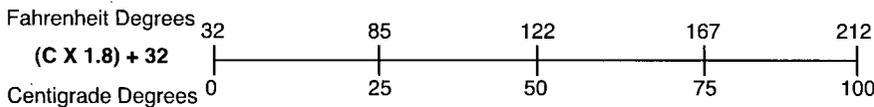
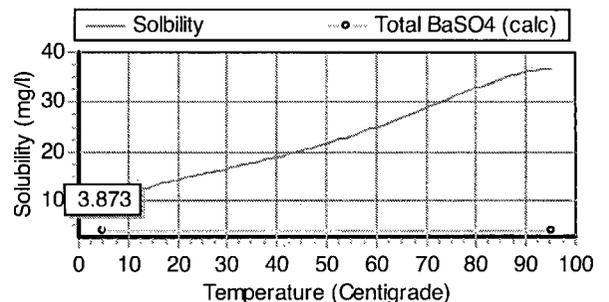
Calcium Carbonate Saturation Index



Calcium Sulfate Solubility



Barium Sulfate Solubility



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

January 03, 2007

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

TEL: 505-466-8120

FAX:

RE: BIC Mission Sec 12

Order No.: 0612022

Dear Brian Wood:

iiná bá received 1 sample on 12/13/2006 11:17:00 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. Engle
Jeffrey L. Engle, Laboratory Manager
Edwina F. Aspaas, Quality Assurance Officer

ORELAP Laboratory No. 100002
Arizona License No. AZ0691

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.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

EXHIBIT H

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: 03-Jan-07

CLIENT: Permits West
Project: BIC Mission Sec 12
Lab Order: 0612022

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 H

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: 03-Jan-07

CLIENT: Permits West
Work Order: 0612022
Project: BIC Mission Sec 12
Lab ID: 0612022-001A

Client Sample Info:
Client Sample ID: BIC Mission Sec 12
Collection Date: 12/13/2006 10:30:00 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	12/28/2006 9:24:41 AM
Magnesium	0.097	0.010		mg/L	1	12/28/2006 9:24:41 AM
Calcium	1.37	0.490		mg/L	10	12/27/2006 5:28:55 PM
Sodium	233	0.800		mg/L	10	12/27/2006 5:28:55 PM
Potassium	0.414	0.400		mg/L	10	12/27/2006 5:28:55 PM
ANIONS BY ION CHROMATOGRAPHY		E300		Analyst: elc		
Chloride	6.18	0.100		mg/L	1	12/20/2006
Sulfate	160	3.00		mg/L	30	12/27/2006
ALKALINITY, TOTAL		M2320 B		Analyst: elc		
Alkalinity, Bicarbonate (As CaCO3)	245	5		mg/L CaCO3	1	12/22/2006
Alkalinity, Carbonate (As CaCO3)	77	5		mg/L CaCO3	1	12/22/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	12/22/2006
Alkalinity, Total (As CaCO3)	322	5		mg/L CaCO3	1	12/22/2006
HARDNESS, TOTAL		M2340 B		Analyst: jem		
Hardness (As CaCO3)	4	1		mg/L	1	1/2/2007
PH		E150.1		Analyst: elc		
pH	8.99	1.00		pH units	1	12/13/2006
Temperature	23.1	0		deg C	1	12/13/2006
RESISTIVITY (@ 25 DEG. C)		M2510 C		Analyst: elc		
Resistivity	9.950	0.001		ohm-m	1	12/13/2006
SPECIFIC GRAVITY		M2710 F		Analyst: elc		
Specific Gravity	1.002	0.001		Units	1	12/13/2006
TOTAL DISSOLVED SOLIDS		E160.1		Analyst: elc		
Total Dissolved Solids (Residue, Filterable)	628	25		mg/L	1	12/14/2006
TOTAL DISSOLVED SOLIDS		M1030F		Analyst: jem		
Total Dissolved Solids (Calculated)	591	5		mg/L	1	1/2/2007

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
* - Value exceeds Maximum Contaminant Level

iiná bá

Date: 03-Jan-07

CLIENT: Permits West

Work Order: 0612022

Project: BIC Mission Sec 12

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID: MBLK_061220A	SampType: MBLK	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061220A						
Client ID: ZZZZZ	Batch ID: R8778	TestNo: E300		Analysis Date: 12/20/2006	SeqNo: 122742						
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	0

Sample ID: MB_061227A	SampType: MBLK	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061227A						
Client ID: ZZZZZ	Batch ID: R8798	TestNo: E300		Analysis Date: 12/27/2006	SeqNo: 123042						
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	0
Sulfate	0.014	0.101	0	0	0	0	0	0	0	0	J

Sample ID: LCS_061220A	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061220A						
Client ID: ZZZZZ	Batch ID: R8778	TestNo: E300		Analysis Date: 12/20/2006	SeqNo: 122741						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.845	0.101	2.02	0	91.3	90	110	0	0	0	0

Sample ID: LCS2_061227	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061227A						
Client ID: ZZZZZ	Batch ID: R8798	TestNo: E300		Analysis Date: 12/27/2006	SeqNo: 123025						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.835	0.101	2.02	0	90.8	90	110	0	0	0	0
Sulfate	2.036	0.101	2.02	0.014	100	90	109	0	0	0	0

Sample ID: 0612028-001CMS	SampType: MS	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061220A						
Client ID: ZZZZZ	Batch ID: R8778	TestNo: E300		Analysis Date: 12/20/2006	SeqNo: 122753						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	18.86	0.500	10.1	9.165	96	80	117	0	0	0	0

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 1 of 10

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0612022
Project: BIC Mission Sec 12

TestCode: 300_W

Sample ID: 0612020-001AMS	SampType: MS	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061227A						
Client ID: ZZZZZ	Batch ID: R8798	TestNo: E300		Analysis Date: 12/27/2006	SeqNo: 123031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1048	50.5	1010	109	93	90	112	0	0	0	0

Sample ID: 0612045-002CMS	SampType: MS	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061227A						
Client ID: ZZZZZ	Batch ID: R8798	TestNo: E300		Analysis Date: 12/27/2006	SeqNo: 123039						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3566	50.5	1010	2462	108	80	117	0	0	0	0

Sample ID: 0612022-001AD	SampType: DUP	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061220A						
Client ID: BIC Mission Sec 12	Batch ID: R8778	TestNo: E300		Analysis Date: 12/20/2006	SeqNo: 122743						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	6.121	0.100	0	0	0	0	0	6.183	1.01	12	12

Sample ID: 0612028-001CD	SampType: DUP	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061227A						
Client ID: ZZZZZ	Batch ID: R8798	TestNo: E300		Analysis Date: 12/27/2006	SeqNo: 123035						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	697.8	20.2	0	0	0	0	0	698.4	0.0859	10.5	10.5

Sample ID: 0612045-001CD	SampType: DUP	TestCode: 300_W	Units: mg/L	Prep Date:	Run ID: IC-761_061227A						
Client ID: ZZZZZ	Batch ID: R8798	TestNo: E300		Analysis Date: 12/27/2006	SeqNo: 123038						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2156	50.5	0	0	0	0	0	2155	0.0696	12	12

EXHIBIT H

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 2 of 10

CLIENT: Permits West
 Work Order: 0612022
 Project: BIC Mission Sec 12

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_CATIONS

Sample ID: MB_061227C	SampType: MBLK	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061227C						
Client ID: ZZZZ	Batch ID: R8799	TestNo: SW6010B		Analysis Date: 12/27/2006	SeqNo: 123046						
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: MB_061228A	SampType: MBLK	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061228A						
Client ID: ZZZZ	Batch ID: R8807	TestNo: SW6010B		Analysis Date: 12/28/2006	SeqNo: 123197						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.006786	0.0210									J
Magnesium	< 0.0100	0.0100									

Sample ID: LCS_061227C	SampType: LCS	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061227C						
Client ID: ZZZZ	Batch ID: R8799	TestNo: SW6010B		Analysis Date: 12/27/2006	SeqNo: 123047						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	4.983	0.0210	5	0	99.7	75	125	0	0		
Magnesium	4.894	0.0100	5	0	97.9	75	125	0	0		
Calcium	4.934	0.0490	5	0	98.7	75	125	0	0		
Sodium	4.882	0.0800	5	0	97.6	75	125	0	0		
Potassium	4.891	0.0400	5	0	97.8	75	125	0	0		

Sample ID: LCS_061228A	SampType: LCS	TestCode: 6010B_CATI	Units: mg/L	Prep Date:	Run ID: ICP_1_061228A						
Client ID: ZZZZ	Batch ID: R8807	TestNo: SW6010B		Analysis Date: 12/28/2006	SeqNo: 123198						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	5.306	0.0210	5	0.006786	106	75	125	0	0		
Magnesium	4.841	0.0100	5	0	96.8	75	125	0	0		

EXHIBIT H

Qualifiers: ND - Not Detected at the Reporting Limit
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ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0612022
Project: BIC Mission Sec 12

TestCode: 6010B_CATIONS

Sample ID: LCSD_061227C	SampType: LCSD	TestCode: 6010B_CATI	Units: mg/L
Client ID: ZZZZZ	Batch ID: R8799	TestNo: SW6010B	
Prep Date:		Run ID: ICP_1_061227C	
Analysis Date: 12/27/2006		SeqNo: 123048	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	4.924	0.0210	5	0	98.5	75	125	4.983	1.18	20	
Magnesium	4.837	0.0100	5	0	96.7	75	125	4.894	1.16	20	
Calcium	4.887	0.0490	5	0	97.7	75	125	4.934	0.952	20	
Sodium	4.81	0.0800	5	0	96.2	75	125	4.882	1.48	20	
Potassium	4.884	0.0400	5	0	97.7	75	125	4.891	0.152	20	

Sample ID: LCSD_061228A	SampType: LCSD	TestCode: 6010B_CATI	Units: mg/L
Client ID: ZZZZZ	Batch ID: R8807	TestNo: SW6010B	
Prep Date:		Run ID: ICP_1_061228A	
Analysis Date: 12/28/2006		SeqNo: 123199	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	5.317	0.0210	5	0.006786	106	75	125	5.306	0.196	20	
Magnesium	4.843	0.0100	5	0	96.9	75	125	4.841	0.0269	20	

Sample ID: 0612013-006AMS	SampType: MS	TestCode: 6010B_CATI	Units: mg/L
Client ID: ZZZZZ	Batch ID: R8799	TestNo: SW6010B	
Prep Date:		Run ID: ICP_1_061227C	
Analysis Date: 12/27/2006		SeqNo: 123051	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	489.7	2.10	500	0	97.9	75	125	0	0		
Magnesium	2404	1.00	500	1926	95.5	75	125	0	0		
Calcium	846.4	4.90	500	368.6	95.5	75	125	0	0		
Sodium	942.2	8.00	500	449.7	98.5	75	125	0	0		
Potassium	519.2	4.00	500	33.72	97.1	75	125	0	0		

Sample ID: 0612022-001AMS	SampType: MS	TestCode: 6010B_CATI	Units: mg/L
Client ID: BIC Mission Sec 12	Batch ID: R8807	TestNo: SW6010B	
Prep Date:		Run ID: ICP_1_061228A	
Analysis Date: 12/28/2006		SeqNo: 123201	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	5.355	0.0210	5	0.008647	107	75	125	0	0		
Magnesium	4.943	0.0100	5	0.0973	96.9	75	125	0	0		

EXHIBIT #

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 Page 4 of 10

ANALYTICAL QC SUMMARY REPORT
TestCode: 6010B_CATIONS

CLIENT: Permits West
 Work Order: 0612022
 Project: BIC Mission Sec 12

Sample ID: 0612013-006AMSD SampType: MSD TestCode: 6010B_CATI Units: mg/L Prep Date: Run ID: ICP_1_061227C
 Client ID: ZZZZZ Batch ID: R8799 TestNo: SW6010B Analysis Date: 12/27/2006 SeqNo: 123052

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	484.9	2.10	500	0	97	75	125	489.7	0.982	20	
Magnesium	2400	1.00	500	1926	94.7	75	125	2404	0.161	20	
Calcium	850.4	4.90	500	368.6	96.4	75	125	846.4	0.475	20	
Sodium	943.8	8.00	500	449.7	98.8	75	125	942.2	0.169	20	
Potassium	519.8	4.00	500	33.72	97.2	75	125	519.2	0.104	20	

Sample ID: 0612022-001AMSD SampType: MSD TestCode: 6010B_CATI Units: mg/L Prep Date: Run ID: ICP_1_061228A
 Client ID: BIC Mission Sec 12 Batch ID: R8807 TestNo: SW6010B Analysis Date: 12/28/2006 SeqNo: 123202

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	5.077	0.0210	5	0.008647	101	75	125	5.355	5.34	20	
Magnesium	4.635	0.0100	5	0.0973	90.7	75	125	4.943	6.45	20	

EXHIBIT H

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ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0612022
Project: BIC Mission Sec 12

TestCode: ALK_W

Sample ID: MBLK_061222A	SampType: MBLK	TestCode: ALK_W	Units: mg/L CaCO3	Prep Date:	Run ID: WET CHEM_061222A						
Client ID: ZZZZ	Batch ID: R8784	TestNo: M2320 B		Analysis Date: 12/22/2006	SeqNo: 122807						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	1.2	5.00									J
Alkalinity, Carbonate (As CaCO3)	ND	5.00									
Alkalinity, Hydroxide	ND	5.00									
Alkalinity, Total (As CaCO3)	1.2	5.00									J

Sample ID: LCS_061222A	SampType: LCS	TestCode: ALK_W	Units: mg/L CaCO3	Prep Date:	Run ID: WET CHEM_061222A						
Client ID: ZZZZ	Batch ID: R8784	TestNo: M2320 B		Analysis Date: 12/22/2006	SeqNo: 122808						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3)	974	5.00	1000	1.2	97.3	80	120	0	0	0	
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Sample ID: 0612022-001AD	SampType: DUP	TestCode: ALK_W	Units: mg/L CaCO3	Prep Date:	Run ID: WET CHEM_061222A						
Client ID: BIC Mission Sec 12	Batch ID: R8784	TestNo: M2320 B		Analysis Date: 12/22/2006	SeqNo: 122813						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	249	5.00	0	0	0	0	0	244.7	1.76	20	
Alkalinity, Carbonate (As CaCO3)	74	5.00	0	0	0	0	0	77.34	4.41	20	
Alkalinity, Hydroxide	ND	5.00	0	0	0	0	0	0	0	20	
Alkalinity, Total (As CaCO3)	323	5.00	0	0	0	0	0	322	0.310	20	

EXHIBIT H

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0612022
Project: BIC Mission Sec 12

TestCode: PH_W

Sample ID: LCS_061213C	SampType: LCS	TestCode: PH_W	Units: pH units	Prep Date:	Run ID: WET CHEM_061213C						
Client ID: ZZZZZ	Batch ID: R8763	TestNo: E150.1		Analysis Date: 12/13/2006	SeqNo: 122502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.298	1.00	7.38	0	98.9	98	102	0	0	0	0

Sample ID: 0612028-001CD	SampType: DUP	TestCode: PH_W	Units: pH units	Prep Date:	Run ID: WET CHEM_061213C						
Client ID: ZZZZZ	Batch ID: R8763	TestNo: E150.1		Analysis Date: 12/13/2006	SeqNo: 122506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.667	1.00	0	0	0	0	0	6.632	0.526	2	
Temperature	16.2	0	0	0	0	0	0	15.1	7.03	0	

EXHIBIT H

Qualifiers: ND - Not Detected at the Reporting Limit
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 Page 7 of 10

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0612022
Project: BIC Mission Sec 12

TestCode: RES_W

Sample ID: LCS_061213B	SampType: LCS	TestCode: RES_W	Units: ohm-m	Prep Date:	Run ID: WET CHEM_061213B						
Client ID: ZZZZ	Batch ID: R8761	TestNo: M2510 C		Analysis Date: 12/13/2006	SeqNo: 122483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Resistivity	10.01	0.00100	10.02	0	99.9	90	110	0	0	0	0

Sample ID: 0612022-001AD	SampType: DUP	TestCode: RES_W	Units: ohm-m	Prep Date:	Run ID: WET CHEM_061213B						
Client ID: BIC Mission Sec 12	Batch ID: R8761	TestNo: M2510 C		Analysis Date: 12/13/2006	SeqNo: 122485						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Resistivity	9.98	0.00100	0	0	0	0	0	9.95	0.301	10	

EXHIBIT H

Qualifiers: ND - Not Detected at the Reporting Limit
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 Page 8 of 10

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
 Work Order: 0612022
 Project: BIC Mission Sec 12

TestCode: SPGR_W

Sample ID: LCS_061213A	SampType: LCS	TestCode: SPGR_W	Units: Units	Prep Date:	Run ID: WET CHEM_061213A						
Client ID: ZZZZZ	Batch ID: R8760	TestNo: M2710 F		Analysis Date: 12/13/2006	SeqNo: 122477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Gravity	1.001	0.001000	1	0	100	80	120	0	0	0	0

Sample ID: 0612020-001AD	SampType: DUP	TestCode: SPGR_W	Units: Units	Prep Date:	Run ID: WET CHEM_061213A						
Client ID: ZZZZZ	Batch ID: R8760	TestNo: M2710 F		Analysis Date: 12/13/2006	SeqNo: 122481						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Gravity	1.214	0.001000	0	0	0	0	0	1.216	0.165	15	

EXHIBIT H

ANALYTICAL QC SUMMARY REPORT

CLIENT: Permits West
Work Order: 0612022
Project: BIC Mission Sec 12

TestCode: TDS_W

Sample ID: MBLK_061214B	SampType: MBLK	TestCode: TDS_W	Units: mg/L	Prep Date:	Run ID: WET CHEM_061214B						
Client ID: ZZZZ	Batch ID: R8785	TestNo: E160.1		Analysis Date: 12/14/2006	SeqNo: 122814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	25.0									

Sample ID: LCS_061214B	SampType: LCS	TestCode: TDS_W	Units: mg/L	Prep Date:	Run ID: WET CHEM_061214B						
Client ID: ZZZZ	Batch ID: R8785	TestNo: E160.1		Analysis Date: 12/14/2006	SeqNo: 122815						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	1156	25.0	1170	0	98.8	80	120	0	0	0	

Sample ID: 0612022-001AD	SampType: DUP	TestCode: TDS_W	Units: mg/L	Prep Date:	Run ID: WET CHEM_061214B						
Client ID: BIC Mission Sec 12	Batch ID: R8785	TestNo: E160.1		Analysis Date: 12/14/2006	SeqNo: 122825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	630	25.0	0	0	0	0	0	628	0.318	10	

EXHIBIT H

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B - Analyte detected in the associated Method Blank
 Page 10 of 10

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Sample Receipt Checklist

Client Name: PW1001

Date and Time Received: 12/13/2006 11:17:00 AM

Work Order Number: 0612022

Received by: jem

Checklist completed by: J Moore 12/13/06
Signature Date

Reviewed by: JK 12/13/06
Initials Date

Matrix:

Carrier name: Courier

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No JK 15.5°C
- Water - VOA vials have zero headspace? Yes No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes 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 RECEIVED LESS THAN ONE AFTER SAMPLING
EVENT, IN A COOLER WITH NO ICE.

Corrective Action: _____

EXHIBIT H



2198 East Bloomfield Highway
Farmington, New Mexico 87401
Phone (505) 327-7281

SMITH ENERGY SERVICES a division of Allied Products
WATER ANALYSIS

Jun. 11, 1990

Page 1

06-11-90

DUGAN PRODUCTION

JOHN ALEXANDER

Date Sampled: 06-05-90

Well: GOOD TIMES FIELD H2O WELL

SIXTEEN G's WATER Well

OJO ALAMO

Formation:

Legals:

County:

Report No.: 90054

Specific Gravity:	1.000	pH:	8.50
Chloride:	1,200.0 mg/l	Calcium:	281 mg/l
Bicarbonate:	85.4 mg/l	Magnesium:	388 mg/l
Sulfate:	110 mg/l	Total Iron:	.0 mg/l
Sulfide:	0 mg/l	Sodium:	-251 mg/l
Total Hardness:	2,300 mg/l	Total Diss Solids:	1,913 mg/l
Potassium:	100 mg/l		
Resistivity:	11.80 Ohm Meters at 60 Degrees F		

Sample Source:

Remarks:

Your water report was prepared by: WALLACE W. WALTERS

OJO ALAMO WATER WELL

EXHIBIT H

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

June 15, 2007

Joe Mraz
 NM State Land Office
 P. O. Box 1148
 Santa Fe, NM 87504

Dear Joe,

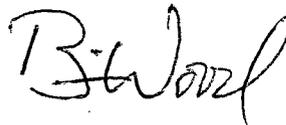
Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD #1 water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Tsah Tah SWD #1 Total Depth: ≈4,600'
Proposed Disposal Zones: Menefee & Pt. Lookout (from ≈3,325' to ≈4,410')
Location: 1200' FNL & 1511' FEL Sec. 1, T. 24 N., R. 10 W.,
 San Juan County, NM on BLM lease NMNM-112955
Approximate Location: ≈26 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.

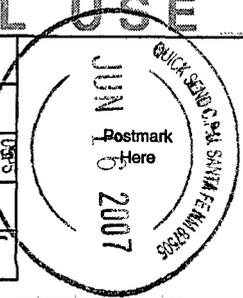
Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT I

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			
OFFICIAL USE			
Postage	\$ 1.65		<small>QUICK SEND: P.O. BOX PERMITS</small>
Certified Fee	2.85		
Return Receipt Fee (Endorsement Required)	2.15		
Restricted Delivery Fee (Endorsement Required)			
Total Postage & Fees	\$ 6.45		
Sent To:	Joe Mraz - SLD		
Street, Apt. No., or PO Box No.	Santa Fe NM		
City, State, ZIP+4			
PS Form 3800, August 2006		See Reverse for Instructions	

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

June 15, 2007

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

Dear Cherry,

Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD #1 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: ≈26 air miles south of Bloomfield, NM
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Please call me if you have any questions.

Sincerely,

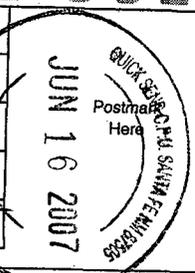


Brian Wood

EXHIBIT I

2155 100E-0000 054E 9007

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City, State, ZIP+4	Houston

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

June 15, 2007

John Alexander
 Dugan Production Corp.
 P. O. Box 420
 Farmington, NM 87499

Dear John,

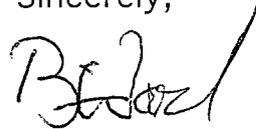
Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD #1 water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Tsah Tah SWD #1 Total Depth: ≈4,600'
Proposed Disposal Zones: Menefee & Pt. Lookout (from ≈3,325' to ≈4,410')
Location: 1200' FNL & 1511' FEL Sec. 1, T. 24 N., R. 10 W.,
 San Juan County, NM on BLM lease NMNM-112955
Approximate Location: ≈26 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

EXHIBIT I

9945 700E-800N

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Total Postage & Fees	\$ 6.45

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 JUN 16 2007
 QUICK SERVICE MAIL CENTER SANTA FE, NM 87505

Sent To: Dugan
 Street, Apt. No., or PO Box No.: _____
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PS Form 3800, August 2006 See Reverse for Instructions

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

June 15, 2007

Kaiser-Francis Oil Co.
 P. O. Box 21468
 Tulsa, OK 74121

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Please call me if you have any questions.

Sincerely,



Brian Wood

6255 1000 0000 054E 900L

U.S. Postal Service™	
CERTIFIED MAIL RECEIPT	
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Return Receipt Fee (Endorsement Required)	2.15
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.45

BUCK SEND TO MAIL CENTER
 JUN 15 2007
 Postmark Here
 USPS

Sent To	Kaiser-Francis Oil
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	Tulsa OK

See Reverse for Instructions

EXHIBIT 1

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

June 15, 2007

McHugh Co.
 650 S. Cherry, #1225
 Denver, CO 80246

Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD #1 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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Please call me if you have any questions.

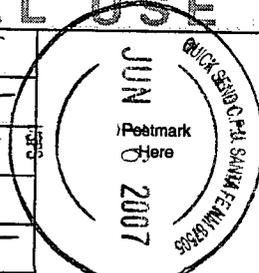
Sincerely,



Brian Wood

5055 1003 0000 054E 9002

U.S. Postal Service	
CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
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Certified Fee	2.65
Return Receipt Fee (Endorsement Required)	2.15
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.45



Sent To	McHugh Co
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	Denver CO

PS Form 3800, August 2006 See Reverse for Instructions

EXHIBIT I

AFFIDAVIT OF PUBLICATION

Ad No. 54986

**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):

325

Wednesday, April 18, 2007

And the cost of the publication is \$46.55

Robin Allison

ON *4/26/07* ROBIN ALLISON
appeared before me, whom I know personally
to be the person who signed the above
document.

Wynell Corey
My Commission Expires *Nov. 17, 2008*

COPY OF PUBLICATION

objections or requests
for hearing with the
NM Oil Conservation
Division, 1220 South
Rosetta Resources
Operating LP is apply
ing to drill the Tsah
Tah SWD #1 as a wa
ter disposal well. The
Tsah Tah SWD #1 will
be located at 1200'
FNL & 1151' FEL, Sec.
1, T. 24 N., R. 10 W.,
San Juan County, NM.
The well will dispose
of water produced
from oil and gas wells
into the La Ventana,
Menefee, and Point
Lookout zones at a
depth of 2,600' to
4,410' at a maximum
rate of 3,000 barrels
of water per day and
at a maximum pres
sure of 520 psi. Inter
ested parties must file
Saint Francis Dr., San
ta Fe, NM 87505
within 15 days. Addi
tional information can
be obtained by con
tacting Brian Wood,
Permits West, Inc., 37
Verano Loop, Santa
Fe, NM 87508. Phone
number is (505) 466-
8120.
Legal no. 54986 pub
lished in The Daily
Times, Farmington,
New Mexico, Wednes
day April 18, 2007

EXHIBIT J



AFFIDAVIT OF PUBLICATION

Ad No. 54227

STATE OF NEW MEXICO
County of San Juan:

COPY OF PUBLICATION

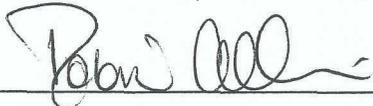
ROBIN ALLISON, being duly sworn says:
That she is the CLASSIFIED MANAGER of
THE DAILY TIMES, a daily newspaper of
general circulation published in English at
Farmington, said county and state, and that
the hereto attached Legal Notice was
published in a regular and entire issue of the
said DAILY TIMES, 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):

Rosetta Resources Operating LP is applying to drill the Tsah Tah SWD #1 as a water disposal well. The Tsah Tah SWD #1 will be located at 1200' FNL & 1151' FEL, Sec. 1, T. 24 N., R. 10 W., San Juan County, NM. The well will dispose of water produced from oil and gas wells into the Point Lookout sandstone at a depth of 4,260' to 4,410' at a maximum rate of 2,000 barrels of water per day and at a maximum pressure of 820 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. 54227, published in The Daily Times, Farmington, New Mexico on Wednesday, November 15, 2006

Wednesday, November 15, 2006

And the cost of the publication is \$44.14



ON 11/22/06 ROBIN ALLISON
appeared before me, whom I know personally
to be the person who signed the above
document.


My Commission Expires Nov 17, 2008

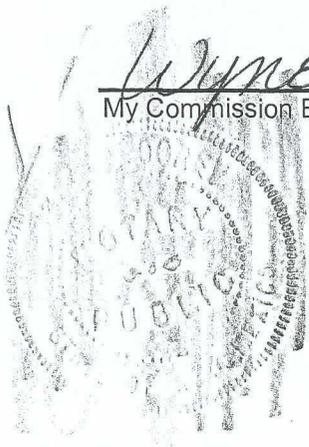


EXHIBIT J

Injection Permit Checklist 2/8/07

SWD Order Number 1087 Dates: Division Approved _____ District Approved _____

Well Name/Num: BAH TAH SWD #1 Date Spudded: newell

API Num: (30-) 45-34282 County: SAN JUAN

Footages 1200 FNL/1511 FEL (L5C2) Sec 1 Tsp 24N Rge 10W

Operator Name: Rosetta Resaman Operady LP Contact Brian Wood (w/Permits Work, INC)

Operator Address: 1200 17th St Suite 770 Denver CO 80202

Current Status of Well: NOT Drilled Planned Work: _____ Inj. Tubing Size: 2 7/8 @ 3275

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	12 1/4 8 5/8	200'	14-5X	will CIRC
Intermediate				
Production	7 7/8 5 1/2	4500' YLD: 2.06 1.18	760+100	will CIRC
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 No - Loss yet

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash			
Capitan Reef			
Cliff House, Etc:	<u>2150</u> (above manfesa)		
Formation Above	<u>(3295)</u>	<u>manfesa to 4185'</u>	
Top Inj Interval	<u>3325</u>	<u>manfesa</u>	<u>665</u> PSI Max. WHIP
Bottom Inj Interval	<u>4410</u>	<u>Pore Ledger</u>	<u>NO</u> Open Hole (Y/N)
Formation Below	<u>(4185)</u>	<u>P.L.D. TO 4510</u>	<u>NO</u> Deviated Hole (Y/N)

Fresh Water: Depths: 0-1100' 0-850 Wells (Y/N) yes Analysis Included (Y/N): Affirmative Statement

Salt Water Analysis: Injection Zone (Y/N/NA) Disp Waters (Y/N/NA) Types: FRC

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

Other Affected Parties: EPERMICHAEL, DUGAN, Spear, Yates, KAISER FRANCIS, BRES

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

AOR Num of P&A Wells 0 Repairs? 0 Diagrams Included? 0 RBDMS Updated (Y/N)

Well Table Adequate (Y/N) AOR STRs: Sec _____ Tsp _____ Rge _____ UIC Form Completed (Y/N)

New AOR Table Filename _____ Sec _____ Tsp _____ Rge _____ This Form completed 7/3/07

Conditions of Approval: Sec _____ Tsp _____ Rge _____ Data Request Sent _____

AOR Required Work: _____

Required Work to this Well: _____

OGRD 239235

325
5650