29-June-07		W. Jones	02. July-07	SWD	PCLP0718333573
DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

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

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]

RECEIVED
JUN 29 2007
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

[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 _____

[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.

Loren Fothergill	Loren W Fothergill	Sr Prod Engineer	6-21-07
Print or Type Name	Signature	Title	Date

Loren_Fothergill@xtoenergy.com
e-mail Address

Jones, William V., EMNRD

From: Anne_Jones@xtoenergy.com
Sent: Thursday, September 13, 2007 3:06 PM
To: Jones, William V., EMNRD
Cc: Ezeanyim, Richard, EMNRD; Hayden, Steven, EMNRD; Loren_Fothergill@xtoenergy.com; Trenis_Lusk@xtoenergy.com; Paul_Lehrman@xtoenergy.com; Diane_Jaramillo@xtoenergy.com
Subject: RE: SWD application on behalf of XTO Energy: Kutz Federal SWD #1 30-045-34317 Point Lookout

Hello Will Jones

A decision has been reached not to move the well but to accept the stiuplation for the submitted application to raise the cement on the old well (old 1959 well) 30-045-06909 located
NW/4 NE/4 Sec 6, T27N, R10W, to isolate the Point Lookout from the rest of the Mesaverde and from any formations below the Point Lookout.
Please note that our mailing address has changed. Please send the approved application to my attention at the address listed.

Let me know if you have any further questions.

Thank you.
Anne

Anne Jones
Surface Use Coordinator
XTO Energy, Inc.
382 Road 3100
Aztec, NM 87410
Office 505-333-3213
Cell 505-320-0302

"Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
09/12/2007 05:05 PM

To <Anne_Jones@xtoenergy.com>
cc "Hayden, Steven, EMNRD" <steven.hayden@state.nm.us>, "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>
Subject RE: SWD application on behalf of XTO Energy: Kutz Federal SWD #1 30-045-34317 Point Lookout

Hello Anne Jones:
Did you or someone with XTO reply to the questions below? I've been on other projects and may have missed it. Did they decide on another exact location to drill this well?

Thank You,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

-----Original Message-----
From: Jones, William V., EMNRD
Sent: Friday, August 24, 2007 1:00 PM
To: 'Anne_Jones@xtoenergy.com'
Cc: Hayden, Steven, EMNRD; Ezeanyim, Richard, EMNRD
Subject: RE: SWD application on behalf of XTO Energy: Kutz Federal SWD #1 30-045-34317 Point Lookout

Hello Anne:
Your proposal to move the injection well sounds fine, however, first for my files:

The 30-045-06909 well which would be just over 1/2 mile from your proposed injection well is not cemented from 4630 feet up to 1896 feet.

Please evaluate any production from any interval with depths from 4630 to 1900 feet deep in this general area and any give an opinion on any possible effect that injection from 3973 to 4259 could cause to this production if it entered this uncemented wellbore and traveled up or down.

Your application states that there are no Mesaverde production for miles and this should not be in a sensitive Mesaverde water aquifer area.

What depth is the Kutz; Gallup Pool oil production in this area and how could this injection effect the gallup production?

Are there any other prospective intervals in this depth range that XTO may perforate in the future that could be harmed by this injection?

Please have your geologist or engineer look at this and let me know in writing what they think. If OK and OK with Steve Hayden, I will release this order.

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

-----Original Message-----
From: Anne_Jones@xtoenergy.com [mailto:Anne_Jones@xtoenergy.com]
Sent: Friday, August 24, 2007 10:53 AM
To: Jones, William V., EMNRD
Subject: RE: SWD application on behalf of XTO Energy: Kutz Federal SWD #1 30-045-34317 Point Lookout

It appears that the well is question is <100' inside the area of concern.
If we moved the SWD location >100' on the same well pad which would make the well in question fall outside the area of concern, would this be acceptable?

Thank you

Anne Jones
505-320-0302
Anne_Jones@xtoenergy.com

	"Jones, William V., EMNRD" <William.V.Jones	
To	@state.nm.us>	<Anne_Jones@xtoenergy.com>
cc	08/15/2007 03:22 PM	"Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>, "Perrin, Charlie, EMNRD" <charlie.perrin@state.nm.us>
Subject		RE: SWD application on behalf of XTO Energy: Kutz Federal SWD #1 30-045-34317 Point Lookout

Hello Ms Jones:
Looks like I can release this SWD order - BUT with the stipulation that XTO raise the cement top on the (old 1959 well) 30-045-06909 located
NW/4 NE/4 Sec 6, T27N, R10W, to isolate the Point Lookout from the rest of the Mesaverde and from any formations below the Point Lookout. This would be the case for any other well not adequately cemented.

As a suggestion: Since you are drilling this well for injection - you may want to move to a location that does not have uncemented wells near or in the 1/2 mile area of review.

Mark Fesmire has re-iterated recently the OCD practice that does not allow us to administratively permit SWD wells when any AOR well does not have cement covering the equivalent injection interval. You could pursue this at hearing, but results of a hearing may not be predictable.

Let me know if you want the "conditional" order released?

Regards,

William V. Jones PE

2700 Farmington Ave, K-1 Farmington, NM 87401
Phone: (505) 324-1090 FAX: (505) 564-6700

RECEIVED
2007 JUN 29 AM 10 28

June 28, 2007

State of New Mexico
Oil Conservation Division
Mr. William Jones
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Salt Water Disposal Application
Kutz Federal SWD #1
Section 6, Township 27 North, Range 10 West, NMPM
San Juan County, New Mexico

Dear Mr. Jones:

XTO Energy Inc. is applying for the referenced salt-water disposal Well. Enclosed please find one original and one copy of the complete application. A copy has been furnished to the Aztec OCD Office and the Farmington BLM Office.

Should you require further documentation please feel free to call my cell phone 505-320-0203 or e-mail Anne_Jones@xtoenergy.com and I will be happy to furnish any additional information.

Mr. Loren Fothergill is the engineer in charge should you need clarification of engineering data and is available at the number listed above.

Thank you for your prompt attention to this matter.

Yours truly,

Anne Jones
Surface Use Coordinator

Cc: Aztec OCD
BLM - Farmington

2700 Farmington Ave, K-1 Farmington, NM 87401
Phone: (505) 324-1090 FAX: (505) 564-6700

PROPOSED SALT WATER DISPOSAL WELL

KUTZ FEDERAL SWD #1

ORIGINAL

2700 Farmington Ave, K-1 Farmington, NM 87401
Phone: (505) 324-1090 FAX: (505) 564-6700

GRD = 5380

KUTZ FEDERAL SWD #1

PROPOSED SALT WATER DISPOSAL WELL

Sec 6 T27N – R10W NMPM

SAN JUAN COUNTY, NEW MEXICO

30-045-34317

2375 FNL / 1445 FWL

TABLE OF EXHIBITS

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance ___X___Disposal _____Storage
Application qualifies for administrative approval? _____Yes _____No

II. OPERATOR: XTO Energy Inc.

ADDRESS: 2700 Farmington Avenue, Bldg K, Ste 1, Farmington, NM 87401

CONTACT PARTY: Loren Fothergill PHONE: 505-564-6703

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 ___X___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: Loren Fothergill TITLE: _____

SIGNATURE: Loren W Fothergill DATE: 6-25-07

E-MAIL ADDRESS: Loren_Fothergill@xtoenergy.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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

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

Type of Packer: Baker Model D

Packer Setting Depth: ± 3900'

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

Additional Data

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

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

2. Name of the Injection Formation: Mesa Verde Point Lookout

3. Name of Field or Pool (if applicable): _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: OVERLYING Fruitland Formation 1347'-1645', Lower Fruitland Coal 1645'-1652', Pictured Cliffs Sandstone 1652'1842',

   UNDERLYING Gallup Sandstone 5212'-5958', Dakota Sandstone 6059'-6306'

Side 1

INJECTION WELL DATA SHEET

OPERATOR: XTO Energy Inc.

WELL NAME & NUMBER: Kutz Federal SWD #1

WELL LOCATION:	2375' FNL & 1445' FWL	E	6	27N	10W
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 270 sx. ***or*** 376 ft^3

Top of Cement: Surface Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 8.75" Casing Size: 7"

Cemented with: _____ sx. ***or*** 910 ft^3

Top of Cement: Surface Method Determined: _____

Total Depth: 4260'

Injection Interval

3973' feet to 4259'

(Perforated) or Open Hole; indicate which)

XTO ENERGY, INC.
KUTZ FEDERAL SWD #1
2060'FNL & 1500' FWL
SEC. 6, T. 27 N., R. 10 W.
SAN JUAN COUNTY, NEW MEXICO

I. Purpose is water disposal.

II. Operator is: XTO Energy, Inc. (formerly Cross Timbers Operating Company)
Operator phone number is: (505) 324-1090
Operator address is: 2700 Farmington Ave., Bldg. K, Suite 1
Farmington, NM 87401
Contact is: Loren Fothergill, Engineer, Phone is (505) 324-1090.

III. A. (1) Lease is 2,108.35 acres.
Lease includes SENW of Section 6, T27N, R10W.
Well is 1,445' from the closest lease line.
Well name and number will be the Kutz Federal SWD #1.
Well will be at 2,375' FNL and 1,445' FWL Sec. 6, T. 27 N., R. 10 W.

A. (2) Surface casing (9-5/8", 36#, J-55, ST&C) will be set at ≈ 600' in a 12-1/4" hole and cemented to the surface with ≈270 sacks (100% excess) type III cement. Top will be determined by visual observation. Cement will be mixed at ≈ 14.2 ppg and ≈ 1.54 cubic feet per sack with ¼ #/sk cello and 2 % CaCl2. Production casing (7", 23#, J-55, ST&C) will be set at ≈ 4,260' in a 8-3/4" hole with DV tool @ 3,000'. Cement 1st stage with 172 sx Type III or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 14.2 ppg, 1.54 cu ft/sx, 8.00 gal/sx. Cement 2nd Stage with ±199 sx of Type III or equivalent cement with 8% gel & LCM mixed at 11.9 ppg, 2.54 ft^3/sk, 15.00 gal wtr/sx. Tail in with 100 sx Type III or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 14.2 ppg, 1.54 cuft/sx, 8.00 gal/sx. Exact volume will be determined by open hole caliper log + 35 % excess.
Casing will be hydraulically pressure tested before perforating.

A. (3) Tubing will be 2-7/8" 6.5# internal plastic lined injection string. It will be set at ≈ 3,900' (disposal interval will be ≈ 4,000' to ≈ 4,100').

A. (4). If a permanent packer is used, then a Baker Model D packer or its equivalent will be set at ≈ 3,900' (which will be ≈ 85' above top perforation) with an anchor seal assembly stung into the packer. If a retrievable packer is used, then a Baker Lok-set packer or its equivalent with an on/off tool assembly will be set at ≈ 3,900'.

B. (1) Disposal zone will be Mesaverde sandstone. Fracture gradient is expected to be a normal ≈0.65 psi per foot.

B. (2) Disposal interval will be ≈4,000' to ≈ 4,100' (well logs will determine exact interval after drilling). It will be perforated (0.40") with four shots per foots.

B. (3) Well has not yet been drilled. It will be drilled for the exclusive purpose of water disposal from present and future XTO wells. (See Exhibit A list of current XTO wells.) Water analyses from the Dakota, Gallup, Blanco Mesaverde, Otero Chacra, Fruitland Coal, and Pictured Cliffs are attached, (Exhibit F)

B. (4) Wellbore has not yet been perforated since it has not been drilled. It will only be perforated from ≈ 4,000' to ≈ 4,100' (logs will determine exact interval after drilling).

B. (5) Top of the Mesaverde sandstone (Cliff House) is at ≈ 3,103' and top of the Point Lookout section is at ≈3,973' . Oil and gas are produced elsewhere in the San Juan Basin from this formation. Closest Mesaverde field is the Blanco Mesaverde which is ≈ 4.86 miles North East. Bottom of the closest overlying productive formation (Pictured Cliffs) is at 1,722'. There will be minimum 2,251' interval between highest injection perforation and bottom of the Pictured Cliffs. Closest underlying potentially productive formation is the Gallup.

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

V. Maps are attached showing all fourteen wells (4 P&A + 10 PGW) within a half mile radius (See Exhibit C) and within a two mile radius (See Exhibit D). According to the Office of the State Engineer, there are no water wells within the half mile radius. According to the Office of the State Engineer there are no water wells within the two mile radius of the proposed well. Details on the oil and gas wells within a half mile radius are below. Wellbore diagrams and data for plugged & abandoned wells (Exhibit "G") are attached.

OPERATOR	WELL	LOCATION ((27N-10W)	ZONE	TD	STATUS
XTO	Kutz J Federal #2	NWNE Sec. 6	Dakota	6580	PGW
XTO	M N Galt J#2	NWNW Sec. 6	Dakota	6439	PGW
XTO	M N Galt B #1R	NWSW Sec. 6	FC / PC	6611	PGW
XTO	M N Galt B #2R	NWNW Sec. 6	Pictured Cliffs	1860	PGW
XTO	M N Galt B #1Y	NESW Sec. 6	Dakota	6906	PGW
Burlington	Galt A #1R	SWNE Sec. 6	Pictured Cliffs	1922	PGW
XTO	M N Galt B #3	SENW Sec. 6	Fruitland Coal	1942	PGW
XTO	M N Galt J #3	SENW Sec. 6	Dakota/Gallup	6698	PGW
BP Amoco	Madeline N. Galt B #1	SESW Sec. 6	PC / FC	1904	P & A
Pan American Petro.	M N Galt J #1	SESW Sec. 6	Dakota	6500	P & A
El Paso Natl. Gas	Madeline N.Galt # A#1	SWSE Sec. 6	Pictured Cliffs	1795	P & A
BP Amoco	Madeline N. Galt B #2	NENW Sec 6	Pictured Cliffs	1886	P & A

OPERATOR	WELL	LOCATION ((27N-11W)	ZONE	TD	STATUS
XTO	E H Pipkin #10-E	SENE Sec. 1	Gallup	6255	PGW
XTO	E H Pipkin # 27	SENE Sec. 1	Fruitland Coal	1866	PGW

Maps showing all Mesaverde leases (fee or BLM) within a half mile and within 2 miles (see Exhibit E) are attached.

VI. Fourteen wells are within a half mile. Five wells penetrate the Mesaverde. Top of the Mesaverde is ≈ 3,103'. Deepest well within a half mile was 6,906'. Closest well to penetrate the Mesaverde is the M N Galt J #3.

XTO ENERGY, INC.
KUTZ FEDERAL SWD #1
2060'FNL & 1500' FWL
SEC. 6, T. 27 N., R. 10 W.
SAN JUAN COUNTY, NEW MEXICO

VII. 1. Average injection rate = 3,000 bwpd. Maximum = 5,000 bwpd.
2. System will be open (water will be trucked). Facilities will include skimmer tank, 300 bbl oil tank, 6 - 500 barrel settling tanks, 5- 500 barrel storage tanks, centrifugal charge pump, two filtering systems (housed) for injection pump suction, and a house for the injection pump may also be installed. A security fence will surround the facility.
3. Average injection pressure = 800 psi.

Water source will be present and future XTO wells in the San Juan Basin (See Exhibit A). Thirteen produced water analyses (Exhibit F) are attached. A summary follows.

Zone	Bicarbonate	Calcium	Chloride	Iron	Magnesium	pH	Sulfate	TDS
Blanco Mesaverde	124	3	3200	0	10	8.0	0	5435
Otero Chacra/Blanco Mesaverde	976	60	18000	0	12	7.1	0	31017
Blanco Mesaverde	265	177	25000	0	24	9.11	600	50736
Blanco Mesaverde	194	7	1000	0	8	8.0	0	1916
Basin Dakota	585	256	8000	3.8	0	7.3	22	13987
Dakota / Gallup	495	1184	15000	95.6	39	6.7	0	25283
Dakota / Gallup	585	256	8000	3.8	0	7.3	22	13987
Dakota	680	48	2788	0	19	7.97	398	6230
Pictured Cliffs	244	336	532	0	22	6.97	1600	4081
Gallup	1305	604	23341	25	165	6.79	0	41456
Fruitland Coal	1867	94	17490	20.56	88	6.87	7	33216
Fruitland Coal	820	944	40000	12.3	0	7.5	0	66915
Fruitland Coal	800	848	41000	10.2	0	7.8	0	68548

5. The Mesaverde has not been proven productive within 4.86 miles of the proposed well. (XTO will attempt to swab load water back after the acid job and then catch an Mesaverde water sample. If successful, then the analysis will be provided to the NMOCD). In general, Mesaverde water near recharge zones (basin fringe) has a specific conductance of <1,500 μmhos. Stone et al in Hydrogeology and water resources of San Juan Basin, New Mexico state, "Generally, however, water from the Mesaverde is not suitable for drinking, especially in deeper parts of the basin." Summaries of analyses of Mesaverde produced water follow. The samples (see Exhibit H) are from XTO's Dawson Federal #1B at SWNW Sec. 6, T29N-R8W, Federal Gas Com #4, at NESW Sec 27, T27N-R10W.

XTO ENERGY, INC.
KUTZ FEDERAL SWD #1
2060'FNL & 1500' FWL
SEC. 6, T. 27 N., R. 10 W.
SAN JUAN COUNTY, NEW MEXICO

Parameter	Dawson Federal 1B	Federal Gas Com. #4
Bicarbonate	976	1342
Calcium	60	180
Chloride	18000	11800
Iron	0	0
Magnesium	12	27
pH	7.1	7.5
Sodium	11901	7103
Sulfate	0	65
Specific Gravity	1.015	1.015
Total Dissolved Solids	31017	21917

VIII. The Mesaverde sandstone is a very porous and permeable sandstone. It produces oil and gas elsewhere in the Basin. The gross estimated thickness is 1,156' thick in the wellbore. The Point Lookout gross thickness is 296'. Top is ≈ 3,103' and bottom is ≈ 4,259'. Estimated wellbore formation tops are:

Alluvium: 0'
Nacimiento Mudstone & Sandstone:
Ojo Alamo Sandstone: 437'
Kirtland Shale: 567'
Farmington Sandstone: '
Fruitland Formation: 1,068'
Lower Fruitland Coal: 1,535'
Pictured Cliffs Sandstone: 1,555'
Lewis Shale: 1,722'
Chacra Sandstone: 2,489'
Cliffhouse Sandstone: 3,103'
Menefee Formation: 3,230'
Point Lookout Sandstone: 3,973'
Mancos Shale: 4,259'
Total Depth: 4,260'

No existing underground drinking water sources are below the Mesaverde within a two mile radius. Underground sources of drinking water above the Mesaverde are generally alluvial and average 52' deep. The deepest bedrock aquifer is the Ojo Alamo sandstone, base of which is at 687'. There will be ≈ 3,250' vertical separation between the bottom of the lowest underground drinking water source and the top of the Mesaverde Point Lookout. In addition, five oil or gas wells within a half mile radius produce from two different oil or gas zones (Fruitland and Pictured Cliffs) above the Mesaverde.

IX. The well will be stimulated with ≈ 1,000 to ≈ 1,500 gallons of 15% HCL acid. If needed, a small cross linked gel water sand frac job will be done.

XTO ENERGY, INC.
KUTZ FEDERAL SWD #1
2060'FNL & 1500' FWL
SEC. 6, T. 27 N., R. 10 W.
SAN JUAN COUNTY, NEW MEXICO

X. Array Induction/SFL/GR/SP will be ran from TD (4,260') to the bottom of the surface casing. Neutron/Lithodensity/Pe/GR/Cal will be ran from TD (4260') to 3,000'. Copies will then be provided to the NMOCD.

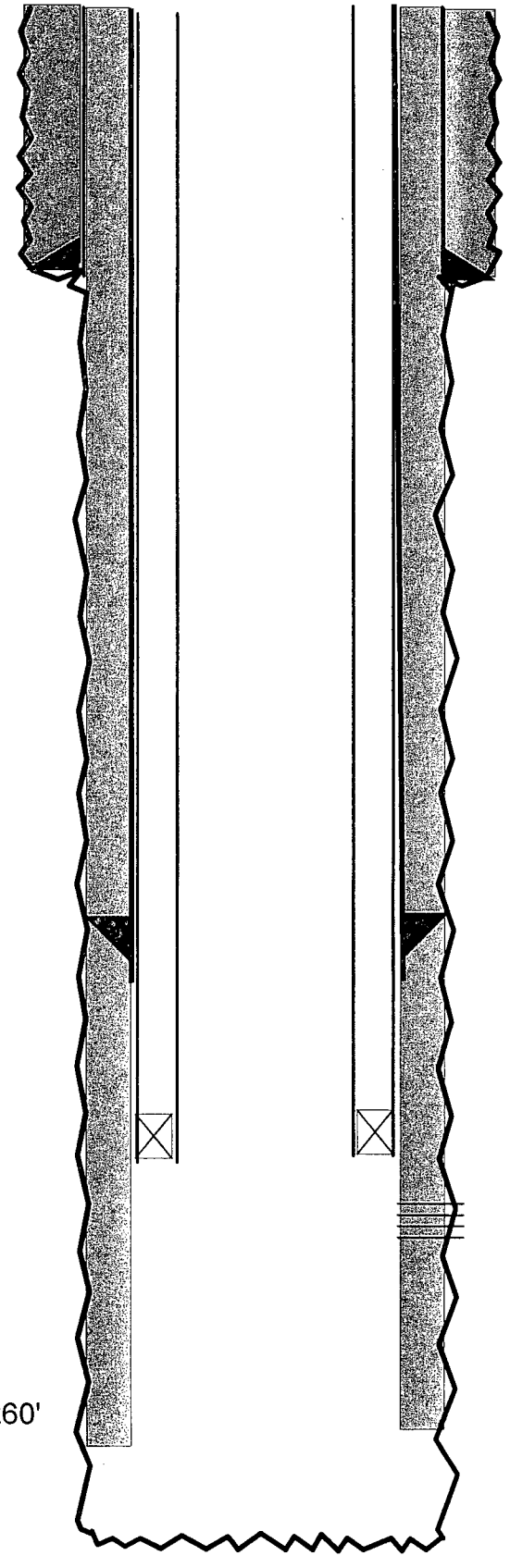
There are no water wells within two miles which penetrate or come within a vertical mile of penetrating the Mesaverde.

XI. XTO is not aware of any geologic or engineering data which may indicate the Mesaverde is in hydrologic connection with any underground sources of water. There will be at least 3,250' of vertical separation between the Mesaverde Point Lookout and any underground sources of water.

XII. Notice (this application) has been sent to Burlington Resources Oil & Gas Company, Inc. (Conoco/Phillips) operator of the M N Galt 1R, the only non XTO operated well within half mile of the proposed SWD. A legal ad (see Exhibit J) was published on June 18, 2007, in the Farmington Daily Times.

XTO ENERGY INC.
KUTZ FEDERAL SWD #1
2375' FNL & 1445' FWL
Section 6, Township 27 North, Range 10 West, NMPM
San Juan County, New Mexico

KB: 5804'
GL : 5792'



12.25" HOLE

9.625". 23#, J-55 ST&C CSG @ 600'.
CMTD W/270 SX TYPE III CMT TO SURF

8.75" HOLE

7.0". 23.0# J-55 LT&C CSG @ 4260'.

2 STG CMT
1st STAGE 172 SX TYPE III @ 14.2 PPG, 1.54 CUFT/SX, 8,00 GAL/SX
2nd STAGE LEAD ±199 SX TYPE III, 8% GEL & LCM MX @ 11.9 PPG, 2.54 FT³/SK, 15.00 GAL WTR/SX
TAIL100 SX Type III CMT W/LCM, @ 14.2 PPG, 1.54 CUFT/SX, 8.00 GAL/SX

DV ± 3,000'

Packer location ≈3,915'

PERF'S 4000'-4100'

TD ±4,260'

EXHIBIT "A"

LIST OF WELLS OPERATED BY XTO ENERGY INC.

XTO ENERGY INC.

KUTZ FEDERAL SWD #1

NW/4 Sec. 6 T27N-R10W

SAN JUAN COUNTY, NEW MEXICO

Not included

EXHIBIT "B"

MAP INDICATING MESA VERDE PRODUCTION

XTO ENERGY INC.

KUTZ FEDERAL SWD #1

NW/4 Sec. 6 T27N-R10W

SAN JUAN COUNTY, NEW MEXICO

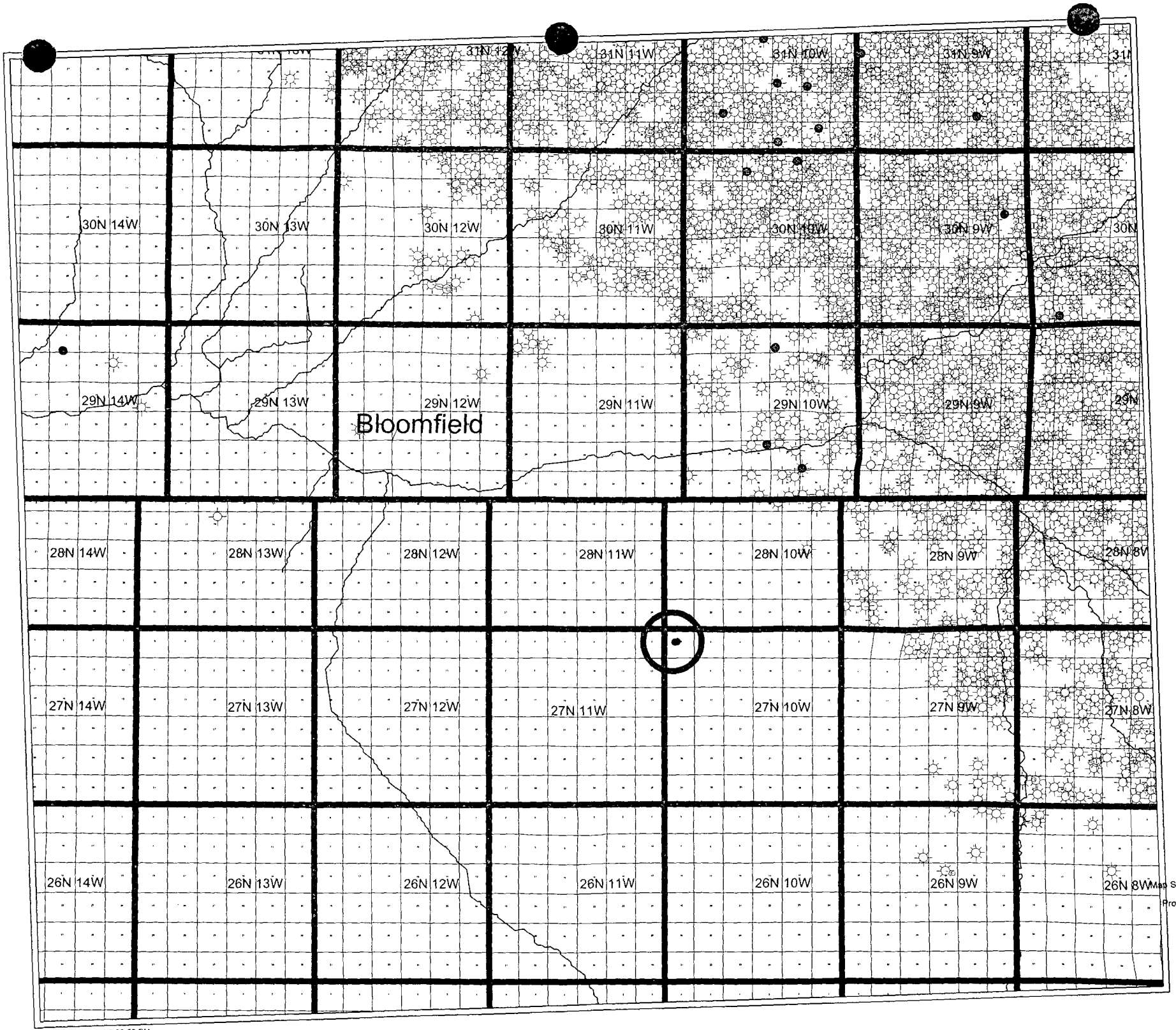
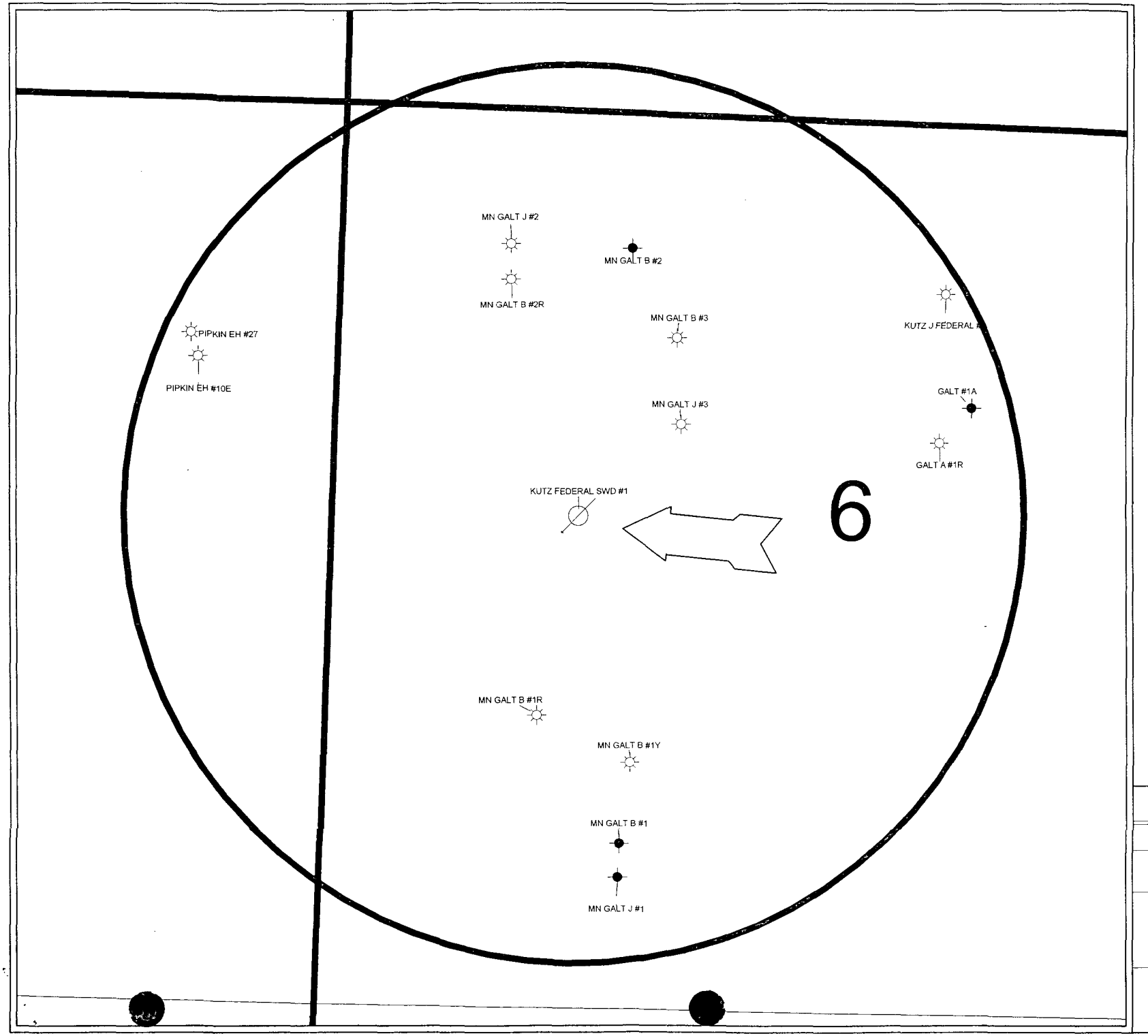

31N 12W
31N 11W
31N 10W
31N 9W
30N 14W
30N 13W
30N 12W
30N 11W
30N 10W
30N 9W
29N 14W
29N 13W
29N 12W
29N 11W
29N 10W
29N 9W
Bloomfield
28N 14W
28N 13W
28N 12W
28N 11W
28N 10W
28N 9W
28N 8W
27N 14W
27N 13W
27N 12W
27N 11W
27N 10W
27N 9W
27N 8W
26N 14W
26N 13W
26N 12W
26N 11W
26N 10W
26N 9W
26N 8W
XTO ENERGY
Map Showing Mesa Ver
Proposed Kutz Feder
EXHIBIT "E
0
FEET

EXHIBIT "C"

MAP IDENTIFYING ALL WELLS
WITHIN 1/2 MILE OF
PROPOSED
XTO ENERGY INC.
KUTZ FEDERAL SWD #1
NW/4 Sec. 6 T27N-R10W
SAN JUAN COUNTY, NEW MEXICO



XTO ENERGY INC.

1/2 MILE RADIUS

Proposed KUTZ FEDERAL SWD #1

EXHIBIT "C"

0 770

FEET

WELL SYMBOLS

Gas Well

Injecti

Plugge Abandoned

PETRA 6/21/2007 2:58:39 PM

	LOCATION	DATE DRILLED	DATE COMPLETED	ZONE	TD	STATUS	CASING SIZE	CASING DEPTH	CEMENT VOLUMES	CEMENT TOPS	Mtd Det TOPS
	NW/NE Sec 6 T27N-R10W 990' FNL & 1831' FEL	1/30/1959 30-045-06909	2/12/1959	Dakota	6580	PGW	10 3/4" 5 1/2"	278' KB 6396' KB	240 SX 458 CU FT	1stg 4,630' 2nd stg(DV 1,896') 1,366'	CBL X
	NWNW Sec 6 T27N-R10W 790' FWL & 990' FWL -20365	12/15/1968	1/14/1969	Dakota	6439	PGW	8 5/8" 4 1/2"	338' 6439'	244 SX 1925 SX Stage 1 - 650 SX 2 - 725 SX 3 - 550 SX of Cmt	Surface 1stg 70 bbls cmt 2nd stg (DV 4,429') 75 bbls cmt 3rd stg (DV 1,843)'Circ 35bbls cmt.	Visual OK
	NWSW Sec 6 T27N-R10W 1740' FSL & 1240' FWL -29136	9/14/1994	1/8/1996	Fruitland Coal Pictured Cliffs	6611	PGW 8 3/4" Hole	9 5/8" 7"	474' 6607'	230 SX 1335 SX	900' OK	Temp Survey
	NESW Sec 6 T27N-R10W 1450' FSL & 1800' FWL -30354	1/6/2001	2/7/2001	Dakota	6906	PGW	8 5/8" 4 1/2"	392' 6906'	275 SX 1630 SX CIRC BOTH Stages 660 SX 970 SX	SURFACE. Circ 89 cuft cmt on 1st stg & 140 cuft cmt on 2nd stg (DV 3,320')	Visual OK
	SENW Sec 6 T27N-R10W 1880' FNL & 2030' FWL	11/2/2003	12/13/2003	Dakota Gallup	6698	PGW	13.37" 8.625" 5.50"	80' 881' 6696'	92 SX 560 SX 1200 SX	SURFACE. Circ 21 bbls cmt on 1st stg & 130 bbls cmt on 2nd stg (DV 3,914')	Visual OK
G	SWSE Sec 6 T27N-R10W 665' FSL & 1860' FEL	6/9/2005	8/19/2005	Gallup Mancos	6815	PGW	8 5/8" 5 1/2"	380' 6810'	244 SX 1325 SX	SURFACE. Circ 70 bbls cmt on 1st stg & 125 bbls cmt on 2nd stg DV 3,990'.	Visual OK
	SENE Sec 1 T27N-R11W 1520' FNL & 810' FEL -23781	3/11/1980	7/24/2003	Gallup	6255	(7 7/8" Hole)	8 5/8" 4 1/2" OK	768' KB 6243' KB OK	500 SX 1580 SX 450SX = #1	2nd stg (DV 4,377') 700' 1st stg unknown Cal 4,955' @ 50%	Temp Survey TOC @ 700' OK

LOCATION	DATE DRILLED	Date P & A	ZONE	TD	STATUS
SESW Sec 6 T27N-R10W 790' FSL & 1750' FWL	3/3/1960	11/17/1968	Dakota	6500	P&A

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Tuesday, July 31, 2007 6:54 PM
To: 'anne_Jones@xtoenergy.com'
Cc: Ezeanyim, Richard, EMNRD; Hayden, Steven, EMNRD
Subject: SWD application on behalf of XTO Energy: Kutz Federal SWD #1 30-045-34317 Point Lookout

Hello Anne Jones:
After reviewing your permit application:

Please send an electronic spreadsheet attached to an email which contains only those wellbores which penetrated at least the top of the proposed injection interval (3973 feet) within 1/2 mile of this proposed well. In that table, please put API numbers, Well names and numbers, status, and casing size/depths, and cementing volumes and cement tops and method of determining the cement tops.

Please read the updated OCD injection permit notice Rule 701.B(2) and confirm for me that all affected parties were notified as this rule requires.

Thank You,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

Jones, William V., EMNRD

From: Anne_Jones@xtoenergy.com
Sent: Wednesday, August 08, 2007 9:05 AM
To: Jones, William V., EMNRD
Subject: Re: SWD application on behalf of XTO Energy: Kutz Federal SWD #1 30-045-34317 Point Lookout

Attachments: SPREADSHEET OCD WELLS PENETRATING MV.xls

SPREADSHEET OCD WELLS PENETRAT...

Attached is the requested spreadsheet indicating the cement information for producing wells within the 1/2 mile radius. The P&A wells were included in the packet with wellbore diagrams and all information concerning the plugging. We notified Burlington (Conoco/Phillips), even though their well did not penetrate the Mesa Verde, as a courtesy as evidenced with our letter and copies of the certified return receipt in the packet sent with the application. Also a copy of the legal ad in the newspaper is in the packet. All other wells in the area are owned and operated by XTO.

Let me know if this meets your needs, if you need any additional information please let me know and I will be happy to provide.

Thank you.

Anne Jones
505-320-0302(See attached file: SPREADSHEET OCD WELLS PENETRATING MV.xls)

"Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
07/31/2007 06:54 PM

To: <anne_Jones@xtoenergy.com>
cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>, "Hayden, Steven, EMNRD" <steven.hayden@state.nm.us>
Subject: SWD application on behalf of XTO Energy: Kutz Federal SWD #1 30-045-34317 Point Lookout

Hello Anne Jones:
After reviewing your permit application:

Please send an electronic spreadsheet attached to an email which contains only those wellbores which penetrated at least the top of the proposed injection interval (3973 feet) within 1/2 mile of this proposed well. In that table, please put API numbers, Well names

and numbers, status, and casing size/depths, and cementing volumes and cement tops and method of determining the cement tops.

Please read the updated OCD injection permit notice Rule 701.B(2) and confirm for me that all affected parties were notified as this rule requires.

Thank You,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

EXHIBIT "D"

MAP IDENTIFYING ALL WELLS

WITHIN 2 MILES OF

PROPOSED

XTO ENERGY INC.

KUTZ FEDERAL SWD #1

NW/4 Sec. 6 T27N-R10W

SAN JUAN COUNTY, NEW MEXICO

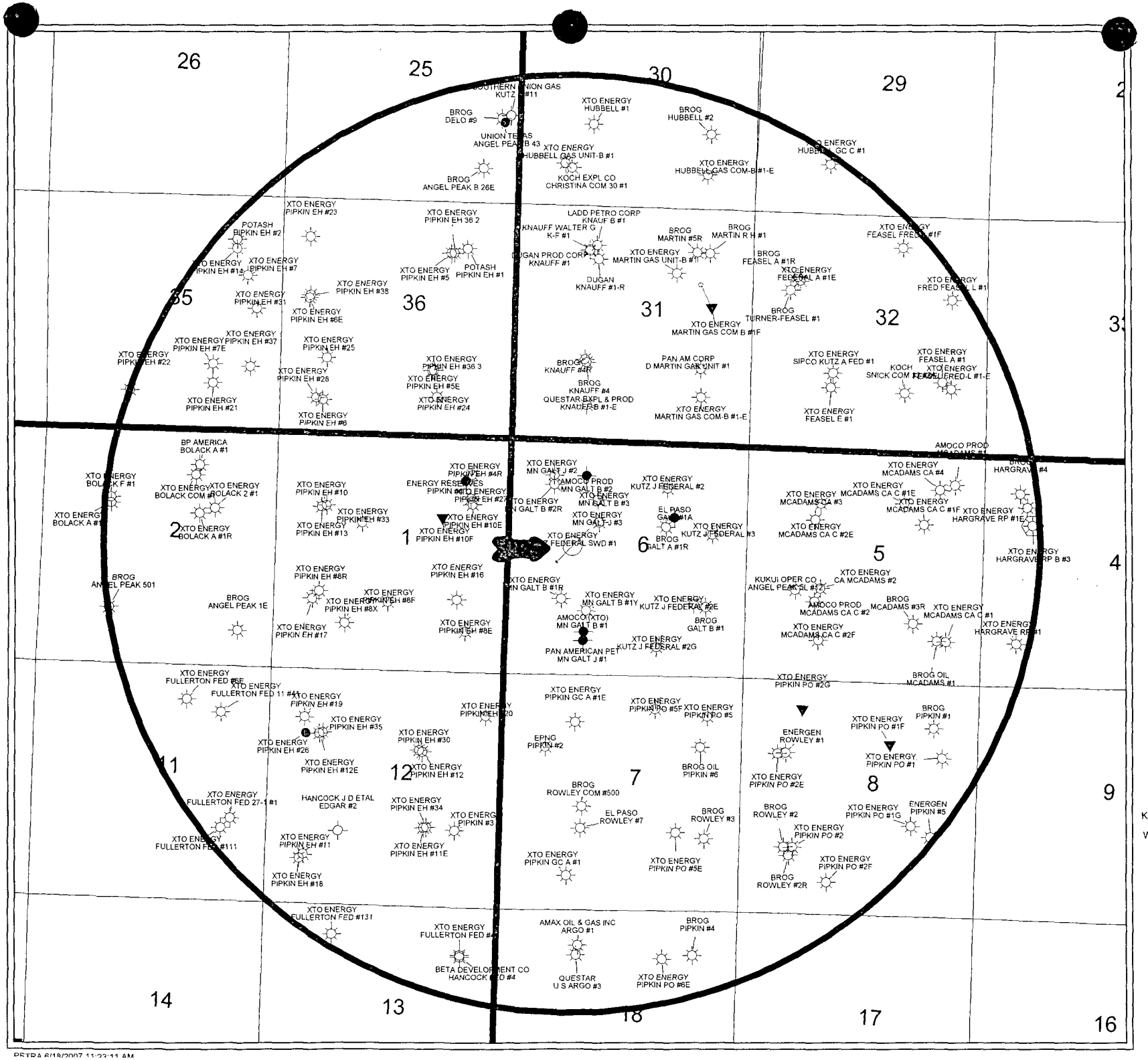

XTO ENERGY INC
KUTZ FEDERAL SWD #1
Wells Within 2 Mi Radius
EXHIBIT "D"
0
1,451
FEET
WELL SYMBOLS
Oil Well
Gas Well
Dry Hole
Injection
Plugged
Coal Gas
XTO Loc
PETRA 6/18/2007 11:23:11 AM

EXHIBIT "E"

MAP IDENTIFYING ALL LEASES WITHIN

1/2 MILE & 2 MILE RADIUS

XTO ENERGY INC.

KUTZ FEDERAL SWD #1

NW/4 Sec. 6 T27N-R10W

SAN JUAN COUNTY, NEW MEXICO

EXHIBIT "E"

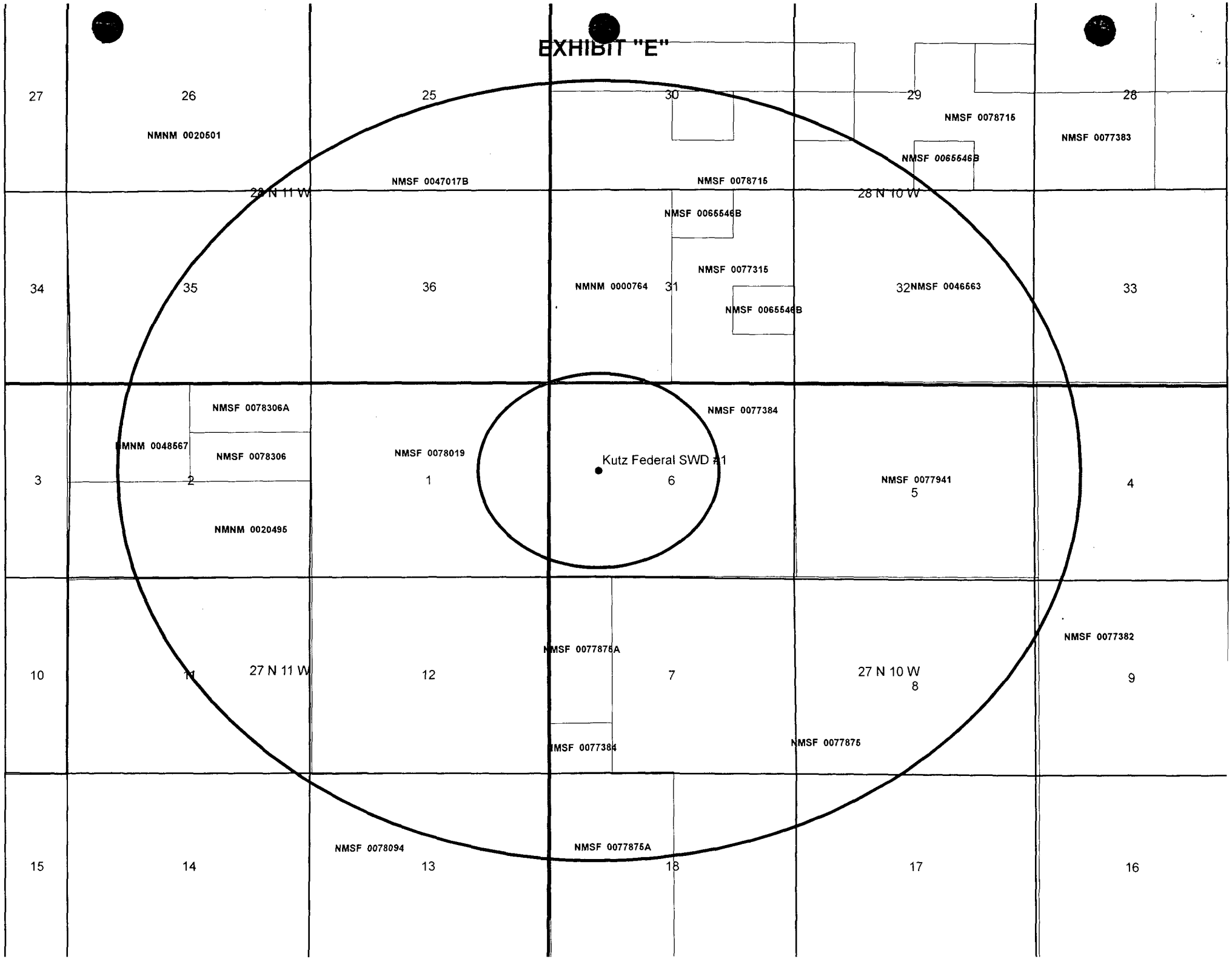

27
26
25
30
29
28
NMNM 0020501
NMSF 0078715
NMSF 0077383
NMSF 0065546B
NMSF 0047017B
NMSF 0078715
28 N 11 W
28 N 10 W
NMSF 0065546B
NMSF 0077315
34
35
36
NMNM 0000764
31
32
NMSF 0046563
33
NMSF 0065546B
NMSF 0078306A
NMSF 0077384
NMNM 0048567
NMSF 0078306
NMSF 0078019
Kutz Federal SWD #1
3
2
1
6
NMSF 0077941
5
4
NMNM 0020495
NMSF 0077382
NMSF 0077875A
10
11
27 N 11 W
12
7
27 N 10 W
8
9
NMSF 0077384
NMSF 0077875
NMSF 0078094
NMSF 0077875A
15
14
13
18
17
16

EXHIBIT "F"

WATER ANALYSIS REPORT

XTO ENERGY INC.

KUTZ FEDERAL SWD #1

NW/4 Sec. 6 T27N-R10W

SAN JUAN COUNTY, NEW MEXICO

HALLIBURTON

Water Analysis Report

To:	XTO	Date:	5/17/2006
Submitted by:	Halliburton Energy Services	Date Rec:	5/17/2006
Attention:	Loren Fothergill	Report #:	FLMM6504
Well Name:	Dryden 4A		

Specific Gravity	1.005	
pH	8.0	
Resistivity	1.43	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	0	Mg / L
Sodium (Na)	2097	Mg / L
Calcium (Ca)	3	Mg / L
Magnesium (Mg)	10	Mg / L
Chlorides (Cl)	3200	Mg / L
Sulfates (SO4)	0	Mg / L
Carbonates (CO3)	0	Mg / L
Bicarbonates (HCO3)	124	Mg / L
Total Dissolved Solids	5435	Mg / L

Respectfully: Holly Lopez

Title: Lab Technician

Location: Farmington, NM

HALLIBURTON

Water Analysis Report

To:	XTO	Date:	5/19/2006
Submitted by:	Halliburton Energy Services	Date Rec:	5/17/2006
Attention:	Loren Fothergill	Report #:	FLMM6506
Well Name:	Dawson Federal 1B		

Specific Gravity	1.015	
pH	7.1	
Resistivity	0.29	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	68	Mg / L
Sodium (Na)	11901	Mg / L
Calcium (Ca)	60	Mg / L
Magnesium (Mg)	12	Mg / L
Chlorides (Cl)	18000	Mg / L
Sulfates (SO4)	0	Mg / L
Carbonates (CO3)	0	Mg / L
Bicarbonates (HCO3)	976	Mg / L
Total Dissolved Solids	31017	Mg / L

Respectfully: Holly Lopez

Title: Lab Technician

Location: Farmington, NM

HALLIBURTON

Water Analysis Report

To:	XTO Energy, Inc	Date:	7/17/2004
Submitted by:	Halliburton Energy Services	Date Rec:	7/17/2004
Attention:	Call Sheets	Report #:	FLMM4514
Well Name:	VCU #45B	Formation:	Location (7)

Specific Gravity	1.030	
pH	9.11	
Resistivity	0.20	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	20000	Mg / L
Sodium (Na)	4600	Mg / L
Calcium (Ca)	177	Mg / L
Magnesium (Mg)	24	Mg / L
Chlorides (Cl)	25000	Mg / L
Sulfates (SO_4)	600	Mg / L
Carbonates (CO_3)	69.6	Mg / L
Bicarbonates (HCO_3)	265	Mg / L
Total Dissolved Solids	50736	Mg / L

Respectfully: Deidra Benally

Title: Lab Technician

Location: Farmington, NM

Bio Tech, Inc.

Water Analysis Form

Operator :	XTO	Date :	07/01/04
Lease :	Galt, MN	County :	San Juan
Wellid :	J #3	State :	NM
Bio Tech Dist :	OKC	Requested By :	L. Christian

Lab Measurements

Oxygen	1.3	mg/L	Specific Gravity	1.0100	
Carbon Dioxide	120	mg/L	Total Dissolved Solids (TDS) Calc.	13,987	mg/L
Bicarbonate	585	mg/L	Barium	0	mg/L
Hydrogen Sulfide	0.0	mg/L	Sulfate	22	mg/L
pH	7.3		Chloride	8,000	mg/L
Temperature	72	°F	Total Hardness	640	mg/L
Iron	3.80	mg/L	Calcium Hardness	640	mg/L
Oil in Water	n/a	mg/L			

Cations (+)	mg/L	mEq/L
Barium (Ba)	0	0.00
Calcium (Ca)	256	12.80
Magnesium (Mg)	0	0.00
Sodium (Na) Calc	5,120	222.60
Iron (Fe) Total	3.80	0.14

Anions (-)	mg/L	mEq/L
Carbonate (CO_3)	0	0.00
Bicarbonate (HCO_3)	585	9.59
Chloride (Cl)	8,000	225.35
Sulfate (SO_4)	22	0.46

Probable Scale Composition

Compound	mEq/L	mg/L	Saturation mg/L	Scale Formation Potential @ 70°F
Barium Sulfate	0.00	0	2.40	Scale Formation Potential Exists
Calcium Carbonate	9.59	777	13.00	
Calcium Sulfate	0.46	31	2090	

HALLIBURTON

Water Analysis Report

To:	XTO	Date:	5/19/2006
Submitted by:	Halliburton Energy Services	Date Rec:	5/17/2006
Attention:	Loren Fothergill	Report #:	FLMM6507
Well Name:	Schw A 12		

Specific Gravity	1.005	
pH	8.0	
Resistivity	10.41	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	21	Mg / L
Sodium (Na)	686	Mg / L
Calcium (Ca)	7	Mg / L
Magnesium (Mg)	8	Mg / L
Chlorides (Cl)	1000	Mg / L
Sulfates (SO4)	0	Mg / L
Carbonates (CO3)	0	Mg / L
Bicarbonates (HCO3)	194	Mg / L
Total Dissolved Solids	1916	Mg / L

Respectfully: Holly Lopez

Title: Lab Technician

Location: Farmington, NM

Bio Tech, Inc.

Water Analysis Form

Operator :	XTO	Date :	08/16/04
Lease :	Galt Mine	County:	San Juan
Wellid :	B 1 Y	State :	NM
Bio Tech Dist :	OKC	Requested By :	L. Westmoreland

Lab Measurements

Oxygen	2.0	mg/L	Specific Gravity	1.0110	
Carbon Dioxide	250	mg/L	Total Dissolved Solids (TDS) Calc.	25,283	mg/L
Bicarbonate	495	mg/L	Barium	0	mg/L
Hydrogen Sulfide	0.0	mg/L	Sulfate	0	mg/L
pH	6.7		Chloride	15,000	mg/L
Temperature	72	°F	Total Hardness	3,120	mg/L
Iron	95.60	mg/L	Calcium Hardness	2,960	mg/L
Oil in Water	n/a	mg/L			

Cations (+)	mg/L	mEq/L
Barium (Ba)	0	0.00
Calcium (Ca)	1,184	59.20
Magnesium (Mg)	39	3.20
Sodium (Na) Calc.	8,470	368.25
Iron (Fe) Total	95.60	3.43

Anions (-)	mg/L	mEq/L
Carbonate (CO_3)	0	0.00
Bicarbonate (HCO_3)	495	8.11
Chloride (Cl)	15,000	422.54
Sulfate (SO_4)	0	0.00

Probable Scale Composition

Compound	mEq/L	mg/L	Saturation mg/L	Scale Formation Potential @ 70°F
Barium Sulfate	0.00	0	2.40	Scale Formation Potential Exists
Calcium Carbonate	8.11	658	13.00	
Calcium Sulfate	0.00	0	2090	

Bio Tech, Inc.

Water Analysis Form

Operator :	XTO	Date :	07/01/04
Lease :	Galt, MN	County :	San Juan
Wellid :	J #3	State :	NM
Bio Tech Dist :	OKC	Requested By :	L. Christian

Lab Measurements

Oxygen	1.3	mg/L	Specific Gravity	1.0100	
Carbon Dioxide	120	mg/L	Total Dissolved Solids (TDS) Calc.	13,987	mg/L
Bicarbonate	585	mg/L	Barium	0	mg/L
Hydrogen Sulfide	0.0	mg/L	Sulfate	22	mg/L
pH	7.3		Chloride	8,000	mg/L
Temperature	72	°F	Total Hardness	640	mg/L
Iron	3.80	mg/L	Calcium Hardness	640	mg/L
Oil in Water	n/a	mg/L			

Cations (+)	mg/L	mEq/L
Barium (Ba)	0	0.00
Calcium (Ca)	256	12.80
Magnesium (Mg)	0	0.00
Sodium (Na) Calc	5,120	222.60
Iron (Fe) Total	3.80	0.14

Anions (-)	mg/L	mEq/L
Carbonate (CO_3)	0	0.00
Bicarbonate (HCO_3)	585	9.59
Chloride (Cl)	8,000	225.35
Sulfate (SO_4)	22	0.46

Probable Scale Composition

Compound	mEq/L	mg/L	Saturation mg/L	Scale Formation Potential @ 70°F
Barium Sulfate	0.00	0	2.40	Scale Formation Potential Exists
Calcium Carbonate	9.59	777	13.00	
Calcium Sulfate	0.46	31	2090	

W855

BJ SERVICES COMPANY

WATER ANALYSIS #FW01W855

FARMINGTON LAB

GENERAL INFORMATION

OPERATOR:	CROSS TIMBERS	DEPTH:	
WELL:	KUTZ FED. J-2	DATE SAMPLED:	06/05/00
FIELD:		DATE RECEIVED:	06/05/00
SUBMITTED BY:	LOREN FOTHERGILL	COUNTY:	SAN JUAN STATE: NM
WORKED BY :	D. SHEPHERD	FORMATION:	DAKOTA
PHONE NUMBER:			

SAMPLE DESCRIPTION

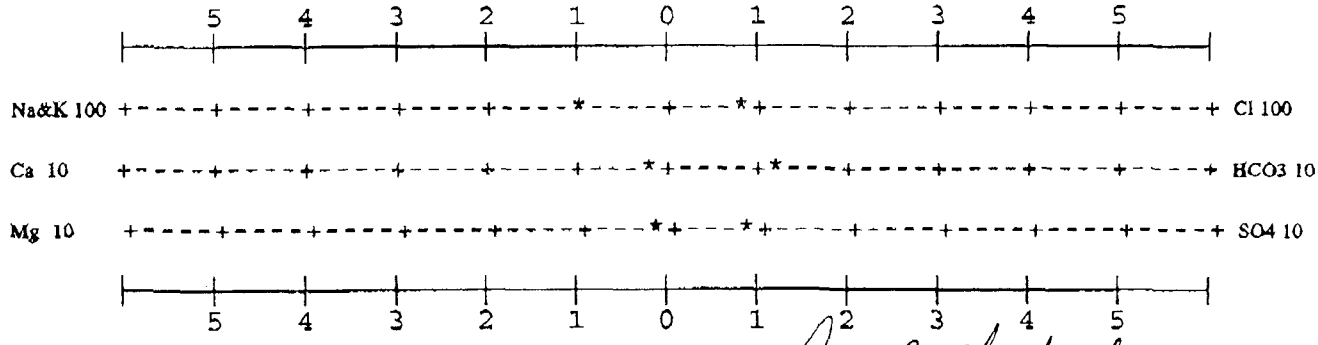
sample for analysis

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.004 @ 77°F	PH:	7.97
RESISTIVITY (MEASURED):	0.900 ohms @ 78°F		
IRON (FE++) :	0 ppm	SULFATE:	398 ppm
CALCIUM:	48 ppm	TOTAL HARDNESS	199 ppm
MAGNESIUM:	19 ppm	BICARBONATE:	680 ppm
CHLORIDE:	2,788 ppm	SODIUM CHLORIDE(Calc)	4,587 ppm
SODIUM+POTASS:	2,163 ppm	TOT. DISSOLVED SOLIDS:	6,230 ppm
H2S: no trace		POTASSIUM (PPM): 29	

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST David Shepherd
D. SHEPHERD

BJ SERVICES COMPANY

WATER ANALYSIS #FW01W767

FARMINGTON LAB

WTR flow

GENERAL INFORMATION			
OPERATOR:	CROSS TIMBERS	DEPTH:	
WELL:	MN GALT B #2R	DATE SAMPLED:	01/20/00
FIELD:		DATE RECEIVED:	01/21/00
SUBMITTED BY:	ND	COUNTY: ND	STATE: NM
WORKED BY	:D. SHEPHERD	FORMATION:	ND
PHONE NUMBER:			

SAMPLE DESCRIPTION

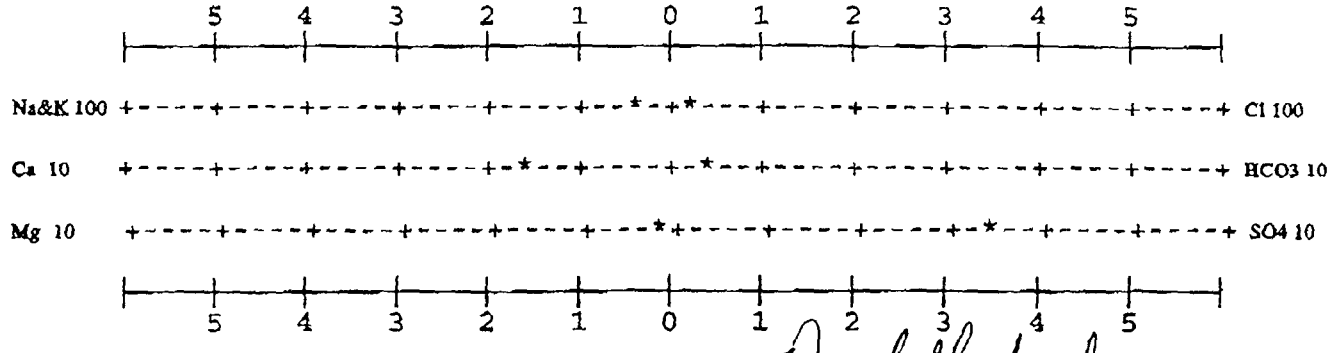
sample for analysis

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.000 @ 74°F	PH:	6.97
RESISTIVITY (MEASURED):	2.800 ohms @ 74°F		
IRON (FE++) :	0 ppm	SULFATE:	1,600 ppm
CALCIUM:	336 ppm	TOTAL HARDNESS	931 ppm
MAGNESIUM:	22 ppm	BICARBONATE:	244 ppm
CHLORIDE:	532 ppm	SODIUM CHLORIDE(Calc)	875 ppm
SODIUM+POTASS:	775 ppm	TOT. DISSOLVED SOLIDS:	4,081 ppm
H2S: NO TRACE		POTASSIUM (PPM): 19	

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST David Shepherd

D. SHEPHERD

w844

BJ SERVICES COMPANY

WATER ANALYSIS #FW01W844

FARMINGTON LAB

GENERAL INFORMATION			
OPERATOR:	CROSS TIMBERS	DEPTH:	6180'
WELL:	E.H PIPKEN ~~T-B~~ 10 E	DATE SAMPLED:	05/26/00
FIELD:		DATE RECEIVED:	05/26/00
SUBMITTED BY:	LOREN FOTHERGILL	COUNTY:	SAN JUAN STATE: NM
WORKED BY	:D. SHEPHERD	FORMATION:	DAKOTA
PHONE NUMBER:			

SAMPLE DESCRIPTION

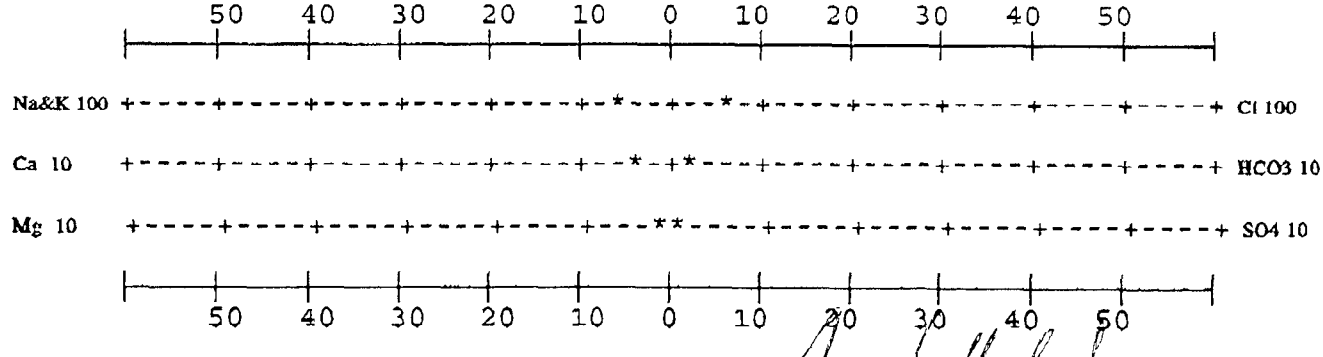
sample for analysis

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.028 @ 67°F	PH:	6.79
RESISTIVITY (MEASURED):	0.250 ohms @ 72°F		
IRON (FE++) :	25 ppm	SULFATE:	0 ppm
CALCIUM:	604 ppm	TOTAL HARDNESS	2,190 ppm
MAGNESIUM:	165 ppm	BICARBONATE:	1,305 ppm
CHLORIDE:	23,341 ppm	SODIUM CHLORIDE(Calc)	38,396 ppm
SODIUM+POTASS:	14,619 ppm	TOT. DISSOLVED SOLIDS:	41,456 ppm
H2S: no trace		POTASSIUM (PPM): 220	

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST Sam Shepherd

D. SHEPHERD

Analytical Laboratory Report for:

XTO Energy

BJ Unichem Chemical Services

UNICHEM Representative: Tony Snow

Production Water Analysis

REC'D / SAN JUAN

JUL 1 1 2002

Listed below please find water analysis report from: Pan Am Fed GC, B-2

Fruitland Coal

Lab Test No:	2002124116	Sample Date:	06/19/2002
Specific Gravity:	1.023		
TDS:	33216		
pH:	6.87		

Cations:	mg/L	as:
Calcium	94	(Ca^{++})
Magnesium	88	(Mg^{++})
Sodium	13509	(Na^{+})
Iron	20.56	(Fe^{++})
Barium	84.50	(Ba^{++})
Strontium	57.42	(Sr^{++})
Manganese	0.22	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	1867	(HCO_3^{-})
Sulfate	7	($SO_4^{=}$)
Chloride	17490	(Cl^{-})
Gases:		
Carbon Dioxide	255	(CO_2)
Hydrogen Sulfide	0	(H_2S)

Bio Tech, Inc.

Water Analysis Form

Operator :	XTO	Date :	08/23/04
Lease :	Bolack	County :	San Juan
Wellid :	4-1	State :	NM
Bio Tech Dist :	OKC	Requested By :	L. Westmoreland

Lab Measurements

Oxygen	1.4	mg/L	Specific Gravity	1.0410	
Carbon Dioxide	140	mg/L	Total Dissolved Solids (TDS) Calc.	66,915	mg/L
Bicarbonate	820	mg/L	Barium	0	mg/L
Hydrogen Sulfide	0.0	mg/L	Sulfate	0	mg/L
pH	7.5		Chloride	40,000	mg/L
Temperature	72	°F	Total Hardness	2,360	mg/L
Iron	12.30	mg/L	Calcium Hardness	2,360	mg/L
Oil in Water	n/a	mg/L			

Cations (+)	mg/L	mEq/L
Barium (Ba)	0	0.00
Calcium (Ca)	944	47.20
Magnesium (Mg)	0	0.00
Sodium (Na) Calc.	25,139	1093.00
Iron (Fe) Total	12.30	0.44

Anions (-)	mg/L	mEq/L
Carbonate (CO_3)	0	0.00
Bicarbonate (HCO_3)	820	13.44
Chloride (Cl)	40,000	1126.76
Sulfate (SO_4)	0	0.00

Probable Scale Composition

Compound	mEq/L	mg/L	Saturation mg/L	Scale Formation Potential @ 70°F
Barium Sulfate	0.00	0	2.40	Scale Formation Potential Exists
Calcium Carbonate	13.44	1,089	13.00	
Calcium Sulfate	0.00	0	2090	

Bio Tech, Inc.

Water Analysis Form

Operator :	XTO	Date :	08/23/04
Lease :	Bolack	County :	San Juan
Wellid :	4-2	State :	NM
Bio Tech Dist :	OKC	Requested By :	L. Westmoreland

Lab Measurements

Oxygen	1.5	mg/L	Specific Gravity	1.0440	
Carbon Dioxide	100	mg/L	Total Dissolved Solids (TDS) Calc.	68,548	mg/L
Bicarbonate	800	mg/L	Barium	0	mg/L
Hydrogen Sulfide	0.0	mg/L	Sulfate	0	mg/L
pH	7.8		Chloride	41,000	mg/L
Temperature	72	°F	Total Hardness	2,120	mg/L
Iron	10.20	mg/L	Calcium Hardness	2,120	mg/L
Oil in Water	n/a	mg/L			

Cations (+)	mg/L	mEq/L
Barium (Ba)	0	0.00
Calcium (Ca)	848	42.40
Magnesium (Mg)	0	0.00
Sodium (Na) Calc.	25,890	1125.64
Iron (Fe) Total	10.20	0.37

Anions (-)	mg/L	mEq/L
Carbonate (CO_3)	0	0.00
Bicarbonate (HCO_3)	800	13.11
Chloride (Cl)	41,000	1154.93
Sulfate (SO_4)	0	0.00

Probable Scale Composition

Compound	mEq/L	mg/L	Saturation mg/L	Scale Formation Potential @ 70°F
Barium Sulfate	0.00	0	2.40	Scale Formation Potential Exists
Calcium Carbonate	13.11	1,063	13.00	
Calcium Sulfate	0.00	0	2090	

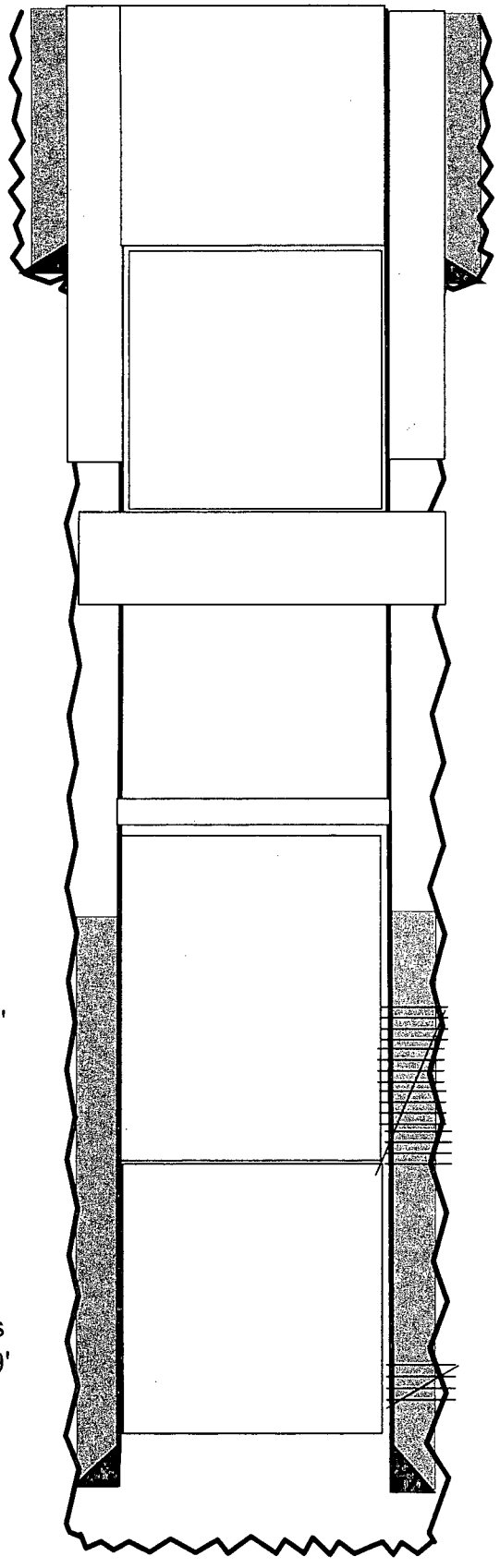
EXHIBIT "G"

WELLBORE DIAGRAM OF
ALL PLUGGED & ABANDONDED WELLS
WITHIN 1/2 MILE
XTO ENERGY INC.
KUTZ FEDERAL SWD #1
NW/4 Sec. 6 T27N-R10W
SAN JUAN COUNTY, NEW MEXICO

MADELINE N GALT B-1

Sec 6 T27N-R10W
990' FSL & 1752' FWL
Plugged 5/30/1995

KB: 5,972'
GL: 5,963' (est)



50' CMT plug on top

150' to surface cement

Ojo Alamo
763' – 1,549'

CMT retainer @ 686'

CMT 813 - 913'

CMT retainer @ 1603'

SQ perfs 1656' - 1822', 98 cuft cmt

Fruitland
1,549' – 1,826'

Recompleted to FC
Perfs. 1656' - 1660', 1676' - 1700', 1752' - 1760', 1804' - 1822'

Pictured Cliffs
1,826' – 1,899'

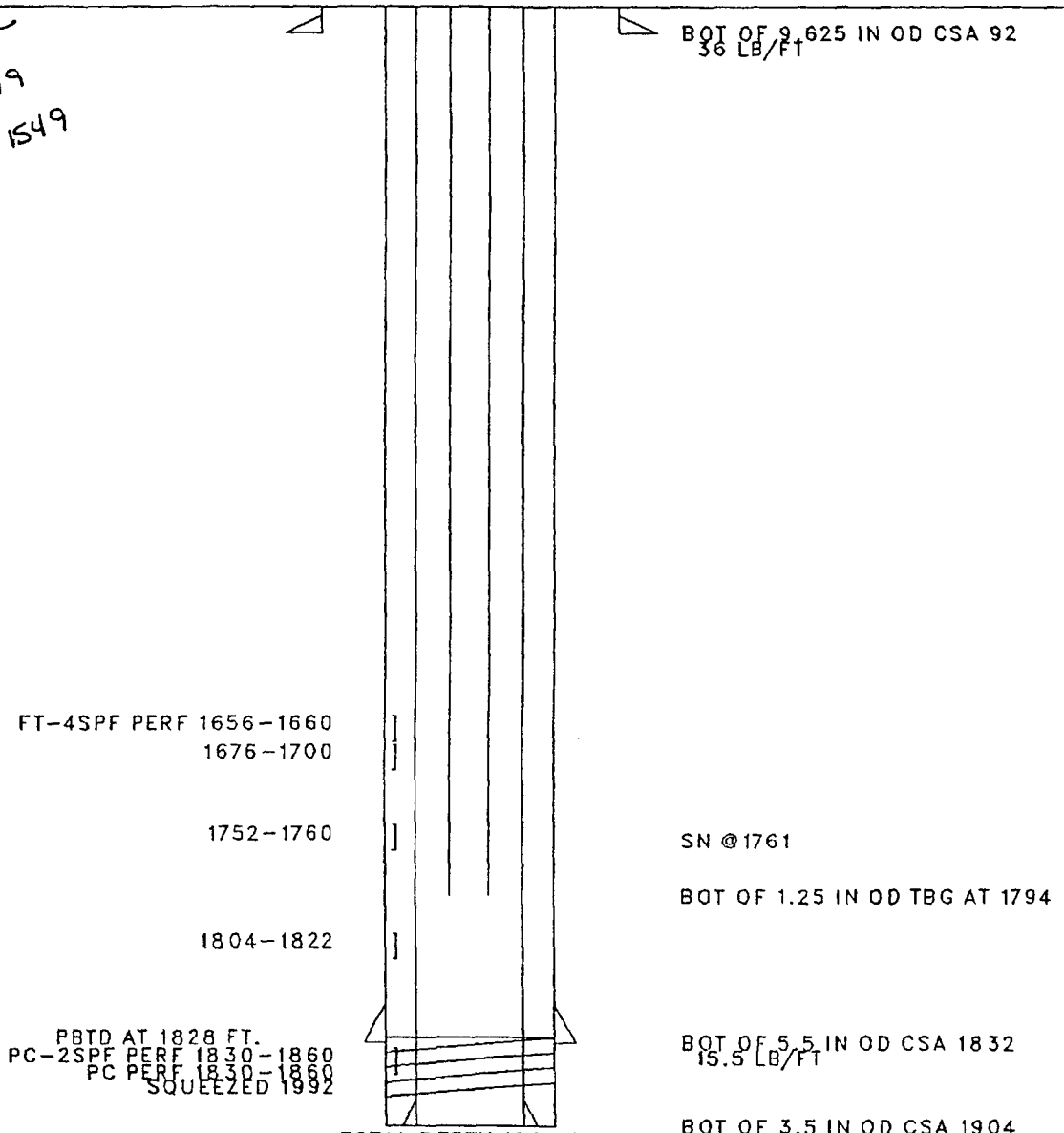
PC Perf's 1868' - 1873'

TD 1,904'
PBTD 1,899'

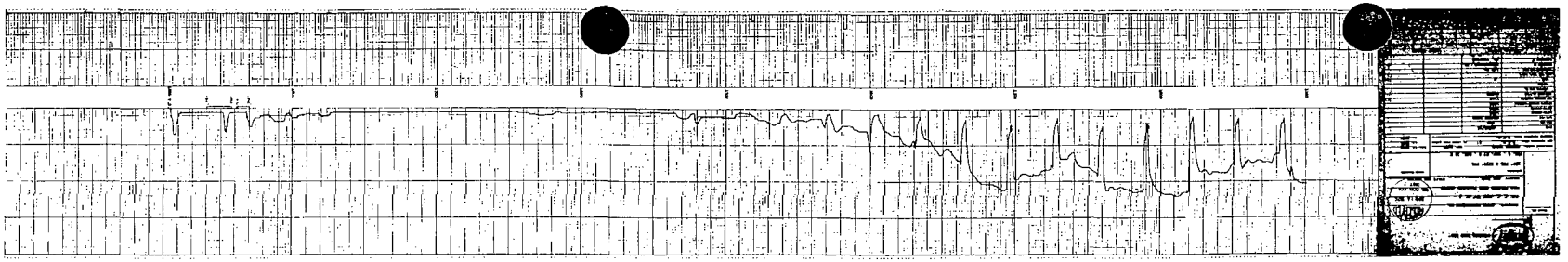
M.N. GALT B #1
LOCATION 6-27N-10W
SINGLE FRUITLAND COAL
ORIGINAL COMPLETION 2/50
LAST FILE UPDATE 5/92 BY CSW

070 FARMINGTON, NM

NAC-Surface
OJ 763
Kirtland 899
Fruitland 1549

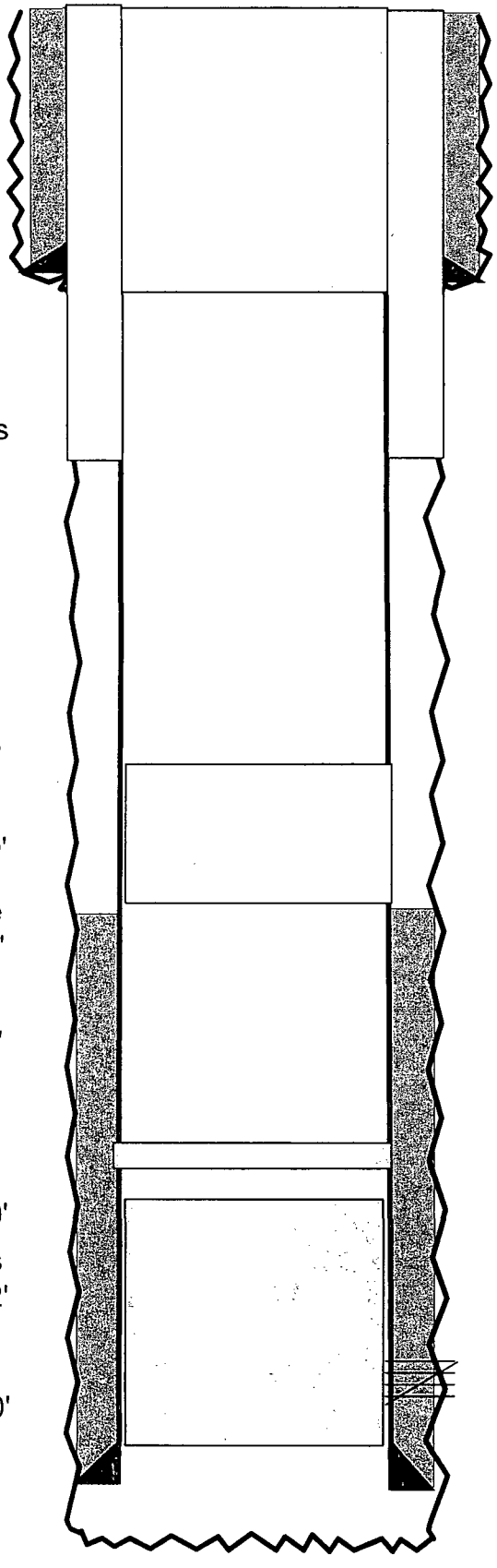


FILENAME:
04506911



M N GALT "J"
Sec 6 T27N-R10W
790' FSL & 1750' FWL
Plugged 11/17/68

KB: 5,981'
GL: 5,969'



Spot 10 sks 65' to surface

SQ 50 sks down 4 ½' - 8 5/8" annulus

Spot 20 sks 1,000' - 800' in 4 ½" casing

Cement retainer set at 2711', SQ 150 sks into Mesa Verde formation, left 60 sks type C cmt in 4 ½" casing

CMT retainer set @ 6,207'

Squeezed notch at 6,343' with 40 sks type C CMT left 10 sks in 4 ½" casing

Hydraulic jet cut
6,342'

Ojo Alamo
800' - 915'

Kirtland Shales
915' – 1,635'

Fruitland
1,635' – 1,840'

Pictured Cliffs
40' – 1,895'

Lewis Shale
1,895' – 3,370'

Mesa Verde
3,370' – 4,450'

Mancos Shale
4,520' – 5,375'

Gallup Sands
5,375' – 6,153'

Greenhorn
6,153' – 6,242'

Graneros
6,242' – 6,270'

Dakota sands
6,270' – 6,322'

Dakota Pay
322' – 6,500'

TD 6,500'
PBTD 6,461'

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: SF 077384

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: PAN AMERICAN PETROLEUM CORPORATION

8. FARM OR LEASE NAME: N. E. Galt J"

3. ADDRESS OF OPERATOR: 501 Airport Drive, Farmington, New Mexico 87401

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 790' FSL & 1750' FWL, Unit N

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SW/4 Section 6, T-27-N, R-10-W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 5969', RDB 5981'

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☒
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

On 11-17-68 subject well was plugged and abandoned with Type "C" cement as follows:

1. Cement retainer set at 6207' and squeezed notch at 6343' with 40 sacks and left 10 sacks Type "C" cement in 4-1/2" casing.
2. Cement retainer set at 2711' and squeezed 150 sacks into Mesaverde formation and left 60 sacks Type "C" cement in 4-1/2" casing.
3. Spot 20 sacks 1000-800' in 4-1/2" casing.
4. Squeezed 50 sacks down 4-1/2" - 8-5/8" annulus.
5. Spot 10 sacks 65' to surface.
6. Erect marker and clean up location for inspection.

RECEIVED
DEC 27 1968
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

RECEIVED
DEC 30 1968
OIL CON. COM.
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED: G. W. Eaton, Jr. TITLE: Area Engineer DATE: December 26, 1968

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form No. 9-1102
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

6600' Dakota

M. N. Galt "J"

OPERATOR Pan American Petroleum **PERMITTEE** Madeleine Galt **WELL No.** 1

Field: Angels Peak-Dakota
County: San Juan
State: New Mexico
Sec. 6 T. 27 N R. 10 W
Subdivision SE ¼ SW ¼
Location 790/S & 1750/W
Serial No. S.F. 077384
Ref. No. ______ Elev. 5981 RDB L. and S.
Rig ______ Surface TP
Contractor ______

Casing: 9 5/8 - 377 - 200; 4 1/2 - 6500 - 750; 2" 6320

Geology: TA; TS; BS; TBL

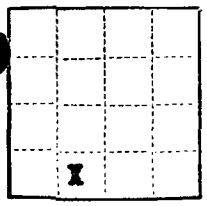
E.L.
~~Ojo Alamo~~ - 800
U. Kirtland - 915
~~Farmington~~
L. Kirtland
~~Fruitland~~ - 1635
Pictured Cliffs - 1840
~~Lewis~~ - 1895
Mesaverde - 3370
~~Cliff House~~
Menefee
~~Pt. Lookout~~
Mancos - 4520
Gallup - 5375
~~Greenhorn~~ - 6153
Graneros - 6242
Dakota - 6270
~~Morrison~~
Dakota Pay sand - 6322
X

Log, rec

APPROVAL DATE 10-27-59
SPUD DATE 11/1/59
1ST PROD.
DISCOVERY
I W R (FINAL 4-20-60

Date	Remarks
10-28-59	
11-4	TD 377 WOC
11	TD 3310
18	TD 6500 WOC
24	PB 6461
12-2	TD 6500 PB 6461
	Jet cut @ 6342
	Sd W frac @ 6342
	60000 gal 60000#
	B.D. 3000# SI
1-13	SI 68 hr.
	F 4 hr 1211 MCF
	Acidize jet cut @ 6342
	5000 gal MCA
	gage 257 MCF
20	TD 6500 PB 6461 Cleaning
3-2	SI
	SITP # 1975# 42d
	gage 1948 MCF
	gage 1374 " FTP 50#
3-9	SI gage 1250 MCF
	FCP 325#
	T.D. 6500'
	Finished drlg. 11-14-59
	IP (Pitot tube) 1250 MCFPD
	Sundry notice to follow with I.P.
	Dakota 6342 (Hydraulic jet cut)
	(3-3-60)
	IP 1265 MCFPD 3 hr. [illegible]
	at 15 B Dist
	CAOF 1312 MCFPD
	FTP 150, FCP 421, SICP 1965
	4-6-60 6342 Dak

Form 9-331 a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Santa Fe
Lease No. SF-077384
Unit M. H. Galt "J"

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

M. H. Galt "J" Farmington, New Mexico October 26, 1959

Well No. 1 is located 790 ft. from [N/S] line and 1790 ft. from [E/W] line of sec. 6

SW/4 of Section 6 (¼ Sec. and Sec. No.) | T-27-N (Twp.) | R-10-W (Range) | N.M.P.M. (Meridian)

Angels Peak Dakota (Field) | San Juan (County or Subdivision) | New Mexico (State or Territory)

The elevation of the derrick floor above sea level is ..... ft. (To be reported later.)

OCT 28 1959
OIL CON. COM.
DIST. 3

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill the above well to an approximate depth of 6600' with rotary tools to evaluate Dakota prospects. Stimulation and completion will be as indicated upon reaching total depth. The following casing program is proposed:

SIZE	DEPTH	CEMENT	REMARKS
9-5/8"	350'	—	Mud - circulate.
4-1/2"	6600'	—	Casing will be cemented in 2 stages. First stage 4% gel followed by 100 sacks neat or sufficient to fill 500' above top of Dakota. Second stage 4% gel with DV tool set approximately 100' below Pictured Cliffs and sufficient cement to fill 200 - 300' above Pictured Cliffs.

A copy of any survey taken will be submitted upon completion of well. Copies of location plats attached.

This application must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address Box 487
Farmington, New Mexico
Attn: L. O. Speer, Jr.

ORIGINAL SIGNED BY
R. M. Bauer, Jr.
By .....

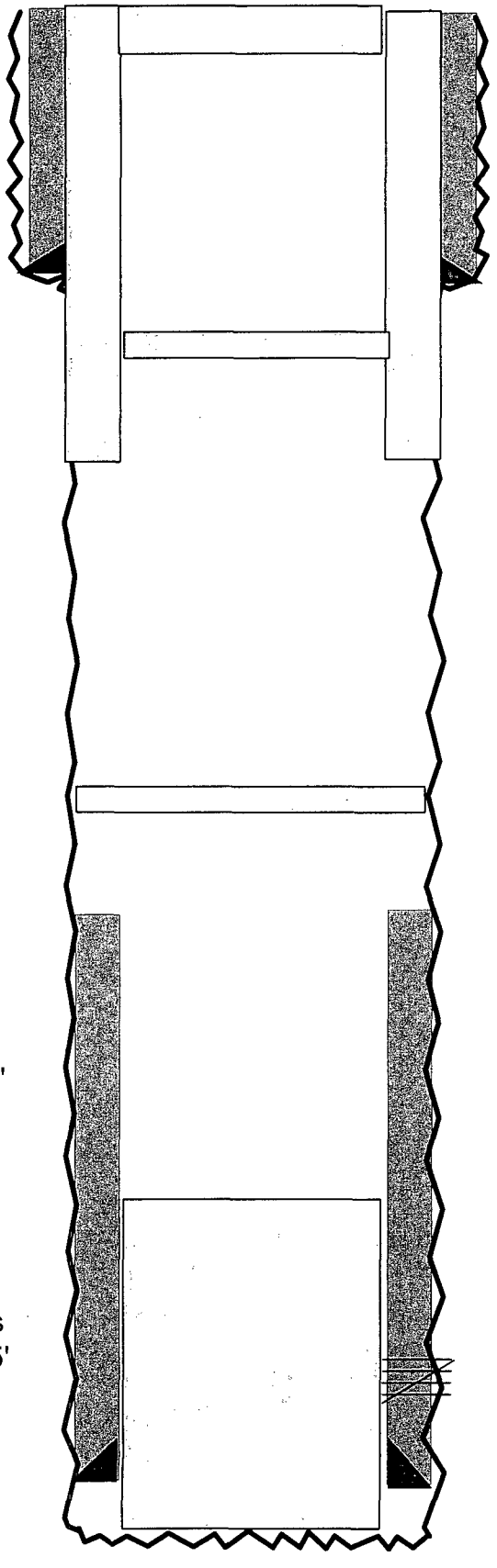
Title Area Engineer

GPO 862040

MADELINE N GALT 1-A

Sec 6 T27N-R10W
1650' FNL & 1650' FEL
Plugged 2/2/1960

KB: 5,820'
GL: 5,802' (est)



Spot 20 sks plug at surface

Ojo Alamo
830' – 1,035'

Spot 15 sks plug on stub @ 520'

Farmington
1,035' – 1,480'

Shot & pulled 520' casing,
spot 15 sks plug on stub
@ 520'

Fruitland
1,480' – 1,714'

CMT 25 sks from 1,723 to TD

Pictured Cliffs
1,714' – 1,795'

Perf's 1775' - 1780'

TD 1,795'
PBTD 1,785'

COPY

COPY

COPY FOR
STATE OF NEW MEXICO
OIL CONSERVATION
COMMISSION
SUBMIT IN TRIPLICATE TO
DISTRICT OFFICE

Land Office Santa Fe

Lease No. 077384

Unit Madeleine M. Galt

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Dec. 5, 19 49

Well No. 1-A is located 1650 ft. from {N} line and 1650 ft. from {E} line of sec. 6

NE/4 Sec. 6 (¼ Sec. and Sec. No.) | 27N (Twp.) | 10W (Range) | NMPM (Meridian)

Kuts Canon (Field) | San Juan (County or Subdivision) | New Mexico (State or Territory)

The elevation of the derrick floor above sea level is ..... ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate muddling jobs, cementing points, and all other important proposed work)

Drill with rotary tools to top of Pictured Cliffs sand.
Set 125 feet 9-5/8" OD 40# smls. Grade D casing cemented to surface.
Set 5-1/2 inch OD 17# smls. J-55 casing production string on Pictured Cliffs sand cemented with 100 sacks.

Complete with cable tools.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company BYRD-FROST, INC.

Address Box 911

Durango, Colo.

By H. P. Slavel

Title Box 911

Durango, Colo.

COPY

COPY

Land Office Santa Fe

Lease No. 077364

Unit Madeleine H. Galt

COPY FOR
STATE OF NEW MEXICO
OIL CONSERVATION
COMMISSION
SUBMIT IN TRIPLICATE TO
DISTRICT OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Feb. 28, 1950

Well No. 1-A is located 1650 ft. from {N/S} line and 1650 ft. from {E/W} line of sec. 6

NE/4 Section 6 (¼ Sec. and Sec. No.) | 27N (Twp.) | 10W (Range) | NMPM (Meridian)

Kutz Canon (Field) | San Juan (County or Subdivision) | New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 5818 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate muddling jobs, cementing points, and all other important proposed work)

Spudded with rotary tools 2-9-50.

Set 9-5/8" O. D. 36# Smls. J-55 casing at 101'.

Top Pictured Cliffs sand 1714'.

Set 5-1/2" OD 15.5# smls. J-55 casing at 1720' cemented with 200 sacks 2-12-50.

Cored 1718 to 1728', recovered 1' sand.

Rotary drilling completed 2-12-50. Rotary sub-structure 4'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company BYRD-FROST, INC.

Address Box 911

Durango, Colo.

By H. P. Slagel,

Title Dist. Sup't.

COPY

COPY

Land Office Santa Fe

Lease No. 077384

Unit Madeleine N. Galt

COPY FOR
STATE OF NEW MEXICO
OIL CONSERVATION
COMMISSION
SUBMIT IN TRIPLICATE TO
DISTRICT OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 24, 19 50

Well No. 1-A is located 1650 ft. from [N] line and 1650 ft. from [E] line of sec. 6

NE/4 Section 6 (¼ Sec. and Sec. No.) 27N (Twp.) 10W (Range) NMPM (Meridian)

Kuts Canon (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 5818 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate muddling jobs, cementing points, and all other important proposed work)

Shot 170 qts. solidified nitro-glycerine 1728' to 1795' March 13, 1950.
Top shot 1728'.
Top rock 1725'.
Top gravel 1723'
Top Cal-seal 1697'.
8 - 4" - 20 qt. shells. 1 - 4" 10 quart shell.
Hole filled with water to surface.
Cleaned out to 1795'.
Ran 1785' of 1 inch syphon line and completed 3-14-50.
571# S.I.P.
228 m.c.f. gas.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company BYRD-FROST, INC.

Address Box 911

Durango, Colo.

By M. P. Slagel

Title Dist. Superintendent

COPY

COPY

Land Office Santa Fe

Lease No. 07738

Unit Madeleine M. Galt

COPY FOR
STATE OF NEW MEXICO
OIL CONSERVATION
COMMISSION
SUBMIT IN TRIPLICATE TO
DISTRICT OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 24, 1950

Well No. 1-A is located 1650 ft. from {N/S} line and 1650 ft. from {E/W} line of sec. 6

NE/4 Section 6 (¼ Sec. and Sec. No.) 27N (Twp.) 10W (Range) NMPM (Meridian)

Kutz Canon (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 5818 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate muddling jobs, cementing points, and all other important proposed work)

Moved on cable tools and drilled plug March 11, 1950.

Drilled to 1725' and tested dry by bailing March 12, 1950.

Drilled to 1795' and tested dry by bailing March 13, 1950.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company BYRD-FROST, INC.

Address Box 911

Durango, Colo. By H. P. Slagel

Title Dist. Sup't.

FOLD

Heaving plug—Material _____ Length _____ D i set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
4	9	SNG	170 Qts.	3013	1728	1795
					1795	

TOOLS USED

Rotary tools were used from Surface feet to 1720 feet, and from _____ feet to _____ feet

Cable tools were used from 1720 feet to 1795 feet, and from _____ feet to _____ feet

DATES

March, 19 50 Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 228 M.C.F. Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 571

EMPLOYEES

P.L. Wald, Driller L. Godwin, Driller

P.E. Collier, Driller R. Rreeland, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	101	101	Sand & shale
101	708	607	Sand & Shale
708	1198	490	Shale, Sand & Chert.
1198	1695	497	Shale
1695	1718	23	Shale, Coal & Sand
1718	1795 T.D.	78	Sand
1796	[illegible]	[illegible]	[illegible]

Structural tops

Base ojo Alamo	830'	(+ 4988')
Heavy flow of fresh water near base of Ojo Alamo		
Top Farmington	1035'	(+ 4783')
Top Fruitland	1480'	(+ 4338')
Top Pictured Cliffs	1714'	(+ 4104')
Top of Lewis	1795'	(+ 4022')

FROM—	TO—	TOTAL FEET	FORMATION

(OVER)

16—43094-2

FORMATION RECORD—Continued

Rotary tools were used from 0 feet to 1627 feet, and from ..... feet to ..... feet

Cable tools were used from 1627 feet to 1720 feet, and from ..... feet to ..... feet

DATES

....., 19..... Put to producing ....., 19.....

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. .....

If gas well, cu. ft. per 24 hours 353,500 Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. 480*

EMPLOYEES

T. V. HOME, Driller C. MILLER, Driller

J. DWINELL, Driller W. B. SPELLMAN, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	200	200	SAND & SHALE
200	590	390	WHITE QUARTZ SAND 90 GRAY SHALE 10
590	700	110	QUARTZ SAND 50, GRAY SHALE 50
700	740	40	SAND 90, GRAY SHALE 10
740	1120	380	GRAY SHALE 80, SAND 20
1120	1160	140	GRAY SHALE 70, COARSE SAND 30
1260	1380	120	GRAY SHALE, TRACE OF SAND (TOP FRUITLAND)
1380	1400	20	GRAY & BLACK SHALE, TRACE OF COAL
1400	1420	20	GRAY & BLACK SHALE 60 COAL 40
1420	1460	40	GRAY & BLACK SHALE, TRACE OF COAL
1460	1500	40	GRAY & BLACK SHALE 60, COAL 40
1500	1530	30	GRAY & BLACK SHALE 80, COAL 20
1530	1540	10	GRAY & BLACK SHALE 90, SAND 10
1540	1560	20	GRAY & BLACK SHALE 85, COAL 15
1560	1600	40	GRAY & BLACK SHALE, TRACE OF COAL
1600	1618	18	GRAY & BLACK SHALE 75 , COAL 25
1618	1656	38	SALT & PEPPER SAND
1656	1710	54	SALT & PEPPER SAND AND BENTANITIC SHALE
1710	1720	10	BEUTONITIC SHALE, BLACK SHALE AND TRACE OF SAND
			TOP OF PICTURE CLIFF 1618

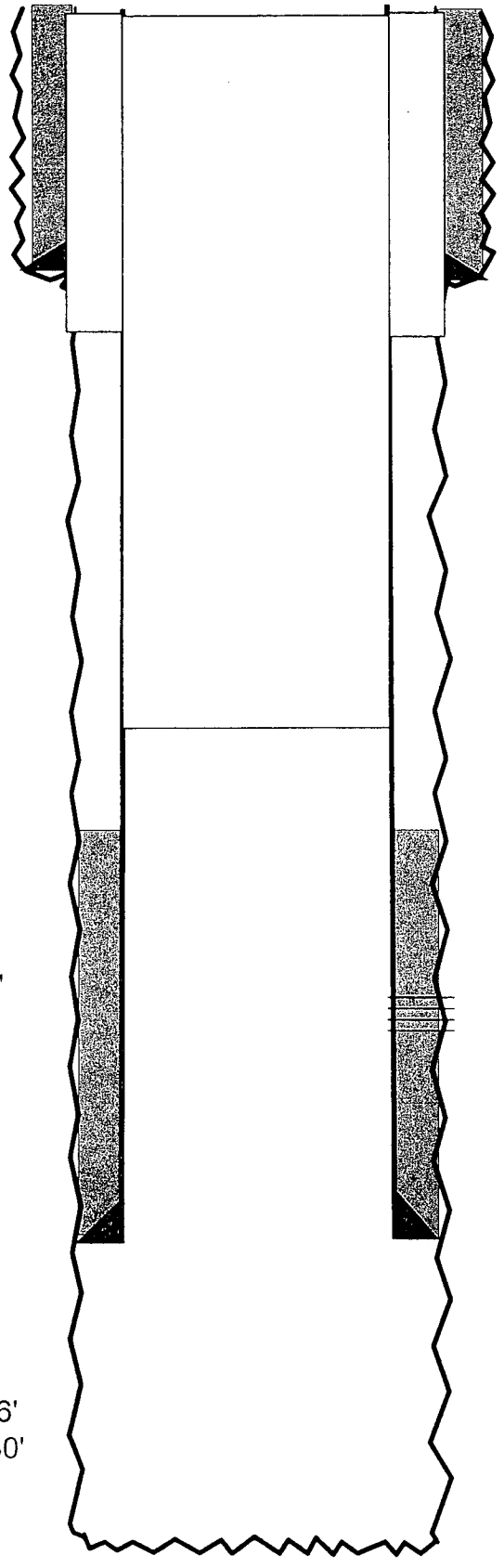
(OVER)

FORMATION RECORD—Continued

MADELINE N. GALT B #2

Sec 6 T27N-R10W
790' FNL & 1700' FWL
Plugged 6/16/1993

KB: 5,783'
GL : 5,768'



TIH & shoot 4holes @ 50'. Pump 20 sks CL B CMT, circ good CMT to surf

Ojo Alamo
630' - 740'

SQ perfs @ 350' & shoot hole @ 50'. Mix & pump 65 sks CL B CMT, SQ perfs @ 300#, CMT at surf, CSG full of CMT, bleed off SQ press,

Fruitland
1,420' – 1,678'

Trip in hole w/ cmt ret, set @ 1,624'. Mix & pump 25 sks Cl B CMT, drop wiper plug pump 33 sks Cl B CMT, SQZ perfs W/25 sks land wiper plug on RET with 33 sks CL B CMT on top of RET

Pictured Cliffs
1,678' – 1,710'

PC 2JSPF PERF
1,680' – 1,758'

TD 1,886'
PBTD 1,830'

FORM 432-2

WILSON
SERVICE COMPANY

TEMPERATURE SURVEY

COMPANY Amoco Production

WELL #2 LEASE M.N. Salt B

COUNTY San Juan STATE New Mexico

SEC. 6 TWP. 27N RGE. 10W

APPROX. TOP CEMENT 400'

Survey Begins at 100' Ft. Ends at 1852' Ft.

Approx. Fill-Up ____ Max. Temp. ____

Log Measured From KB Run No. 1

Casing Size	Casing Depth		Diam of Hole	Depth
7 7/8"	from ____	to ____	from 6¾"	to ____
____	from ____	to ____	from ____	to ____

Date of Cementing 10/26/85 Time 6:00 AM

Date of Survey 10/14/85 Time 2:00 PM

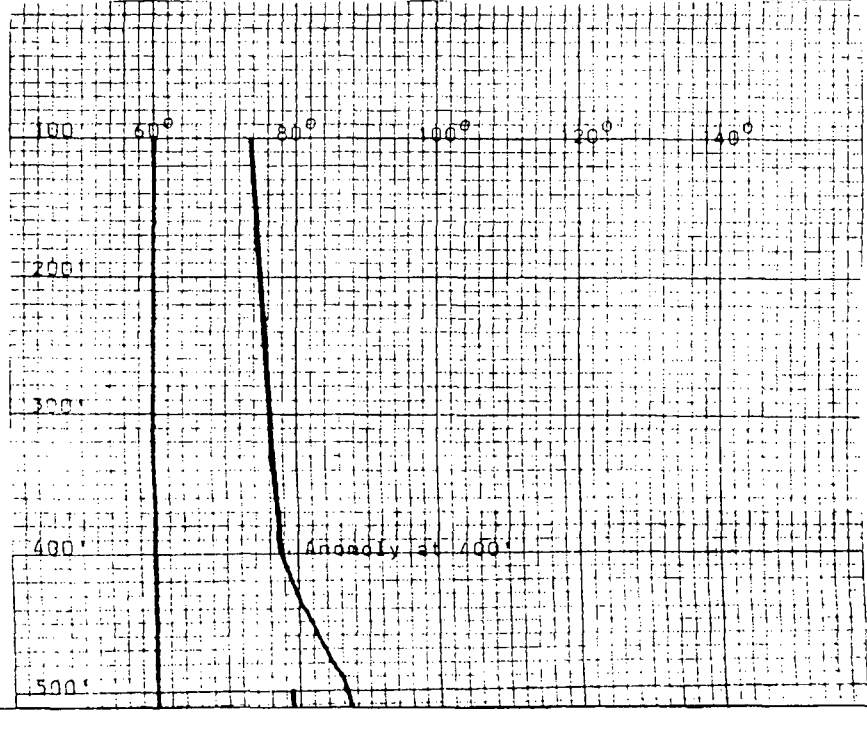
Amount of Cement 375 Sx

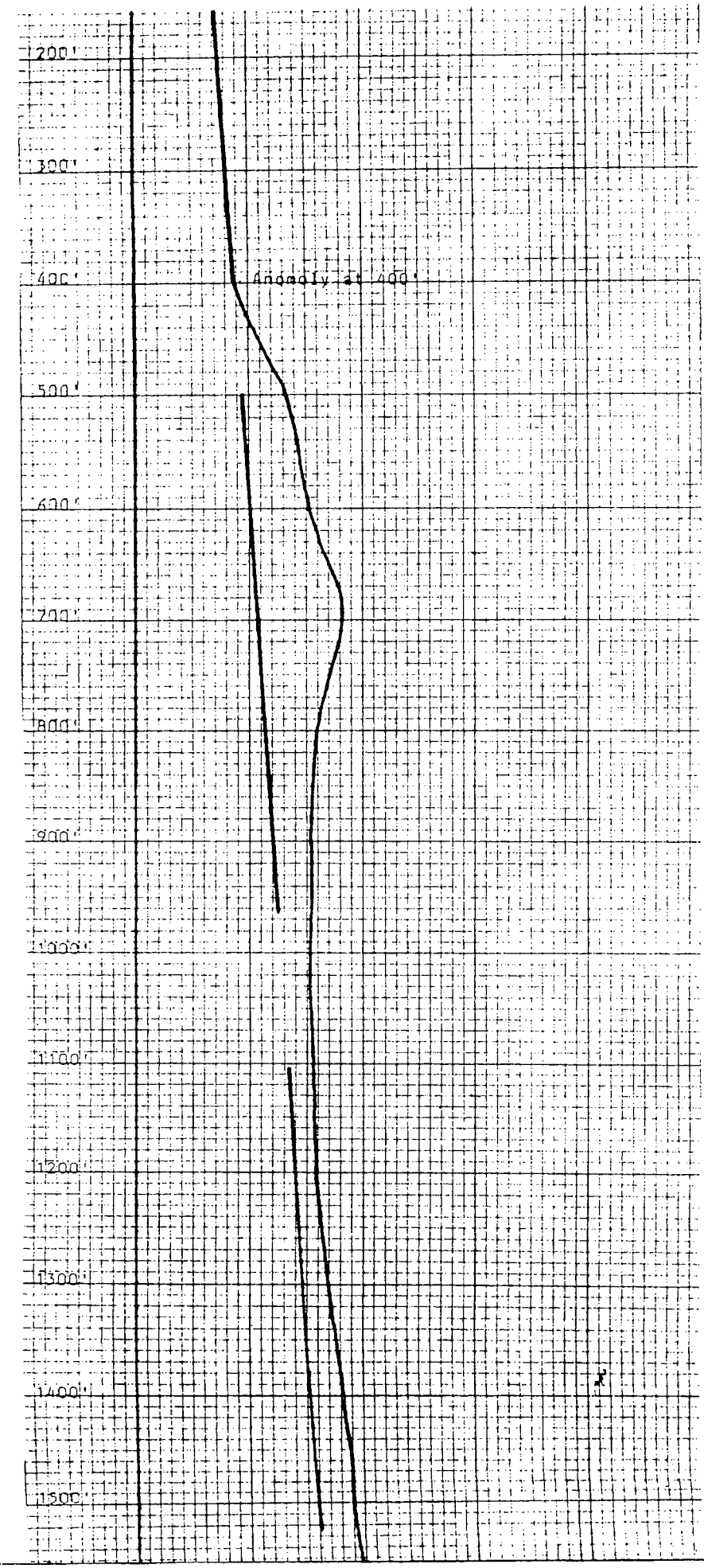
Recorded by Ebert Witnessed by ____

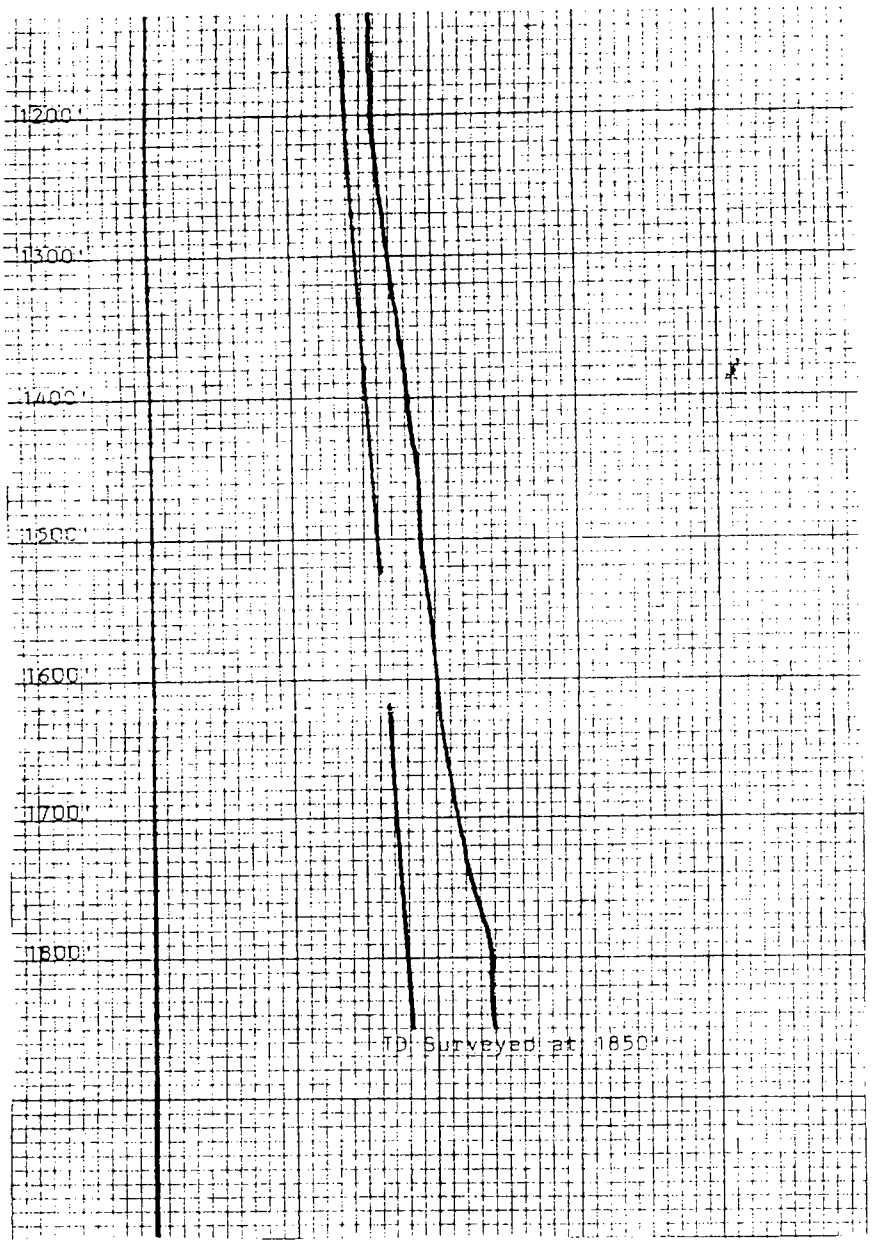
REMARKS OR OTHER DATA

SC 1852'

TEMPERATURE IN DEGREES FAHRENHEIT




200'
300'
400'
Anomaly at 400'
500'
600'
700'
800'
900'
1000'
1100'
1200'
1300'
1400'
1500'


1200'
1300'
1400'
1500'
1600'
1700'
1800'
TD Surveyed at 1850'

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED
DEC 20 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

5. LEASE DESIGNATION AND SERIAL NO.: SF-077384

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL XX DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

8. FARM OR LEASE NAME: Madeline N. Galt B

2. NAME OF OPERATOR: Amoco Production Co.

9. WELL NO.: 2

3. ADDRESS OF OPERATOR: 501 Airport Drive, Farmington, N M 87401

10. FIELD AND POOL, OR WILDCAT: Fulcher Kutz Pictured

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 790' FNL X 1700' FWL
At top prod. interval reported below: Same
At total depth: Same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Clif NE/NW Sec 6, T27N, R10W

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
		San Juan	New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-23-85	10-25-85	11-22-85	5783' KB	5768' GR

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
1886'	1830'	One	→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 1680'-1758' Pictured Cliffs

25. WAS DIRECTIONAL SURVEY MADE: Yes

JAN 03 1986
OIL CON. DIV.
DIST. 3

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL-SP-GR-CDL, CNL-GR-CALIPER

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	20# K-55	314'	8 3/4"	197 cu. ft. Class B	Ideal 65:35 poz
2 7/8"	6.5# J-55	1881'	6 1/4"	591 cu. ft. Class B	65:35 poz
				83 cu. ft. Class B	Ideal

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	none	

31. PERFORATION RECORD (Interval, size and number)
1680'-1758', 2 jspf, .44" diameter, 156 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1680'-1758'	60,000 gal 70 qual foam
	75,000# 12-20 mesh brady sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
12-10-85	Flowing	Shut-In

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-11-85	3 hrs.	.75"			118		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
None	75 psig			946		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): To be sold

TEST WITNESSED BY: Bryan Services

35. LIST OF ATTACHMENTS: None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED [signature] TITLE Adm. Supervisor DATE 12-17-85

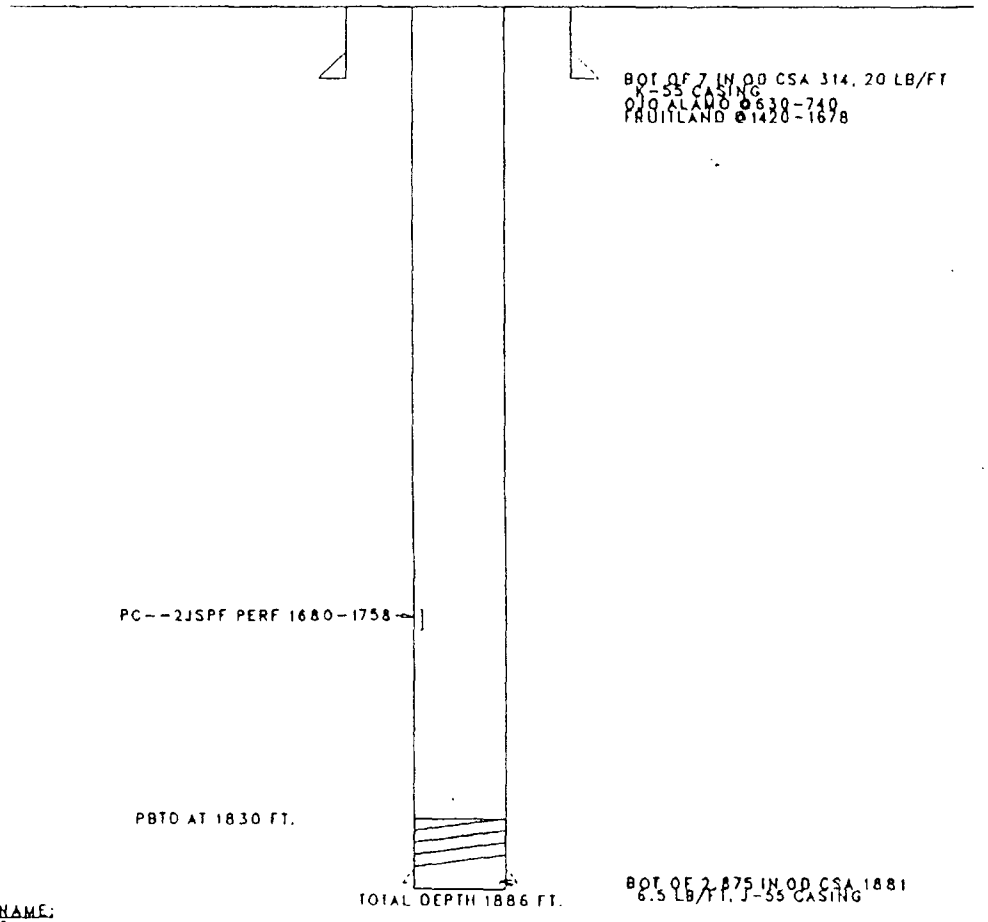
*(See Instructions and Spaces for Additional Data on Reverse Side)

NMOCD

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ZCSW10 DEN214 01/17/92 10:49:1

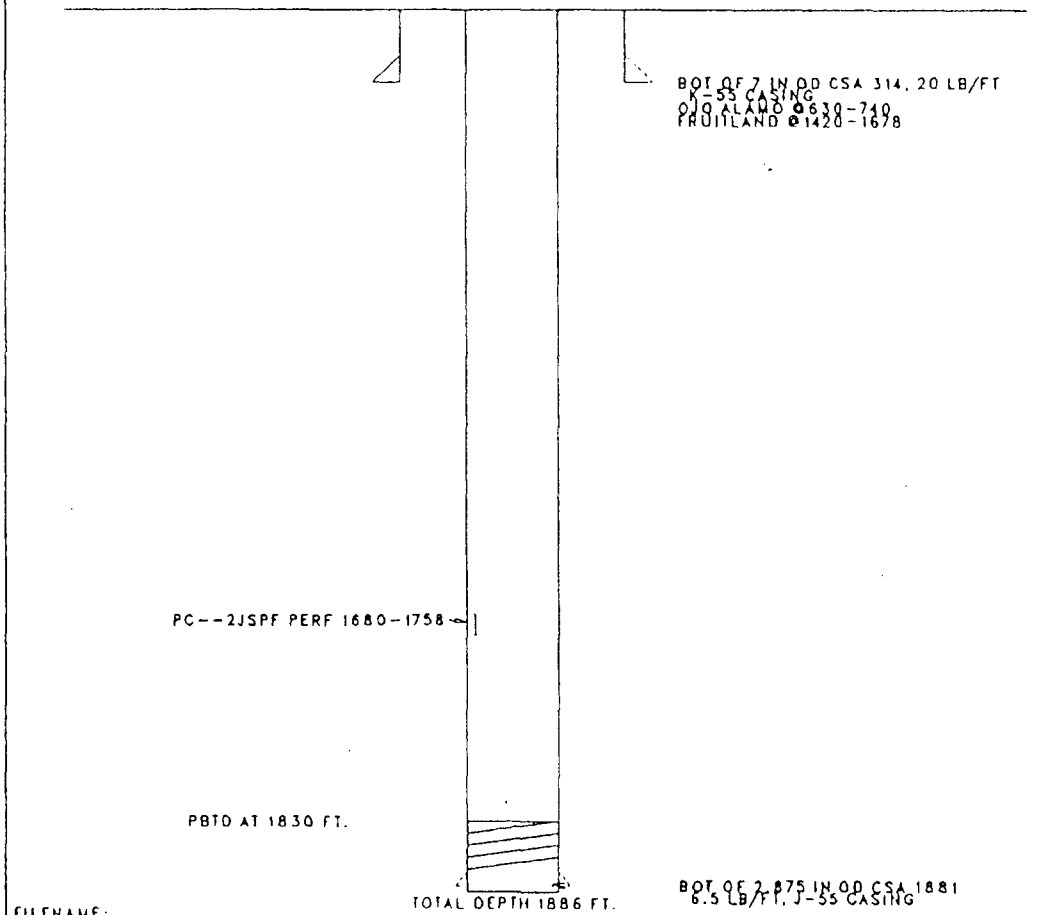
M N GALT B #2
LOCATION, 06 27N 10W
SINGE PC
ORIGINAL COMPLETION 11/85
LAST FILE UPDATE 1/92 BY CSW



FILENAME:
3090

ZCSW10 DEN214 01/17/92 10:49:1

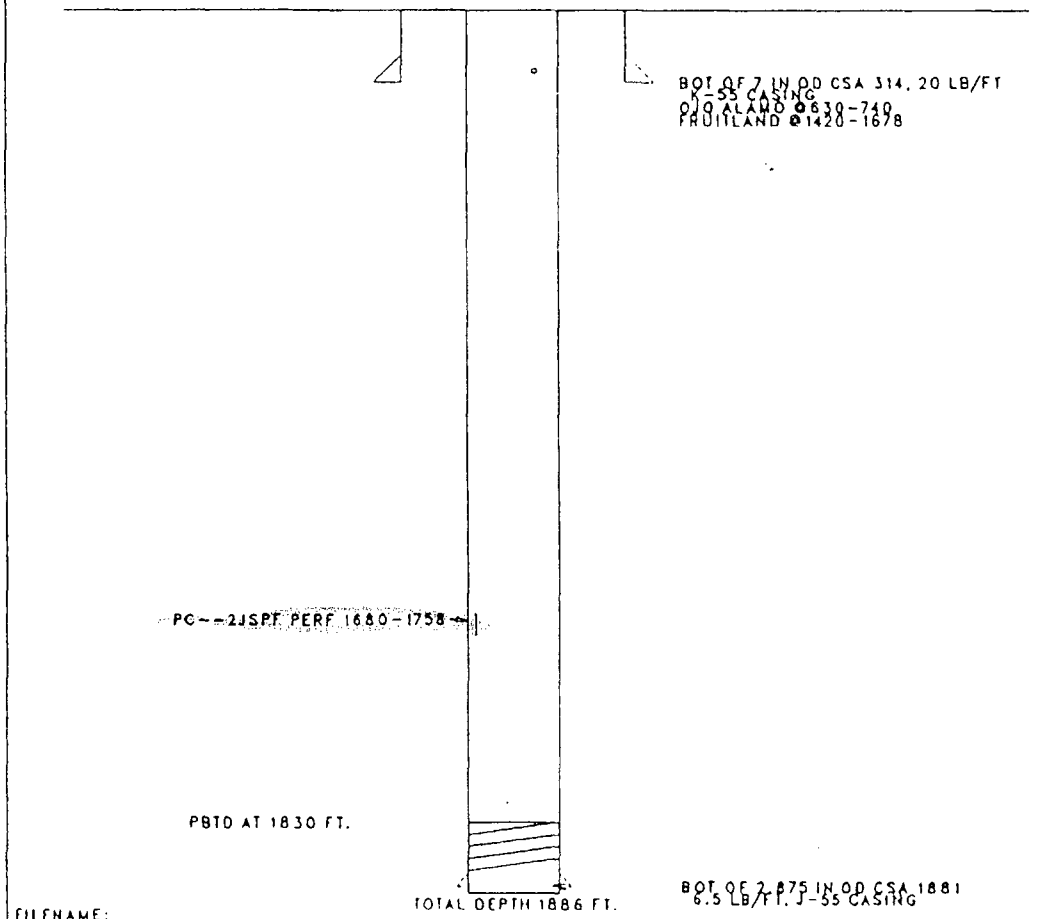
M N GALT B #2
LOCATION, 06 27N 10W
SINGE PC
ORIGINAL COMPLETION 11/85
LAST FILE UPDATE 1/92 BY CSW



FILENAME:
3090

ZCSW10 DEN214 01/17/92 10:49:1

M N GALT B #2
LOCATION, 06 27N 10W
SINGE PC
ORIGINAL COMPLETION 11/85
LAST FILE UPDATE 1/92 BY CSW



FILENAME:
3090

EXHIBIT "H"

WATER ANALYSIS OF MESA VERDE FORMATION

XTO ENERGY INC.

KUTZ FEDERAL SWD #1

NW/4 Sec. 6 T27N-R10W

SAN JUAN COUNTY, NEW MEXICO

HALLIBURTON

Water Analysis Report

To:	XTO	Date:	5/19/2006
Submitted by:	Halliburton Energy Services	Date Rec:	5/17/2006
Attention:	Loren Fothergill	Report #:	FLMM6506
Well Name:	Dawson Federal 1B		

Specific Gravity	1.015	
pH	7.1	
Resistivity	0.29	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	68	Mg / L
Sodium (Na)	11901	Mg / L
Calcium (Ca)	60	Mg / L
Magnesium (Mg)	12	Mg / L
Chlorides (Cl)	18000	Mg / L
Sulfates (SO4)	0	Mg / L
Carbonates (CO3)	0	Mg / L
Bicarbonates (HCO3)	976	Mg / L
Total Dissolved Solids	31017	Mg / L

Respectfully: Holly Lopez

Title: Lab Technician

Location: Farmington, NM

well file

HALLIBURTON

Water Analysis Report

To:	XTO	Date:	12/27/2005
Submitted by:	Halliburton Energy Services	Date Rec:	12/26/2005
Attention:	Jimmy Costalez	Report #:	FLMM5B76
Well Name:	Federal Gas Com #4	Formation:	Mesa Verde

Specific Gravity	1.015	
pH	7.5	
Resistivity	0.33	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	1400	Mg / L
Sodium (Na)	7103	Mg / L
Calcium (Ca)	180	Mg / L
Magnesium (Mg)	27	Mg / L
Chlorides (Cl)	11800	Mg / L
Sulfates (SO4)	65	Mg / L
Carbonates (CO3)	0	Mg / L
Bicarbonates (HCO3)	1342	Mg / L
Total Dissolved Solids	21917	Mg / L

Respectfully: Holly Lopez

Title: Lab Technician

Location: Farmington, NM

EXHIBIT "J"

AFFIDAVIT OF PUBLICATION

XTO ENERGY INC.

KUTZ FEDERAL SWD #1

NW/4 Sec. 6 T27N-R10W

SAN JUAN COUNTY, NEW MEXICO

AFFIDAVIT OF PUBLICATION

Ad No. 55287

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):

Monday, June 18, 2007

And the cost of the publication is $48.96

Robin Allison

ON 6/19/07 ROBIN ALLISON appeared before me, whom I know personally to be the person who signed the above document.

Wynell Corey

My Commission Expires November 17, 2008

COPY OF PUBLICATION

Public Noitce

XTO Energy Inc. is applying with the New Mexico Oil Conservation Division (NMOCD) to drill the Kutz Federal SWD #1, as a water disposal well. The Kutz Federal SWD #1 will be located at 2375' FNL & 1445' FWL, Sec 6, T27N-R10W. San Juan County, NM. The well will dispose of water produced from oil and gas wells into the Mesa Verde formation at a depth of 3,973' to 4,259' at a maximum rate of 3000 barrels of water per day and a maximum pressure of 1,800 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220, South Saint Francis Drive, Santa Fe, NM 87505, within 15 days. Additional information can be obtained by contacting Loren Forthergill, 2700 Farmington Avenue, Building K, Suite 1, Farmington, NM 87401, (505) 324-1090

Legal No. 55287 published in The Daily Times, Farmington, New Mexico on Monday June 18, 2007

2700 Farmington Ave, K-1 Farmington, NM 87401
Phone: (505) 324-1090 FAX: (505) 564-6700

CERTIFIED MAIL 7006-0100-0005-2533-3043

June 25, 2007

Conoco/Phillips
Burlington Resources Oil & Gas LP
3401 East 30th
Farmington, NM 87402

Re: XTO Energy Inc. Kutz Federal SWD #1
2375' FNL & 1445' FWL
Sec. 6, T27N-R10W
San Juan County, New Mexico

To Whom It May Concern:

XTO Energy Inc. is proposing the drill the subject disposal well to the Mesa Verde formation at a depth of 3,973' to 4,259' at a maximum rate of 3000 barrels of water per day and a maximum pressure of 800 psi. A complete copy of the application is enclosed to comply with OCD Regulations.

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 may be obtained by contacting Loren Fothergill, 2700 Farmington Avenue, Building K, Suite 1, Farmington, NM 87401, (505)324-1090.

Yours truly,

Anne Jones
Surface Use Coordinator

7006 0100 0005 2533 3043

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

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

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

FARMINGTON NM 87401 JUN 25 2007 Postmark Here USPS

Sent To: Conoco Phillips
Street, Apt. No.; or PO Box No.: 3401 E 30th
City, State, ZIP+4: Farmington, NM 87402

PS Form 3800, June 2002 — See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Conoco/Phillips
3401 E. 30th
Farmington, NM
87402

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Rachel Grant ☐ Agent ☐ Addressee

B. Received by (Printed Name): Rachel Grant
C. Date of Delivery:

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)*: 7006 0100 0005 2533 3043

PS Form 3811, February 2004 — Domestic Return Receipt — Kutz Fed SWD — 102595-02-M-1540

Form 3160-3
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMSF 0777384

1a. Type of Work: [x] DRILL [ ] REENTER

6. If Indian, Allotee or Tribe Name
N/A

1b. Type of Well: [ ] Oil Well [x] Gas Well [ ] Other [x] Single Zone [ ] Multiple Zone

7. Unit or CA Agreement Name and No.
N/A

2. Name of Operator
XTO Energy Inc.

8. Lease Name and Well No.
KUTZ FEDERAL SWD #1

3a. Address
2700 Farmington Ave., Bldg. K, Ste 1 Farmington, NM

3b. Phone No. (include area code)
505-324-1090

9. API Well No.
30-045-

4. Location of Well (*Report location clearly and in accordance with any State equirements*)*

At surface 2375' FNL x 1445' FWL

10. Field and Pool, or Exploratory
BLANCO MESAVERDE

At proposed prod. zone SAME

11. Sec., T., R., M., or Blk. and Survey or Area
(F) SEC 6, T27N, R10W

14. Distance in miles and direction from nearest town or post office*
Approximately 12 miles Southeast of Bloomfield, NM post office

12. County or Parish
SAN JUAN

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
1445'	2108.35	N/A
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
766'	4260'	UTB000138
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will start*	23. Estimated duration
5792' Ground Elevation	July 2007	2 weeks

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signuature	Name (*Printed/Typed*)	Date
Kyla Vaughan	Kyla Vaughan	05/10/07

Title
Regulatory Compliance Tech

Approved by (Signautre)	Name (*Printed/Typed*)	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

APD/ROW

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

DISTRICT II
811 W. Grand Avenue, Artesia, N.M. 88210

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

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87504-2088

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT (water disposal)

[1] API Number	[2] Pool Code	[3] Pool Name
	72319	(SWD) BLANCO MESAVERDE

[4] Property Code	[5] Property Name	[6] Well Number
	KUTZ FEDERAL S.W.D.	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
5380	XTO ENERGY INC.	5792'

[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	6	27-N	10-W		2375	NORTH	1445	WEST	SAN JUAN

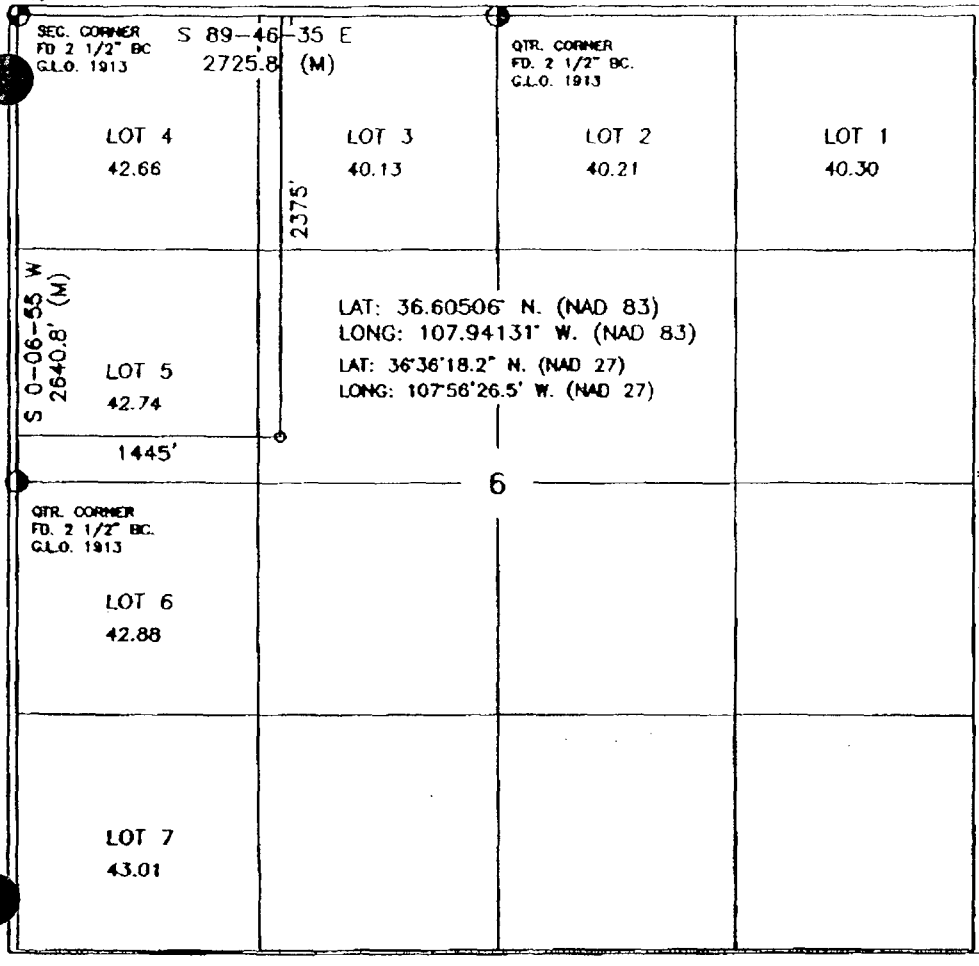
[11] Bottom Hole Location If Different From Surface

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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kyla Vaughan 5/9/07
Signature Date

Kyla Vaughan
Printed Name

[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.

DECEMBER 15, 2006
Date of Survey

Signature and Seal of Professional Surveyor:

ROY A. RUSH
NEW MEXICO
8894
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number

SURFACE USE PLAN

XTO Energy Inc.
Kutz Federal SWD #1
2375' FNL x 1445' FWL
Section 6, T27N, R10W
San Juan County, New Mexico

THIRTEEN POINT SURFACE USE PLAN

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

   a. Proposed route to location is shown on the East Fork Kutz Canyon USGS quadrangle map: **See Exhibit "A".**

   b. Location of proposed well in relation to town or other reference point: **From the intersection of Hwy 64 & Hwy 550 in Bloomfield go South on Hwy 550 8.4 miles and turn East. Follow road 4 miles and turn South. Follow road 0.1 miles to location.**

   c. All existing roads within 1 mile of the drill site are shown on Exhibit "A". **If necessary, all existing roads that will be used for access to the well location will be maintained to their current condition or better unless BLM approval or consent is given to upgrade the existing road(s).**

2. Planned Access Roads:

   a. Location (centerline): **Starting from a point along an existing road in the SENW of sec 6, T27N, R10W.**

   b. Length of new access to be constructed: **Approx 0 feet of new access will be constructed in order to gain safe access to the wellpad. See Exhibit "A"**

   c. Length of existing roads to be upgraded: **No additional upgrades should be necessary to existing oilfield service roads.**

   d. Maximum total disturbed width: **Typically both existing roads and new access roads require up to 40' of disturbed width in order to obtain a 20' driving surface. If both the road and pipeline are capable of sharing the ROW, then only 50' of disturbed width may be needed.**

   e. Maximum travel surface width: **25' or less**

   f. Maximum grades: **Maximum grades will not exceed 10% after construction.**

   g. Turnouts: **No turnouts are planned at this time. Turnouts may be specified in the approved APD.**

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

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

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

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87504-2088

06-462

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name

[4] Property Code	[5] Property Name	[6] Well Number
	KUTZ FEDERAL S.W.D.	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
	XTO ENERGY INC.	5792'

[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	6	27-N	10-W		2375	NORTH	1445	WEST	SAN JUAN

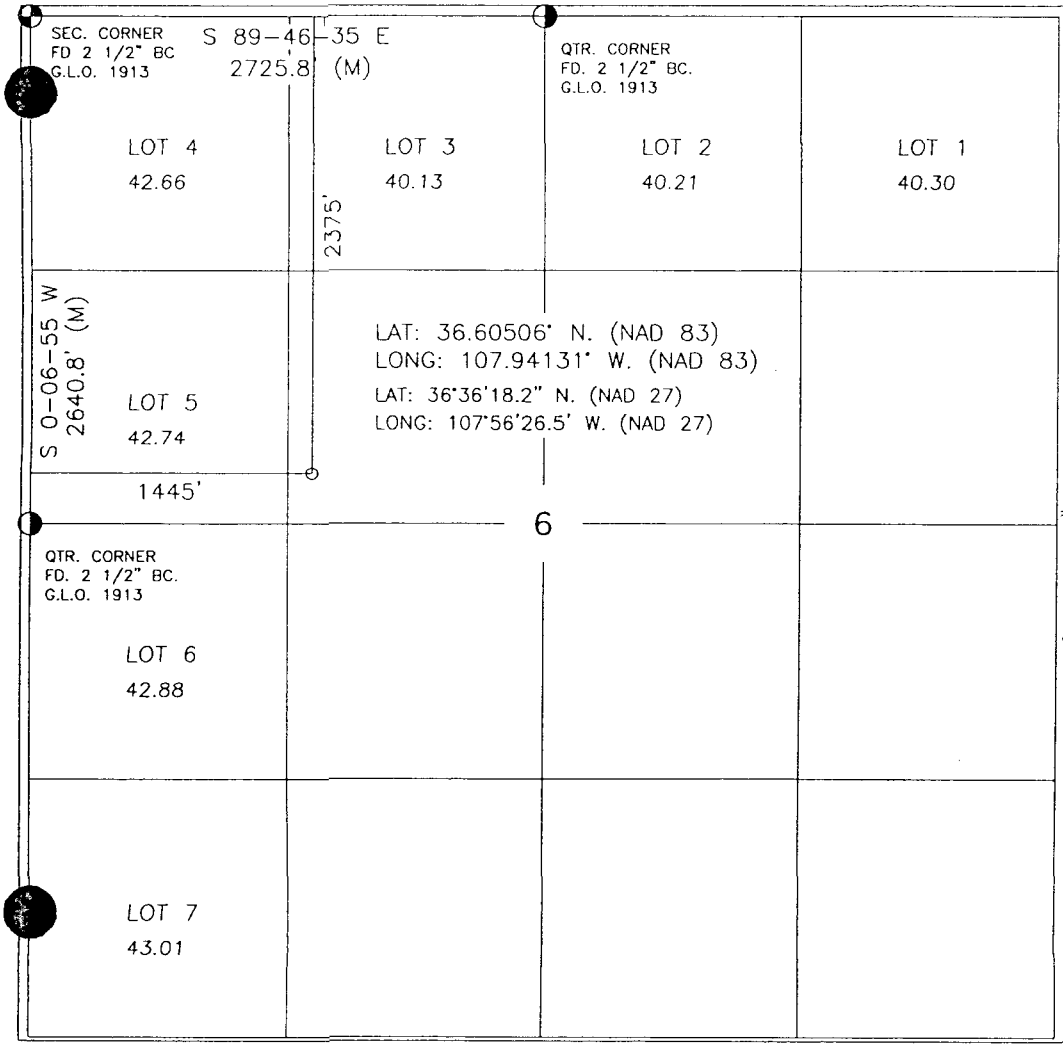
[11] Bottom Hole Location If Different From Surface

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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

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.

DECEMBER 15, 2006
Date of Survey

Signature and Seal of Professional Surveyor:

ROY A. RUSH
NEW MEXICO
8894
REGISTERED PROFESSIONAL LAND SURVEYOR

8894
Certificate Number

Injection Permit Checklist 2/8/07

SWD Order Number 1097 Dates: Division Approved _____ District Approved _____

Well Name/Num: Kutz Federal SWD #1 Date Spudded: New Well

API Num: (30-) 045-34317 County: San Juan

Footages 2375 FNL/1445 FWL Sec 6 Tsp 27N Rge 10W Loren Fothergill

Operator Name: XTO Energy (OGRD 5380) Contact Aimee Jones

Operator Address: 2700 Farmington Ave, K-1, Farmington NM 87401

Current Status of Well: Not Drilled Planned Work: _____ Inj. Tubing Size: 2 7/8 @ 3900'

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	12 1/4 9 5/8	600'	270	Surf
Intermediate				
Production	8 3/4 7	4260'	(910 CF)	Surf.
Last DV Tool	→	3000'		
Open Hole/Liner				
Plug Back Depth			4260' Planned	

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

Checks (Y/N): Well File Reviewed ✓ ELogs in Imaging will be Run

Intervals:	Depths	Formation	Producing (Yes/No)	
~~Salt/Potash~~				
~~Capitan Reef~~				
Cliff House, Etc:				
Formation Above	3103	CLIFF HOUSE		
Top Inj Interval	3973	PLO.		795 PSI Max. WHIP
Bottom Inj Interval	4259	PLO.		NO Open Hole (Y/N)
Formation Below				NO Deviated Hole (Y/N)

Fresh Water: Depths: 0-687' Wells(Y/N) NO Analysis Included (Y/N): _____ Affirmative Statement ✓

Salt Water Analysis: Injection Zone (Y/N/NA) _____ DispWaters (Y/N/NA) _____ Types: DKTA, Gallup, MVRD, ~~Chacra~~, FRC, PC

3973 / 4259

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

Other Affected Parties: Burl.

AOR/Repairs: NumActiveWells ~~150~~ Repairs? _____ Producing in Injection Interval in AOR _____

AOR Num of P&A Wells ~~2~~ 1 Repairs? _____ Diagrams Included? _____ 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 _____

Conditions of Approval: Sec_____ Tsp_____ Rge_____ Data Request Sent _____

SWAB or other Test & report results & catch water for analysis

AOR Required Work: _____

Required Work to this Well: _____