



SUSPENSE In: 06 June 07 ENGINEER W. Jones LOGGED IN 07 June 07 TYPE SWD APP NO. PCLP0715837538

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
Tsay Tah SWD #36

RECEIVED

JUN 06 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

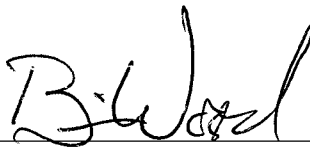
CONSULTANT

6-2-07

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? XXX Yes _____ No
If yes, give the Division order number authorizing the project: SWD-1053
- 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 2, 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.

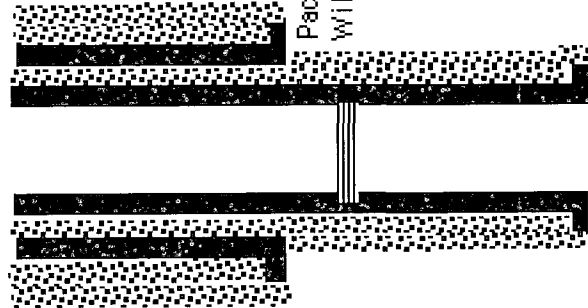
INJECTION WELL DATA SHEET

OPERATOR: ROSETTA RESOURCES OPERATING LPWELL NAME & NUMBER: TSAH TAH SWD #36

WELL LOCATION: 1800' FNL & 1360' FWL UNIT LETTER F SECTION 36 TOWNSHIP 25 N RANGE 10 W
 FOOTAGE LOCATION

WELLBORE SCHEMATIC

8-5/8" 24# J-55 ST&C
 set @ 226' & cemented to the
 surface. Circulated out 3 bbl.



Packer now @ 4,126'
 Will move to 3,275'.

Perforate (0.34") from
 ≈3,325' to ≈4,192'
 with 2 shots/foot

Perforated (0.34")
 4,193' - 4,381'
 with 2 shots/foot

5-1/2" 15.5# J-55 LT&C
 set @ 4,495' & cemented to the
 surface. Circulated out 25 bbl.

WELL CONSTRUCTION DATASurface CasingHole Size: 12-1/4"Casing Size: 8-5/8" 24# J-55 ST&CCemented with: 200 sacksor 236 ft³Top of Cement: SURFACEMethod Determine: VISUALIntermediate Casing

Hole Size:

Casing Size:

Cemented with: _____ sacks

or _____ ft³

Top of Cement: _____

Method Determined: _____

Production CasingHole Size: 7-7/8"Casing Size: 5-1/2" 15.5# J-55 LT&CCemented with: 880 sacksor 1,571 ft³Top of Cement: SURFACEMethod Determine: VISUALTotal Depth: 4,495'Injection Interval438'From ≈3,325 feet To ≈4,192 feet

(Perforated or Open Hole; indicate which)

2304 = Top
 4193 = Top
 P.L.O. = new floor

INJECTION WELL DATA SHEETTubing Size: 2-7/8" 6.5# J-55Lining Material: PLASTICType of Packer: 5-1/2" x 2-7/8" COMPRESSION SET WITH ON/OFF TOOLPacker Setting Depth: WITHIN 50' OF THE HIGHEST PERFORATION

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

Additional Data1. 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: MENEFEE3. 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. _____

PERFORATED @ 4,193' - 4,381' IN POINT LOOKOUT. PACKER SET @ 4,126'

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

OVER: FRUITLAND (1,650') & PICTURED CLIFFS (1,750')UNDER: GALLUP (5,150') & DAKOTA (6,175')

ROSETTA RESOURCES OPERATING LP
TSAH TAH SWD #36
1800' FNL & 1360' FWL
SEC. 36, T. 25 N., R. 10 W.
SAN JUAN COUNTY, NM

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MENEFEE ZONE

I. Purpose is to add one more zone (Menefee) for additional water disposal capacity. Disposal has already been approved (SWD-1053) in this well and is underway into the Point Lookout.

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: State lease VO-6298-0000
Lease Size: 280.00 acres
Lease Area: NW4, SW4NE4, & S2SE4 Sec. 36, t. 25 N., R. 10 W.
Closest Lease Line: 840'
Well Name & Number: Tsah Tah SWD #36 (API # 30-045-33942)
Well Location: 1800' FNL and 1360' FWL Sec. 36, T. 25 N., R. 10 W.
(see Exhibit A)

A. (2) Surface casing (8-5/8", 24#, J-55, S T & C) was set at 226' KB in a 12-1/4" hole. Cemented to the surface with 200 sacks (236 cubic feet) Class G + 1/4 pound per sack cello flake + 2% CaCl₂ + 1/4 pound per sack cello flake. Circulated out 3 barrels.

Production casing (5-1/2", 15.5#, J-55, L T & C) landed at ≈4,490' KB in a 7-7/8" hole. Float collar is at 4,446' KB. Top of the marker joint is at 3,666' KB. Top of the stage tool is at 1,875' KB. Circulated 25 barrels to the surface.

Cemented first stage with 410 sacks (775 cubic feet) of Type 5 65:35 poz + 6% gel + 5 pounds per sack gilsonite + 1/8 pound per sack poly flake. Tailed with 100 sacks (132 cubic feet) of Type 5

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MENEFEE ZONE

50:50 poz + 2% gel + 5 pounds per sack gilsonite + 1/8 pound per sack poly flake.

Cemented second stage 320 sacks (605 cubic feet) Type 5 65:35 poz + 6% gel + 5 pounds per sack gilsonite + 1/8 pound per sack poly flake. Tailed with 50 sacks (59 cubic feet) Type 5 50:50 poz + 2% CaCl_2 + 5 pounds per sack gilsonite + 1/8 pound per sack poly flake.

- A. (3) Tubing is 2-7/8" 6.5# J-55 EUE 8rd plastic lined injection string. It will be set at $\approx 3,325'$ KB (disposal interval will be $\approx 3,325'$ to $\approx 4,381'$).
- A. (4) A 5-1/2" x 2-7/8" nickel coated 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) Initial disposal zone was the Point Lookout sandstone. Rosetta plans to add the Menefee to the disposal interval. 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) The Point Lookout has been perforated with two 0.34" shots per foot. Upon approval, additional similar perforations will be shot in the Menefee ($\approx 3,325'$ to $\approx 4,192'$) interval.
- B. (3) Well has 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 three mile radius are attached.
- B. (4) The Point Lookout has been perforated from 4,193' to 4,381' (2 shots per foot x 188' = total 376 shots). Upon approval, additional similar perforations will be shot in the Menefee ($\approx 3,325'$ to $\approx 4,192'$). Currently there is a Weatherford nickel coated Arrow Set

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MENEFEE ZONE

1-X packer at 4,126' KB. It was set with 16,000 pounds compression. That packer will be moved up hole to a point \approx 50' above the highest Menefee perforation. There are no other perforations now in the well.

- B. (5) Top of the Menefee is at 3,304'. Bottom of the closest overlying potentially productive zone (Pictured Cliffs) is at \approx 1,950'. There will be a \approx 1,375' interval between the bottom of the Pictured Cliffs and the highest injection perforation.

Bottom of the Menefee is at 4,192'. Top of the closest underlying potentially productive zone (Gallup) is at \approx 5,170'. There will be a \approx 978' interval between the bottom of the Menefee and the top of the Gallup. Within this \approx 978' interval is the Point Lookout zone which is currently being used for water disposal in this same well. Oil is being produced elsewhere in the San Juan Basin from the Menefee (\approx 39 miles south in 18-18n-10w at the Seven Lakes Menefee Field). Closest plugged Menefee well is \approx 28 miles south in 30-20n-9w (wildcat with no production).

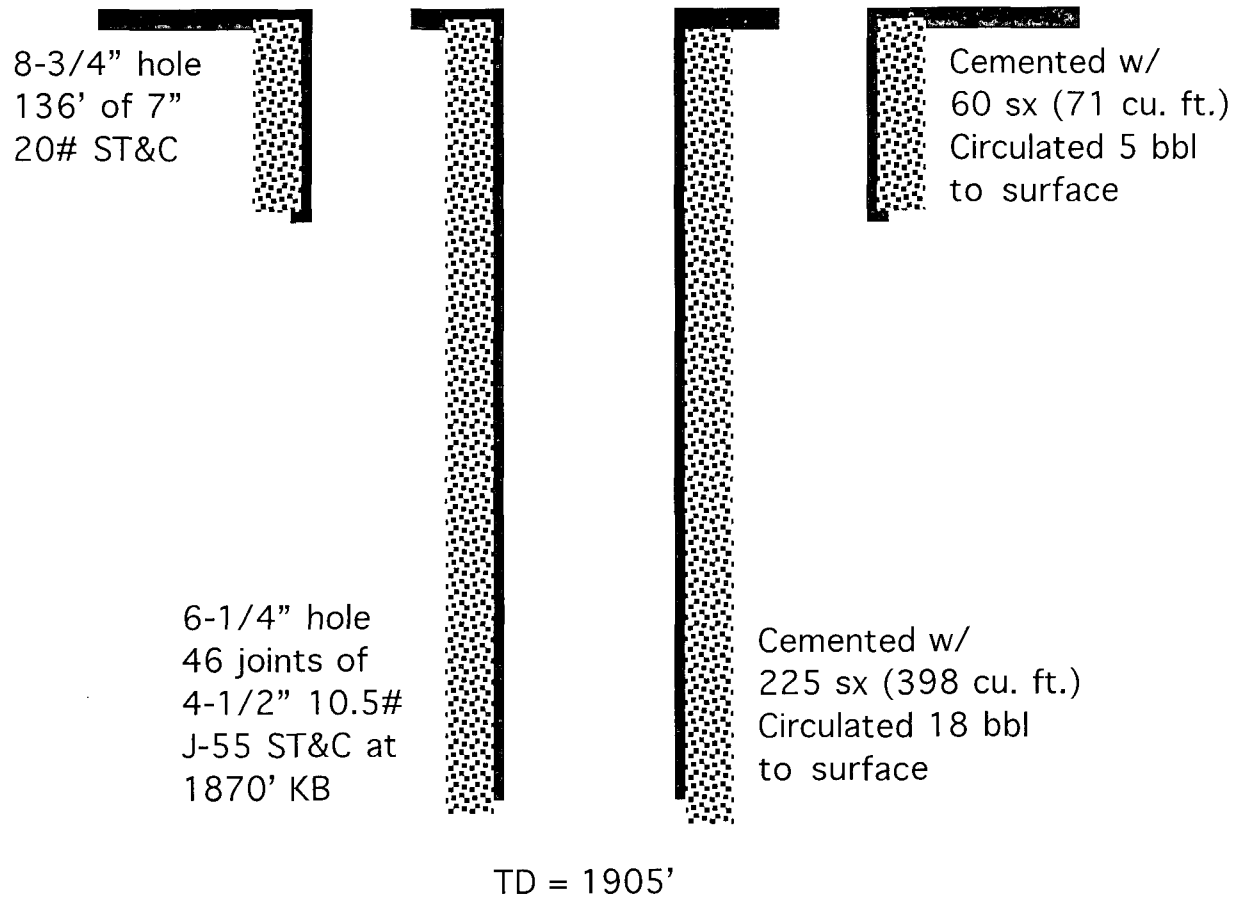
IV. This is not an expansion of an existing injection project. It is an expansion (one more zone) of an existing water disposal project.

V. A map (Exhibit B) showing the 3 existing wells (all Rosetta Tsah Tah gas wells) within a half mile radius is attached. A map (Exhibit C) showing all 54 wells (34 P & A + 17 oil or gas producers + 2 water + 1 disposal) within a two mile radius is attached. Details on the wells within a half mile are:

<u>WELL</u>	<u>API #</u>	<u>T. 25 N., R. 10 W.</u>	<u>ZONE</u>	<u>TD</u>	<u>DISTANCE</u>
Tsah Tah 36 #2	30-045-33753	SWNW Sec. 36	Fruitland coal	1905'	430'
Tsah Tah 36 #3	30-045-34239	NESW Sec. 36	Fruitland coal	1905'	1950'
Tsah Tah 35 #1	30-045-33766	SENE Sec. 35	Fruitland coal	1908'	2599'

TSAH TAH 36 #3

API# 30-045-34239



TSAH TAH 36 #2

API# 30-045-33753

8-3/4" hole
120' of 7"
23# LS LT&C

6-1/4" hole
48 joints of
4-1/2" 10.5#
J-55 ST&C at
1885' KB

Cemented w/
55 sx (65 cu. ft.)
Circulated 5 bbl
to surface

Cemented w/
225 sx (398 cu. ft.)
Circulated 30 bbl
to surface

TD = 1905'

TSAH TAH 35 #1

API# 30-045-33766

8-3/4" hole
116' of 7"
20# J-55 LS
ST&C

6-1/4" hole
49 joints of
4-1/2" 10.5#
J-55 ST&C at
1886' KB

Cemented w/
60 sx (72 cu. ft.)
Circulated 5 bbl
to surface

Cemented w/
225 sx (398 cu. ft.)
Circulated 28 bbl
to surface

TD = 1908'

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MENEFEE ZONE

Exhibit D shows all leases (all T. 25 N., R. 10 W.) within a half mile radius.
Details are:

<u>AREA</u>	<u>LESSOR</u>	<u>LEASE #</u>	<u>LESSEE(S)</u>
S2 Sec. 25	BLM	NMNM-98739	Yates
SE4 Sec. 26	Navajo Allottees	NO-G-0503-1735	XTO
NE4 Sec. 35	BLM	NMNM-112957	Rosetta
SE4 Sec. 35	BLM	NMNM-114377	Rosetta
NW4, SWNE, & S2SE4 Sec. 36	SLO	VO-6298-0000	Rosetta & Yates
SENE, NWSE, & SESW Sec. 36	SLO	EO-6644-0021	Rosetta & Kaiser-Francis
N2NE4, W2SW4, NESW, & NESE Sec. 36	SLO	EO-3148-0010	Rosetta & Speer

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 NM State Land Office (SLO).

VI. None of the three wells which are within a 1/2 mile radius penetrate the proposed injection zone. The deepest (Rosetta's Tsah Tah 35 #1) of the three wells has a total depth of 1,908'. There will be a $\approx 1,417'$ 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 include a tank battery with skimmer and settling tanks, filters, meter, and an injection pump.
 3. Average injection pressure will be ≈ 650 psi
Maximum injection pressure will be ≈ 665 psi (≤ 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 2, 2007. All gas wells are or will be Fruitland coal gas with a maximum TD of $\approx 1,900'$. The closest (430') is the Tsah Tah 36 #2.

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MENEFEE ZONE

A water analysis from the Menefee (Exhibit F) is attached. The Menefee was sampled in Rosetta's Tsah Tah SWD 11 well which is \approx 2-1/2 miles southwest. Water analyses from the La Ventana (above the Menefee) and Point Lookout (below the Menefee) are also attached.

Produced water analyses from three Basin Fruitland coal gas wells (Exhibit G) with a 3 mile radius are also attached.

A summary of the 6 analyses follows. All are Rosetta Tsah Tah wells.

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. The Menefee has not been found to be productive within two miles of the well. Oil is being produced elsewhere in the San Juan Basin from the Menefee (\approx 39 miles south in 18-18n-10w at the Seven Lakes Menefee Field). Closest plugged Menefee well is \approx 28 miles south in 30-20n-9w (wildcat with no production). Disposal of produced water into the Menefee has been approved \approx 2-1/2 miles southwest in SWD-1063-A.

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.

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MENEFEE ZONE

VIII. The Menefee Formation consists of Late Cretaceous claystone, coal, siltstone, shale, and sandstone. The Menefee Formation is $\approx 889'$ thick in this well. Top is at 3,304'. Bottom is at 4,193'.

Formation tops in this well are:

Nacimiento: 0'
Ojo Alamo Sandstone: 850'
Kirtland-Fruitland Formation: 1,430'
Pictured Cliffs Sandstone: 1,752'
La Ventana Tongue of Cliff House Sandstone: 2,614'
Menefee: 3,304'
Point Lookout Sandstone: 4,193'
Plugged Back Total Depth: 4,446'
Total Depth: 4,496'

There are two water wells within a two mile radius (see Exhibit C). Both are over 1-3/4 miles away. Well depths are 637' and 1,100'. Water depths, respectively, are 250' and 1,073'.

No existing underground drinking water sources are below the Menefee within a two mile radius. There will be $\approx 1,874'$ of vertical separation between the bottom of the lowest existing underground water source (Ojo Alamo) and the top of the Menefee Formation.

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

X. Gas spectrum and cased hole neutron- gamma ray logs were run. Copies were provided to the NMOCD by Blue Jet.

XI. There are no water wells within a one mile radius.

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MENEFEE ZONE

XII. Rosetta is not aware of any geologic or engineering data which may indicate the Menefee is in hydrologic connection with any underground sources of water. There will be $\approx 2,204'$ of vertical separation between the top ($\approx 3,304'$) of the Menefee and the bottom ($1,100'$) of the deepest water well within $\approx 1\text{-}3/4$ miles. This interval includes at least three shale zones (Kirtland, Lewis, and the Menefee).

XIII. Notice (this application) has been sent (Exhibit H) to the surface owner (NM State Land Office), operators of all wells (only Rosetta), and lessees or lease operating right holders (Kaiser-Francis, Rosetta, Speer, XTO, Yates), and lessors (BLM, Navajo allottees (c/o FIMO), NM State Land Office) within a half mile. A legal ad (see Exhibit I) was published on April 18, 2007.

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

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

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-33942	² Pool Code 96160	³ Pool Name SWD; MESA VERDE
⁴ Property Code 35715	⁶ Property Name TSAH TAH SWD	⁵ Well Number 36
⁷ GRID No. 239235	⁸ Operator Name ROSETTA RESOURCES OPERATING LP	⁹ Elevation 6745'

¹⁰ Surface Location

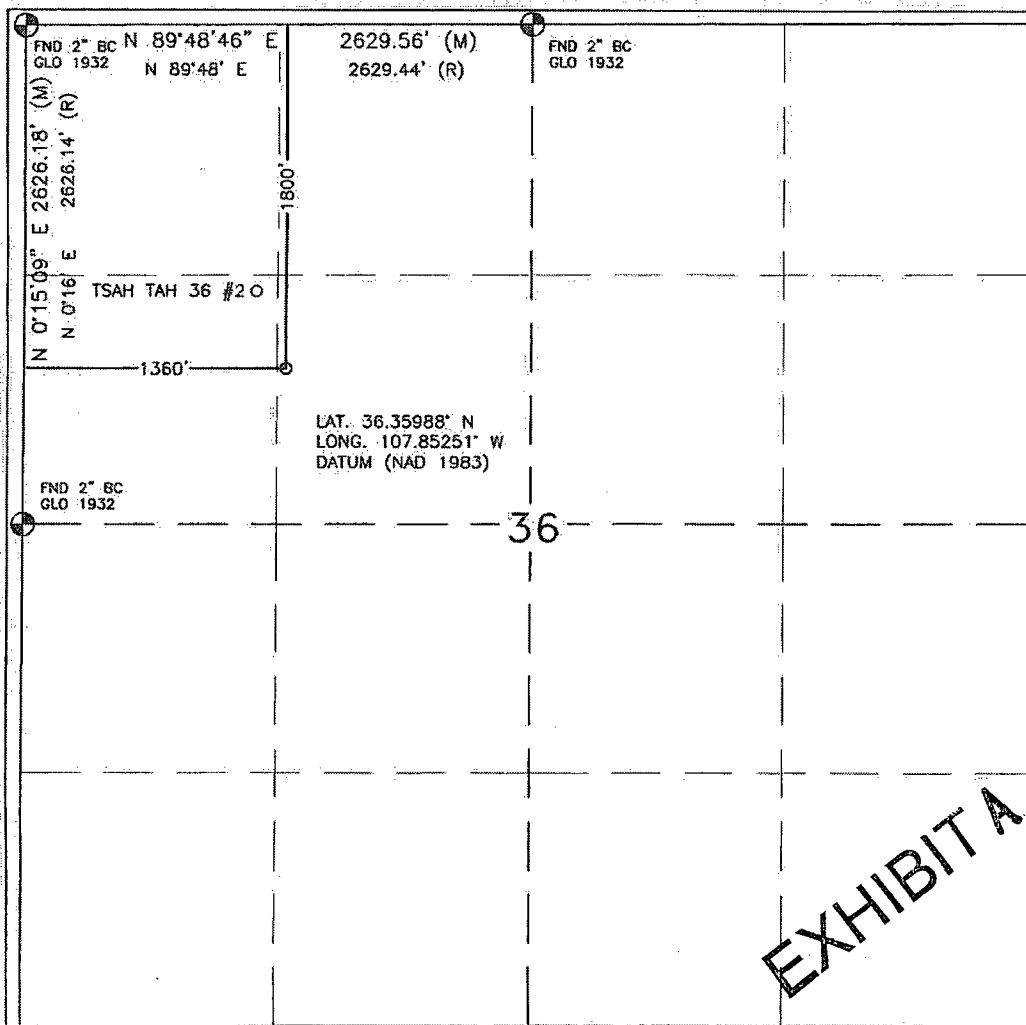
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36	25N	10W		1800'	NORTH	1360'	WEST	SAN JUAN

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.			

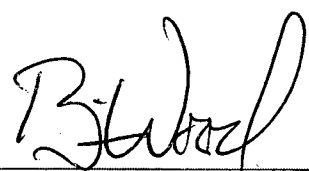
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



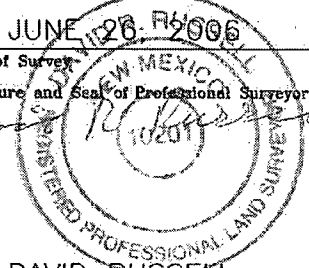
17 OPERATOR CERTIFICATION

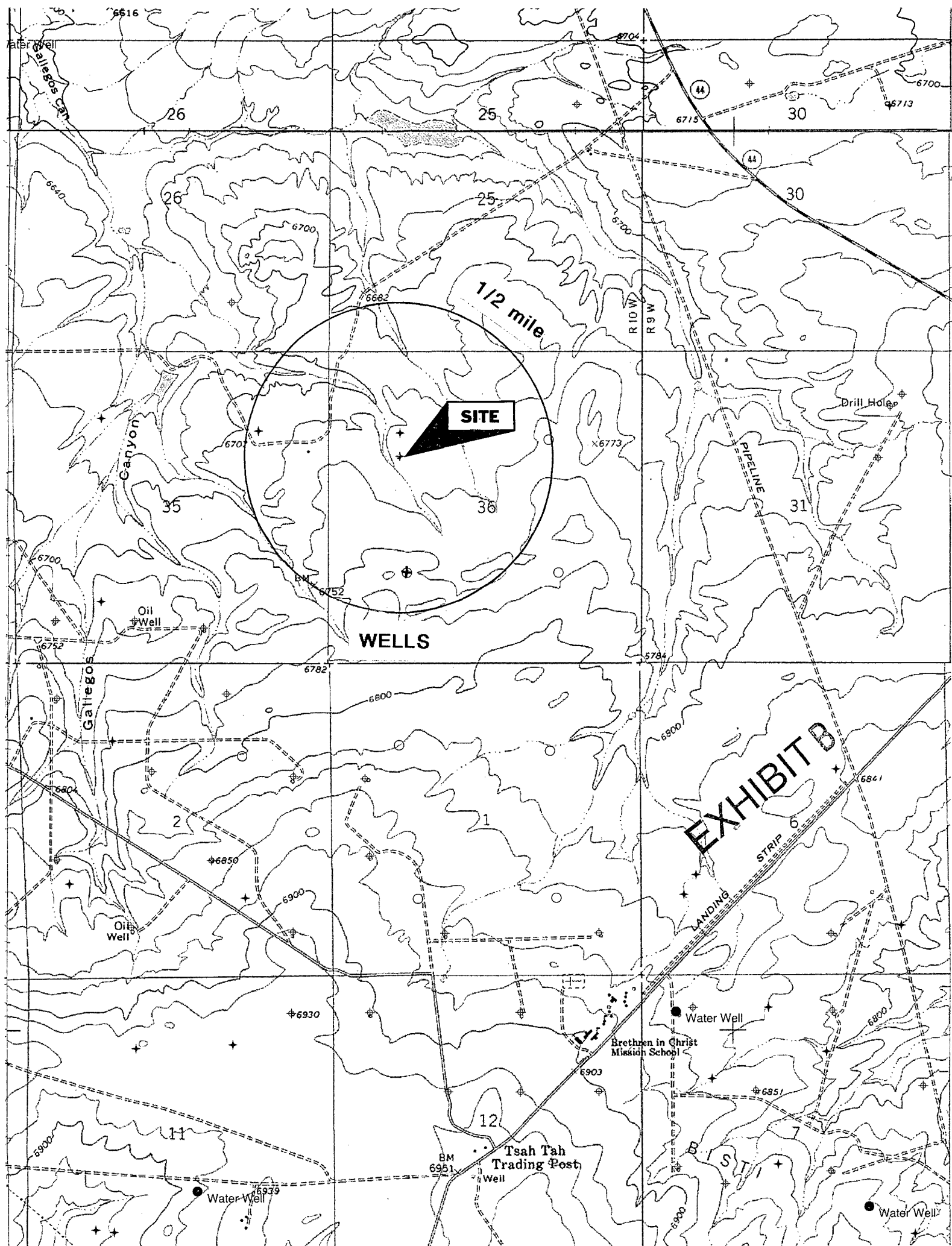
I hereby certify that the information contained herein
is true and complete to the best of my knowledge and
belief

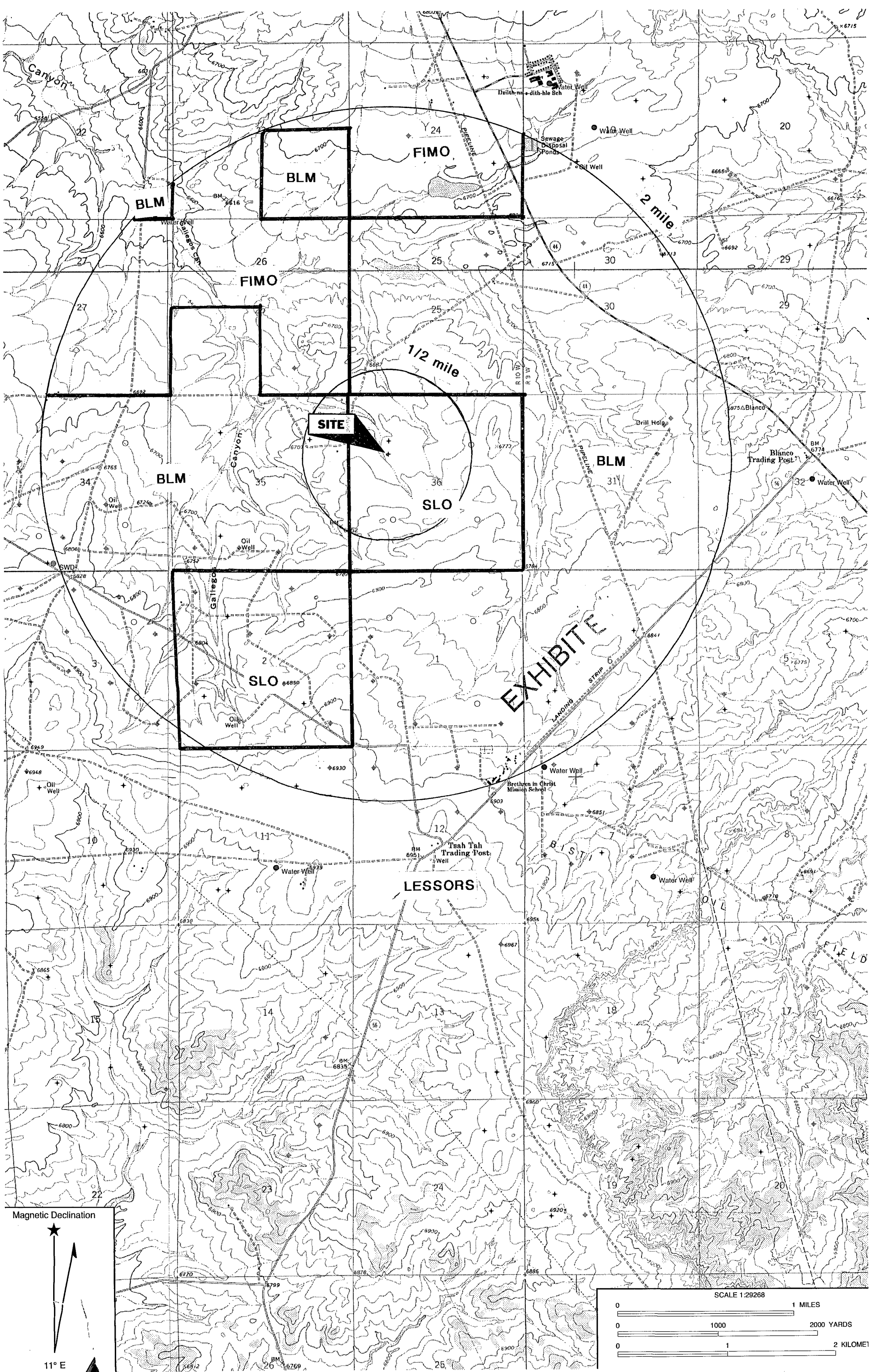

Signature **BRIAN WOOD**
Printed Name **CONSULTANT**
Title **JUNE 2, 2007**
Date

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.

JUNE 26, 2006
Date of Survey
Signature and Seal of Professional Surveyor:

DAVID RUSSELL
Certificate Number **10201**



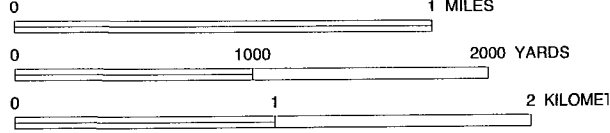


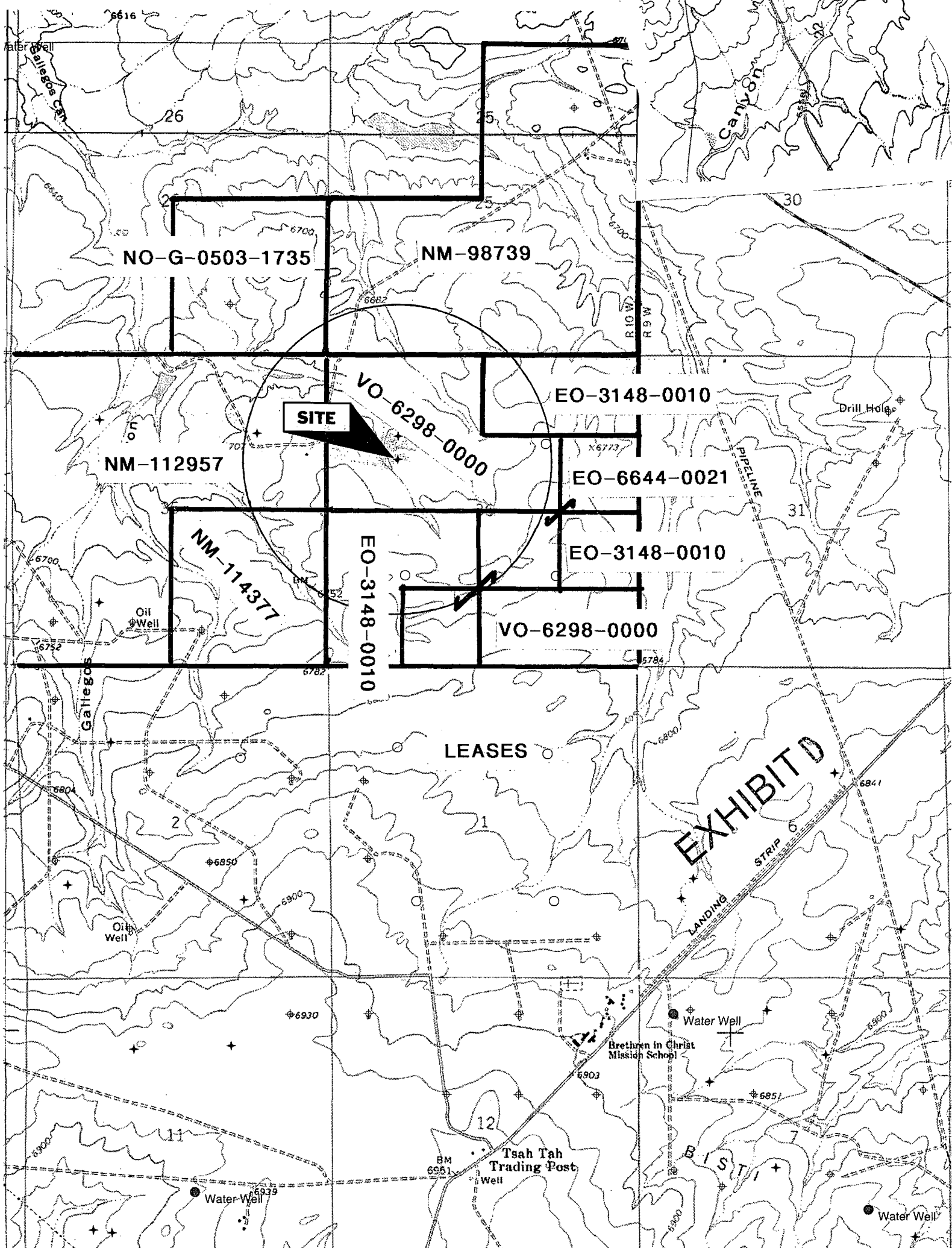
Magnetic Declination

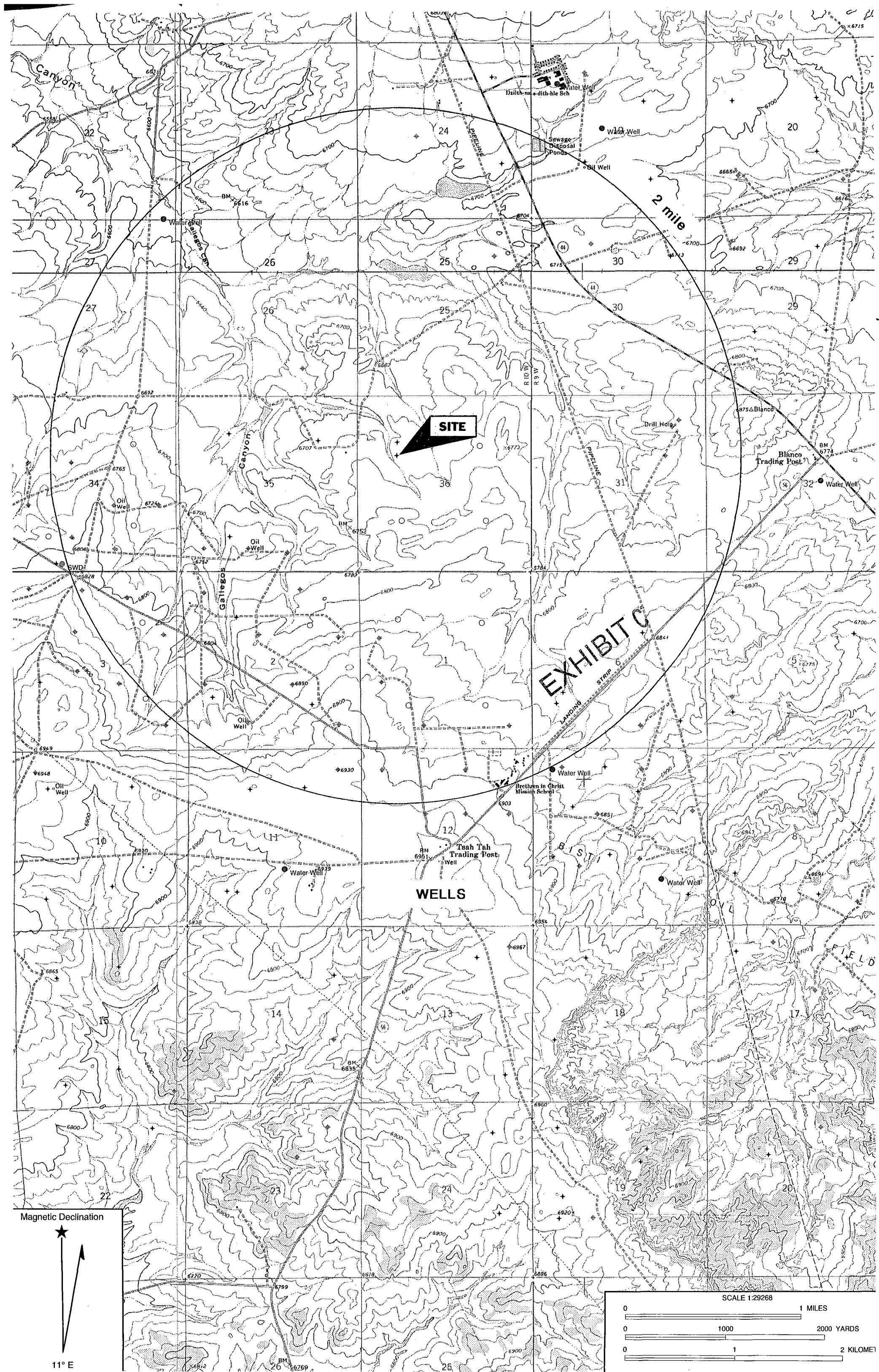


11° E

SCALE 1:29268

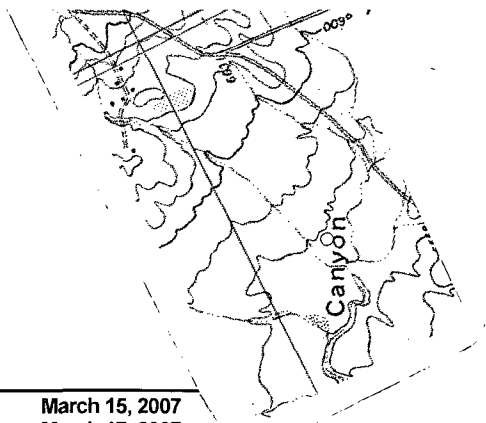








Key Pressure Pumping Services
Water Analysis Result Form
Farmington, NM.
708 S. Tucker
Phone:(505)325-4192
Fax:(505)564-3524
Zip:87401

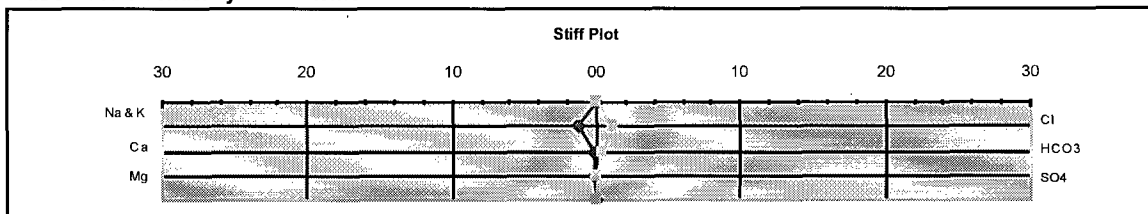


Operator:	Rosetta Resources	Sample Date:	March 15, 2007
		Analysis Date:	March 17, 2007
Well	Tsah Tah SWD # 11	District:	Farmington
Formation:	CLIFFHOUSE	Requested By:	RUSS McQUITTY
County:	SAN JUAN N.M.	Technician:	BEN BARELA
Depth:	2469	Source:	Swab Run #1

PHYSICAL AND CHEMICAL DETERMINATION

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

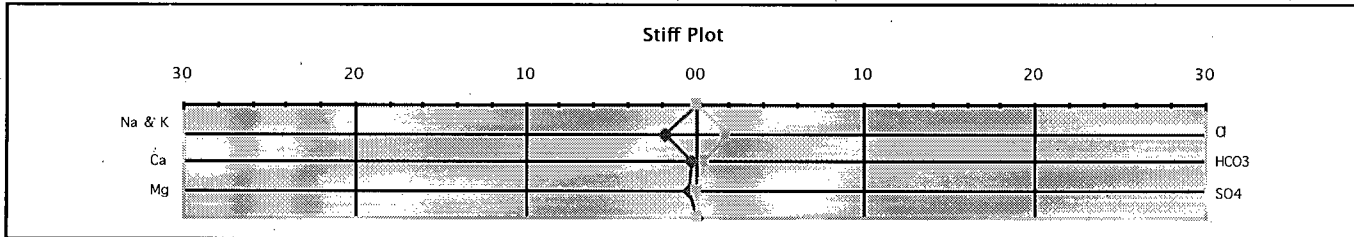


Operator: Rosetta Resources	Sample Date: March 15, 2007
	Analysis Date: March 17, 2007
Well Tsah Tah SWD # 11	District: Farmington
Formation: Menefee	Requested By: RUSS McQUITTY
County: SAN JUAN N.M.	Technician: BEN BARELA
Depth: 3645	Source: Swab Run #1

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

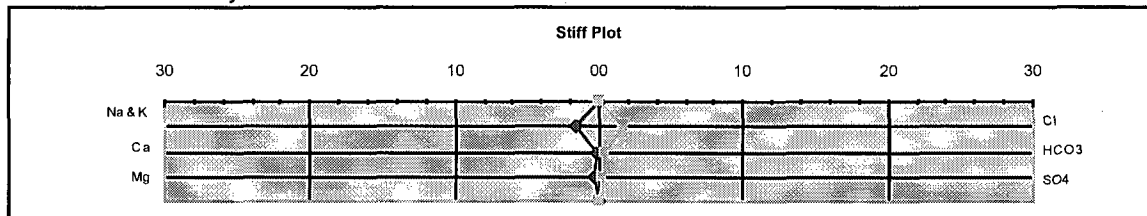


Operator:	Rosetta Resources	Sample Date:	March 15, 2007
		Analysis Date:	March 17, 2007
Well	Tsah Tah SWD # 11	District:	Farmington
Formation:	POINT LOOKOUT	Requested By:	RUSS McQUITTY
County:	SAN JUAN N.M.	Technician:	BEN BARELA
Depth:	4181	Source:	Swab Run #6

PHYSICAL AND CHEMICAL DETERMINATION

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

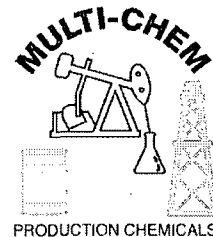
Lease: .

Description:

Location: Farmington, New Mexico

Well: Tsah Tah 2 #4

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:

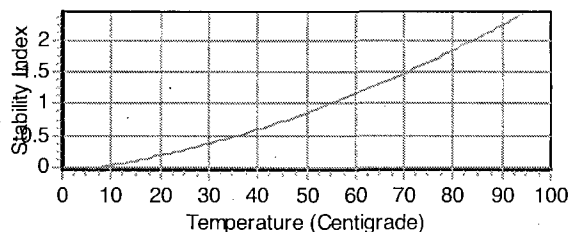
Calcium Carbonate scaling index is positive above 9 degrees Centigrade.
Calcium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.
Barium Sulfate scale is not indicated from 0 to 100 degrees Centigrade.

Remarks:

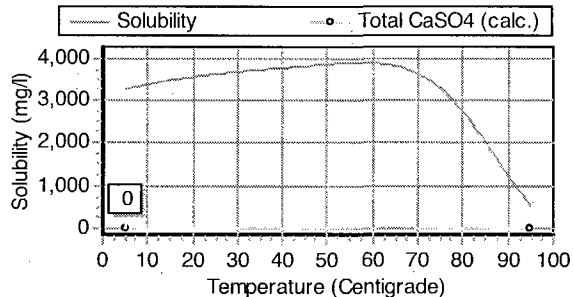
EXHIBIT G

Scaling Indices vs. Temperature

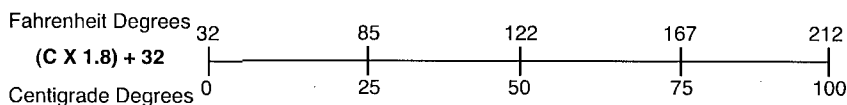
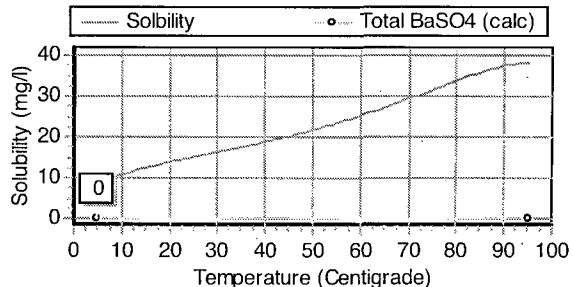
Calcium Carbonate Saturation Index



Calcium Sulfate Solubility



Barium Sulfate Solubility



Water Analysis Analysis #: 1059

Company: Rosetta Resources

Lease: .

Location: Farmington, New Mexico

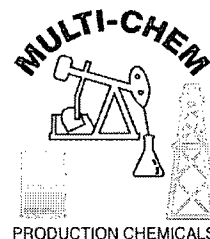
Date: January 16, 2007

Attention: Bryan Enns

Description:

Well: Tsah Tah 33 #2

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

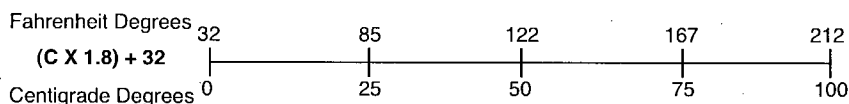
Total Dissolved Solids (Mg/l)	30,462
Total Ionic Strength	0.5402
Maximum CaSO4, (calc.)	0.00
Maximum BaSO4, (calc.)	0.00
Total SRB (colonies/cc)	
Total APB (colonies/cc)	
Total Aerobic (colonies/cc)	
Manganese (Mg/l):	0.43

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.

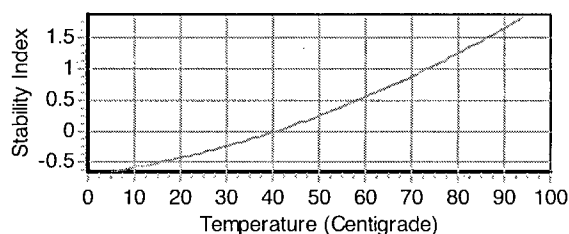
Remarks:

EXHIBIT G

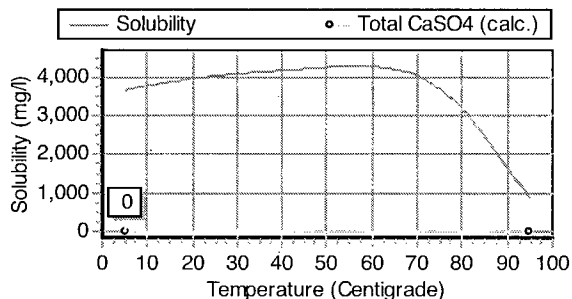


Scaling Indices vs. Temperature

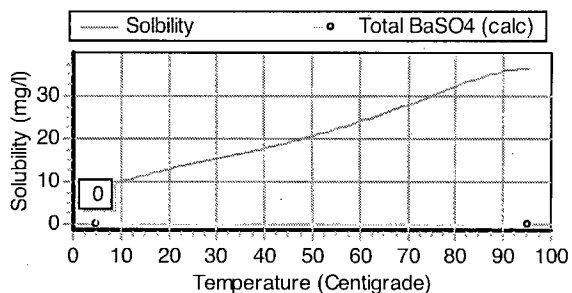
Calcium Carbonate Saturation Index



Calcium Sulfate Solubility



Barium Sulfate Solubility



Water Analysis Analysis #: 1060

Company: Rosetta Resources

Lease: .

Location: Farmington, New Mexico

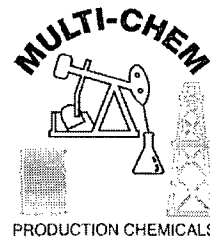
Date: January 16, 2007

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

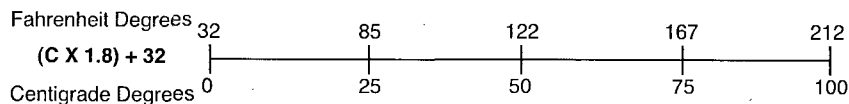
Total Dissolved Solids (Mg/l)	26,851
Total Ionic Strength	0.4905
Maximum CaSO4, (calc.)	2.85
Maximum BaSO4, (calc.)	3.87
Total SRB (colonies/cc)	
Total APB (colonies/cc)	
Total Aerobic (colonies/cc)	
Manganese (Mg/l):	0.26

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.

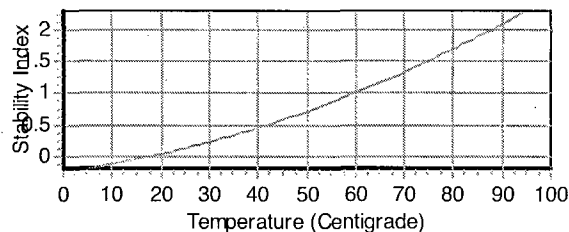
Remarks:

EXHIBIT G

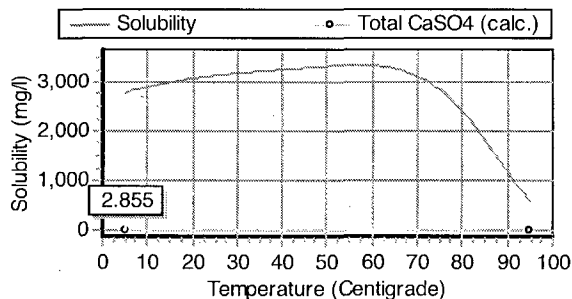


Scaling Indices vs. Temperature

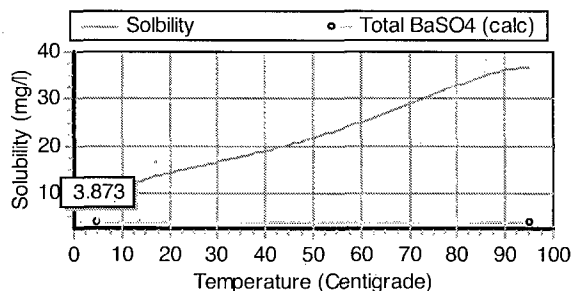
Calcium Carbonate Saturation Index



Calcium Sulfate Solubility



Barium Sulfate Solubility



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

June 2, 2007

Jim Lovato
BLM
1235 LaPlata Highway
Farmington, NM 87401

Dear Jim,

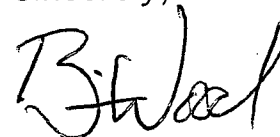
Rosetta Resources Operating LP is applying (see attached application) to amend the approval for its existing Tsah Tah SWD #36 water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed additional water disposal zone. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Tsah Tah SWD #36 Total Depth: ≈4,495'
Additional Disposal Zone: Menefee (from ≈3,325' to ≈4,192')
Location: 1800' FNL & 1360' FWL Sec. 36, T. 25 N., R. 10 W.,
San Juan County, NM on state lease VO-6298-0000
Approximate Location: ≈25 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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OFFICIAL USE

Postage	\$ 4.60
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Return Receipt Fee (Endorsement Required)	2.15
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 9.40

Postmark: JUN 2 2007 SANTA FE, NM 87505

Sent To: BLM + FIMO
Street, Apt. No., or PO Box No.: 1235 LaPlata Hwy
City, State, ZIP+4: Farmington NM 87401

PS Form 3800, June 2002 See Reverse for Instructions

EXHIBIT A

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

June 2, 2007

Jim Stockbridge
FIMO
1235 LaPlata Highway
Farmington, NM 87401

Dear Jim,

Rosetta Resources Operating LP is applying (see attached application) to amend the approval for its existing Tsah Tah SWD #36 water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed additional water disposal zone. This letter is a notice only. No action is needed unless you have questions or objections.

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Additional Disposal Zone: Menefee (from ≈3,325' to ≈4,192')
Location: 1800' FNL & 1360' FWL Sec. 36, T. 25 N., R. 10 W.,
San Juan County, NM on state lease VO-6298-0000
Approximate Location: ≈25 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.

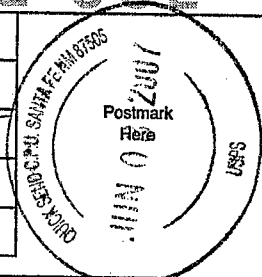
Please call me if you have any questions.

Sincerely,


Brian Wood

7004 1160 0007 4910 6707

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Certified Fee	2.65
Return Receipt Fee (Endorsement Required)	2.15
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 9.40



Sent To	BLM & FIMO
Street, Apt. No., or PO Box No.	1235 LaPlata Hwy
City, State, ZIP+4	Farmington NM 87401

PS Form 3800, June 2002 See Reverse for Instructions

EXHIBIT H

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

June 2, 2007

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

Dear Joe,

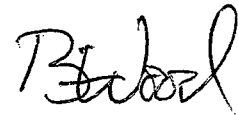
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Well Name: Tsah Tah SWD #36 Total Depth: ≈4,495'
Additional Disposal Zone: Menefee (from ≈3,325' to ≈4,192')
Location: 1800' FNL & 1360' FWL Sec. 36, T. 25 N., R. 10 W.,
San Juan County, NM on state lease VO-6298-0000
Approximate Location: ≈25 air 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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Return Receipt Fee (Endorsement Required)	2.75
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$6.28
Sent To NMSLO	
Street, Apt. No., or PO Box No. PO Box 1148	
City, State, ZIP+4 Santa Fe NM 87504	

EXHIBIT H

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

June 2, 2007

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

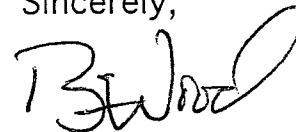
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Well Name: Tsah Tah SWD #36 Total Depth: ~4,495'
Additional Disposal Zone: Menefee (from ~3,325' to ~4,192')
Location: 1800' FNL & 1360' FWL Sec. 36, T. 25 N., R. 10 W.,
San Juan County, NM on state lease VO-6298-0000
Approximate Location: ~25 air 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

2004 1160 0007 4910 6738

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Return Receipt Fee (Endorsement Required)	2.15
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.28
Sent To Kaiser - Francis	
Street, Apt. No., or PO Box No. PO Box 21468	
City, State, ZIP+4 Tulsa OK 74121	

PS Form 3800, June 2002

EXHIBIT H

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

June 2, 2007

Bill Speer
900 Crestview Dr.
Farmington, NM 87401

Dear Bill,

Rosetta Resources Operating LP is applying (see attached application) to amend the approval for its existing Tsah Tah SWD #36 water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed additional water disposal zone. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Tsah Tah SWD #36 Total Depth: ≈4,495'
Additional Disposal Zone: Menefee (from ≈3,325' to ≈4,192')
Location: 1800' FNL & 1360' FWL Sec. 36, T. 25 N., R. 10 W.,
San Juan County, NM on state lease VO-6298-0000
Approximate Location: ≈25 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

7004 1160 0007 4910 6745

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Sent To: B. Speer
Street, Apt. No., or PO Box No.: 900 Crestview
City, State, ZIP+4: Farmington NM 87401

PS Form 3800, June 2002 See Reverse for Instructions

EXHIBIT H

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

June 2, 2007

Kyla Vaughan
XTO Energy Inc.
2700 Farmington Ave., Bldg. K-1
Farmington, NM 87401

Dear Kyla,


Rosetta Resources Operating LP is applying (see attached application) to amend the approval for its existing Tsah Tah SWD #36 water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed additional water disposal zone. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Tsah Tah SWD #36 Total Depth: ≈4,495'
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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

7004 1160 0007 4910 6714

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.28

Sent To XTO

Street, Apt. No.,
or PO Box No. 2700 Farmington Av, K-1

City, State, ZIP+4 Farmington NM 87401

PS Form 3800, June 2002 See Reverse for Instructions

EXHIBIT H

AFFIDAVIT OF PUBLICATION

Ad No. 54980

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 Op erating LP is applying to amend its approval for the Tsah Tah SWD 36 water disposal well. The Tsah Tah SWD 36 is located at 1800' FNL & 1360' FWL, Sec. 36, T. 25 N., R. 10 W., San Juan County, NM. The well is currently approved to dispose of water produced from oil and gas wells into the Point Lookout sand stone at a depth of 4,300' to 4,400' at a maximum rate of 2,000 barrels of water per day and at a maximum pressure of 860 psi. Rosetta is ap plying to add two zones (La Ventana Tongue of the Cliff House and Menefee), increase the volume to a maximum of	3,000 bwpd, and de crease the maximum pressure to 525 psi. If approved in its entire ty, then the disposal interval would be from 2,625' to 4,400'. Interested parties must file objections or requests for hearing with the NM Oil Con servation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional infor mation can be ob tained by contacting Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.	Wednesday April 18, 2007
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3325

*only menefee
is to be added*

Wednesday, April 18, 2007

And the cost of the publication is \$58.59

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. 19, 2008

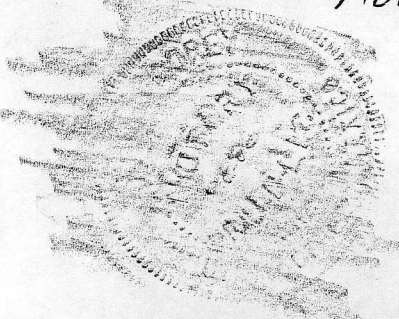


EXHIBIT 1