



9/23/06
in person

SUSPENSE 10/11/06	ENGINEER WJW	LOGGED IN 9/27/06	TYPE SWD	APP NO. PTD50627046316
----------------------	-----------------	----------------------	-------------	---------------------------

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ABOVE THIS LINE FOR DIVISION USE ONLY

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
NSL NSP SD

Rosetta's
Tsah Tah SWD 36

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
WFX PMX SWD IPI EOR PPR

[D] Other: Specify _____

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

- (A) Working, Royalty or Overriding Royalty Interest Owners
- (B) Offset Operators, Leaseholders or Surface Owner
- (C) Application is One Which Requires Published Legal Notice
- (D) Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- (E) For all of the above, Proof of Notification or Publication is Attached, and/or,
- (F) Waivers are Attached

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

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

Print or Type Name

Signature

Title

Date

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

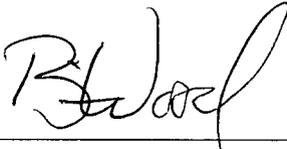
CONSULTANT

9-23-06

e-mail Address

brian@permitswest.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance YES Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: ROSETTA RESOURCES OPERATING LP
ADDRESS: 1200 17TH ST., SUITE 770, DENVER, CO 80202
CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: (505) 466-8120
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes _____ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: BRIAN WOOD  TITLE: CONSULTANT
SIGNATURE: _____ DATE: SEPT. 23, 2006
E-MAIL ADDRESS: brian@permitswest.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

INJECTION WELL DATA SHEET

OPERATOR: ROSETTA RESOURCES OPERATING LP

WELL NAME & NUMBER: TSAH TAH SWD 36

WELL LOCATION: 1800' FNL & 1360' FWL
FOOTAGE LOCATION

UNIT LETTER F

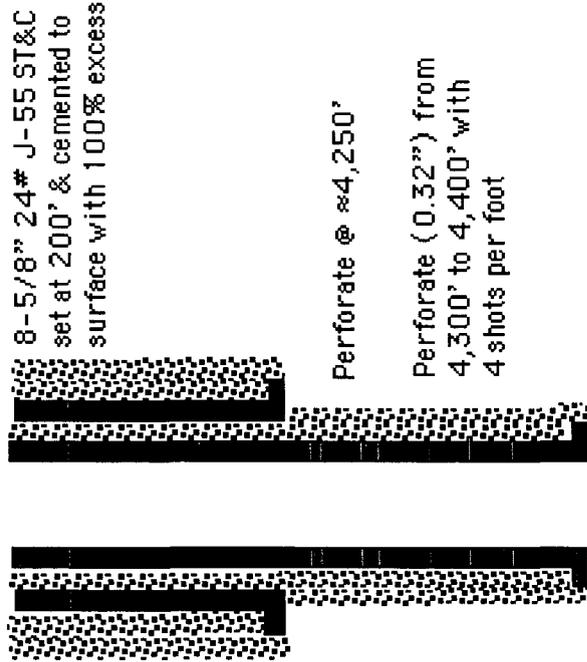
SECTION 36 TOWNSHIP 25 N

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: _____

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

or 165 ft³

Method Determine: VISUAL & CBL

Intermediate Casing

Casing Size: _____

or _____ ft³

Method Determined: _____

Production Casing

Hole Size: 7-7/8"

Cemented with: 800 sacks

Top of Cement: SURFACE

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

or 1,560 ft³

Method Determine: VISUAL & CBL

Total Depth: ≈4,500'

Injection Interval

From ≈4,300 feet To ≈4,400 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? _____ Yes _____ No

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

2. Name of the Injection Formation: POINT LOOKOUT SANDSTONE

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

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

OVER: FRUITLAND COAL (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, NEW MEXICO

PAGE 1

I. Purpose is water disposal.

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

III. A. (1) Lease: NM State Land Office 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
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) will be set at $\approx 200'$ in a 12-1/4" hole and cemented to the surface with $\approx 100\%$ excess. Will use ≈ 165 cubic feet (≈ 140 sacks) Class B cement + 1/4 pound per sack cellophane + 2% CaCl₂ mixed at 15.6 pounds per gallon and 1.18 cubic feet per sack. Top will be visually determined.

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

Lead with $\approx 1,442$ cubic feet (≈ 700 sacks) Class B with 2% SMS + 1/4 pound per sack cellophane + 5 pounds per sack gilsonite. Yield = 2.06 cubic feet per sack. Lead weight = 12.6 pounds per gallon.

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

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

- A. (3) Tubing will be 2-7/8" 6.5# J-55 plastic lined injection string. It will be set at $\approx 4,150'$ (disposal interval will be $\approx 4,300'$ to $\approx 4,400'$).
- A. (4) A 5-1/2" x 2-7/8" compression set packer with an on/off tool or its equivalent will be set within $\approx 50'$ of the highest perforation. Thus, packer will be set at $\approx 4,250'$ which will be $\approx 50'$ above the top perforation at $\approx 4,300'$.
- B. (1) Disposal zone will be the Point Lookout sandstone of the Mesa Verde Formation (Pool 96160). Fracture gradient is expected to be a normal ≈ 0.433 psi per foot.
- B. (2) Disposal interval will be $\approx 4,300'$ to $\approx 4,400'$ (well logs will determine exact interval after drilling). It will be perforated (0.32") with four shots per foot.
- B. (3) Well has not yet been drilled. It will be drilled for the exclusive use by Rosetta and for the sole purpose of water disposal from present and future Rosetta wells. Water analyses from two Basin Fruitland coal gas wells ≈ 5 miles away in Sections 15 and 16 of 24n-10w are attached.
- B. (4) Well bore has not yet been perforated since the well has not yet been drilled. It will be perforated from $\approx 4,300'$ to $\approx 4,400'$ (logs will determine exact interval after drilling).
- B. (5) Top of the Point Lookout is predicted to be $\approx 4,245'$. Oil has been produced elsewhere in the San Juan Basin from the Point Lookout (≈ 35 miles east-southeast in 32-23n-4w at the Otero Point Lookout

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

Field). Bottom of the closest potentially productive zone (Pictured Cliffs) is at $\approx 1,950'$. There will be a $\approx 2,350'$ interval between the bottom of the Pictured Cliffs and the highest injection perforation. Top of the closest underlying actual productive zone (Gallup) is at $\approx 5,170'$. There will be a $\approx 770'$ interval between the lowest injection perforation and the top of the Gallup.

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

V. A map (Exhibit B) showing the two existing wells (both drilled, but uncompleted, Fruitland coal gas wells by Rosetta) within a half mile radius is attached. The same map shows all 50 wells (34 P & A + 13 oil or gas producers + 2 water + 1 disposal) within a two mile radius. Details on the wells within a half mile follow:

<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 35 #1	30-045-33766	SENE Sec. 35	Fruitland coal	1908'	2599'

Exhibit C 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	NMSLO	VO-6298-0000	Rosetta & Yates
SENE, NWSE, & SESW Sec. 36	NMSLO	EO-6644-0021	Kaiser-Francis
N2NE4, W2SW4, NESW, & NESE Sec. 36	NMSLO	EO-3148-0010	Speer

Exhibit D shows all lease holds within a two mile radius. Most leases are BLM. The remainder are Navajo allotted or State.

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

VI. Two wells (both Rosetta operated, both Fruitland Coal gas wells, all casing strings were circulated with excess to the surface) are within a half mile. Neither penetrated the Point Lookout. Schematics showing the casing and cementing details are in Exhibit E. There will be a $\approx 2,392'$ interval between the highest proposed perforation ($\approx 4,300'$) and the deepest total depth (1,908'). Neither existing well has been perforated to date.

<u>WELL</u>	<u>API #</u>	<u>T. 25 N., R. 10 W.</u>	<u>ZONE</u>	<u>TD</u>	<u>SPUD</u>	<u>DISTANCE</u>
Tsah Tah 36 #2	30-045-33753	SWNW Sec. 36	Fruitland coal	1905'	2006	430'
Tsah Tah 35 #1	30-045-33766	SENE Sec. 35	Fruitland coal	1908'	2006	2599'

- VII. 1. Average injection rate will be $\approx 1,500$ bwpd.
 Maximum injection rate will be $\approx 2,000$ bwpd.
2. System will be closed (Rosetta will lay water pipelines with its gas pipelines). Facilities will include a tank battery with skimmer and settling tanks, filters, and an electric injection pump.
3. Average injection pressure will be ≈ 450 psi
 Maximum injection pressure will be ≈ 600 psi (≤ 0.2 psi x depth of top perforation)
4. Water sources will be existing and future Rosetta wells in the San Juan Basin. As this is being written (September 20), Rosetta has not completed any of the 13 Fruitland coal gas wells it has drilled to date. A map (Exhibit F) is attached showing all Rosetta wells approved to date within Townships 24 & 25 North, Range 10 West. The closest (430') is the Tsah Tah 36 #2. Two water analyses from the Point Lookout, Menefee, and Mesa Verde (Exhibit G) are attached. Two produced water analyses from the Basin Fruitland coal (Exhibit H) are attached. A summary follows on the next page.

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

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

Rosetta will try to swab load water back after stimulation and take a Point Lookout water sample. If successful, then the analysis will be provided to the New Mexico Oil Conservation Division.

5. The Point Lookout has not been proven productive within two miles of the proposed well. Indeed, water is being disposed into the Point Lookout at the Sanchez O'Brien #1 well which is ≈8,640' southeast. Point Lookout water near recharge zones (basin fringe) generally has a specific conductance of >1,500 μmhos. Entrada water from deeper parts of the basin has a specific conductance of >59,000 μmhos. Stone et al in Hydrogeology and water resources of San Juan Basin, New Mexico wrote, "The Point Lookout Sandstone is not widely used as a source of water" An analysis of Point Lookout is summarized in the above table.

VIII. The Point Lookout is a very fine to medium grained coastal marine sandstone. It produced oil elsewhere in the basin (e. g., ≈35 miles east-southeast in 32-23n-4w at the Otero Point Lookout Field). It is estimated to be ≈200' thick in the well bore. Top is ≈4,245' and bottom is ≈4,445'. Estimated formation tops are:

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

PAGE 6

Nacimiento: 0'
Ojo Alamo Sandstone: 950'
Kirtland Shale: 1,250'
Fruitland formation: 1,650'
Pictured Cliffs Sandstone: 1,750'
Lewis Shale: 1,950'
Point Lookout Sandstone: 4,245'
Mancos Shale: 4,445'
Total Depth: 4,500'

There are two water wells within a two mile radius (see Exhibit B). Both are over 1-3/4 miles away. Well depths are 637' and 1100'. Water depths, respectively, are 250' and 1,073'.

No existing underground drinking water sources are below the Point Lookout within a two mile radius. There will be >3,000' of vertical separation between the bottom of the lowest existing underground water source (Ojo Alamo) and the top of the Point Lookout.

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

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

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

XII. Rosetta is not aware of any geologic or engineering data which may indicate the Point Lookout is in hydrologic connection with any underground sources of water. There are two shale zones (Kirtland and Lewis) and will be >3,000' of vertical separation between the top (\approx 4,245') of the Point Lookout and the bottom (1,100') of the closest water well.

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

PAGE 7

XIII. Notice (this application) has been sent (Exhibit I) 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 J) was published on September 22, 2006.

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

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

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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-	² Pool Code 96160	³ Pool Name SWD; MESA VERDE
⁴ Property Code 35713	⁵ Property Name TSAH TAH SWD	⁶ 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

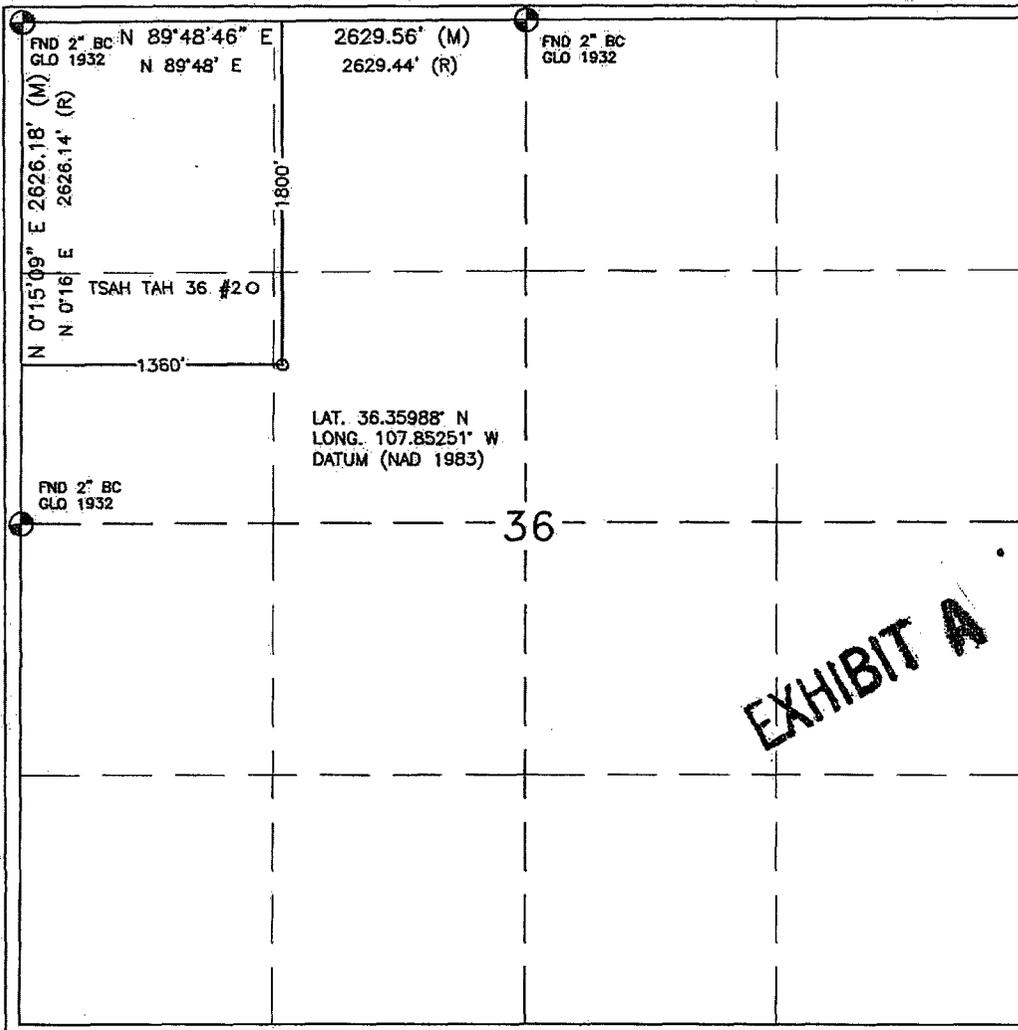
¹¹ Bottom Hole Location If Different From Surface

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

Brian Wood

Signature **BRIAN WOOD**

Printed Name **CONSULTANT**

Title **SEPT. 23, 2006**

Date

¹⁸ SURVEYOR CERTIFICATION

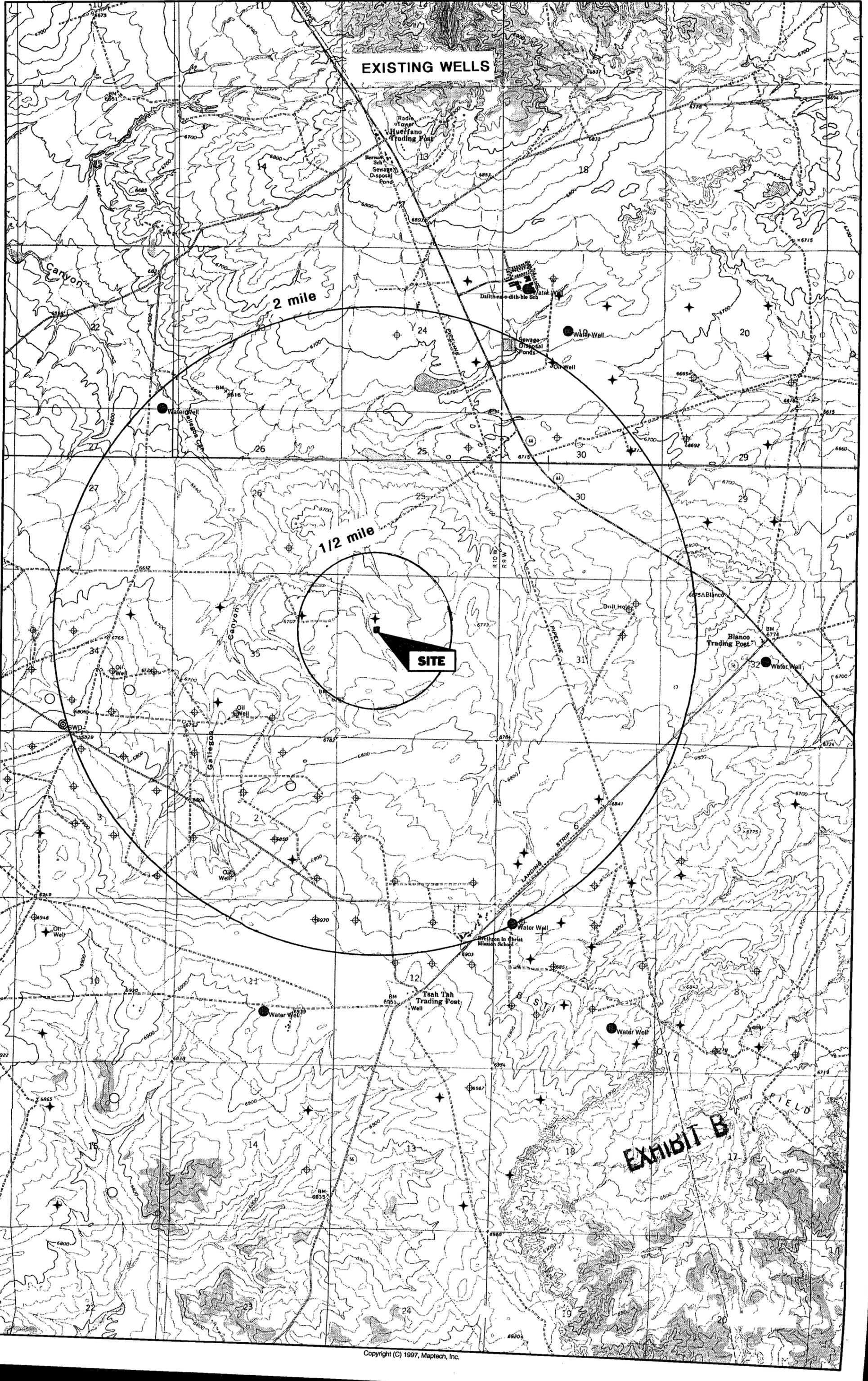
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

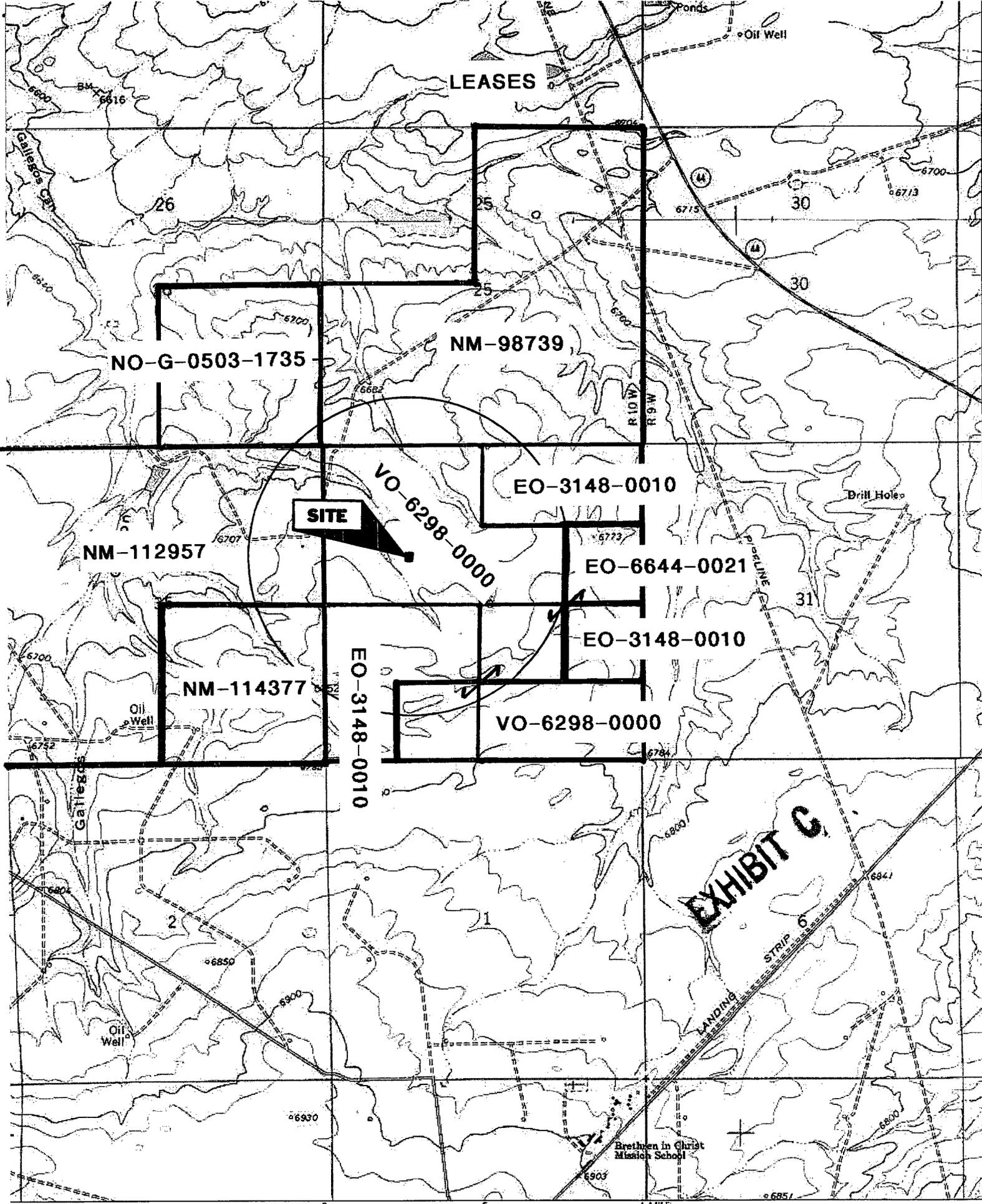
JUNE 12 2006
Date of Survey
Signature and Seal of Professional Surveyor:
David Russell
REGISTERED PROFESSIONAL LAND SURVEYOR
DAVID RUSSELL

Certificate Number 10201

EXHIBIT A

EXISTING WELLS





LEASES

NO-G-0503-1735

NM-98739

NM-112957

NM-114377

EO-3148-0010

EO-6644-0021

EO-3148-0010

EO-3148-0010

VO-6298-0000

SITE

VO-6298-0000

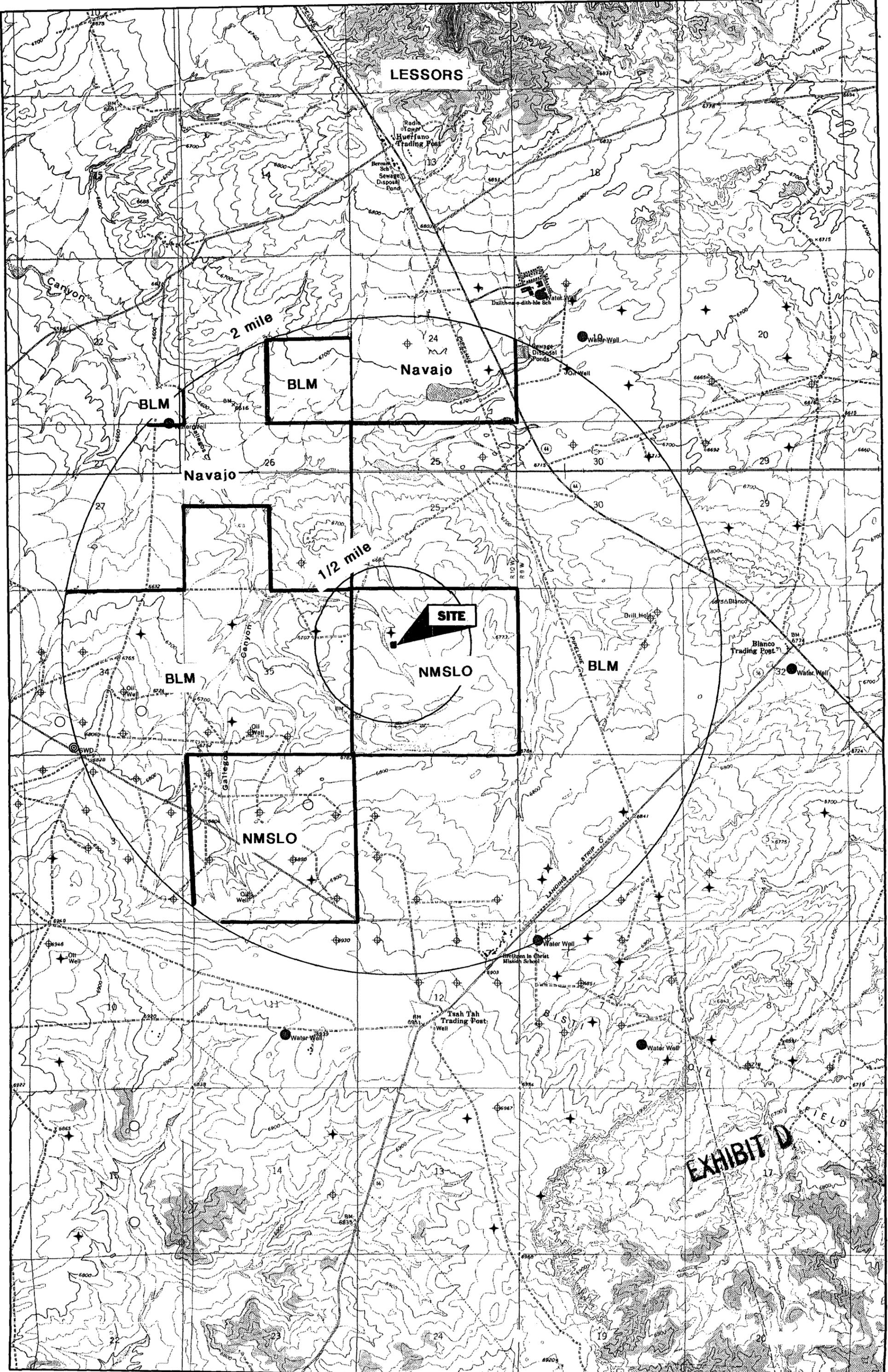
EXHIBIT C

LANDING STRIP 6

TN 11° MN

0 1000 FEET 0 500 1000 METERS

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)



LESSORS

Navajo

BLM

BLM

Navajo

SITE

NMSLO

BLM

BLM

NMSLO

Tsah Tah Trading Post

Blanco Trading Post

EXHIBIT D

TSAH TAH 36 #2

API# 30-045-33753

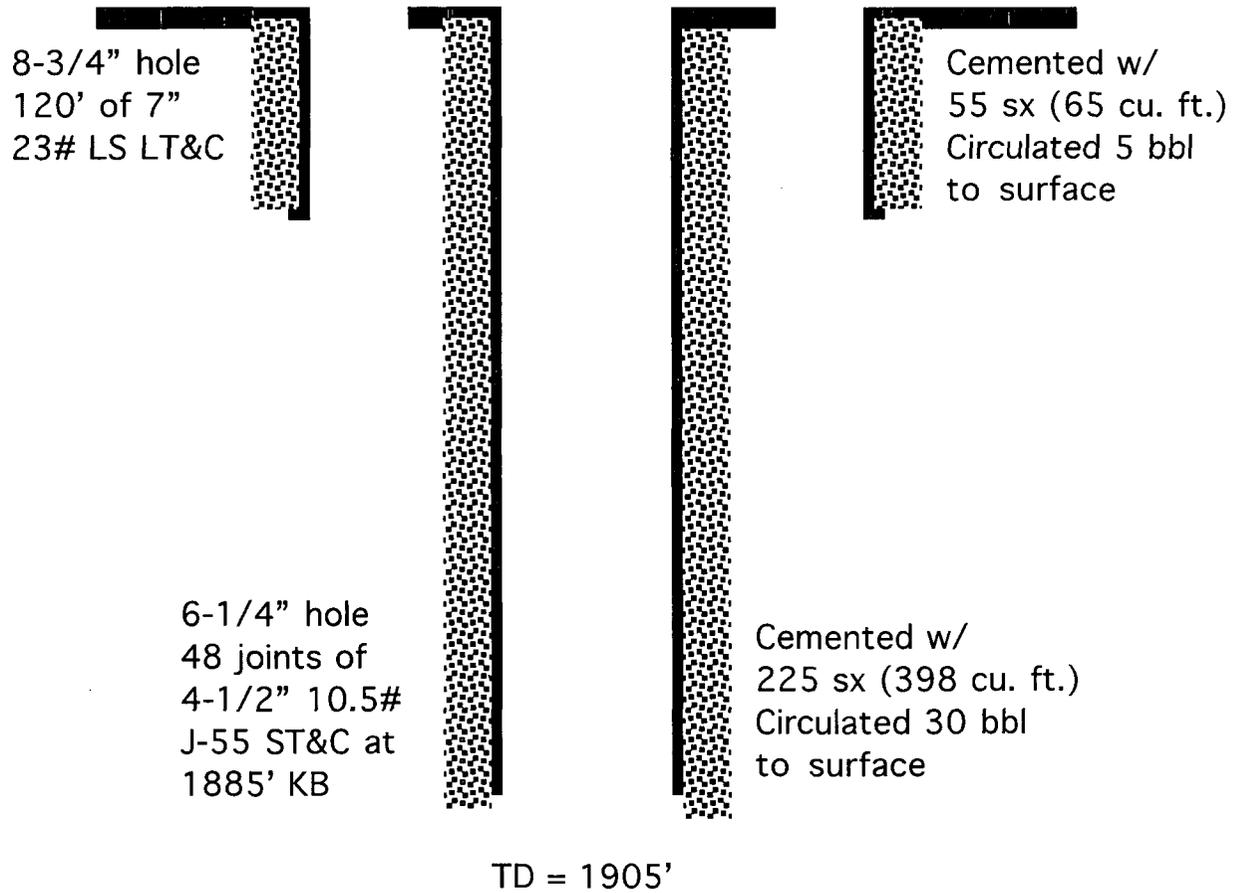


EXHIBIT E

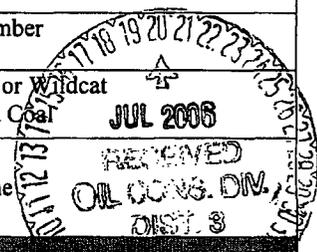
Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-045-33753
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name TSAH TAH
8. Well Number 36 #2
9. OGRID Number 239235
10. Pool name or Wildcat Basin Fruitland Coal



SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
ROSETTA RESOURCES

3. Address of Operator C/O Thompson Engineering & Prod. Corp.
7415 East Main Street, Farmington, NM 87402

4. Well Location
Unit Letter E : 1400' feet from the NORTH line and 1200' feet from the WEST line
Section 36 Township 25N Range 10W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6733' GL

Pit or Below-grade Tank Application or Closure

Pit type	Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water
Pit Liner Thickness:	mil	Below-Grade Tank: Volume bbls;	Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input checked="" type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

7/6/06
~~06/29/06~~ spud 8-3/4" surface hole. Drilled to 130' KB. Ran 3 jts (119.97') of 7", 23#, LS, LT&C, new LS casing and set casing At 125' KB. Cemented with 55 sx (65 cu.ft.) of Type 5, 3% CaCl2 and 1/4# /sk celloflake. Circulated 5.0 bbls of good cement to Surface.

07/07/06 Nipped up the BOP and pressure tested the casing and BOP to 1000 psi.

7/9/06
~~06/28/06~~ TD 6-1/4" hole at 1905'. Ran 48 jts of 4-1/2", 10.5#, J-55, ST&C production casing and landed at 1885.19'KB. Insert float is at 1864'KB. Cemented with 150 sx (309 cu.ft.) of Type 5, with 2% sodium metasilicate, 1/4# /sk celloflake, followed by 75 sx (89 cu.ft.) of Type 5, with 1/4# celloflake. Bumped plug to 1500 psi. Circulated 30 bbls of cement to the surface. *Rel rig 7-10-06.*

EXHIBIT E

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE Paul C. Thompson TITLE Agent / Engineer DATE 06/30/06

Type or print name Paul C. Thompson, P.E. E-mail address: paul@walsheng.net Telephone No. 505-327-4892

For State Use Only

APPROVED BY: H. Villanueva TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 3 DATE JUL 20 2006

Conditions of Approval (if any):

BS

TSAH TAH 35 #1

API# 30-045-33766

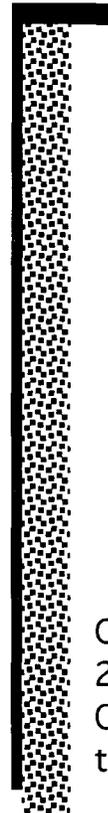
8-3/4" hole
116' of 7"
20# J-55 LS
ST&C



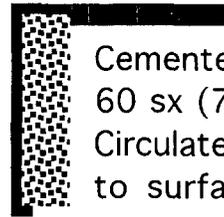
6-1/4" hole
49 joints of
4-1/2" 10.5#
J-55 ST&C at
1886' KB



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



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



TD = 1908'

EXHIBIT E

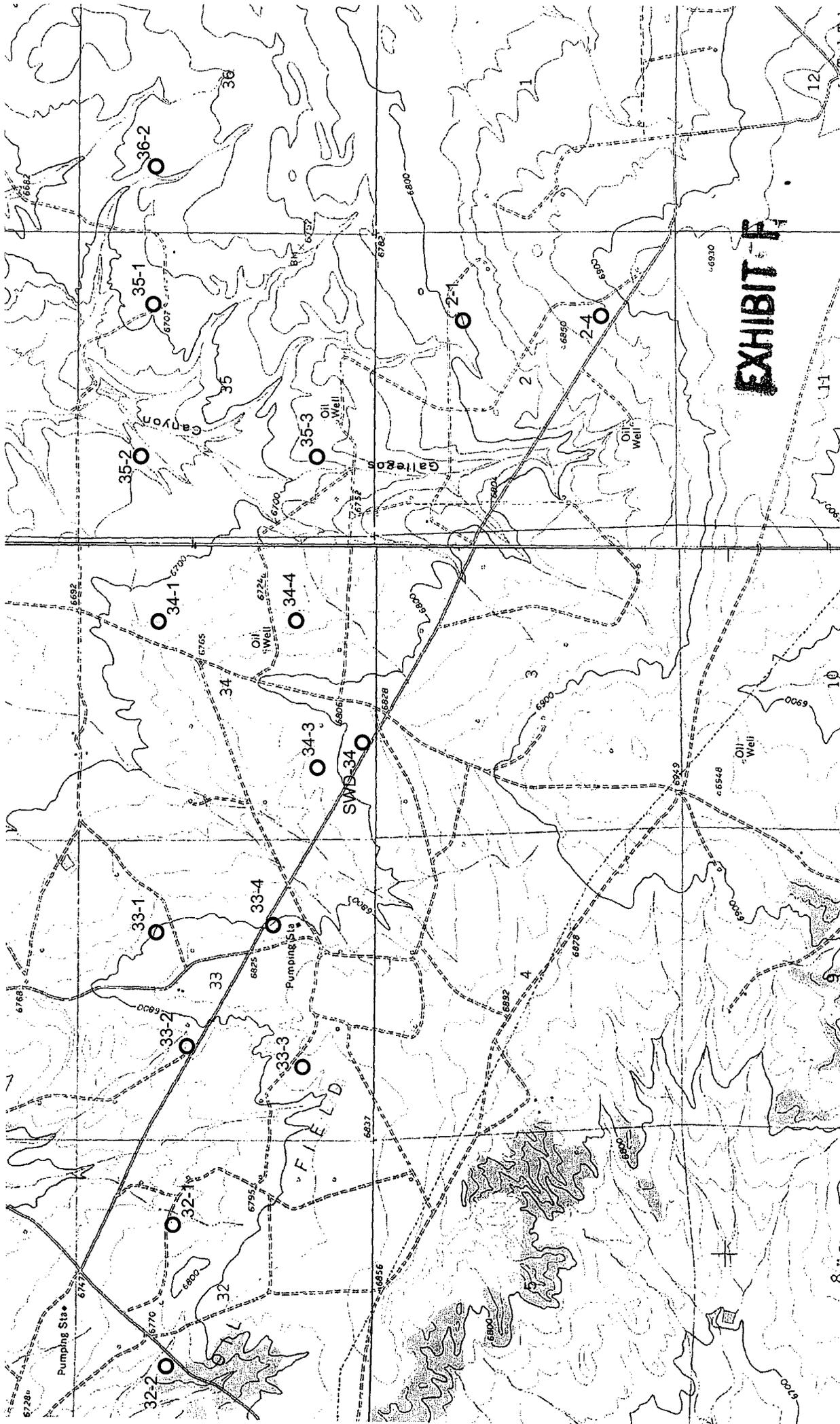


EXHIBIT F

J-1

10

9

8

ENVIROTECH LABS

Practical Solutions for a Better Tomorrow

CATION / ANION ANALYSIS

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

Parameter	Analytical Result	Units		
pH	7.06	s.u.		
Conductivity @ 25° C	35,300	umhos/cm		
Total Dissolved Solids @ 180C	21,520	mg/L		
Total Dissolved Solids (Calc)	21,750	mg/L		
SAR	88.4	ratio		
Total Alkalinity as CaCO3	814	mg/L		
Total Hardness as CaCO3	1,480	mg/L		
Bicarbonate as HCO3	814	mg/L	13.34	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	2.50	mg/L	0.04	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	12,450	mg/L	351.21	meq/L
Fluoride	2.48	mg/L	0.13	meq/L
Phosphate	25.2	mg/L	0.80	meq/L
Sulfate	326	mg/L	6.79	meq/L
Iron	57.1	mg/L	2.04	meq/L
Calcium	417	mg/L	20.81	meq/L
Magnesium	106	mg/L	8.72	meq/L
Potassium	118	mg/L	3.02	meq/L
Sodium	7,810	mg/L	339.74	meq/L
Cations			372.28	meq/L
Anions			372.31	meq/L
Cation/Anion Difference			0.01%	

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

Comments: Juniper #4 SWD.

17-247-10d

EXHIBIT G

[Signature]
Analyst

660 FS
2015 FW

[Signature]
Review

16-24w-10w

* Basin
Fruitland coal

612 E. Murray Drive
Farmington, NM 87499

P.O. Box 3788
Shiprock, NM 87420

iiná bá

Off: (505) 327-1072

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

ANALYTICAL REPORT

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

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

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED						
		SW6010B		(SW6010B)		Analyst: JLE
Iron	ND	0.225		mg/L	1.25	8/29/2005 1:47:05 PM
Magnesium	27.9	1.30		mg/L	100	8/29/2005 10:52:19 AM
Calcium	121	4.10		mg/L	100	8/29/2005 10:52:19 AM
Sodium	4910	13.0		mg/L	100	8/29/2005 10:52:19 AM
Potassium	21.6	11.0		mg/L	100	8/29/2005 10:52:19 AM
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: JLE
Chloride	8340	100		mg/L	1000	8/30/2005
Sulfate	0.210	0.100		mg/L	1	8/29/2005
ALKALINITY, TOTAL						
		M2320 B				Analyst: JEM
Alkalinity, Bicarbonate (As CaCO3)	469	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Total (As CaCO3)	469	5		mg/L CaCO3	1	8/29/2005
HARDNESS, TOTAL						
		M2340 B				Analyst: JEM
Hardness (As CaCO3)	420	1		mg/L	1	9/2/2005
PH						
		E150.1				Analyst: JEM
pH	7.59	1.00		pH units	1	8/26/2005
Temperature	25.1	0		Deg C	1	8/26/2005
RESISTIVITY (@ 25 DEG. C)						
		M2510 C				Analyst: JEM
Resistivity	0.426	0.001		ohm-m	1	8/26/2005
SPECIFIC GRAVITY						
		M2710 F				Analyst: JEM
Specific Gravity	1.006	0.001		Units	1	8/26/2005
TOTAL DISSOLVED SOLIDS						
		E160.1				Analyst: JEM
Total Dissolved Solids (Residue, Filterable)	13900	40		mg/L	1	8/30/2005
TOTAL DISSOLVED SOLIDS						
		M1030F				Analyst: JEM
Total Dissolved Solids (Calculated)	13700	5		mg/L	1	9/2/2005

EXHIBIT H

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

15-24a-10w

* Basin
Fruitland

612 E. Murray Drive
Farmington, NM 87499

P.O. Box 3788
Shiprock, NM 87420

iiná bá

Off: (505) 327-1072

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

ANALYTICAL REPORT

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

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

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED						
		SW6010B		(SW6010B)		Analyst: JLE
Iron	0.749	0.225		mg/L	1.25	8/29/2005 1:52:33 PM
Magnesium	31.6	1.30		mg/L	100	8/29/2005 11:01:45 AM
Calcium	133	4.10		mg/L	100	8/29/2005 11:01:45 AM
Sodium	5410	13.0		mg/L	100	8/29/2005 11:01:45 AM
Potassium	75.8	11.0		mg/L	100	8/29/2005 11:01:45 AM
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: JLE
Chloride	8840	100		mg/L	1000	8/30/2005
Sulfate	0.206	0.100		mg/L	1	8/29/2005
ALKALINITY, TOTAL						
		M2320 B				Analyst: JEM
Alkalinity, Bicarbonate (As CaCO3)	411	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	8/29/2005
Alkalinity, Total (As CaCO3)	411	5		mg/L CaCO3	1	8/29/2005
HARDNESS, TOTAL						
		M2340 B				Analyst: JEM
Hardness (As CaCO3)	480	1		mg/L	1	9/2/2005
PH						
		E150.1				Analyst: JEM
pH	7.34	1.00		pH units	1	8/26/2005
Temperature	25.5	0		Deg C	1	8/26/2005
RESISTIVITY (@ 25 DEG. C)						
		M2510 C				Analyst: JEM
Resistivity	0.408	0.001		ohm-m	1	8/26/2005
SPECIFIC GRAVITY						
		M2710 F				Analyst: JEM
Specific Gravity	1.008	0.001		Units	1	8/26/2005
TOTAL DISSOLVED SOLIDS						
		E160.1				Analyst: JEM
Total Dissolved Solids (Residue, Filterable)	14300	40		mg/L	1	8/30/2005
TOTAL DISSOLVED SOLIDS						
		M1030F				Analyst: JEM
Total Dissolved Solids (Calculated)	14700	5		mg/L	1	9/2/2005

EXHIBIT H

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

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

PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87508.

(505) 466-8120

September 23, 2006

BLM
1235 LaPlata Highway
Farmington, NM 87401

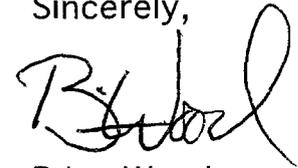
Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD 36 water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless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

Well Name: Tsah Tah SWD 36 Total Depth: ≈4,500'
Proposed Disposal Zone: Point Lookout (from ≈4,200' to ≈4,300')
Location: 1800' FSL & 1360' FWL Sec. 36, T. 25 N., R. 10 W.,
San Juan County, NM on NMSLO 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

7003 0500 0064 2599 0536
9E5D 6A52 4900 0050 E001

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		
FARMINGTON NM 87401		
Postage	\$ 1.83	0991
Certified Fee	\$2.40	01
Return Receipt Fee (Endorsement Required)	\$1.85	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 6.08	09/23/2006
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 1

PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87508.

(505) 466-8120

September 23, 2006

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

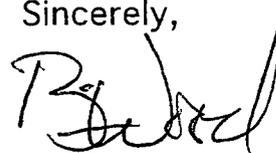
Rosetta Resources Operating LP is applying (see attached application) to drill its Tsah Tah SWD 36 water disposal well. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless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

Well Name: Tsah Tah SWD 36 Total Depth: ≈4,500'
Proposed Disposal Zone: Point Lookout (from ≈4,200' to ≈4,300')
Location: 1800' FSL & 1360' FWL Sec. 36, T. 25 N., R. 10 W.,
San Juan County, NM on NMSLO 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

0550 6652 7890 0050 0001

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

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

TULSA OK 74121 **OFFICIAL USE**

Postage	\$	\$1.11
Certified Fee		\$2.40
Return Receipt Fee (Endorsement Required)		\$1.85
Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$5.36

0991
01
Postmark
Here
09/23/2006

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

PS Form 3800, June 2002 See Reverse for Instructions

EXHIBIT 1

Name (Primary) : PERMITS WEST, INC.

Company (Primary) :

Ad # : 1000471278

Width : 1

Depth : 41

Surface : 41.00

Ad Sales Rep. : 747 - Denise Henson

Class Code : 0152 - Legal Notices

Ad Type :

Account # : 1226679

Start Date : 09/22/06

Stop Date : 09/22/06

Rate : FMLEGREG - FARMINGTON LEGAL REGULAR

Box Number : 0 - (None)

Ad Rated Cost : \$34.25

Extra : \$17.38

Total : \$51.63

Run Status : I

NOTICE

Rosetta Resources Operating LP is applying to drill the Tsah Tah SWD 36 as a water disposal well. The Tsah Tah SWD 36 will be located at 1800' FNL & 1360' FWL, Sec. 36, T. 25 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 4,300' to 4,400' at a maximum rate of 2,000 barrels of water per day and at a maximum pressure of 600 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. 54055 published in The Daily Times, Farmington, New Mexico on Friday, September 22, 2006.

EXHIBIT J

Injection Permit Checklist

SWD Order Number 1053 Dates: Division Approved _____ District Approved _____

Information Request Letter or Email sent _____

Well Name/Num: TAH TAH SWD #36 Date Spudded: New

API Num: (30-) 045-3942 County: San Juan

Footages 1800 FNL/1360 FWL Sec 36 Tsp 25N Rge 6W

Operator Name: Rosetta Resource Oparty LP Contact Brian Wood Permit West, INC
 Operator Address: 1200 17th SE SUITE 770 Denver CO 80202 37 U. Avenue
SF. NM 87508

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	12 1/4 8 5/8	200'	140	Surf.
Intermediate				
Production	7 7/8 5 1/2	4500	800	Surf (CBL)
Last DV Tool				
Open Hole/Liner				
Plug Back Depth				

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

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

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash			
Capitan Reef			
<u>Cliff House, Etc:</u>	<u>8</u>		
Formation Above	<u>1750</u>	<u>P.C.</u>	
Top Inj Interval	<u>4300</u>	<u>Pt Lookout (MURD)</u>	<u>860</u> PSI Max. WHIP
Bottom Inj Interval	<u>4400</u>	<u>?</u>	<u>NO</u> Open Hole (Y/N)
Formation Below	<u>5150'</u>	<u>Gallup</u>	<u>NO</u> Deviated Hole (Y/N)

Fresh Water Site Exists (Y/N) _____ Analysis Included (Y/N): _____

Salt Water Analysis: Injection Zone (Y/N/NA) NO Disposal Waters (Y/N/NA) _____ Types: PLG./MURD/MURD/F.R.C.

Affirmative Statement Included (Y/N): Newspaper Notice Adequate (Y/N) Well Table Adequate (Y/N)

Surface Owner SLO. Noticed (Y/N) Mineral Owner(s) _____

AOR Owners: Rosetta only Noticed (Y/N)

~~CID/Potash/Etc Owners:~~ Noticed (Y/N) _____

AOR Num Active Wells 8 Repairs? _____ Producing in Injection Interval in AOR _____

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

Data to Generate New AOR Table

New Table Generated? (Y/N) _____

	STR	E-W Footages	N-S Footages
Wellsite			
Northeast			
North			
Northwest			
West			
Southwest			
South			
Southeast			
East			

Conditions of Approval:

- Run CBL
- Swab test PLO.
- Run Induct Log
-

RBDMS Updated (Y/N) _____

UIC Form Completed (Y/N) _____

This Form completed 10/18/06