

*Cost Notice  
in 9/17/08*

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 COVERSHEET

THIS COVERSHEET 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] [INSP-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]  
[ESWD-Salt Water Disposal] [11PI-Injection Pressure Increase]  
[EEOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication

☐ NSL ☐ NSP ☐ SD

Check One Only for [13] or [C]

[13] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

✓ [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

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

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[13] ☒ 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] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common,

*I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.*

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

Ann E. Ritchie  
Print or Type Name

Signature

Regulatory Agent  
Title

6-18-08  
Date

*ann.ritchie@wtor.net*  
e-mail Address

2008 JUN 16 PM 3 43  
RECEIVED

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage  
Application qualifies for administrative approval? XX Yes No
- II. OPERATOR: AMTEX Energy Inc.  
ADDRESS: P.O. Box 3418 Midland, Texas 79702  
CONTACT PARTY: William J. Savage PHONE: 432-686-0847
- 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 XX 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: William J. Savage TITLE: Engineer

SIGNATURE: William J. Savage DATE: 6-18-08

E-MAIL ADDRESS: \_\_\_\_\_

- \* 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: X Logging and test data originally done by Meridian and On file with NMOCD under API # 30-025-31653.

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.**

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**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.

# WELL HISTORY

C-108  
Well Data

C-108: III A - Tabular Well Data

**OPERATOR:** AMTEX ENERGY, INC. (MERIDIAN)  
**FEE:** Dagger Lake State 5 #1  
**LOCATION:** 330 FSL & 1980 FEL **API:** 30-025-31653  
**SEC:** 5 (O) **TWP:** 22 S **RGE:** 33 E  
**COUNTY:** Lea **STATE:** NM **G L Elev:** 3646.8

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

**TD:** 8810 **PBTD:** 6028 **EST. TOC:** 2580 by CBL  
**COMPLETED:** 08/29/1992 **OWWO:** **WELL P & A:**  
**DRILLING MUD:** MW:9.8 VIS: 33 Rm: .210 @ 70 ° F Rmc: 0.112 @ 137 ° F  
 Chl: Rmf: .160 @ 70 ° F BHT: 137 ° F  
**ADDITIVES:**  
**LOGS RUN:** Schlumberger: CNL-FDC, DLL-MSFL, CBL  
 (On file with the NMOCD already)  
**DST's / CORES:** None Reported (See Below)

<b>SURFACE</b>	<b>HOLE:</b>	17 1/2" to 622'						
<b>SURFACE</b>	<b>CASING:</b>	13 3/8" (48#)	@	622	W/	630	SX;	ETOC - Circulated
<b>INTERMEDIATE</b>	<b>HOLE:</b>	12 1/4" to 4486						
<b>INTERMEDIATE</b>	<b>CASING:</b>	8 5/8" (28#)	@	4486	W/	2250	SX;	ETOC - Circulated
<b>PRODUCTION</b>	<b>HOLE:</b>	7 7/8" to 8810						
<b>PRODUCTION</b>	<b>CASING:</b>	5 1/2" (17#)	@	8810	W/	1675	SX;	ETOC - 2580 by CBL
	<b>OTHER:</b>							
<b>CASING</b>	<b>PULLED:</b>	NO						

**ORIGINAL** **PROD:** P 120 BO + 120 MCFG + 380 BWPD  
**(Last Prod 7/95)** **CUM PROD:** ( 2 / 08 ) 8.7 MBO + 0.0 MMCF + 95.6 MBW  
**PERFS:** 4951-56, 4962-85 **INTERVAL:** U Delaware Sands  
**TREATMENT:** ACID W/ Natural Completion  
 FRAC W/

**OWWO** **PROD:** No New Potential  
**(2/93)** **CUM PROD:** ( / ) MBO + MMCF + MBW  
**PERFS:** 4951-85 OA **INTERVAL:** U Delaware Sands  
**TREATMENT:** ACID W/ 2500 Gal 7 1/2 % + 200 Gal Toluene  
 FRAC W/

**OWWO** **PROD:**  
**CUM PROD:** ( / ) MBO + MMCF + MBW  
**PERFS:** **INTERVAL:**  
**TREATMENT:** ACID W/  
 FRAC W/

NOTE: Well T & A 8/97

COMMENTS / RECOMMENDATIONS

- III A(3) Tubing to be used: 2 7/8" 6.5 # J-55      Tubing will be set at approximately 4900 feet.  
No liner will be used.
- III A(4) A Baker Model R Packer will be used and will be set approximately 6' below the tubing (approx 4906)
- III B(1) The Upper Delaware (Ramsey sand) will be the injection formation      Pool Name: Dagger Lake, Delaware
- III B(2) The existing perforations from 4951-56, 4962-85 will be used.
- III B(3) Well was originally drilled as an oil well.
- III B(4) No other zones were perforated in this well.
- III B(5) There is no shallower production within 2 miles of this well.  
The next deeper production is the lower Delaware (Brushy Canyon) at approx. 8800' in the Red Tank Field (3 miles SW)  
The Bone Spring produces from 9426-11551 a mile to the NW in the Amtex Energy Dagger Lake State #2 well (Sec. 6)  
Nearest offset producer: 1/2 Mile NW - EOG Resources Dagger 5 State Com #1      TD: 14874  
Completed 4/2006      Morrow Gas well - Perfs: 14686-724
- VII 1 Proposed average and maximum daily rates of injection:      Ave - 2000 BWPD      Max - 3000 BWPD
- VII 2 System will be closed.
- VII 3 Proposed average and maximum injection pressure:      Ave - ~~800~~ psi      Max - ~~1237~~ psi
- VII 4 Ave Chl for Upper Delaware sands: 140,000-160,000      (Analyses attached - Source: Roswell Geol. Society Fields Book)  
Ave Chl for Lower Delaware sands: 140,000-160,000      (Analyses attached - Source: Roswell Geol. Society Fields Book)
- VII 5 Water Analysis taken 10/7/1992 from current perfs in Dagger Lake State 5 #1 indicate Ramsey formation water -  
Chlorides were 143,458 (Analysis attached)      Well watered out (Cum water produced was 95.6 MBW)
- VIII. Geological data on injection zone is attached for your reference  
Approximately 6 miles North (Sec. 2, T-21-S, R-33-E) - Santa Rosa water @ 1150' Copy of NM WAIDS attached.  
Approximately 4 miles Northwest (Sec. 18, T-21-S, R-33-E) Ogalalla water @ 150' Copy of NM WAIDS attached.  
Approximately 3 miles NNE (Sec. 28, T-21-S, R-33-E) Chinle (?) water @ 224' Copy of NM WAIDS attached.  
Estimated Depth to Ground Water is 350 feet - in the Santa Rosa
- IX. No additional stimulation is proposed at this time.
- X. Logging and test data are already on file at the NMOCD.
- XI There are no water wells within 1 mile of the proposed injection well..  
Water analysis from a surface stock tank approx 1/4 mile NNE is attached. (Smpl taken 6/4/2008)

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

PUBLISHER

of the Hobbs News-Sun, a  
newspaper published at  
Hobbs, New Mexico, do solemnly  
swear that the clipping attached  
hereto was published once a  
week in the regular and entire  
issue of said paper, and not a  
supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

June 13 2008

and ending with the issue dated

June 13 2008

*Kathi Bearden*

PUBLISHER

Sworn and subscribed to before

me this 13th day of

June

2008

Notary Public.

My Commission expires  
February 07, 2009  
(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

This newspaper is duly qualified  
to publish legal notices or adver-  
tisements within the meaning of  
Section 3, Chapter 167, Laws of  
1937, and payment of fees for  
said publication has been made.

LEGAL NOTICE  
June 13, 2008

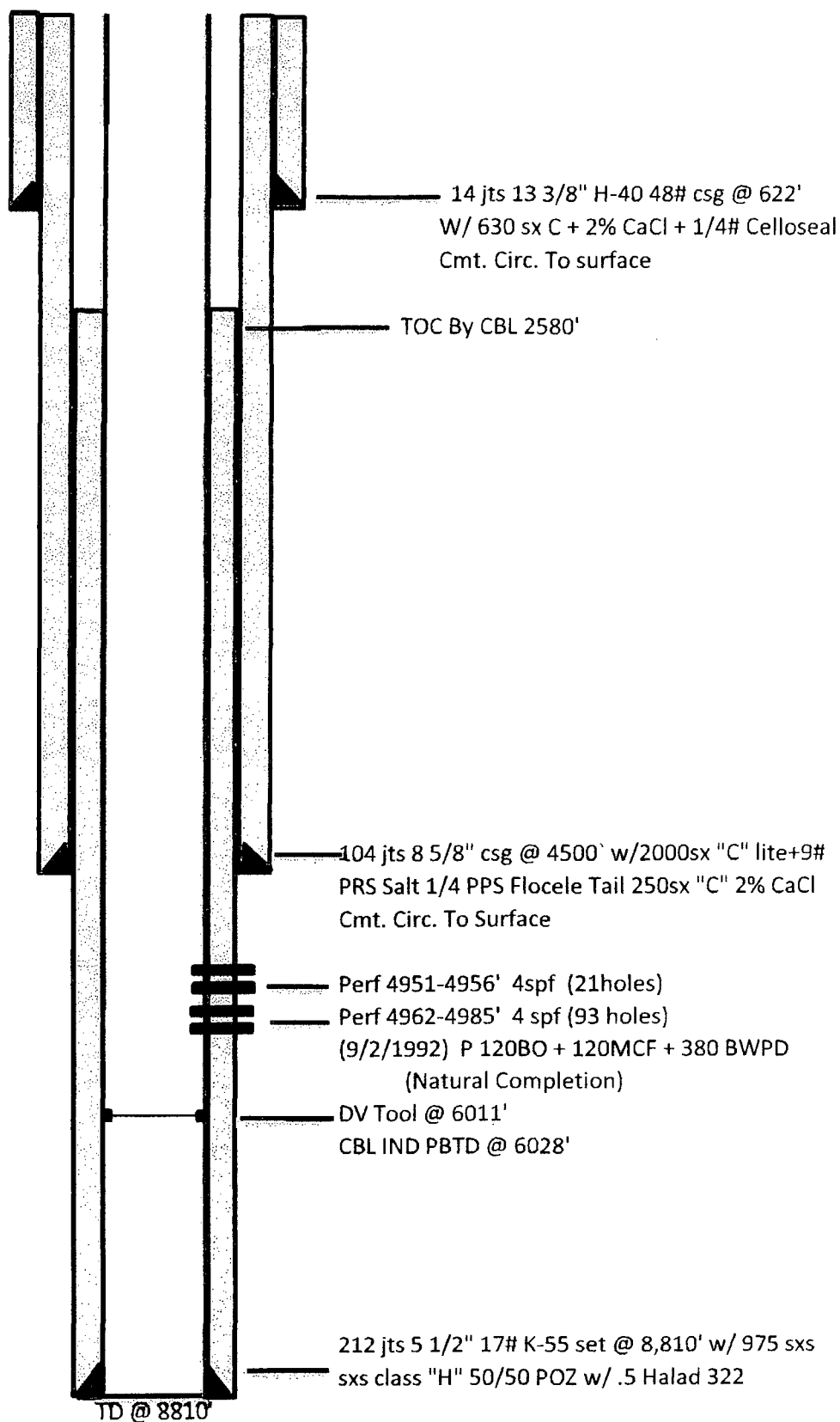
NOTICE OF COMMERCIAL DISPOSAL APPLICATION

Amtex Energy, Inc., c/o P.O. Box 953, Midland, TX 79702  
will file the New Mexico Oil Conservation Division Form  
C-108, Application for Authorization to Inject, with the  
NMOCD seeking administrative approval for commercial  
water injection/disposal into their Dagger Lake State 5 Well  
#1, located 330' FSL & 1980' FEL of Sec 5, T22S, R33E,  
Lea County, NM. The proposed injection interval is from  
4951' to 4985'. The proposed maximum surface pressure is  
1237 psi, with a maximum injection rate of 3000 bbls  
water per day. The injection water will be sourced from the  
Brushy Canyon formation at 8800' Morrow at 14000' and  
produced water from various area operators.

All interested parties opposing the application must file  
objection with the New Mexico Oil Conservation Division,  
1220 South St. Francis Dr., Santa Fe, NM 87505 within 15  
days of this notice. Additional information can be obtained  
by contacting Ann Ritchie, Regulatory Agent, Amtex  
Energy, Inc., c/o P.O. Box 953, Midland, TX 79702,  
(432) 684-6381.  
#24124

67100851000      67551428  
WEST TEXAS OIL REPORTS  
PO BOX 953  
MIDLAND, TX 79702

<b>OPERATOR:</b> Amtex Energy	<b>NAME OF LEASE:</b> Dagger Lake "5" State	<b>WELL:</b> No. 1
<b>LOCATION:</b> 330' FSL & 1980' FEL Sec. 6, T-22-S. R-33-E, Lea County, New Mexico		



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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Branco Rd., Artec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator MERIDIAN OIL, INC.			Lease DAGGER LAKE STATE		Well No. 1
Unit Letter 0	Section 5	Township 22 SOUTH	Range 33 EAST	NMPM	County LEA
Actual Footage Location of Well: 330 feet from the SOUTH line and 1980 feet from the EAST line					
Ground Level Elev. 3646.8'	Producing Formation Delaware		Pool Wildcat		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
  3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

OPERATOR CERTIFICATION

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

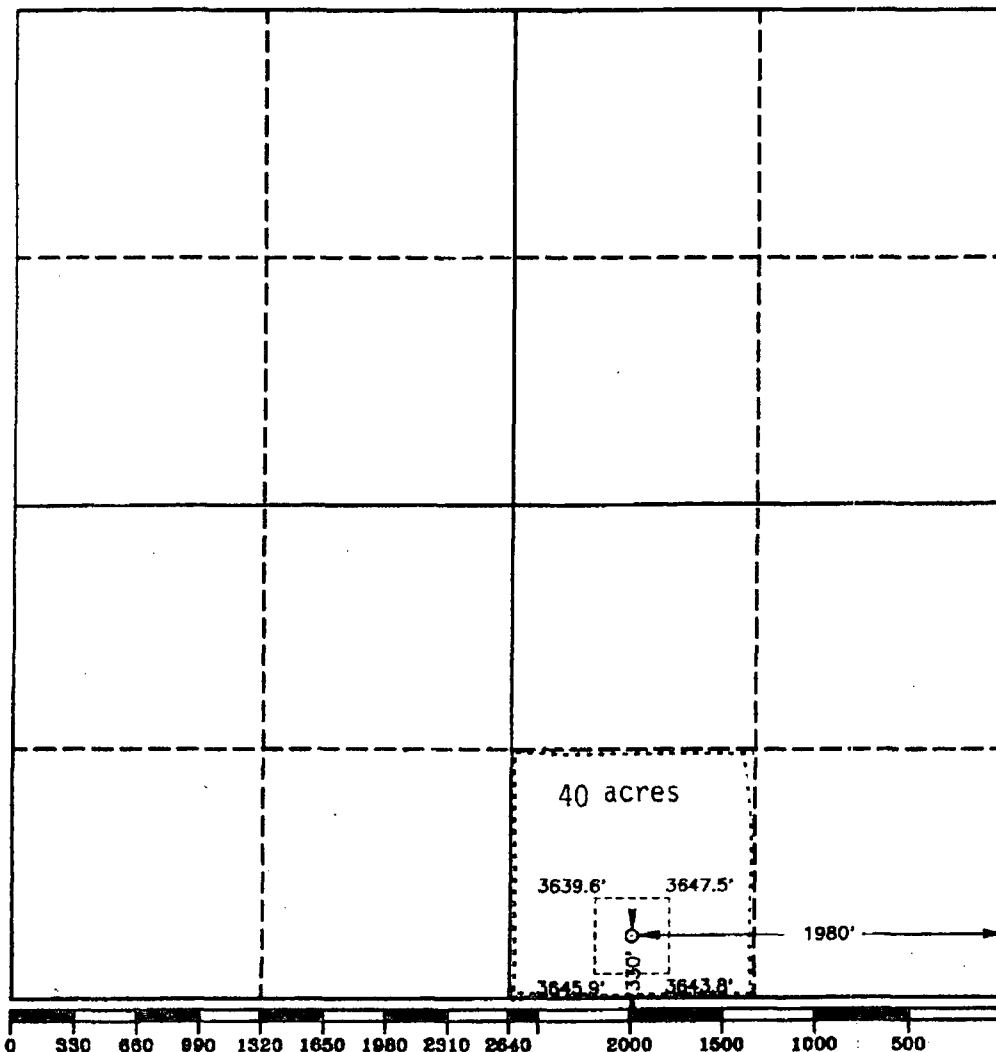
Signature  
*Roxann Scholz*  
Printed Name  
Roxann Scholz  
Position  
Prod Asst  
Company  
Meridian Oil Inc  
Date  
7/20/92

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 knowledge and belief.

Date Surveyed  
JULY 11, 1992  
Signature & Seal of  
Professional Surveyor

*Ronald J. Weston*  
Certificate No. JOHN W. WEST. 379  
RONALD J. WESTON. 3238  
DATE 7/20/92





Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-105  
Revised 1-1-99

WELL API NO. 30-025-31653
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEB <input type="checkbox"/>
6. State Oil & Gas Lease No. V-2387

7. Lease Name or Unit Agreement Name DAGGER LAKE STATE
---

8. Well No. 1
9. Pool name or Wildcat WILDCAT

4. Well Location Unit Letter 0 : 330 Feet From The SOUTH Line and 1980 Feet From The EAST Line Section 5 Township 22-S Range 33-E NMPM LEA County
---

10. Date Spudded 7-30-92	11. Date T.D. Reached 8-26-92	12. Date Compl. (Ready to Prod.) 8-29-92	13. Elevations (DFA RKB, RT, GR, etc.) 3646.8'GR	14. Elev. Casinghead
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15. Total Depth 8810'	16. Plug Back T.D. 8763'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools O-TD	Cable Tools
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19. Producing Interval(s), of this completion - Top, Bottom, Name 4951-4985 DELAWARE	20. Was Directional Survey Made NO
---	---------------------------------------

21. Type Electric and Other Logs Run DLL/MSFL-CNL/LDT	22. Was Well Cored NO - ROTARY SIDEWALL CORES ONLY
--	---

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

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	622'	17-1/2"	630SXS "C"	200SXS
8-5/8"	28#	4486'	12-1/4"	2250SXS "C"	300SXS
5-1/2"	17#	8810'	7-7/8"	1675SXS "H" 50-50POZ	TOC@2580'
					CBL

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET
				2-7/8"	5080'	

26. Perforation record (interval, size, and number) 4951 - 4956', 4 SPF, 21 HOLES 4962 - 4985', 4 SPF, 93 HOLES	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED NONE
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28. PRODUCTION

Date First Production 9/2/92	Production Method (Flowing, gas lift, pumping - Size and type pump) 2-1/2"X2-1/4"X20" TBG. PUMP	Well Status (Prod. or Shut-in) PROD					
Date of Test 10/6/92	Hours Tested 24HRS	Choke Size	Prod'n For Test Period	Oil - Bbl. 120	Gas - MCF 120	Water - Bbl. 380	Gas - Oil Ratio 1000/1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.) 42°	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented	Test Witnessed By
--	-------------------

30. List Attachments C-103, C-104, inclination report, 2-sets of logs
--

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Maria L. Perez	Printed Name MARIA PEREZ	Title PROD. ASST.	Date 10/21/92
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# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

### Southeastern New Mexico

T. Anhy 1130'  
 T. Salt 1265'  
 B. Salt 3525'  
 T. Yates  
 T. 7 Rivers  
 T. Queen  
 T. Grayburg  
 T. San Andres  
 T. Glorieta  
 T. Paddock  
 T. Blinebry  
 T. Tubb  
 T. Drinkard  
 T. Abo  
 T. Wolfcamp  
 T. Penn  
 T. Cisco (Bough C)

T. Canyon  
 T. Strawn  
 T. Atoka  
 T. Miss  
 T. Devonian  
 T. Silurian  
 T. Montoya  
 T. Simpson  
 T. McKee  
 T. Ellenburger  
 T. Gr. Wash  
 T. Delaware Sand 4910'  
 T. Bone Springs 8745'  
 T.  
 T.  
 T.  
 T.

### Northwestern New Mexico

T. Ojo Alamo  
 T. Kirtland-Fruitland  
 T. Pictured Cliffs  
 T. Cliff House  
 T. Menefee  
 T. Point Lookout  
 T. Mancos  
 T. Gallup  
 Base Greenhorn  
 T. Dakota  
 T. Morrison  
 T. Todilto  
 T. Entrada  
 T. Wingate  
 T. Chinle  
 T. Permian  
 T. Penn "A"

T. Penn. "B"  
 T. Penn. "C"  
 T. Penn. "D"  
 T. Leadville  
 T. Madison  
 T. Elbert  
 T. McCracken  
 T. Ignacio Otzte  
 T. Granite  
 T.  
 T.  
 T.  
 T.  
 T.  
 T.  
 T.

### OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....  
 No. 2, from.....to..... No. 4, from.....to.....

### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....  
 No. 2, from.....to.....feet.....  
 No. 3, from.....to.....feet.....

### LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0	1130	1130	RED BEDS				
1130	1265	135	ANHY.				
1265	3525	2260	SALT & ANHY.				
3525	4635	1110	ANHY.				
4635	4910	275	LIMESTONE & DOLOMITE				
4910	8745	3835	SANDSTONE				
8745	TD 8810'	65'	LIMESTONE & SHALE				

RECEIVED  
 OCT 26 1992  
 OCD HOBBS

State of New Mexico  
Energy, Minerals and Natural ResourcesOIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-31653
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Amtex Energy, Inc.		6. State Oil & Gas Lease No. 19207
3. Address of Operator P. O. Box 3418, Midland, Texas 79702		7. Lease Name or Unit Agreement Name: Dagger Lake 5 State
4. Well Location Unit Letter <u>0</u> : <u>330</u> feet from the <u>South</u> line and <u>1980</u> feet from the <u>East</u> line Section <u>5</u> Township <u>22S</u> Range <u>33E</u> NMPM County <u>Lea</u>		8. Well No. 1
10. Elevation (Show whether DR, RKB, RT, GR, etc.) KB 3661'		9. Pool name or Wildcat Dagger Lake Delaware

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

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐ CHANGE PLANS ☐PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐OTHER: ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐CASING TEST AND CEMENT JOB ☐OTHER: Temporarily Abandon ☒

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

1. MIRU Black Warrior Wireline Corp's Wireline Truck.
2. RIH and set CIBP @ 4910' and cap with 35' of cement.
3. RD Wireline Truck x MIRU Maclasky kill truck.
4. Load casing with water and pressure test to 500 psi and record on a chart recorder for 30 minutes (see attached chart).
5. Temporarily abandonment complete and Well Shut-In.

This Approval of Temporary  
Abandonment Expires 8/14/09

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

SIGNATURE William J. Savage TITLE PresidentDATE 8/16/04

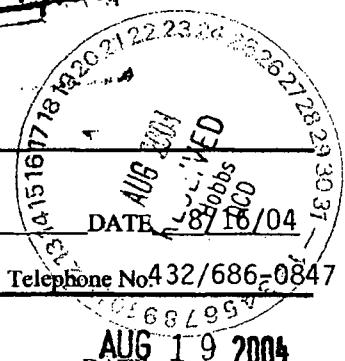
Type or print name William J. Savage

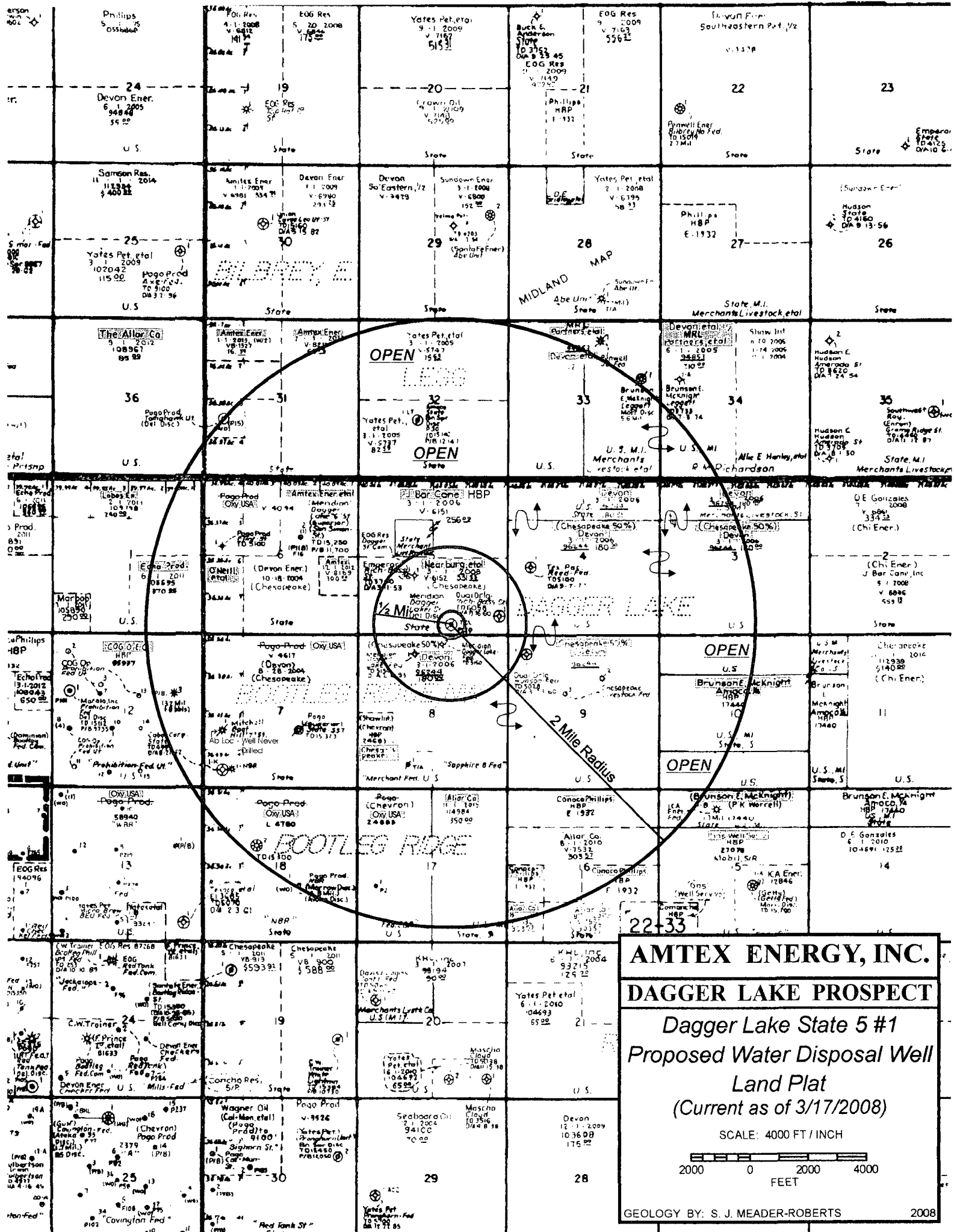
Telephone No. 432/686-0847

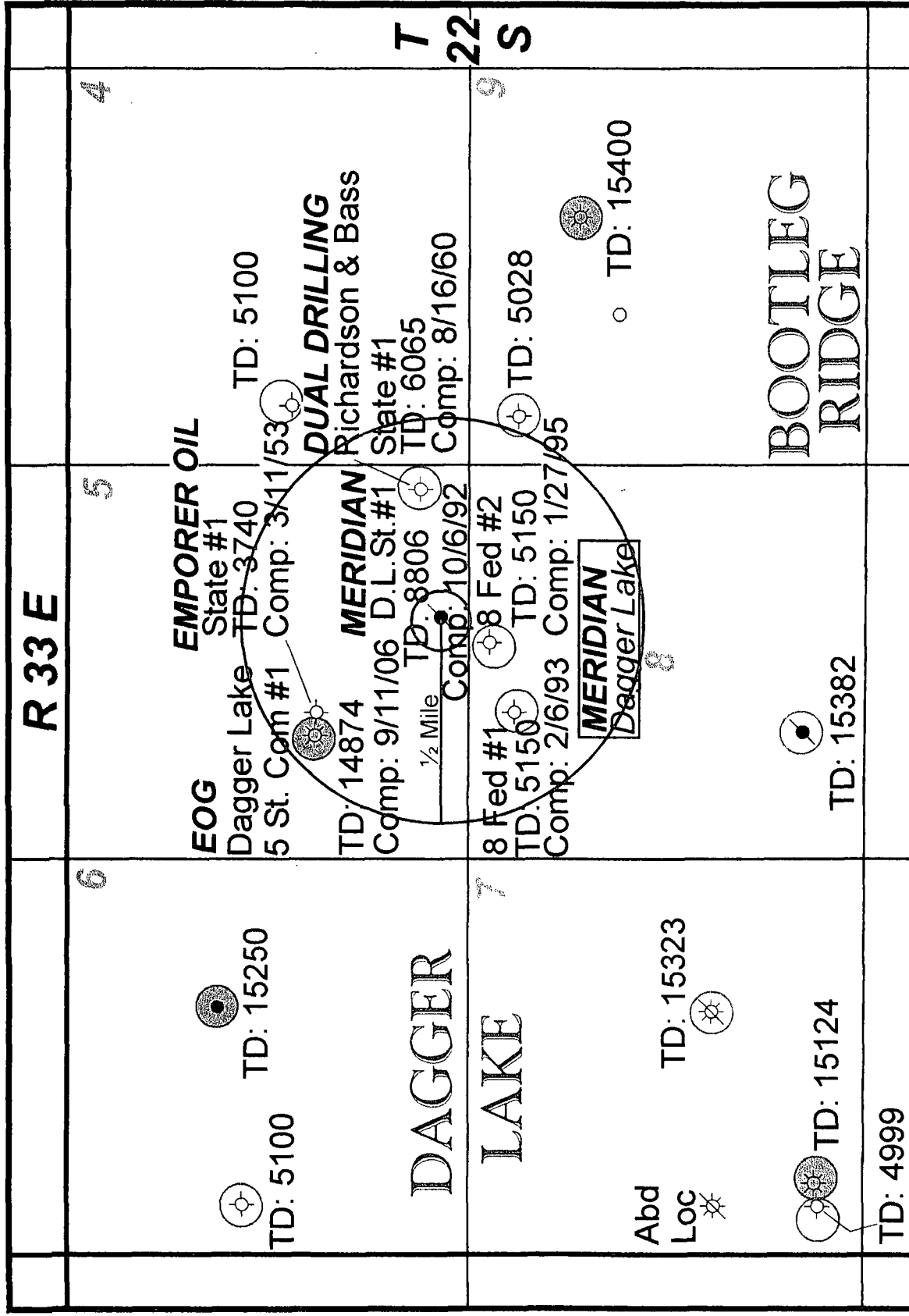
(This space for State use)

APPROVED BY Harry W. Wink DISTRICT REPRESENTATIVE II/STAFF MANAGER

Conditions of approval,







WELL STATUS	
PROD	P & A
●	OIL
⊙	GAS
⊗	O & G
○	DRY
⊕	SALT WATER
⊖	INJECTION
○	LOCATION

### PRODUCTION

- DELAWARE
- ⊙ BONE SPRING
- ⊗ ATOKA
- ⊕ MORROW

○ Wells That Penetrate the U. Delaware

**AMTEX ENERGY, INC.**

**DAGGER LAKE AREA**

**WELL IDENTIFICATION MAP**

**1/2 Mile Radius**

**Proposed SWD Well**

**SCALE: 2000 FT / INCH**  
1000 0 FEET 1000 2000

**GEOLOGY BY: S. J. MEADER-ROBERTS**

**2008**

**PROPOSED WATER DISPOSAL WELL**

**AMTEX ENERGY, INC**  
**DAGGER LAKE STATE 5 #1**  
**330 FSL & 1980 FEL**  
**Sec. 5, T-22-S, R-33-E**  
**Lea County, New Mexico**

**Wells Within The Area Of Review That Penetrated The Proposed Injection Zone**

**EOG Resources**

**API: 30-025-37630**

**Bootleg Ridge, Morrow**

Dagger Lake 5 State Com #1

1980 FSL & 1650 FWL

Sec 5(K), T-22-S, R-33-E

TD: 14874 (Morrow)

Type: Morrow Gas Well

Completed: 9/11/2006

IP: F 418 MCFGPD Perfs: 14686-724

Construction: 17" Hole drilled to 1390

13 3/8" 54.5# J55 Casing set @ 1390 w/ 740 sacks - cement circulated ✓

12 1/4" hole drilled to 5440

9 5/8" 40# J55 and HCK 55 Casing set @ 5440 w/ 1700 sacks - cement circulated

8 3/4" hole drilled to 12180

7" 26# HCP 110 Casing set @ 12180 w/ 1178 sacks - cement circulated to surface

4 1/2" 13.5# P110 Liner set @ 14850 w/ 450 sacks - TOL @ 11882

**AMTEX Energy, Inc. (Meridian)**

**API: 30-025-31653**

**Dagger Lake, Delaware**

**Proposed Injection Well**

Dagger Lake State 5 #1

330 FSL & 1980 FEL

Sec. 5 (O), T-22-S, R-33-E

TD: 8810 (Delaware)

Type: Upper Delaware Oil Well

Completed: 8/29/1992

IP: P120 BO + 120 MCFG + 380 BWPD

Well T & A 8/1997

Construction: See attached Tabular Well Data.

(See attached Schematic)

**Dual Drilling Company**

**API: 30-025-01794**

**Wildcat**

Richardson and Bass State #1

660 FSL & 330 FEL

Sec. 5 (P), T-22-S, R-33-E

TD: 6065 (Delaware)

Type: Dry Hole

Completed: 8/19/1960

(continued next page)

Construction: Surface hole size not reported  
8 5/8" Casing Set @ 324' w/ 350 Sacks - ETOC - circulated  
Open hole size not reported - drilled to 6065  
Subsequently plugged back to 4150'  
4 1/2" Casing Set @ 4150 w/100 sacks - ETOC-3150  
(See attached Schematic)

**Meridian Oil Company**

**API: 30-025-32830**

**Dagger Lake, Delaware**

Dagger Lake 8 Federal #2  
330 FNL & 2310 FEL  
Sec. 8 (B), T-22-S, R-33-E  
TD: 5150 (Upper Delaware)  
Type: Dry Hole  
Completed: 1/27/1995

Construction: 12 1/4" Surface hole drilled to 622'  
8 5/8" 28# Casing set @ 622' w/375 sacks - circulated to surface  
Size of hole from 8 5/8" casing - not reported  
Well was TD'd at 5150'  
No long string casing was run as well was a dry hole.  
(See attached Schematic)

P

**Meridian Oil Company**

**API: 30-025-31885**

**Dagger Lake, Delaware**

Dagger Lake 8 Federal #1  
660 FNL & 1980 FWL  
Sec. 8 (C), T-22-S, R-33-E  
TD: 5150 (Upper Delaware)  
Type: Dry Hole  
Completed: 1/27/1993

Construction: 12 1/4" Surface hole drilled to 633'  
8 5/8" 28# Casing set @ 633' w/ 375 sacks - circulated to surface  
7 7/8" hole drilled to 5150  
No long string casing was run as well was a dry hole.  
(See attached Schematic)

P

# **PROPOSED WATER DISPOSAL WELL**

***AMTEX ENERGY, INC***  
**DAGGER LAKE STATE 5 #1**  
**330 FSL & 1980 FEL**  
**Sec. 5, T-22-S, R-33-E**  
**Lea County, New Mexico**

## **Lessees Within A 2 Mile Radius of The Proposed Disposal Well**

Section 5, T-22-S, R-33-E (State Land - Minerals and Surface)

S/2 Nearburg, et al (HBP) - See attached data from State Land Office

N/2 J Bar Cane (HBP) - See attached data from State Land Office

Surface lease - Merchant Livestock, Inc -- See attached data from State Land Office

Section 32, T-21-S, R-33-E (State Land - Minerals and Surface)

All Verified Open - See attached data from State Land Office

Section 33, T-21-S, R-33-E (Federal Land - Minerals; Merchants Livestock, et al - Surface)

All MRL Partners, et al - Mailing address from State Land Office attached

Devon, et al - Mailing address from State Land Office attached

Section 34, T-21-S, R-33-E (Federal Land - Minerals; R. M. Richardson - Surface)

SW/4 Devon, et al

MRL Partners, et al

Section 4, T-22-S, R-33-E (Federal Lands - Minerals; State Lands - Surface for N/2 N/2)

N/2 N/2 Devon - Mailing address from State Land Office attached

S/2 N/2 and all S/2 Chesapeake Mailing address from State Land Office attached  
Devon

Section 3, T-22-S, R-33-E (Federal Lands - Minerals; Merchant Livestock - Surface)

N/2 N/2 Devon

S/2 N/2 and all S/2 Chesapeake and Devon

Section 9, T-22-S, R-33-E (Federal Lands - Minerals)

All Chesapeake and Devon

Section 10, T-22-S, R-33-E (Federal Lands - Minerals, State - Surface)

N/2 N/2 Open Acreage

S/2 N/2 and N/2 S/2 Brunson & McKnight - Mailing address from State Land Office attached  
Amoco (1/4) - but Amoco has since been bought out  
(Possibly BP America - Mailing address attached)

S/2 S/2 Open Acreage

Section 15, T-22-S, R-33-E (Federal Lands - Minerals, State - Surface)

N/2 NW/4 Brunson & McKnight

SW/NW Gas Well Services, Inc - Mailing address from State Land Office attached



Section 16, T-22-S, R-33-E (State Lands - Minerals)

N/2 N/2, NW/SE, and NW/SW      Conoco-Phillips - Mailing address from SLO attached  
S/2 N/2, NE/SW, and S/2 SW      Allar Company - Mailing address from SLO attached

Section 17, T-22-S, R-33-E (Federal Lands - Minerals; State Lands - Surface)

E/2      Allar Company  
W/2      Oxy, USA (Bought Pogo's Properties) - Mailing address from SLO attached

Section 18, T-22-S, R-33-E (State Lands - Minerals)

All      Oxy USA

Section 8, T-22-S, R-33-E (Federal Lands - Minerals; Merchant Farms - Surface Lease)

N/2, SE/4, and NE/SW      Devon and Chesapeake  
NW/SW and S/2 SW/4      Chesapeake

Section 7, T-22-S, R-33-E (State Lands - Minerals)

All      Oxy USA

Section 13, T-22-S, R-33-E (Federal Lands - Minerals)

NE/NE      Oxy USA

Section 12, T-22-S, R-33-E (Federal Lands - Minerals)

E/2      COG Oil and Gas      Mailing address from State Land Office attached

Section 1, T-22-S, R-33-E (Federal Lands - Minerals)

SE/4      Echo Production      Mailing address from State Land Office attached  
NE/4      Lobos Energy      Mailing address from State Land Office attached

Section 6, T-22-S, R-33-E (State Lands - Minerals and Surface)

NOTE: Surface Leased to Merchant Farms, Inc. Mailing address from SLO attached  
NW/4      Oxy USA  
E/2 and SW/4      Amtex Energy, Inc. (see attached data from SLO)

Section 36, T-21-S, R-32-E (Federal Lands - Minerals)

All      The Allar Companies      Mailing address from State Land Office Attached

Section 31, T-21-S, R-33-E (State Lands - Minerals)

All      Amtex Energy, Inc.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Meridian Oil Inc.

3. Address and Telephone No.  
P.O. Box 51810, Midland, TX 79710-1810 915-688-6800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
C, 660' FNL & 1980' FWL  
Sec. 8, T22S, R33E

5. Lease Designation and Serial No.  
NM-70343

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
Dagger Lake "8" Fed. #1

9. API Well No.  
30-025-31885

10. Field and Pool, or Exploratory Area  
Dagger Lake Delaware

11. County or Parish, State  
Lea

**CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

**TYPE OF ACTION**

☒ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)\*

2-6-93 - Set first plug, btm @4911', 58 sxs class "C" w/2% CaCl.  
woc 4.25 hrs.  
tag plug top @4736'  
set second plug from 1160'-1060', 42 sxs class "C" w/2% CaCl.  
pump 3rd plug from 682'-500' w/42 sxs class "C" w/2% CaCl.  
WOC 4 hrs.  
tag top of 3rd plug @584'  
pump surf. plug @60' w/17' sxs. class "C"

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

Signed Adam Salameh  
(This space for Federal or State office use)  
Orig. signed by Adam Salameh

Title Production Assistant

Date 2-17-93

Approved by \_\_\_\_\_  
Conditions of approval, if any:

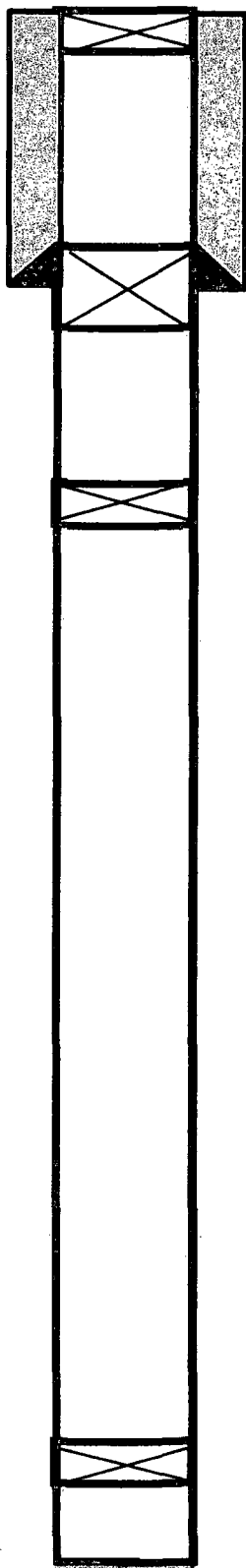
Title \_\_\_\_\_

Date 3/1/93

**OPERATOR:** Meridian Oil Inc.

**NAME OF LEASE:** Dagger Lake '8' FED **Well:** No. 1

**LOCATION:** 660' FNL & 1980' FWL, Sect. 8, T-22-S, R-33-E Lea County, New Mexico



60'-SURF 17 sx class "C" cmt.

14 jts. 8 5/8 csg set @ 633'

cmt. W/375 sx class "C" w/2% CaCl<sub>2</sub>. circ. 115 sx  
682-584' 42 sx class "C"

1160-1060' 42 sx class "C"

4911-4736' 58 sx class "C"

TD @ 5150'



Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MERIDIAN OIL INC.

3. Address and Telephone No.

P.O. Box 51810, Midland, TX 79710-1810 915-688-6943

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

BC 660' FNL & 1980' FWL 330'W & 230'E  
SEC. 8, T22S, R33E

N 171 CONS. COMMISSION  
P.O. BOX 1980  
MOHRS NEW MEXICO 88240  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM 70343

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

DAGGER LAKE '8' NO. 2  
FEDERAL

9. API Well No.

30-025-32838 0

10. Field and Pool, or exploratory Area

DAGGER LAKE DELAWARE

11. County or Parish, State

LEA NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other PLUG AND ABANDON
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)

WELL WAS A DRY HOLE. REQUESTED APPROVAL ON JANUARY 27, 1995 TO PLUG AND ABANDON THE WELL. NOTICE OF INTENT (3160-5) WAS FAXED TO ADAM SALAMEH AND THE BELOW LISTED PROCEDURES WAS APPROVED.

TOPS: 4910' DELAWARE  
3535' BASE OF SALT  
1215' TOP OF SALT/SALADO  
1080' RUSTLER  
622' SURF. CSG SHOE

PLUGS: 40 SXS 4860'-4960' (TAG)  
49 SXS 3585'-3485'  
43 SXS 1265'-1165'  
30 SXS 672'-572' (TAG)  
10 SXS 50' - SURF.

RECEIVED  
APR 4 11 38 AM '95  
CARC  
ARFZ  
MOHRS

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

Signed

Title REGULATORY ASSISTANT

Date 3/31/95

(This space for Federal or State office use)

Approved by Orig. Signed by Adam Salameh

Title

Petroleum Engineer

Date

6/6/95

Conditions of approval, if any:

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.

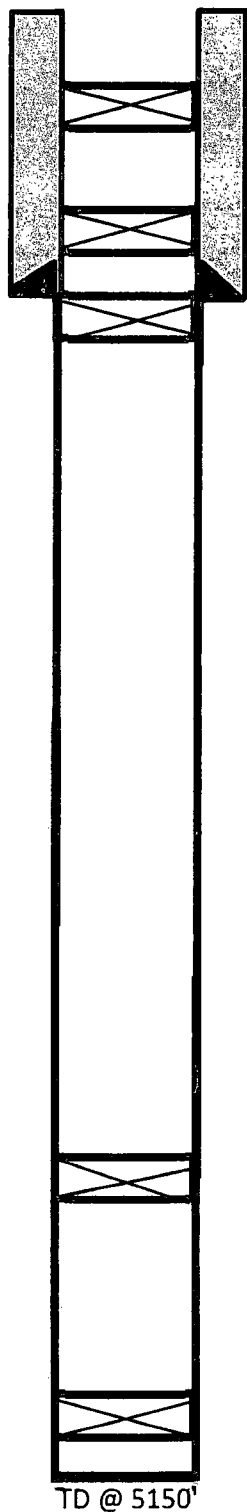
\* See Instruction on Reverse Side

NOT  
200

**OPERATOR:** Meridian Oil Inc.

**NAME OF LEASE:** Dagger Lake '8' FED **Well:** No. 2

**Location:** 330' FNL & 2310' FEL Sec. 8 T-22-S, R-33-E Lea County, New Mexico



CMT Plug (16 sx) @ 63'

Tag Plug @ 510'

8 5/8 28# csg @ 622' CMTED W/375 sx  
class "C" + 2% CaCl<sub>2</sub> + .25 PPS Celloflake Circ.  
CMT Plug (35sx) @ 661'

CMT Plug (50sx) @ 3580'

CMT Plug (50 sx) @ 4969'



TD @ 5150'

DUPLICATE

NEW-MEXICO OIL CONSERVATION COMMISSION

FORM C-103  
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company <b>DUAL DRILLING COMPANY</b>		Address <b>606 City Nat'l Bldg. Wichita Falls, Tex.</b>					
Lease <b>Richardson &amp; Bass St.</b>	Well No. <b>1</b>	Unit <b>1</b>	Letter <b>F</b>	Section <b>5</b>	Township <b>22S</b>	Range <b>31E</b>	
Date Work Performed <b>8/19/60</b>	Pool <b>Wildcat</b>			County <b>Lea</b>			

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations   
 ☐ Casing Test and Cement Job   
 ☐ Other (Explain):  
☒ Plugging   
 ☐ Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

P&A 8/19/60 Cut and recovered 3150' 4-1/2" csg (left 100' 3150-4150')

Plugs as follows:

5 ex from 3670-80'  
 25 ex across stub of 4-1/2" at 3150'  
 25 ex 1537-1650'  
 25 ex 324-350' across surface csg  
 10 ex in surface w/regulation marker

Location will be cleaned and levelled and Commission notified

Witnessed by <b>S. O. Lamb</b>	Position <b>Toolpusher</b>	Company <b>Dual Drilling Company</b>
-----------------------------------	-------------------------------	---

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P BTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

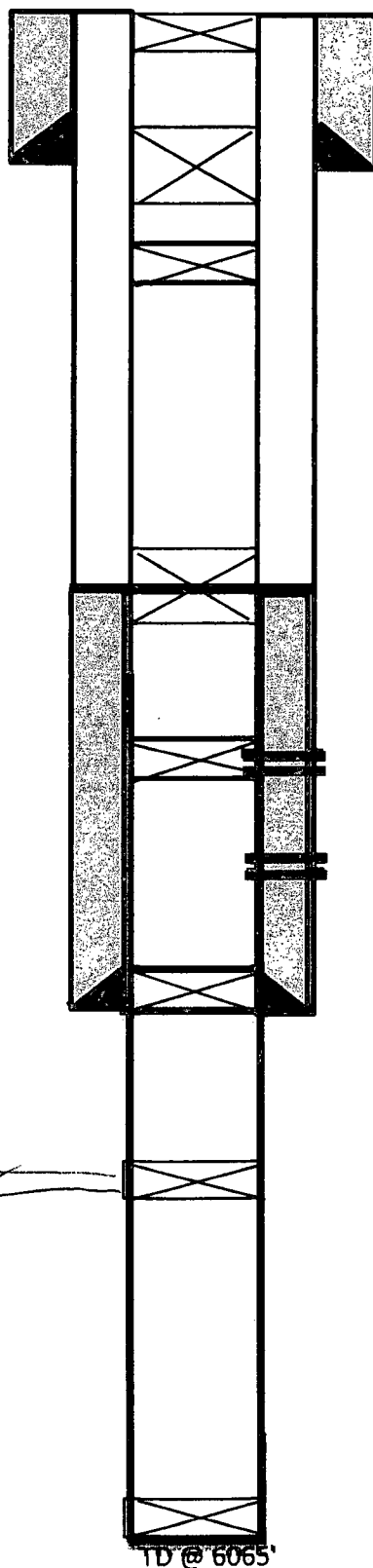
Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge. <i>[Signature]</i>	
Approved by <i>Leslie A. Clements</i>	Name <b>Agent</b>		
Title <b>Oil &amp; Gas Inspector</b>	Position		
Date <b>OCT 10 1960</b>	Company <b>DUAL DRILLING COMPANY</b>		

**OPERATOR:** Dual Drilling Company

**NAME OF LEASE:** Richard and Bass St. Well: No.1

**LOCATION:** Sec. 5, T-22-S, R-33-E, Lea County, New Mexico



10sx in surface w/regulation marker

8 5/8 @ 324' W/ 350 sx-Circ.

Plug- 25sx from 324-350' across surface csg

25sx from 1537-1650'

Cut csg @ 3150'

25sx across stub

5 sx from 3670-80'

Perfs 3669-78' (18 holes)  
(8/10/60)

Perfs 3784-94' (20 holes)  
NSOG (8/17/60)

4 1/2" csg 9.5# at PBTC @ 4150' w/100  
sx cmt, cmt. past base of salt (ETOC-3150')  
Plug-50 sx from 4350-4150 Total PBTD 4150'

25sx 4990-4577'

25sx 6065-5988'

Submit to Appropriate District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

District I  
1625 N. French, Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 87210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

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

Form C-105  
Revised March 25, 1999

WELL APT NO.

30-025-37630

5. Indicate Type Of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well

OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER \_\_\_\_\_

b. Type of Completion:

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER \_\_\_\_\_

7. Lease Name or Unit Agreement Name

Dagger 5 State Com

2. Name of Operator

EOG Resources Inc.

8. Well No.

1

3. Address of Operator

P.O. Box 2267 Midland, Texas 79702

9. Pool name or Wildcat

Bootleg Ridge; Morrow (Gas)

4. Well Location

Unit Letter **K** : **1980** Feet From The **South** Line and **1650** Feet From The **West** Line

Section **5**

Township **22S**

Range **33E**

NMPM

Lea

County

10. Date Spudded

2/7/06

11. Date T.D. Reached

3/24/06

12. Date Compl. (Ready to Prod.)

9/11/06

13. Elevations (DF & RKB, RT, GR, etc.)

3649 GR

14. Elev. Casinghead

15. Total Depth

14874

16. Plug Back T.D.

14822

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

X

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

14686 - 14724 Morrow

20. Was Directional Survey Made

No

21. Type Electric and Other Logs Run

22. Was Well Cored

No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.50	1390	17 1/2	740 POZ; 285 C	
9 5/8	40	5440	12 1/4	1700 POZ; 200 C	
7	26	12180	8 3/4	853 Litecrete	
				325 Lightweight	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE Per SV	DEPTH SET	PACKER SET
4 1/2	11882	14850	450		2-378 3 1/2	11867	
					3-172 2 3/8	14624	14624

25. TUBING RECORD

26. Perforation record (interval, size, and number)

14686 - 14724

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
14684 - 14724	Frac w/ 1516 bbls slick water;
	44600 lbs 20/40 Interprop;
	155 Tons CO2

28. PRODUCTION

Date First Production 9/11/06		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing					Well Status (Prod. or Shut-in) Producing	
Date of Test 9/13/06	Hours Tested 24	Choke Size Open	Prod'n For Test Period	Oil - Bbl. 0	Gas - MCF 418	Water - Bbl. 0	Gas - Oil Ratio	
Flow Tubing Press. 510	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)		

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

Test Witnessed By

30. List Attachments

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

*Stan Wagner*

Printed Name

Stan Wagner

Title Regulatory Analyst

Date 9/14/06



Amtex Energy, Inc.

Dagger Lake State 5, Well #1  
Section 5, T22S, R33E, Lea County, NM

Surface Owner:

Merchant Livestock, Inc. P.O. Box 1166, Carlsbad, NM 88220

Offset Operators:

Nearburg Exploration Company, LLC, 3300 North A St., Bldg 2, Suite 120, Midland, TX 79705  
Chesapeake Exploration, LP, Box 18496, Oklahoma City, OK 73154  
Devon Energy Production Co., LP, 20 N. Broadway, Oklahoma City, OK 73102  
Oxy USA, Inc., Box 4294, Houston, TX 77210  
J Bar Cane, Box 16, Stanley, NM 87056

Copies of the Form C-108, Well Data Sheets and map have been sent to the above stated parties on this the 20<sup>th</sup> of June, 2008, *by certified mail, our*



---

Ann E. Ritchie, Regulatory Agent  
Amtex Energy, Inc.

Amtex Energy, Inc.  
Dagger Lake State 5, Well #1  
Section 5, T22S, R33E, Lea County, NM

Oil Conservation Division  
Form C-108

Geological Statement

Dagger Lake State 5 #1  
330 FSL & 1980 FEL  
Section 5, T-22-S, R-33-E  
Lea County, New Mexico

C-108 Application for Water Disposal Well

XII. I, William J. Savage, as Engineer and Owner of Amtex Energy, Inc., affirm that I have examined available geological and engineering data and find no evidence of open faults or any hydrologic connection between the disposal zone and any underground sources of drinking water.

Name: William J. Savage

Signature: William J. Savage

Date: June 10, 2008

Amtex Energy, Inc.  
Dagger Lake State 5, Well #1  
Section 5, T22S, R33E, Lea County, NM

Oil Conservation Division  
Form C-108

Water Analysis



By Waylan C. Martin  
Waylan C. Martin, M.A.

P. O. BOX 1468  
MONAHAN, TEXAS 79756  
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA  
MIDLAND, TEXAS 79701  
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Joe Small  
P. O. Box 51810, Midland, TX 79710

LABORATORY NO. 109237  
SAMPLE RECEIVED 10-7-92  
RESULTS REPORTED 10-9-92

COMPANY Meridian Oil Company LEASE Dagger Lake  
FIELD OR POOL Wildcat  
SECTION 5 BLOCK T22S SURVEY R33E COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Recovered water - taken from Dagger Lake #1. 10-2-92

NO. 2 \_\_\_\_\_

NO. 3 \_\_\_\_\_

NO. 4 \_\_\_\_\_

REMARKS: Delaware

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1500			
pH When Sampled				
pH When Received	5.08			
Bicarbonate as HCO <sub>3</sub>	49			
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	57,500			
Calcium as Ca	17,400			
Magnesium as Mg	3,402			
Sodium and/or Potassium	66,920			
Sulfate as SO <sub>4</sub>	636			
Chloride as Cl	143,458			
Iron as Fe	120			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	231,865			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	0.052			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Total Dissolved Solids @ 180°C.	205,580			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks As compared to water recovered from this well on 9-9-92 and reported on laboratory #99293, we see a slight variation in salt levels (particularly magnesium). However, the water has basically the same characteristics as previously seen, indicating this to be predominantly Delaware water.

# ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

9 miles SSW  
UPPER Delaware

Author: G. E. Harrington  
Affiliation: John Trigg Company  
Date: October 15, 1966

Field Name: Triste Draw  
Location: Secs. 26, 34, 35, T-23-S, R-32-E  
County & State: Sec. 2, T-24-S, R-32-E  
Lea County, New Mexico

Discovery Well P—M Drilling Company and Texaco, Inc. #1 Federal James, NE/4 NE/4  
Section 35, T-24-S, R-32-E  
Completed 2/14/61

Exploration Method Leading to Discovery: Subsurface

Pay Zone: 5062-5066

Formation Name: Delaware Ramsey sd Depth & Datum Discovery Well: 5062 (-1359)

Lithology Description: Sandstone, gray, very fine grained, clean, friable, calcareous, with dark gray to black shale stringers and random fractures

Approximate average pay: \_\_\_\_\_ gross 7.5 net Productive Area 480 acres

Type Trap: Stratigraphic - sand build-up with surrounding permeability barrier, possible hydrodynamic entrapment.

## Reservoir Data:

25 % Porosity, 80 Md Permeability, 48 % Sw, 12 % So

Oil: API Gravity 40° @ 60° F

Gas: Specific gravity - 0.85

Water: 75,562 Na+K, 21,200 Ca, 2912 Mg, 159,000 Cl, 625 SO<sub>4</sub>, 18 HCO<sub>3</sub>, 34 Fe

Specific Gravity 1.160 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ °F

Initial Field Pressure: NA psi @ \_\_\_\_\_ datum Reservoir Temp. 106° °F

Type of Drive: solution gas

Original Chlorides  
159,000

Normal Completion Practices: Wells are drilled and pay is cored with rotary tools. The production string of casing is set through the pay and cemented. The casing is selectively perforated, and wells are swabbed in for flowing potentials.

Type completion: Natural - flowing wells Normal Well Spacing 40 Acres  
are subsequently converted to pump after first few months of production.

Deepest Horizon Penetrated & Depth: Devonian 17,280 (-13,589)

Other Producing Formations in Field: Delaware "Olds" sand

Production Data: \* Complete through June 1966

YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE
1961	OIL	4		34,006	34,006	1965	OIL	12		40,642	288,416
	GAS			33,688	33,688		GAS			57,288	200,159
1962	OIL	9		93,582	127,588	1966	OIL	12		18,109	306,525
	GAS			47,159	80,847		GAS			24,573	224,732
1963	OIL	9		72,993	200,581		OIL				
	GAS			29,362	110,209		GAS				
1964	OIL	9		47,193	247,774		OIL				
	GAS			32,722	142,931		GAS				



**RED TANK, WEST**Lee Catalano  
Meridian Oil2-3 miles SW  
LOWER Delaware**FIELD LOCATION:** Secs 14, 22, 23, 26, 27, 28, 34, 35, T-22-S, R-32-E, Lea County, New Mexico**EXPLORATION METHODS LEADING TO DRILLING OF DISCOVERY WELL:** Subsurface Geology**PRESENT STATUS OF FIELD:** Primary Production**DISCOVERY WELL:** POGO, Federal "27" #1, SESW Sec 27, T-22-S, R-32-ECompletion Date 8/23/92 Total Depth 8850' Producing Interval 8330-8391'Initial Production 50 BOPD + 64 MCFGPD + 200 BWPDProducing Formation Delaware (Brushy Canyon)**OLDEST FORMATION PENETRATED:** Morrow**FLUID DATA:**Oil: Type Sweet Gravity 42.3° @ °F G.O.R. 1060Gas: Analysis (percent) Methane            Gravity .830 BTU 1.39 /cu.ft.Original Water: ppm Na + K 55,634 Cl 140,870 Other           Resistivity .050 Ohms @ 75 °F R<sub>w</sub> .030 @ BHT← ORIGINAL  
CHLORIDES  
140,870**RESERVOIR DATA:**

Nature of trap: Porous submarine lobe SS draped over pre-Permian structure.

Average Pay            Gross ft 35-40 Net ft           

Lithology: Mass to laminated, very fine grained, well-sorted, arkosic, SS

Porosity 2.5 % to 19 % Permeability .01 md to 23 mdAverage Porosity 14.5 % Average Permeability 6.5 md Reservoir Sw 55-65 %Reservoir Drive            Solution Gas            Initial BHP 3617 @ 8385'Btm Hole Temp 120-130 ° FOriginal O/W Contact            Original G/W Contact            Hydrocarbon Column, Ft.           **COMPLETION DATA:**Well Spacing 40 acres Proven area 1680 acres

Other producing reservoirs in field: Atoka, 1st Bone Spring SS, Delaware (Ramsey)

Normal Completion Program: Perf pay w/4 SPF 120 ° spinal phasing. Acidize w/45 gal per ft 7-1/2% NEFF

HCl + RCNBS. Frac w/27,000 gal 35# Borate gel plus 100,000# 20/40

Northern white sand @ 25 BPM.

**PRODUCTION DATA:**

Best Well in Field: MERIDIAN OIL, Red Tank Federal #6, 29,128 BO + 28,614 MCFG in 5 months

	#WELLS @ YR-END			
YEAR	PROD	SI/ABN	BBLS	MMCF
1991				
1992	1		8,210	8,328
1993	7		85,874	91,351
EST 1994	36		631,921	724,027
TOTAL	36		726,005	873,296

C 108 - VIII

SUMMARY

INTRODUCTION

DETERMINATION

TREATMENT

TABLE

TABLE

TABLE

TABLE

TABLE

TABLE

TABLE

TABLE

FIGURES

FIGURE

**FORMATION SENSITIVITY ANALYSIS:  
BELL CANYON DELAWARE  
(RAMSEY) SANDSTONE  
MERIDIAN OIL INC.  
DAGGER LAKE STATE NO. 1 WELL  
LEA COUNTY, NEW MEXICO**

**Report Prepared For:**

**Mr. Joseph M. Small  
Meridian Oil Inc.  
3300 North A Street  
Midland, Texas  
79705**

**September 9, 1992**



***David K. Davies & Associates, Inc.***

**1410 Stonehollow Drive  
Kingwood, Texas 77339**

**(713) 358-2662**

## SUMMARY

The Ramsey sandstone reservoir zone in the Dagger Lake State No. 1 Well consists of very fine grained (0.08-0.10 mm), well sorted, moderately quartzose sandstones. The rocks contain 10 to 11 percent total cement by volume. The most abundant cementing agents in the sandstones are dolomite (non-ferroan, 4-6% by volume) and pore-lining authigenic clay (3-4% by volume). X-ray diffraction analysis reveals that the clay component of the rocks consists exclusively of the mixed layer clay corrensite (chlorite-smectite, 15% expandable smectite layers).

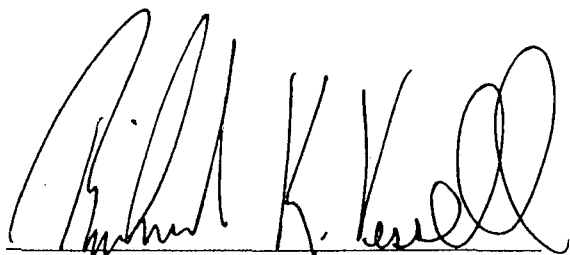
The sandstones have porosities in the range of 20 to 23 percent, virtually all of that is intergranular macroporosity. Microporosity is well developed within pore-lining corrensite clay coats. Despite dolomite and clay cementation, the rocks retain sufficient porosity (19-23% core porosity) and permeability (46.9-151 md) to contribute to fluid production at high rates.

The pore systems of the sandstones are capable of supporting high irreducible water saturations by capillary effects, a factor that could result in some induction log suppression and calculation of anomalously high  $S_w$  values over the Ramsey sand body.

Ramsey sandstones have minimal susceptibility to damage from clay swelling and clay particle migration effects promoted by rock contact with fresh water based or high pH fluids or from high fluid turbulence. Thus, it will be possible to successfully drill through this zone with either fresh water or brine based mud systems. Cements may be made up in fresh water. It will be possible to select completion and working fluids on the basis of fluid density rather than the ability of

the fluid to inhibit clay swelling or clay migration effects. Filtered (2  $\mu$ m filtration recommended) brines such as potassium, calcium, and sodium chloride water are all compatible with the formation and could be used for these purposes.

Due to the lack of migratable clay fines, it will be possible to perforate underbalanced with a differential pressure in the range of 500-1000 psi without damaging the formation. Any residual cement, mud, or perforating damage may be removed by acidizing. As the reservoir rocks contain extensive pore-lining corrensite clay coats (rich in iron-bearing chlorite) care should be taken in acidizing to minimize problems associated with re-precipitation of secondary iron hydroxide compounds from spent acid. If acidization is performed for this purpose, we recommend use of 7.5 to 10% HCl acid containing nonionic surfactant, iron chelating, and mutual solvent additives. It will be desirable to recover the acid from the formation prior to complete spending if possible.



Richard K. Vessell, Ph.D.  
Vice President-Operations



David K. Davies, D.Sc., Ph.D.  
President  
Certified Professional  
Geologist No. 4188

Amter Energy, Inc.

Closest Fresh water well

C-108  
Digger Lake  
State 5 #1

**NM WAIDS**

DATA

MAPS

HOME

SCALE

CORROSION

General Information About: Sample 2532			
Section/ Township/Range	28 / 21 S / 33 E	Lat/Long	32.4506 / -103.5778
Elevation	3688	Depth	224
Date Collected	11/2/1995	Chlorides	176
Collector / Point of Collection	SEO / DP	Use	Stock
Formation	CHINLE	TDS	0



3 miles NNE

Amtex Energy, Inc.  
Dagger Lake State 5, Well #1  
Section 5, T22S, R33E, Lea County, NM

Oil Conservation Division  
Form C-108

Data for operators/leaseholds within 2 mile radius

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Thursday, July 17, 2008 5:31 PM  
**To:** 'Ann Ritchie'  
**Cc:** Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD; Warnell, Terry G, EMNRD; Kautz, Paul, EMNRD  
**Subject:** Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

Hello Ann:

Your application seems complete - sans the certified receipts from the notices (Please Send) - also the newspaper notice uses the wrong PO Box for Amtex (This is OK).

The issue here is this well is very near the Reef and the operator is proposing to use it as a Commercial Disposal well. The offsetting well to the east has the Reef marked on the log - yet all the lithology logs show this interval to be anhydrite - it looks very similar in the proposed well - although it is uphole.

Please ask the operator how it intends to ensure injection waters stay in the Ramsey sand and do not migrate into the Reef uphole and to the east?

Any permit issued here would likely be limited in injection pressure (no future increases allowed) require annual reporting to the engineering bureau in Santa Fe - an analyzed Falloff Test, Injection Rate and Pressure vs Time plot, and a Hall Plot. Please ask them if they are prepared to do this annual reporting?

Regards,

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

7/17/2008

Amtex Energy, Inc.  
Dagger Lake State 5, Well #1  
Sec. 5, T22S, R33E, Lea County, TX

30-025-31653

Received 7/24/08

7007 2560 0003 3757 3294

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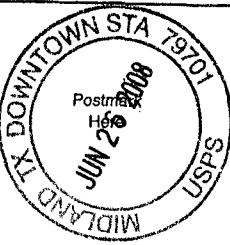
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Street, Apt. No.,  
or PO Box No. 20 N. Broadway  
City, State, ZIP+4 OKLAHOMA City, OK 73102

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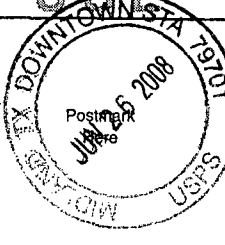
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Certified Fee	2.70
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.12

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Ory USA, Inc.  
Street, Apt. No.,  
or PO Box No. P.O. Box 4294  
City, State, ZIP+4 Houston, TX 77210

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.12

Sent To  
J BAR CANE  
Street, Apt. No.,  
or PO Box No. P.O. Box 16  
City, State, ZIP+4 Stanley, NM 87056

PS Form 3800, August 2006 See Reverse for Instructions



7007 2560 0003 3757 3263

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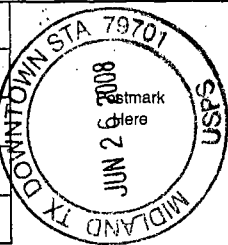
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Certified Fee	2.70
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.12

Sent To  
Merchant Livestock, Inc.  
Street, Apt. No.,  
or PO Box No. P.O. Box 1166  
City, State, ZIP+4 Carlsbad, NM 88220

PS Form 3800, August 2006 See Reverse for Instructions



7007 2560 0003 3757 3270

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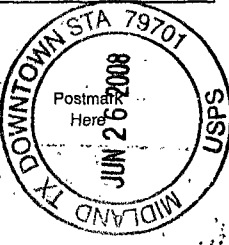
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Certified Fee	2.70
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.12

Sent To  
Nearburg Exploration Co., LLC  
Street, Apt. No.,  
or PO Box No. 3300 N. "A" St. Bldg. 2, Ste. 120  
City, State, ZIP+4 Midland, TX 79705

PS Form 3800, August 2006 See Reverse for Instructions



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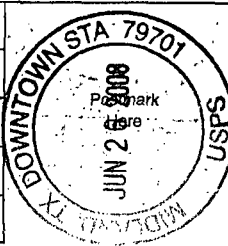
For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

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Certified Fee	2.70
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.12

Sent To  
Chesapeake Exploration, LP  
Street, Apt. No.,  
or PO Box No. P.O. Box 18496  
City, State, ZIP+4 Oklahoma City, OK 73154

PS Form 3800, August 2006 See Reverse for Instructions





**Jones, William V., EMNRD**

---

**From:** Ann Ritchie [ann.ritchie@wtor.net]  
**Sent:** Tuesday, July 29, 2008 3:11 PM  
**To:** Jones, William V., EMNRD  
**Subject:** Re: Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

Will,  
I sent your message on to Bill Savage with Amtex and thought he had gotten in touch with you.  
I will let him know this will need to go to hearing, if he wants to continue.

Thanks,

Ann  
WEST TEXAS OIL REPORTS  
P.O. Box 953  
Midland, TX 79702  
[ann.ritchie@wtor.net](mailto:ann.ritchie@wtor.net)  
432 684-6381; 682-1458-fax

----- Original Message -----

**From:** Jones, William V., EMNRD  
**To:** Ann Ritchie  
**Cc:** Ezeanyim, Richard, EMNRD  
**Sent:** Tuesday, July 29, 2008 2:49 PM  
**Subject:** RE: Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

Hello Ann:  
Have not heard anything from you on the data request below:

Please advise this applicant for commercial injection that this application is being denied.  
AMTEX Energy Inc. is welcome to present a case at hearing for injection into this well at these depths near the Capitan Reef.

Regards,

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

---

**From:** Jones, William V., EMNRD  
**Sent:** Thursday, July 17, 2008 5:31 PM  
**To:** 'Ann Ritchie'  
**Cc:** Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD; Warnell, Terry G, EMNRD; Kautz, Paul, EMNRD  
**Subject:** Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

Hello Ann:  
Your application seems complete - sans the certified receipts from the notices (Please Send) - also the newspaper notice uses the wrong PO Box for Amtex (This is OK).

The issue here is this well is very near the Reef and the operator is proposing to use it as a Commercial Disposal well. The offsetting well to the east has the Reef marked on the log - yet all the lithology logs show this interval to be anhydrite - it looks very similar in the proposed

7/29/2008

well - although it is uphole.

Please ask the operator how it intends to ensure injection waters stay in the Ramsey sand and do not migrate into the Reef uphole and to the east?

Any permit issued here would likely be limited in injection pressure (no future increases allowed) require annual reporting to the engineering bureau in Santa Fe - an analyzed Falloff Test, Injection Rate and Pressure vs Time plot, and a Hall Plot. Please ask them if they are prepared to do this annual reporting?

Regards,

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

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7/29/2008

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Monday, September 15, 2008 4:14 PM  
**To:** 'Ann Ritchie'  
**Subject:** RE: Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

Hey Ann:  
Getting ready to release this permit - but would you please send a copy of the proof of notice to the State land office?

Thanks,

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

---

**From:** Ann Ritchie [mailto:[ann.ritchie@wtor.net](mailto:ann.ritchie@wtor.net)]  
**Sent:** Wednesday, August 20, 2008 7:28 AM  
**To:** Jones, William V., EMNRD  
**Cc:** Bill Savage  
**Subject:** Re: Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

Will,  
I will submit by certified mail to SLO today.  
We really appreciate your help on this well.  
Thank you,

Ann  
WEST TEXAS OIL REPORTS  
P.O. Box 953  
Midland, TX 79702  
[ann.ritchie@wtor.net](mailto:ann.ritchie@wtor.net)  
432 684-6381;682-1458-fax

----- Original Message -----

**From:** Jones, William V., EMNRD  
**To:** Ann Ritchie  
**Cc:** Ezeanyim, Richard, EMNRD ; Warnell, Terry G, EMNRD  
**Sent:** Tuesday, August 19, 2008 6:05 PM  
**Subject:** FW: Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

Hello Ann:  
I received wonderful supporting data from Amtex pertaining to my questions about the Reef and today have this application ready to release. However our database says the surface and minerals under this location is owned by the State of New Mexico instead of by "Merchant Livestock" as the application says - and the returned receipts you sent did not include the State Land Office.

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9/15/2008

7007 2560 0003 3757 3355

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

For delivery information visit our website at [www.usps.com](http://www.usps.com)

SANTA FE NM 87504-1148

Postage	\$ 4.0242	0702
Certified Fee	2.7070	06 Postmark Here
Return Receipt Fee (Endorsement Required)	\$2.20	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 3.1332	08/25/2008

Sent To New Mexico State Land Office  
Street, Apt. No., or PO Box No. P.O. Box 1148  
City, State, Zip+4 Santa Fe, NM 87504-1148

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

### Southeastern New Mexico

T. Anhy 1130'  
T. Salt 1265'  
B. Salt 3525'  
T. Yates  
T. 7 Rivers  
T. Queen  
T. Grayburg  
T. San Andres  
T. Glorieta  
T. Paddock  
T. Blinbry  
T. Tubb  
T. Drinkard  
T. Abo  
T. Wolfcamp  
T. Penn  
T. Cisco (Bough C)

T. Canyon  
T. Strawn  
T. Atoka  
T. Miss  
T. Devonian  
T. Silurian  
T. Montoya  
T. Simpson  
T. McKee  
T. Ellenburger  
T. Gr. Wash  
T. Delaware Sand 4910'  
T. Bone Springs 8745'  
T.  
T.  
T.  
T.

### Northwestern New Mexico

T. Ojo Alamo  
T. Kirtland-Fruitland  
T. Pictured Cliffs  
T. Cliff House  
T. Menefee  
T. Point Lookout  
T. Mancos  
T. Gallup  
Base Greenhorn  
T. Dakota  
T. Morrison  
T. Todilto  
T. Entrada  
T. Wingate  
T. Chinle  
T. Permian  
T. Penn "A"

T. Penn. "B"  
T. Penn. "C"  
T. Penn. "D"  
T. Leadville  
T. Madison  
T. Elbert  
T. McCracken  
T. Ignacio Otzte  
T. Granite  
T.  
T.  
T.  
T.  
T.  
T.  
T.

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....  
No. 2, from.....to.....  
No. 3, from.....to.....  
No. 4, from.....to.....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

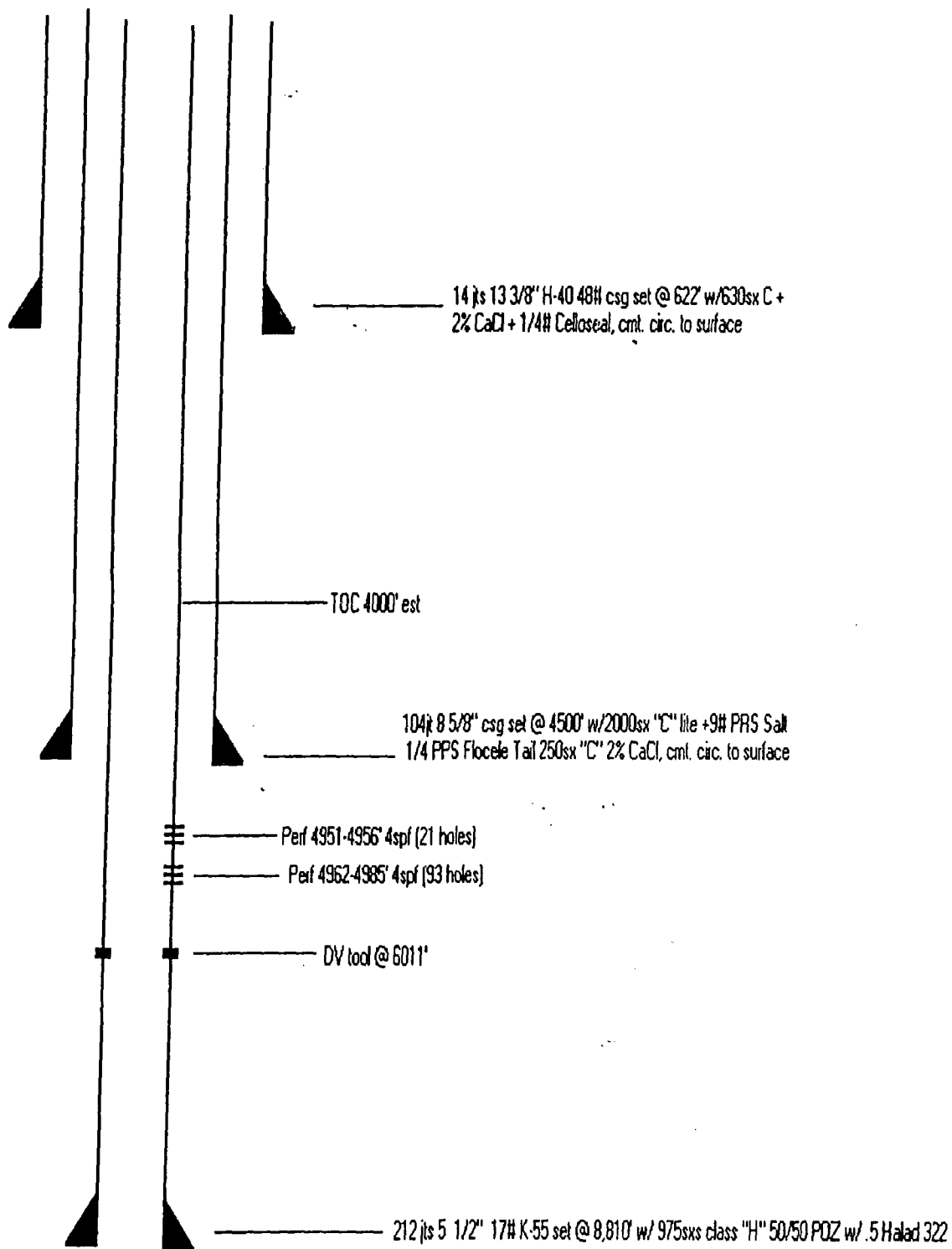
No. 1, from.....to.....feet.....  
No. 2, from.....to.....feet.....  
No. 3, from.....to.....feet.....

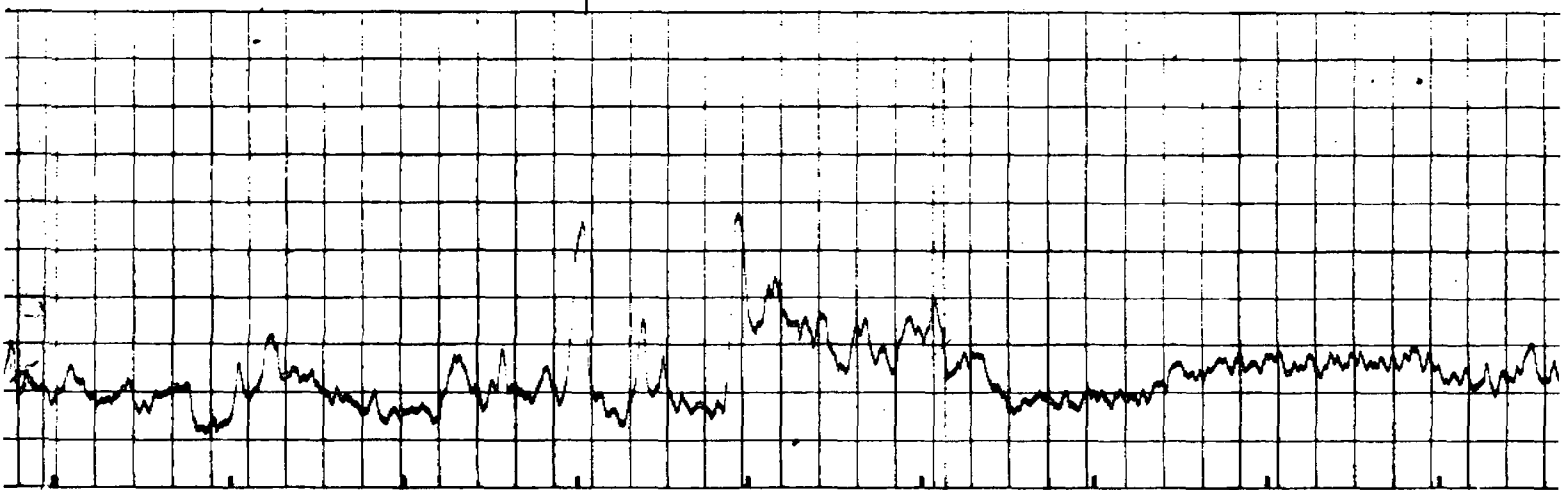
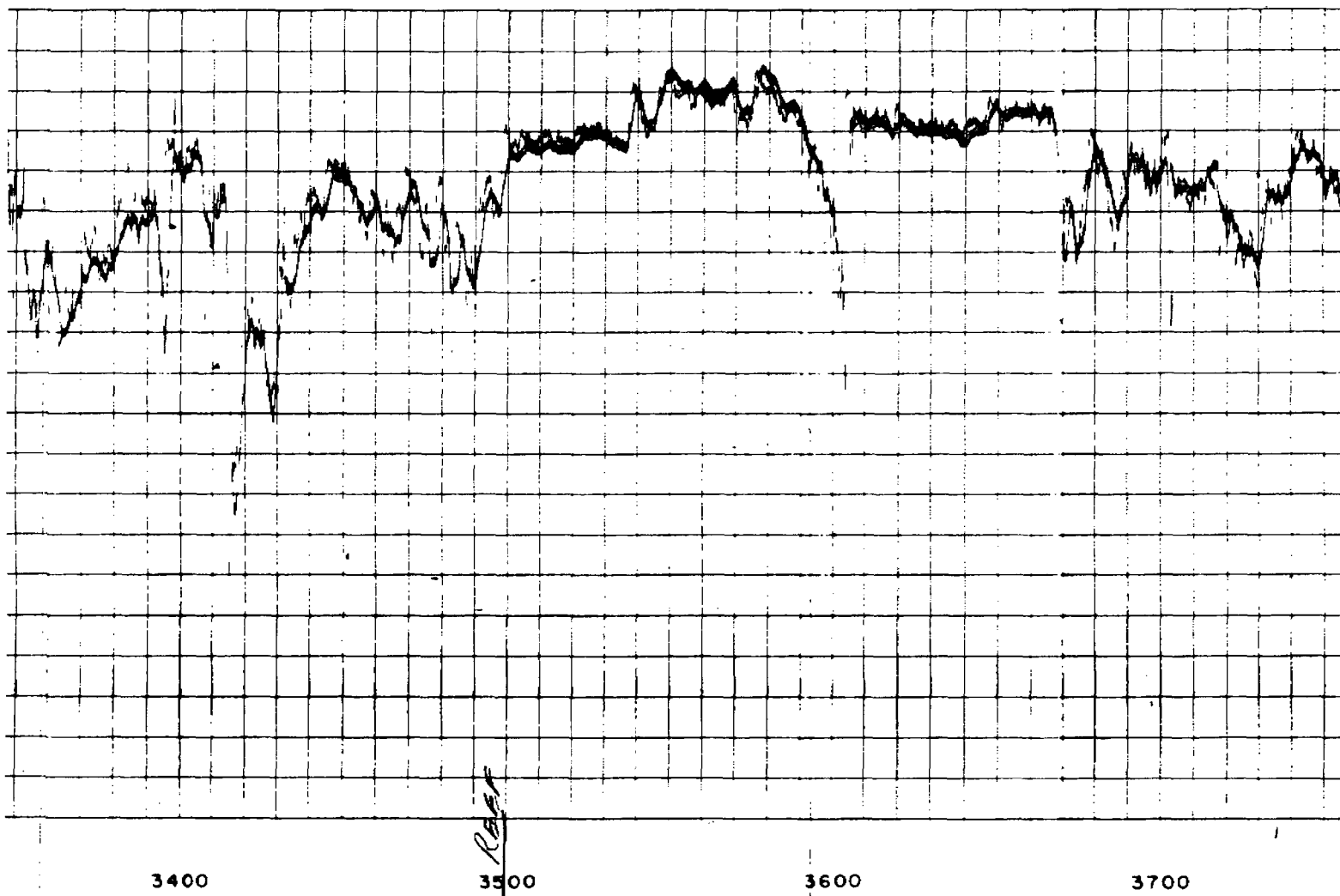
## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0	1130	1130	RED BEDS				
1130	1265	135	ANHY.				
1265	3525	2260	SALT & ANHY.				
3525	4635	1110	ANHY.				
4635	4910	275	LIMESTONE & DOLOMITE				
4910	8745	3835	SANDSTONE				
8745	TD 8810	65	LIMESTONE & SHALE				

RECEIVED  
OCT 26 1992  
OCD HOBBS

<b>OPERATOR:</b> AMTEX ENERGY	<b>NAME OF LEASE:</b> Dagger Lake "5" State	<b>WELL:</b> No. 1
<b>LOCATION:</b> 330' FSL & 1980' FEL Sec. 6, T 22-S, R 33-E Lea County, New Mexico		





# Injection Permit Checklist (7/8/08)

Case \_\_\_\_\_ R- SWD 1139 WFX \_\_\_\_\_ PMX \_\_\_\_\_ IPI \_\_\_\_\_ Permit Date 8/19/08 MC Qtr July/Aug/Sep  
 # Wells \_\_\_\_\_ Well Name: DACER STATE #1  
 API Num: (30-) 025-31653 Spud Date: 7/30/92 New/Old: N (UIC primacy March 7, 1982)  
 Footages 330 FSL/1980 FEL Unit 0 Sec 5 Tsp 225 Rge 33E County Lea  
 Operator: AMTEX Energy Inc. Contact WILLIAM J. SAVAGE  
 OGRID: 785 RULE 40 Compliance (Wells) i/10 OK (Finan Assur) OK  
 Operator Address: P.O. BOX 3418, MIDLAND, TX, 79702

Current Status of Well: TAED 8/17 CIBRO 4910

Planned Work to Well: Conn in S one Zone Planned Tubing Size/Depth: 27/8 @ 4900

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing <input checked="" type="checkbox"/> Surface	<u>17 1/2 13 3/8</u>	<u>622</u>	<u>630</u>	<u>CIRC</u>
Existing <input checked="" type="checkbox"/> Intermediate	<u>12 1/4 8 5/8</u>	<u>4486</u>	<u>2250</u>	<u>CIRC</u>
Existing <input checked="" type="checkbox"/> Long String	<u>7 7/8 5 1/2</u>	<u>8810</u>	<u>1675</u>	<u>2580 CBL</u>

DV Tool 6011 Liner \_\_\_\_\_ Open Hole \_\_\_\_\_ Total Depth 8810 PBDT 6628

Well File Reviewed ☒

Diagrams: Before Conversion ☒ After Conversion ☒ Elogs in Imaging File: CN/FDC/PUL/MSFL/CBL

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)	<u>4910</u>	<u>Del Top</u>	
Injection..... Interval TOP:	<u>4951</u>	<u>Roney Del SMD NO</u>	<u>990</u> PSI Max. WHIP
Injection..... Interval BOTTOM:	<u>4985</u>	<u>" " " NO</u>	<u>NO</u> Open Hole (Y/N)
Below (Name and Top)	<u>6060</u> <u>8745</u>	<u>Cherry C.</u> <u>ES</u>	<u>NO</u> Deviated Hole?

Sensitive Areas: Capitan Reef EDGE of Reef Salt Depths 1265-3525

.... Potash Area (R-111-P) \_\_\_\_\_ Potash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

Fresh Water: Depths: 150-1150 Wells(Y/N) NO Analysis Included (Y/N): yes Affirmative Statement ☒

Salt Water: Injection Water Types: Brushy C. / Morrow / COMMERCIAL Analysis? yes

Injection Interval.....Water Analysis: yes Hydrocarbon Potential \_\_\_\_\_

Notice: Newspaper(Y/N) ☒ Surface Owner: MSLO Mineral Owner(s) \_\_\_\_\_

RULE 701B(2) Affected Parties: Hearby / Ches / Devon / OXY / J Bar Cone

Area of Review: Adequate Map (Y/N) ☒ and Well List (Y/N) ☒

Active Wells 1 Num Repairs 0 Producing in Injection Interval in AOR NO  
 ..P&A Wells 3 Num Repairs 0 All Wellbore Diagrams Included? yes

Questions to be Answered:

What is FROM 3525 TO 4630? ANY?  
FROM 4630 TO 4910 (LS/OL)

Required Work on This Well: Periodic Falloff Tests Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

AOR Repairs Needed: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_



**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Tuesday, August 19, 2008 5:06 PM  
**To:** 'Ann Ritchie'  
**Cc:** Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD  
**Subject:** FW: Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

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Thank You and Regards,

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

---

**From:** Jones, William V., EMNRD  
**Sent:** Thursday, July 17, 2008 5:31 PM  
**To:** 'Ann Ritchie'  
**Cc:** Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD; Warnell, Terry G, EMNRD; Kautz, Paul, EMNRD  
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Any permit issued here would likely be limited in injection pressure (no future increases allowed) require annual reporting to the engineering bureau in Santa Fe - an analyzed Falloff Test, Injection Rate and Pressure vs Time plot, and a Hall Plot. Please ask them if they are prepared to do this annual reporting?

Regards,

8/19/2008

CMD :  
OG5SEC2

ONGARD  
VIEW LAND BY ULSTR

08/19/08 16:47:31  
OGOWVJ -TQVP  
PAGE NO: 3

Sec : 5 Twp : 22S Rng : 33E Cnty1 : Lea  
Cnty2 : Cnty3 :

U Lot/ Qtr	SRF SUB	ACTIVE	Bene	REMARKS
L Trct Qtr	ACREAGE	OWNER	LEASE #	(may show restrictions codes)
K NE4SW4	40.00	ST ST	V0 6152 0001	
L NW4SW4	40.00	ST ST	GT 2533 0000 CS	
			V0 6152 0001	
M SW4SW4	40.00	ST ST	GT 2533 0000 CS	
			V0 6152 0001	
N SE4SW4	40.00	ST ST	GT 2533 0000 CS	
			V0 6152 0001	
O SW4SE4	40.00	ST ST	GT 2533 0000 CS	
			V0 6152 0001	
P SE4SE4	40.00	ST ST	GT 2533 0000 CS	
			V0 6152 0001	

PF01 HELP	PF02 PREV	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

RECEIVED  
2008 AUG 19 PM 2 47



**AMTEX ENERGY, INC.**

P. O. BOX 3418  
MIDLAND, TEXAS 79702  
(432) 686-0847 Office  
(432) 686-0994 - Fax

August 13, 2008

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

RE: Amtex Energy, Inc.  
Application for Authorization to Inject  
Form C-108  
Dagger Lake 5 State #1  
330' FSL 1980' FEL  
Section 5(O), T-22-S, R-33-E  
Lea County, New Mexico

Dear Mr. Jones,

Pursuant to our phone conversation on Tuesday, August 5, 2008, Amtex Energy, Inc., is requesting that this application remain open for Administrative approval. Amtex Energy, Inc., would also like to remove the "commercial" request from this application. Amtex Energy, Inc., will be using the Dagger Lake 5 State #1 well to only dispose of water produced on Amtex Energy, Inc., operated leases.

The Ramsey sand gave up over 100,000 barrels of fluid (over 95% water) with only a small acid job. It is anticipated that the zone will take fluid without major additional stimulation. After initial tests, fluids and pressures will be tested every 2 years provided surface injection pressures exceed 1000 psi. Below 1000 psi surface injection pressures, injectivity tests will be run every 5 years. Please contact me if these periods do not comply with NMOCD regulations and I will adjust the testing accordingly.

Amtex Energy, Inc., is also including copies of all wells within the ½ mile radius of the Dagger Lake 5 State #1 well with the basal Capitan Reef, top of the Delaware Mountain Group, and Ramsey Sand (proposed injection zone) marked on all copies. Additionally, NW-SE and SW-NE cross-sections to scale and a composite E-logs/Mud Log with perforations marked for the Dagger Lake 5 State #1 are enclosed for your reference along with a brief Geological Summary.

Should you have any additional questions or require any additional data, please do not hesitate to give me a call at 432-770-0913. Additionally, Sally Meader-Roberts, Independent Geologist, has done the Geological work in this area for Amtex Energy, Inc., and can answer any Geological questions you may have. She can be reached at 432-559-3971.

Respectfully,

*William J. Savage* WJS

William J. Savage, President  
Amtex Energy, Inc.

**AMTEX ENERGY, INC.**  
**PROPOSED INJECTION WELL**  
**DAGGER LAKE 5 STATE #1**  
**330 FSL & 1980 FEL**  
**SECTION 5(O), T-22-S, R-33-E**  
**LEA COUNTY, NEW MEXICO**

***GEOLOGICAL REVIEW***

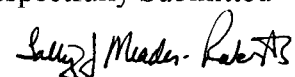
The Amtex Energy, Inc., (Meridian) Dagger Lake 5 State #1 well, located 330 FSL & 1980 FEL, Section 5, T-22-S, R-33-E, Lea County, New Mexico, was drilled on the fore reef edge of the Capitan Reef complex (see attached copy of the Capitan Reef Map by the USGS, red arrow). The main Capitan Reef complex lies to the North of the proposed injection well. As can be seen on the accompanying composite electric logs / mud log of the Dagger Lake 5 State #1 well, the lower 150 feet of the basal Capitan Reef beds are tight anhydrite. The accompanying SW-NE and NW-SE Stratigraphic Cross-Sections further show that the Ramsey sand (proposed injection zone) is between 150 and 280 feet below the base of the Capitan Reef. The Lamar limestone overlies the Ramsey sand. As can be seen on the composite log, the Lamar limestone is fairly tight. There is a porous and permeable dolomite wedge within the Lamar interval of the uppermost Delaware Mountain Group in the Dagger Lake 5 State #1. This dolomite appears to thicken to the Southeast, in the Dual Production Hudson Federal #1 well located 660' FN & WL, Section 9, T-22-S, R-33-E. However, the dolomite pinches out to the West, North, and Northeast (see SW-NE and NW-SE Cross-Sections) and is approximately 135 feet above the Ramsey sand (proposed injection zone). Approximately 105 feet of tight Lamar limestone are between the Ramsey sand and the dolomite wedge in the Dagger Lake 5 State #1. Additionally, approximately 350 feet of tight anhydrite lie between the porous dolomite wedge and the lower most porosity of the Capitan Reef (see both cross-sections). The dolomite is not present in any of the updip wells.

Based on subsurface mapping in the area, there are no faults within several miles of the Dagger Lake 5 State #1 well. There are several faults approximately 4-6 miles Northwest of the area but these are deep seated faults (Cisco/Canyon age) that do not effect the overlying Bone Spring and Delaware intervals. Other than faulting there is no geological way for the Ramsey sand to be in lateral juxtaposition with the Capitan Reef.

The Ramsey sand does pinch out approximately 3-4 miles North of the Dagger Lake 5 State #1 well. However, it pinches out against the upper Delaware Mountain Group carbonate slope deposits, not against the Capitan Reef.

Based on the fact that the Ramsey sand is some 280 feet below the base of the Capitan Reef, which is anhydrite in this area, and approximately 600 feet below the closest porosity in the Capitan Reef in the Dagger Lake 5 State #1 well, there does not appear to be a viable path for fluids injected into the Ramsey sand to vertically reach the porosity within the Capitan Reef.

Respectfully Submitted



Sally J. Meader-Roberts  
Geologist CPG 2690

**Jones, William V., EMNRD**

---

**From:** Ann Ritchie [ann.ritchie@wtor.net]  
**Sent:** Wednesday, August 20, 2008 7:28 AM  
**To:** Jones, William V., EMNRD  
**Cc:** Bill Savage  
**Subject:** Re: Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

Will,  
I will submit by certified mail to SLO today.  
We really appreciate your help on this well.  
Thank you,  
Ann  
WEST TEXAS OIL REPORTS  
P.O. Box 953  
Midland, TX 79702  
[ann.ritchie@wtor.net](mailto:ann.ritchie@wtor.net)  
432 684-6381;682-1458-fax

----- Original Message -----

**From:** Jones, William V., EMNRD  
**To:** Ann Ritchie  
**Cc:** Ezeanyim, Richard, EMNRD ; Warnell, Terry G, EMNRD  
**Sent:** Tuesday, August 19, 2008 6:05 PM  
**Subject:** FW: Injection application from AMTEX Energy Inc.: Dagger Lake 5 State #1 30-025-31653 Unit O, Sec 5, T22S, R33E, Lea County

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8/25/2008

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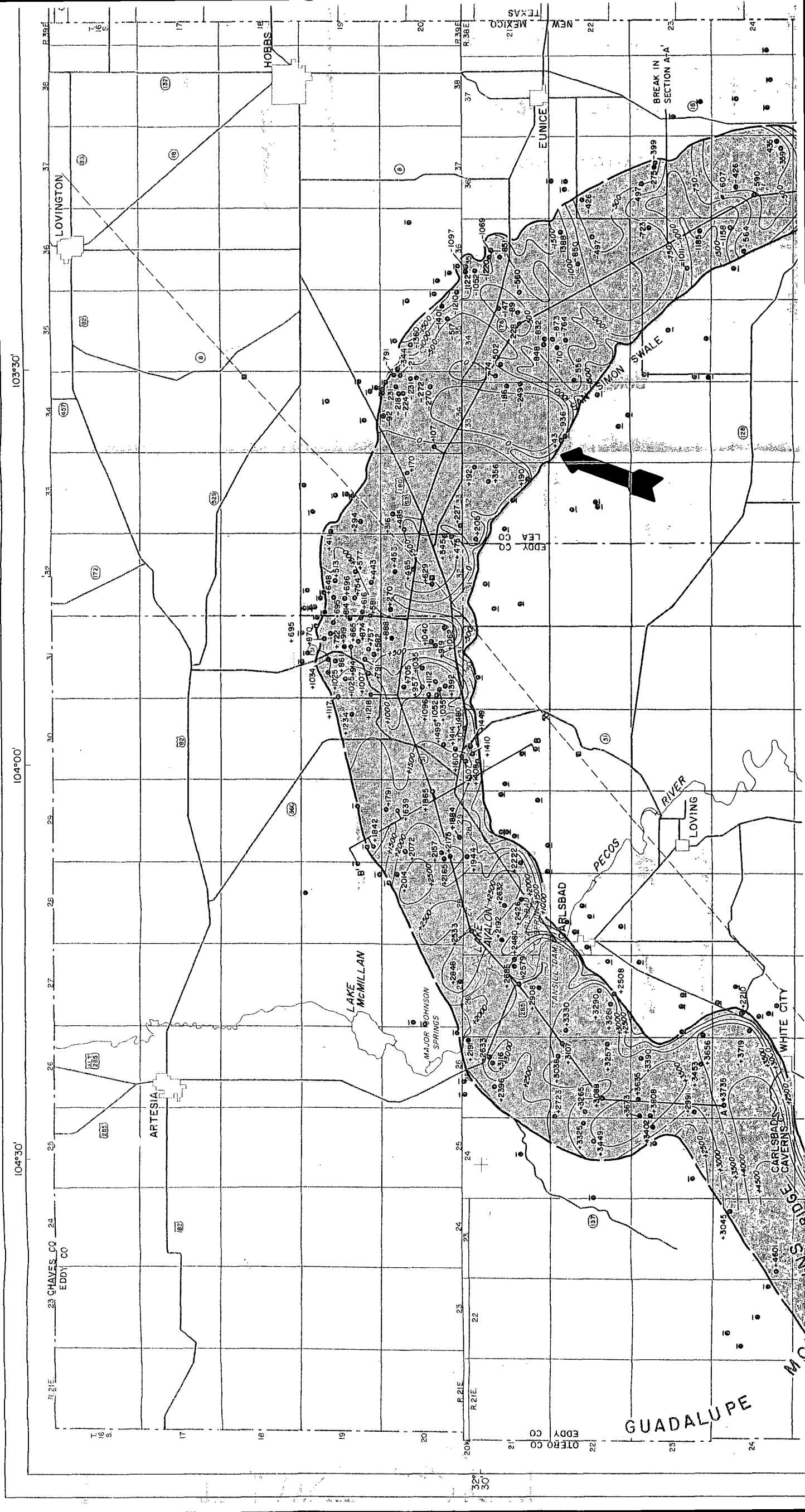
Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

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This inbound email has been scanned by the MessageLabs Email Security System.

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8/25/2008

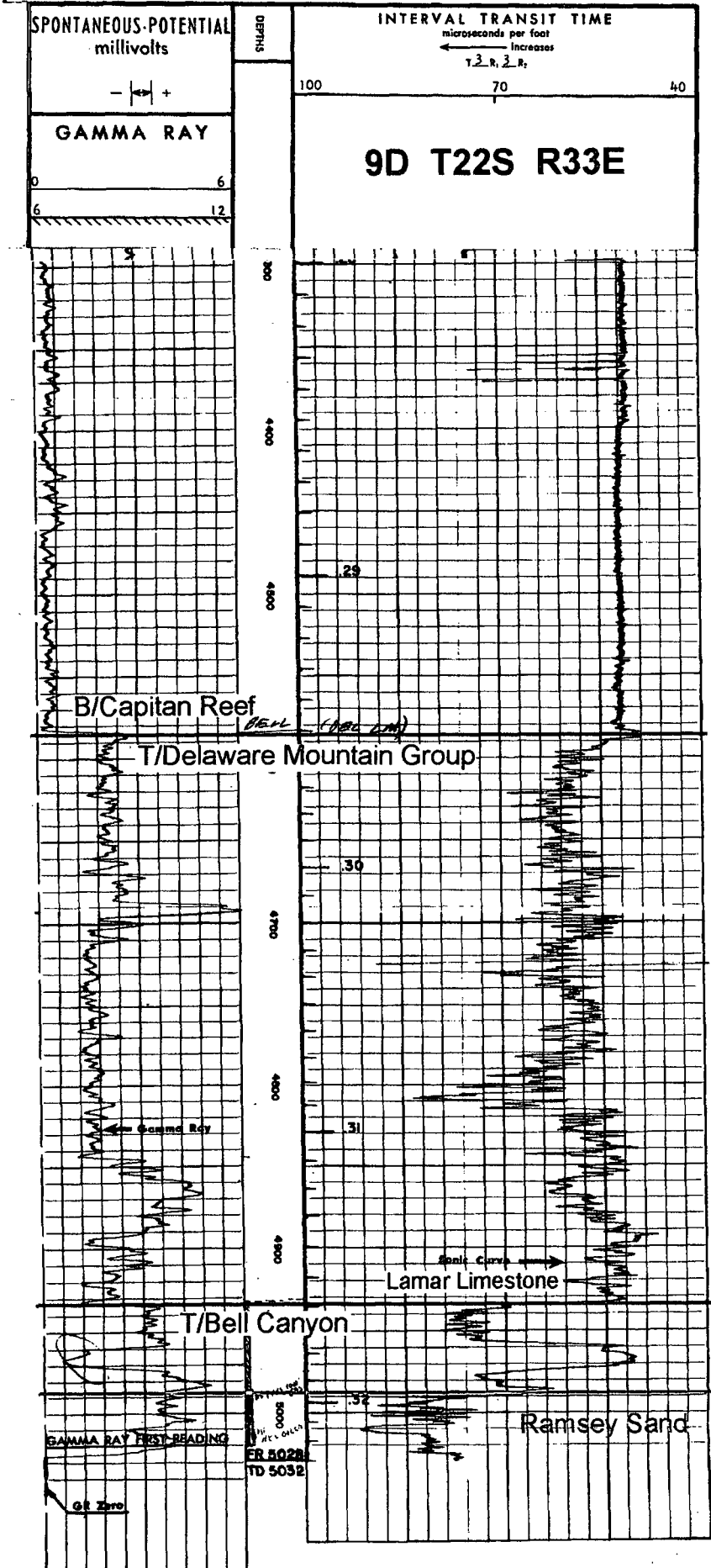




COMPANY DUAL PRODUCTION  
COMPANY  
WELL HUDSON FEDERAL #1  
FIELD WILDCAT  
LOCATION SEC. 9-22S-33E  
Other Surveys  
LL-3  
Location of Well  
660' FROM 26WT  
N-4W  
COUNTY LEA  
STATE NEW MEXICO  
Elevation: K.B. 3643  
D.F. 3642  
J.C. or G.L. 3632

Log Depths Measured from	KB	11	Ft. above G.L.
RUN No.	ONE		
Date	3-22-60		
First Reading	5028		
Last Reading	0		
Feet Measured	5028		
Csg. Schlum.	3 1/2		
Csg. Driller	5012		
Depth Reached	5028		
Bottom Driller	5028		
Mud Nat.	SAI		
Dens. Visc.	9.6	4.1	0°F
Mud Resist.	.055	.59	0°F
Kes. BHT	.038	.93	0°F
pH	16	0.3	0°F
Wtr. Loss	16	CC 20 min	0°F
Bit Size	6 1/2"	CC 30 min	0°F
Spent:	3'	CC 5' to 3400	to
Op. Rig Time	3 HOURS	3400 to TD	to
Tract No.	2526-10085		
Recorded By	DAVIS		
Witness	LAMB		

REMARKS VIC No.: 22  
VLS No.: 16  
VIP No.: 12  
GR B: 40 504 100 SENS: 500 T.C. 6 SENS: 300 T.C. 1  
SPEED: 3000 FT./HOUR  
CENTRALIZERS NOT USED 15 6 1/2" HOLE  
Velocity (feet per second) =  $\frac{1,000,000}{\text{Interval Transit Time (microseconds per foot)}}$





**PLATFORM EXPRESS**  
Three Detector Litho Density  
Compensated Neutron / HINGSS

County: Lea  
Field: Bootleg Ridge; Morrow (Gas)  
Location: 1950' FSL & 1650' FWL  
Well: Dagger "B" State Com #1  
Company: EDG Resources, Inc

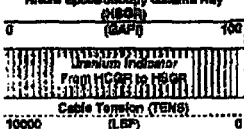
LOCATION			
11807 FSL & 11650 P.W.L. Section 6, Township 22S Range 33E	Elev.: K.B. 3967 ft G.L. 3949 ft D.F. 3938 ft	Perm. Datum: Long. Measured From: Drilling Measured From:	Ground Level High Baying Kelly Bushing
API Serial No. 50-025-57620	Section 5	Township 22S	Range 33E

Logging Date	Plan Number
1-Mar-2006	Cye
Depth @ Drift	12180 B
Schubert depth	12163 B
Bottom Log Interval	12161 B
100' Log Interval	200 I
Coring Depth Size @ Depth	9 5440 R
Gassing Schubert depth	5438 B
Bt Size	6179 R
Type Fluid In Hole	Search
Density	8.13 gm/cc
Viscosity	34 s
Fluid Loss	PH
Source Of Sample	Crustal Tank
Pd @ Measured Temperature	0.079 ohm-m @ 80 degF
Pwf @ Measured Temperature	0.067 ohm-m @ 60 degF
PWC @ Measured Temperature	@
Source PWF	PWC
Pd @ MGT	PWF @ MGT
Mudmin Recorded Temperature	155 degF
Crustal Slugged	Time
Larger On Bottom	Time
Unit Number	Location
Recorded By	
Witnessed By	
Estimator Profiles	
Mr. Richard Freeman, Doug Young	

INTEGRATED AIRWAYS VOLUNTARY TRUST FUND

**Time Mark Every 60 s**

### 1942: Rochester Gamma Ray



**5K T22S R33E**

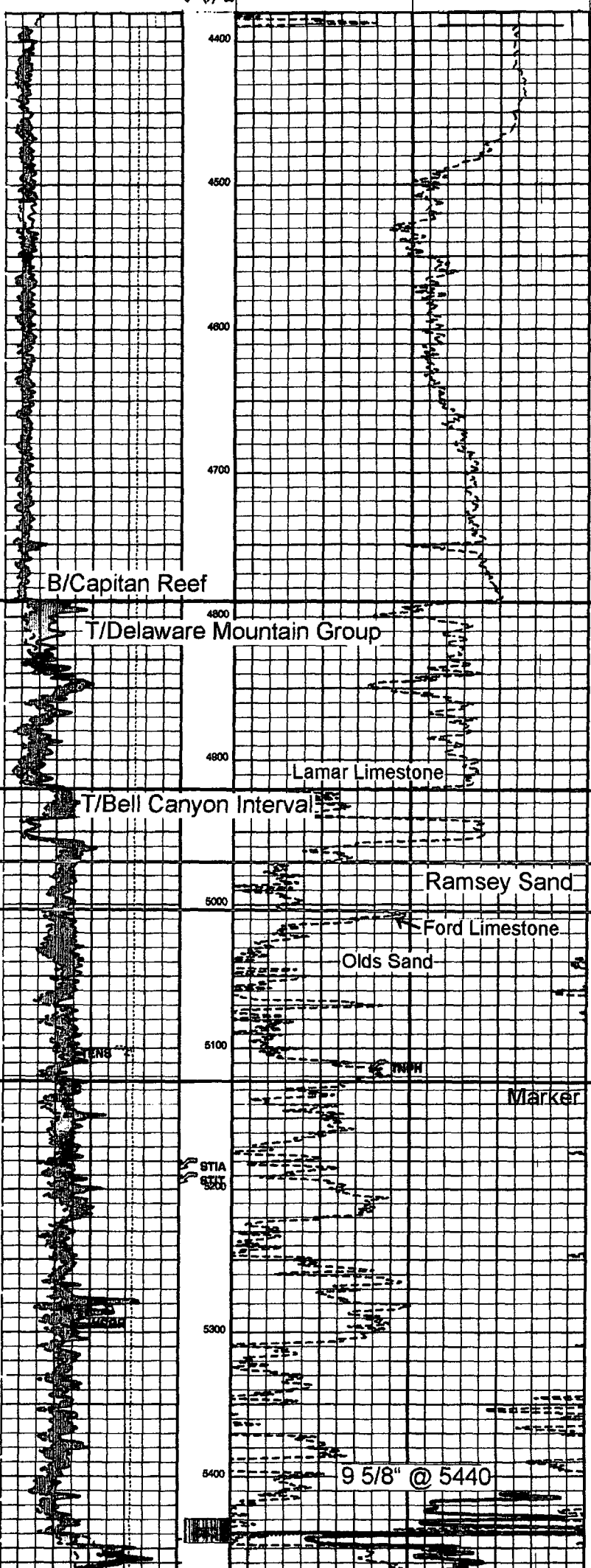
**Disorder Thermal Neutron Porosity (D-TNP) (CMND)**

**Chemical Formulation Density (MWT):**

Cable Stretch (Toolstring not moving) (BT)	2
6 (P) 50	

**VIDEO Follow (15:41)**

#### HBOD Daily Correction (MDRA)



KEEP CONFIDENTIAL

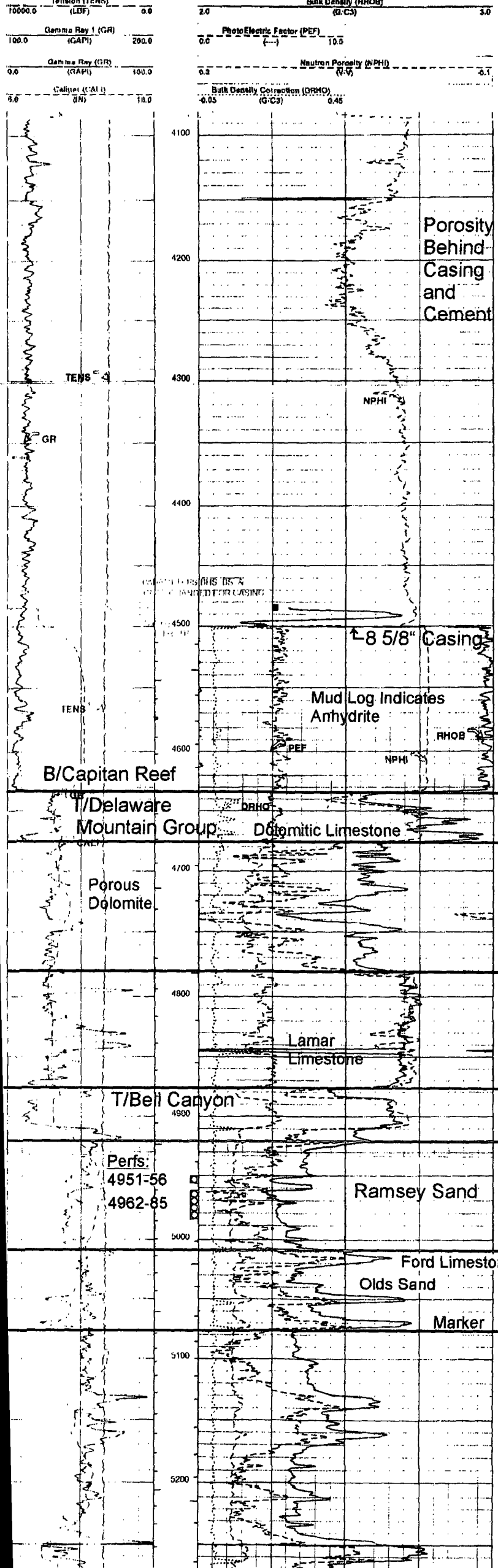
O-6-T22S-R33E 330FB 1980PE  
AMTEX ENERGY INC  
DAGGER LAKE # STATE # 1  
30-025-31683

MERIDIAN OIL  
DAGGER LAKE ST. #1  
WILDCAT  
LEA  
STATE: NEW MEXICO  
FINAL PRINT  
Schlumberger  
COMPENSATED NEUTRON  
LITHO-DENSITY

COUNTY: LE  
Field: W  
Location: 33  
Well: DI  
Company: ME  
Log Date: 26-AUG-82  
Run Number: 1  
Depth: 8804 F  
Schlumberger Depth: 8800 F  
Bottom Log Interval: 8797 F  
Top Log Interval: 200 F  
Casing Depth: 8625 IN  
Casing Diameter: 4488 F  
Bit Size: 7.875 IN  
Type Fluid: H<sub>2</sub>O  
Density: 8.000 F  
Viscosity: 30 S  
MUD: 14.2 CC  
PIT: 9  
Source of Sample: 1  
Date: 11-11-81  
FAC: 1  
Max. Temp: 134  
Min. Temp: 124  
Cased to: 26-AUG-82  
Log: 26-AUG-82  
Unit Name: 1  
Location: 1  
Recorded By: BLANKENBERG, JINSLEY  
Checked By: CATALANO, SANTI

Logging Date: 26-AUG-82  
Run Number: 1  
Depth: 8804 F  
Schlumberger Depth: 8800 F  
Bottom Log Interval: 8797 F  
Top Log Interval: 200 F  
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FAC: 1  
Max. Temp: 134  
Min. Temp: 124  
Cased to: 26-AUG-82  
Log: 26-AUG-82  
Unit Name: 1  
Location: 1  
Recorded By: BLANKENBERG, JINSLEY  
Checked By: CATALANO, SANTI

50 T22S R33E



GROUND LEVEL	Elev. 3650	K8 3659	Elevation
K.D.B.	9 ft Above Permanent Datum	DF	
K.D.B.		CA 3650	

Oil Size	Density and Viscosity
Type Fluid in Hole	pH and Fluid Loss
	Source of Sample
	Run in Meas. Temp.
	Run @ Meas. Temp.
	Run w/ Meas. Temp.
	Source of Run and B
	Run @ BH1
	True Since Circ.
	When Rec. Temp. Degr.
	Equip. No. and Locat.
Recorded By	
Witnessed By	

[illegible]

IBURTON

SPECTRAL DENSITY  
DUAL SPACED  
NEUTRON LOG

696197

CORPORATION MERIDIAN OIL INC.

WELL DIGGER LANE - 8 FEDERAL NO. 2

FIELD DIGGER LANE (DELMAR)

COUNTY LER  
API NO. NR  
LOCATION 330 FUL AND 2310 FEL

STATE NM  
OTHER SERVICES  
H&I CR

COM  
WEL  
FIE  
COUN

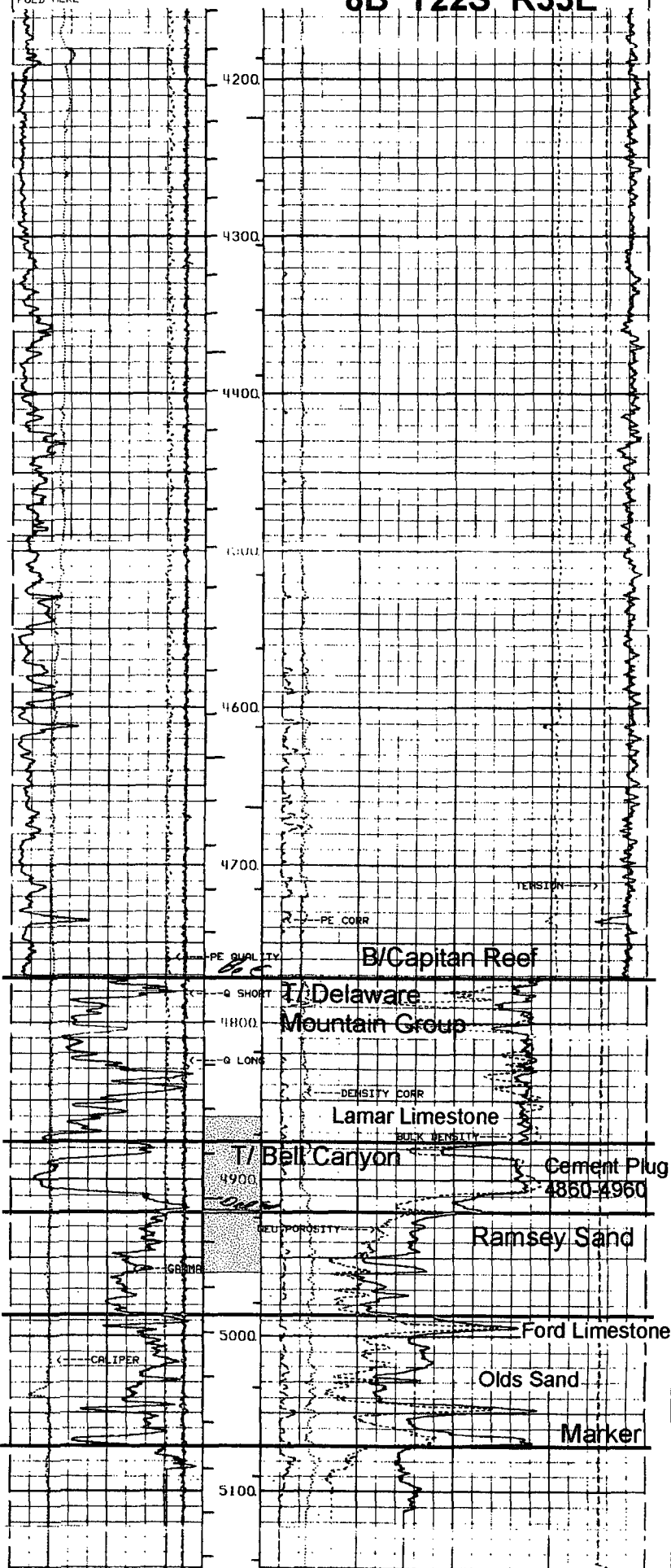
SECT 8  
TWP 22-S  
RGE 33-E

PERMANENT DRILLING G. L. ELEV. 3634  
LOG MEASURED FROM K. B. 10.5 FT ABOVE PERM DRILLING  
DRILLING MEASURED FROM K. B. 8  
DATE 10/26/95  
RUN NO. 5150  
DEPTH-ROLLER 5150  
DEPTH-LOCKER 5147  
TOP LOG INTER 5104  
COSTING DRILLER 8.625-622  
COSTING-LOCKER 617  
BIT SIZE 7.875 INCH  
TYPE FLUID IN HOLE FRESH AND  
DENS. 1.132  
PH. 1.145  
SOURCE OF SAMPLE AND PVT  
API # MEAS. TEMP. 0.16 # 75  
API # MEAS. TEMP. 0.14 # 75  
API # MEAS. TEMP. 0.22 # 75  
SOURCE OF TEMP. MEAS. 1:MEAS  
API # MEAS. 0.13 # 95  
TIME SINCE CLIP 4 HOURS  
TIME IN BOTTOM 18-48 HOURS  
MAX. REC. TEMP. 95 # 10  
EQUIP. LOCATION  
METHOD BY  
INTERPRETED BY

0-2225-R33E 3300N 2310E  
MERIDIAN OIL INC  
DAGGER LAKE 8 FEDERAL # 2  
30-025-32830

8B T22S R33E

FOLD HERE



PE QUALITY		PE CORR		TENSION	
B	-2	-1	.9		
Q SHORT		DENSITY CORR		POUNDS	
-4.5	0.5	-0.2	0.8	10000	0
Q LONG		GM/CC		BULK DENSITY	
4.5	-0.5				
GAMMA		NEU POROSITY		PERCENT NEUTRON MATRIX - LIME	
	AHV				
GAMMA API		GM/CC			
0	100	2.0		3.0	
CALIPER					
	BHV				
INCHES					
6	16	30			-10

