

DATE IN 10-8-04	SUBMITTER 10/23/04	ENGINEER Jones	LOGGED IN 10-8-04	TYPE SWD	APP NO. PSEM0428251790
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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]

[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 _____

*Commercial
BLM
1 Approved*

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

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

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

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

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

Print or Type Name

Signature

Title

Date

e-mail Address

Judah Oil

P.O. Box 568
Artesia, NM

office: 505-746-1280

cell : 505-748-5488

fax : 505-746-1290

2004 OCT 8 PM 1 34
Email: judahoil@yahoo.com

September 29, 2004

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

RE: Application for Approval to convert Oxy T-Bone Federal 31 Gas Well into a Commercial Salt Water Disposal Well.

Dear Sir or Madam,

Please find enclosed my "Application for Authorization to Inject." Our intent is to convert the Oxy T-Bone Federal 31 Gas Well to a Commercial Saltwater Disposal Well.

I have met with Owen Loflin of the BLM office in Carlsbad, NM. I have also requested to meet with Eric Holborn of the BLM on location for inspection.

If I can be of any assistance to you in the processing of this application, please let me know. My phone number is 505-748-5488. Thank you for your consideration.

Sincerely,

James B. Campanella
Owner of Judah Oil



Enc/

III. Well Data

- A. 1) Oxy T-Bone Federal #1
Sec. 33 T-18S R-31E
660 FNL & 1980 FWL

30-015-32122
SWD-950

51629
100V
4992

2)	Hole Size	Casing size	Depth set	Sacks Cement
	17 1/2"	13 3/8" 54.5	640'	650, Circ
	11"	8 5/8"	3600'	1250, Circ
	7 7/8"	5 1/2" 20/17#	12,172'	1 st stage 450sxs, 2 nd stage 300sxs, cement above 2300' CBL

- 3) 2 7/8" J-55 plastic coated tubing run 3970'
4) Guiberson AD- 1 packer plastic coated at 3970'

- B. 1) Grayburg - Shugart Field
San Andres - Shugart Field
2) 3980' - 4030' perforated
4240' - 4310' perforated
3) Well was originally drilled for a Morrow gas well
4) Existing perforations

12,030'-044'
11,896-850'
11,846-850'
11,796-800'
10,006'-016'

Perforations plugged as follows

- a) set CIBP @ 11,740' (above Morrow) and spot 35' cement top
set CIBP @ 9,960' (above Wolfcamp) and spot 35' cement top
5) Next higher oil or gas zone is the Queen @ 3356' - 3850'
Next lower oil or gas zone is the Delaware @ 5045' - 6340'

7968 simat
TOP PLUG AT THIS TIME

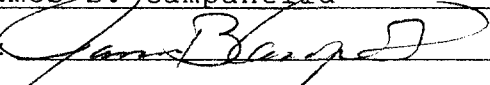
V. Attached

VI. The only well within the area of review that penetrates the proposed Injection zone is CHI Operating, Inc.

Porterhouse State Com. #1
Unit A 660 FNL & 660 FEL
Sec. 32 T-18S R-31E

Please see the attached Well Completion Report, dated 7/17/03 and Received at the Artesia ODC on 7/21/03.

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance x Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Judah Oil
ADDRESS: P.O. Box 568 Artesia, NM 88211-0568
CONTACT PARTY: James B. Campanella PHONE: 505-748-5488
- 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).
CBL - Attached
- *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: James B. Campanella TITLE: owner
SIGNATURE:  DATE: 9/23/04
E-MAIL ADDRESS: judahoil@yahoo.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

- VII. 1) Proposed avg. daily injection is 2500 bpd, and maximum daily Injection volume is 5000 bpd.
2) This system will be open
3) Estimated injection pressure is 750 PSI and estimated maximum injection Pressure is 1500 PSI
4) Attached
5) Attached
- VIII. 1) Lithologic report attached.
2) Geological name of proposed injection zone-Grayburg/San Andres
3) Grayburg-50' in thickness to be perfed from 3980' to 4030'
San Andres -70' in thickness to be perfed from 4240' to 4310'
4) Underground source of drinking water- Rustler- bottom of drinking water @ 632' below surface
5) No underlying fresh water zones
- IX. 1) Set CIBP @ 5,000' w/35' cement, Set CIBP @ 4450' w/35' cement
2) Perf San Andres Formation 4240-4310' w 2spf
3) Pump 1,000gal 15% NEFE HCL
4) Perf Grayburg Formation 3980-4030' w 2spf
5) Pump 1,000 gal 15% NEFE HCL
- X. Well logs and test data have previously been filed with the Division CBL-Attached
- XI. There are no fresh water wells producing within a one mile radius of the proposed disposal well.
- XII. Available geological data has been examined and shows no evidence of open Faults or any hydrological connection between the disposal zone and any Underground source of drinking water.
- XIII. Attached

WELL NAME & NUMBER: T-Bone Federal #1

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA
Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8 54 #
Cemented with: 650 sx. or ft
Top of Cement: surface Method Determined: circular
Intermediate Casing
Hole Size: 12 1/4" Casing Size: 9 5/8 32 #
Cemented with: 1250 sx. or ft
Top of Cement: surface Method Determined: circular

Production Casing

2 7/8 Plastic Coated J-55 tubing Hole Size: 8 3/4" Casing Size: 5 1/2"
Grayburg 3980-4030 Cemented with: 725 sx. or

San Andres	4240-4310	Top of Cement: above 2300'	Method Determined: Cement
CIBP 4450'			
CIBP 5000'			
		Total Depth: 12,172'	

Injection Interval

perferate	3980	feet	4030
	4240	to	4310

(Perforated or Open Hole; indicate which)

stg 450sks	Perfs 10006-10016
r C Mod	CIBP 11740'
stg 200sks	
s C 100sks	Perfs 11796-12044
+ 10% A-10	
sks "C" +	ED 12172

INJECTION WELL DATA SHEETTubing Size: 2 7/8 Lining Material: PlasticType of Packer: Guiberson AD-1 5 1/2Packer Setting Depth: 3970Other Type of Tubing/Casing Seal (if applicable): none**Additional Data**1. Is this a new well drilled for injection? Yes xxx NoIf no, for what purpose was the well originally drilled? Gas Well2. Name of the Injection Formation: Grayburg - San Andres3. Name of Field or Pool (if applicable): Sugart

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.

1) Morrow 11796-12044 Set CIBP @11740 w/ 35' cement
2) Wolfcamp 10006-10016 Set CIBP @9960 w/ 35' cement

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


Overlying zone: oil Queen 3356-3850Underlying zone: oil Delaware 5045-6340

47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Robn Askeu</i>		OIL CONSERVATION DIVISION Approved by:
Printed name: ROBIN ASKEW		Title:
Title: REGULATORY CLERK		Approval Date:
Date: 5-11-04	Phone: 432-685-5001	FOR RECORDS ONLY JUN 12 2004

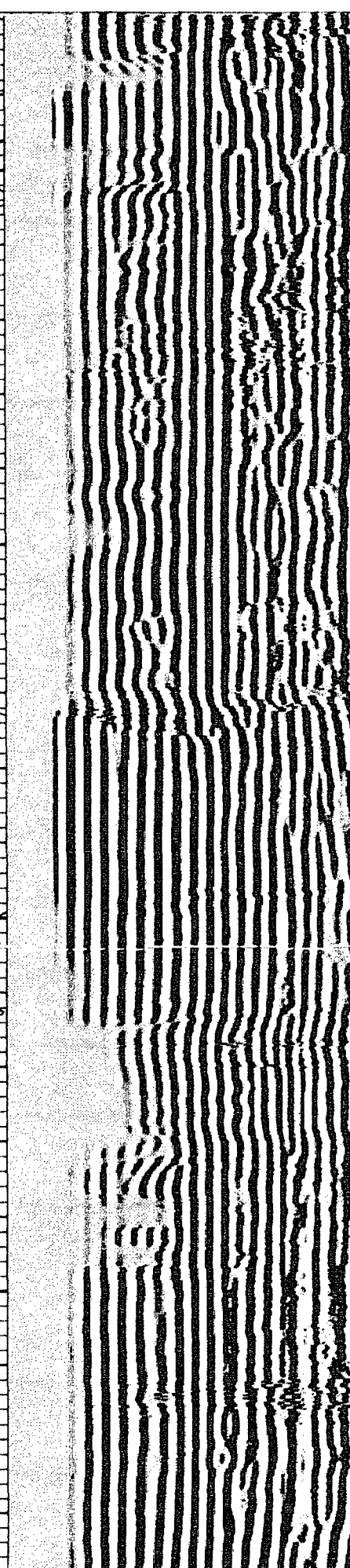
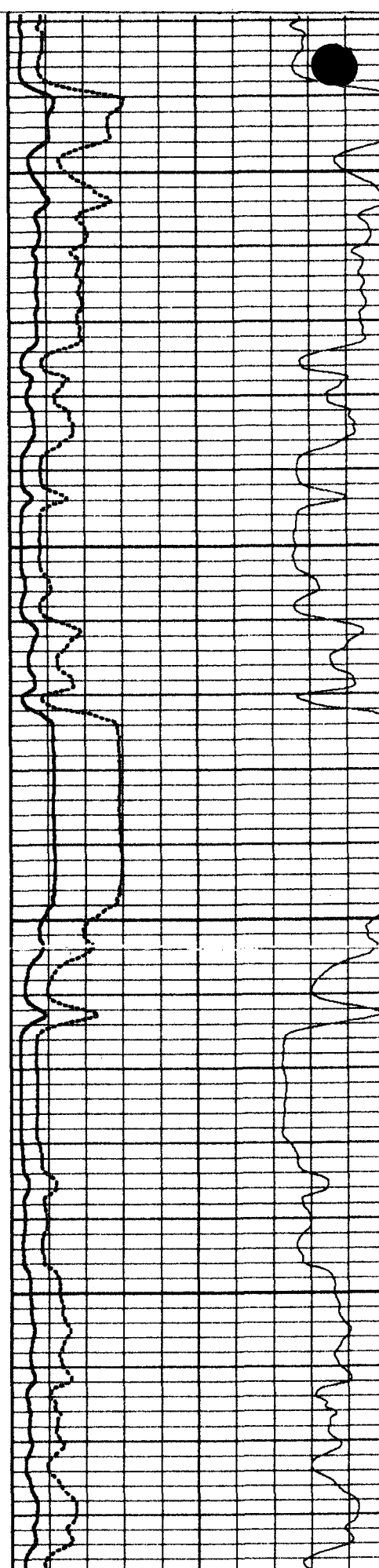
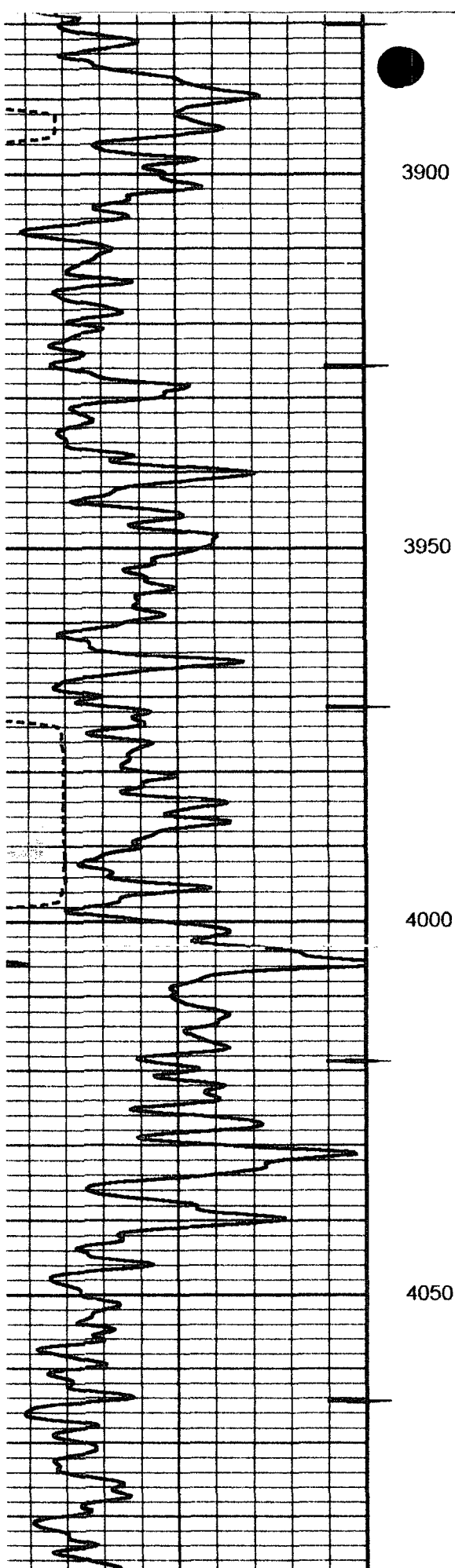
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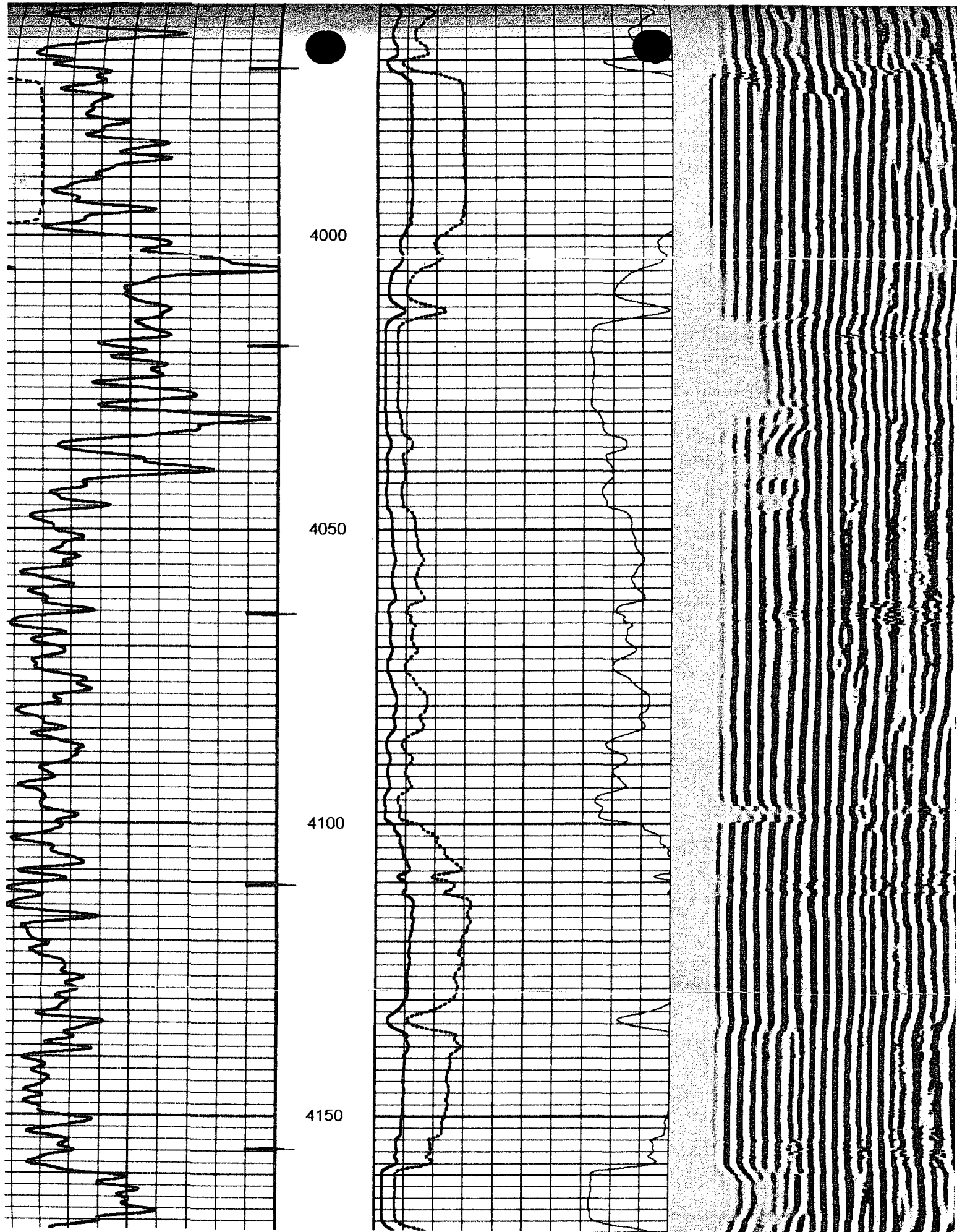
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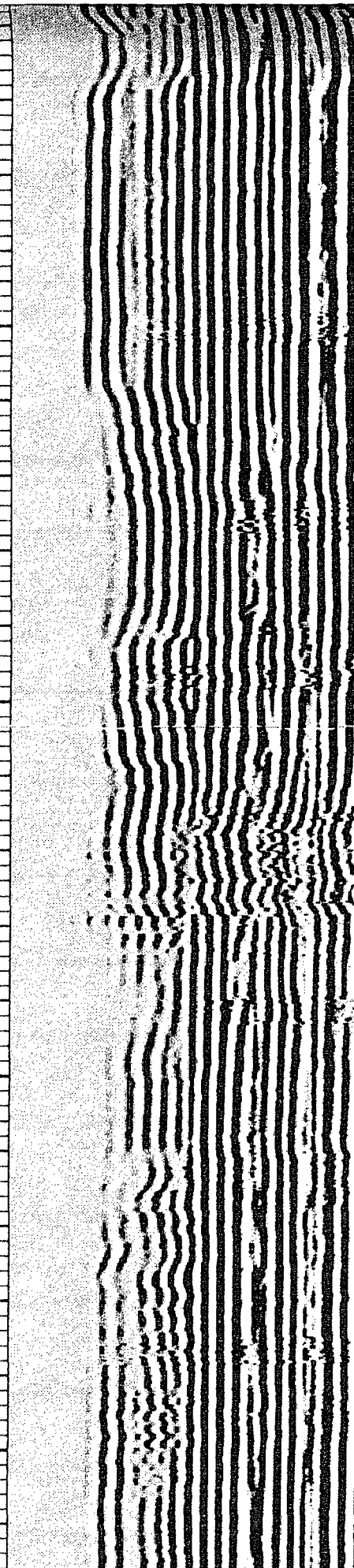
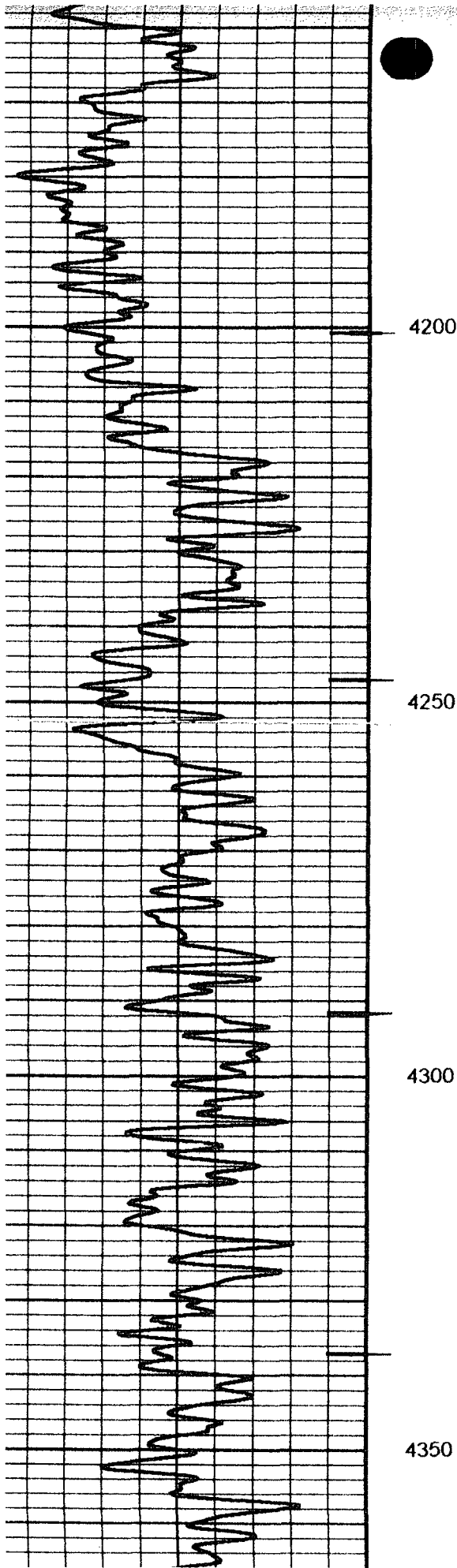
4 pages

		GAMMA RAY / CCL CEMENT BOND / VDL LOG			
Judah Oil Oxy T - Bone Federal No. 1 South Shugart Eddy New Mexico	Company Judah Oil Well Oxy T - Bone Federal No. 1 Field South Shugart County Eddy State New Mexico				
	Location:			API #:	
	660' FNL & 1980' FWL				
	SEC 33 TWP 18 RGE 31-E				
	Permanent Datum Log Measured From Drilling Measured From			gROUND IEVEL Elevation Kelly Bushing or 15 ft. A.P.D. Kelly Bushing	
Other Services			Elevation K.B. D.F. G.L.		
Date		03 - Sept. - 2004			
Run Number		One			
Depth Driller					
Depth Logger		8020 ft.			
Bottom Logged Interval		8019 ft.			
Top Log Interval		2300 ft.			
Open Hole Size		7.875			
Type Fluid		Water			
Density / Viscosity		N/A			
Max. Recorded Temp.		N/A			
Estimated Cement Top					
Time Well Ready		See Log			
Time Logger on Bottom		See Log			
Equipment Number		WL-01			
Location		Hobbs N.M.			
Recorded By		Regal Bell		Gary York	
Witnessed By		Mr. Blaise Campenella			
Borehole Record				Tubing Record	
Run Number	Bit	From	To	Size	Weight
Casing Record		Size	Wgt/Ft	Top	Bottom
Surface String					
Prot. String					
Production String					
Liner					

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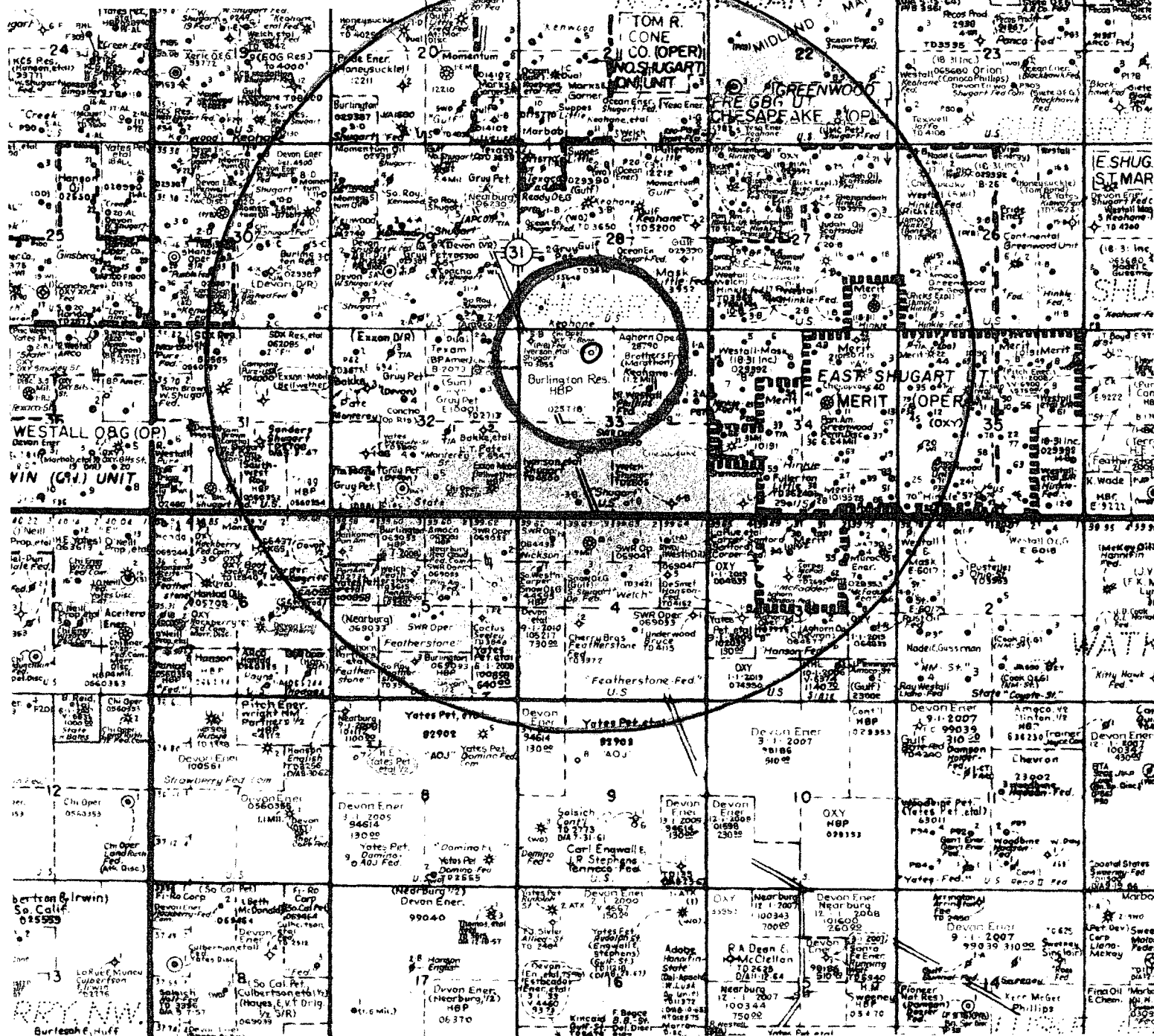




Judah Oil
Oxy T-Bone Fed #1
660' FNL 1980 FWL
Sec 33 T18S R31E
Eddy Co NM

Proposed Commercial
Water Disposal

V attachment



Attachment VI

Submit To Appropriate District Office

State Lease - 6 copies

Fee Lease - 5 copies

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-105

Revised March 25, 1999

WELL API NO.

30-015-32682

5. Indicate Type of Lease

STATE ☒ FEE ☐

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 ☐ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. ☐
WELL OVER BACK RESVR. ☐ OTHER ☐

2. Name of Operator

Chi Operating, Inc.

3. Address of Operator

P.O. Box 1799 Midland, TX 79702

4. Well Location

Unit Letter A : 660 Feet From The NORTH Line and 660 Feet From The EAST LineSection 32 Township 18S Range 31E NMPM County EDDY

10. Date Spudded

3/29/03

11. Date T.D. Reached

5/06/03

12. Date Compl. (Ready to Prod.)

7/10/03

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

GL 3597'

14. Elev. Casinghead

15. Total Depth

12,210'

16. Plug Back T.D.

12,138'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

Cable Tools

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

11,848-66', 11,804-10', 11,896-900', 11,907-12', 11,914-18', 11,923-33', 11,945-62'

20. Was Directional Survey Made

YES

21. Type Electric and Other Logs Run

Deviation Survey, CDL & CNL

22. Was Well Cored

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#	660'	17 1/2"	650sxs, Circ 100sxs	
8 5/8"	32#	3614'	11"	1175sxs, did not circ	
5 1/2"	20/17#	12,210'	7 7/8"	1 st -250sxs, 2 nd -350sxs	250 sxs @ 4590 100 sxs Tail TOC 2300'4

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

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

11,848-66', 11,804-10', 11,896-900', 11,907-12',
11,914-18', 11,923-33', 11,945-62'

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11,896-900', 11,907-12', 11,914-18', 11,923-33', 11,945-62'	A/1500gal on 5% acid, ATP=7850#, 7bbls/min, ISIP=6525#, 5min/6974, 10min/6809, 15min/6750

28. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
7/10/03		Flowing				Prod.	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
7/15/03	18	48/64		0	606	6	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
350#							

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

SOLD

Test Witnessed By
SONNY MANN

30. List Attachments

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

Signature

ROBIN ASKEW

Printed

Name ROBIN ASKEW

Title REGULATORY CLERCK Date 7/17/03

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Mineral & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

Attachment
VII #4
pg 1

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Gruy Petroleum Management Company P.O. Box 140907 Irving, Texas 75014		² OGRID Number 162683
		³ Reason for Filing Code Change of Operator (5/1/97)
⁴ API Number 30-0 30-015-05620	⁵ Pool Name Shugart Yates 7rvrs Qu Grayburg	⁶ Pool Code 56439
⁷ Property Code 21725	⁸ Property Name Keohane Etal A Federal	⁹ Well Number 1

II. 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
M	28	18S	31E		660	South	660	West	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
020445	SCURLOCK PERMIAN CORP	2326810	O	T-18S, R-31E, SC-28, U-M
		2326830	G	T-18S, R-31E, SC-28, U-M

IV. Produced Water

²³ POD 2326850	²⁴ POD ULSTR Location and Description T-18S, R-31E, SC-28, U-M
------------------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, DC, MC
³¹ Hole Size		³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement Packed 70.3 10-31-97 C. H. G.	

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>R. D. Cronk</i> Printed name: R. D. Cronk Title: Vice President of Operations Date: 6/26/97 Phone: (972) 401-3111		OIL CONSERVATION DIVISION Approved by: SUPERVISOR, DISTRICT II Title: Approval Date: OCT 23 1997	
⁴⁷ If this is a change of operator fill in the OGRID number and name of the previous operator <i>Kent Beers</i> Previous Operator Signature Attorney-in-Fact		Burlington Resources Oil & Gas Company Printed Name Title Date 5/1/97	



Water Analysis

Date: 9/28/2004

Attachment
VII #4
pg 2

2401 Sivley, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 746-2293

Analyzed For

Company	Well Name	County	State
Gruy Pet Mng	Keohane Et al 1	Eddy	New Mexico

Sample Source

Sample

1

Formation

Depth

Specific Gravity	1.080	SG @ 60 °F	1.082
pH	6.77	Sulfides	
Temperature (°F)	72	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	-23,799	in PPM	-21,987
Calcium	in Mg/L	46,000	in PPM	42,498
Magnesium	in Mg/L	5,040	in PPM	4,656
Soluable Iron (FE2)	in Mg/L	0.0	in PPM	0

Anions

Chlorides	in Mg/L	58,000	in PPM	53,585
Sulfates	in Mg/L	1,800	in PPM	1,663
Bicarbonates	in Mg/L	288	in PPM	266
Total Hardness (as CaCO3)	in Mg/L	136,000	in PPM	125,647
Total Dissolved Solids (Calc)	in Mg/L	87,329	in PPM	80,681
Equivalent NaCl Concentration	in Mg/L	82,187	in PPM	75,930

Scaling Tendencies

*Calcium Carbonate Index 13,244,320

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 82,800,000

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks

Report #

1666

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazas Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Environmental & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
October 18, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

Attachment
VII #4
Pg 3

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Gruy Petroleum Management Company P.O. Box 140907 Irving, Texas 75014		² OGRID Number 162683
		³ Reason for Filing Code Change of Operator (5/1/97)
⁴ API Number 30-0 30-015-05636	⁵ Pool Name Shugart Yates Trvrs Qu Grayburg	⁶ Pool Code 56439
⁷ Property Code 21748	⁸ Property Name Shugart A	⁹ Well Number 3

II. 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
0	29	18S	31E		330	S	1650	E	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Lse Code RF	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
22628	TEXAS NEW MEXICO PIPELINE CO	2327010	O	T-18S, R-31E, SC-29, U-O
17643	PHILLIPS PETROLEUM CO	2327030	G	T-18S, R-31E, SC-29, U-O

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
2327050	T-18S, R-31E, SC-29, U-O

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, DC, MC
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement Packed 70-5 10-31-97 4.44 g 28		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Printed name: R.D. Cronk Title: Vice President of Operations Date: 6/26/97 Phone: (972) 401-3111		OIL CONSERVATION DIVISION Approved by: SUPERVISOR, DISTRICT II Title: Approval Date: OCT 23 1997
---	--	--

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator Kent Beers Attorney-in-Fact		Burlington Resources Oil & Gas Company Printed Name Title Date: 5/1/97
--	--	---



Water Analysis

Date: 9/28/2004

Attachment
VII #4
Pg

2401 Sivley, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 746-2293

Analyzed For

Company	Well Name	County	State
Gruy Pet Mng	Shugart A 3	Eddy	New Mexico

Sample Source

Sample

1

Formation

Depth

Specific Gravity	1.125	SG @ 60 °F	1.127
pH	6.53	Sulfides	
Temperature (°F)	72	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	-19,970	in PPM	-17,713
Calcium	in Mg/L	40,000	in PPM	35,480
Magnesium	in Mg/L	6,000	in PPM	5,322
Soluable Iron (FE2)	in Mg/L	0.0	in PPM	0

Anions

Chlorides	in Mg/L	56,000	in PPM	49,672
Sulfates	in Mg/L	1,600	in PPM	1,419
Bicarbonates	in Mg/L	732	in PPM	649
Total Hardness (as CaCO3)	in Mg/L	125,000	in PPM	110,875
Total Dissolved Solids (Calc)	in Mg/L	84,362	in PPM	74,829
Equivalent NaCl Concentration	in Mg/L	77,193	in PPM	68,470

Scaling Tendencies

*Calcium Carbonate Index 29,280,000

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 64,000,000

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks

Report #

1665



Water Analysis

Date: 9/28/2004

Attachment
VII #4
pg 6

2401 Sivley, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 746-2293

Analyzed For

Company	Well Name	County	State
Chi Energy Inc	Porterhouse St Com 1	Eddy	New Mexico

Sample Source

Sample

1

Formation

Depth

Specific Gravity	1.090	SG @ 60 °F	1.092
pH	7.56	Sulfides	
Temperature (°F)	71	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	3,655	in PPM	3,347
Calcium	in Mg/L	24,000	in PPM	21,974
Magnesium	in Mg/L	1,200	in PPM	1,099
Soluable Iron (FE2)	in Mg/L	3.0	in PPM	3

Anions

Chlorides	in Mg/L	50,000	in PPM	45,779
Sulfates	in Mg/L	1,200	in PPM	1,099
Bicarbonates	in Mg/L	1,074	in PPM	983
Total Hardness (as CaCO3)	in Mg/L	65,000	in PPM	59,513
Total Dissolved Solids (Calc)	in Mg/L	81,132	in PPM	74,283
Equivalent NaCl Concentration	in Mg/L	73,013	in PPM	66,850

Scaling Tendencies

*Calcium Carbonate Index 25,766,400

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 28,800,000

Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks

Report #

1664

Attachment VII #5

HALLIBURTON SERVICES
ARTESIA DISTRICT

RECEIVED MAY 18 1990

VII #5

LABORATORY REPORT

No. W282-90

TO Yates Energy
Suite 919 - Sunwest Centre
Roswell, NM 88201

Date May 16, 1990

This report is the property of Halliburton Services and neither it nor any part thereof, nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management. It may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Services.

Submitted by Gene Printz

Date Rec. May 16, 1990

Well No. Thorn Bush Fed. #1 Depth 4670' Formation San Andres
Field Sec. 1, T 18S, R 31E County Eddy Source Tank Battery

Resistivity 0.051 @ 75°

Specific Gravity .. 1.129

pH 6.75

Calcium 12,444

Magnesium 3,552

Chlorides 114,000

Sulfates 1,000

Bicarbonates 397

Soluble Iron 0

Potassium 500

API Gravity 38.2°

KCL 0

Remarks:

Rocky Chambers
Respectfully submitted

Analyst: Rocky Chambers - Field Engineer

HALLIBURTON SERVICES

NOTICE:

This report is for information only and the content is limited to the sample described. Halliburton makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage, regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

9/27/2004

Wellbore Diagram

r263

30-015-32122-00-00

OXY T-BONE FEDERAL No. 001

Company Name: JUDAH OIL

Location: Sec: 33 T: 18S R: 31E Spot:

String Information

Attachment VIII

Lat/Long: Lat: 32.7094386190837 Long: -103.876617627423

Property Name: OXY T-BONE FEDERAL

County Name: Eddy

Cement Information

Perforation Information

Formation Information

St Code	Formation	Depth
Prust	Rustler	632
Psal	Salado	982
Pbslt	Base of Salt	2032
Pyts	Yates	2236
Psr	Seven Rivers	2686
Psrbs	Bowers Sand	3092
Pqu	Queen	3356
Psa	San Andres	4040
Pdel	Delaware	5045
Pbs	Bone Spring	6342
Pbs3sd	3rd Bone Spring Sand	9414
Pwc	Wolfcamp	9817
PPst	Strawn	10893

Hole: Unknown

TD: 0

TVD: 0

PBTD:

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Dawn Higgins, being first duly sworn, on oath says:

That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

<u>October 2</u>	<u>2004</u>
_____	<u>2004</u>
_____	<u>2004</u>
_____	<u>2004</u>

That the cost of publication is \$ 37.64
and that payment thereof has been made and will be
assessed as court costs.

Dawn Higgins

Subscribed and sworn to before me this

05 day of October, 2004
Stephanie Dizon

My commission expires 12-13-05

Notary Public

October 2, 2004

Public Notice
Revised from 9-16-204

Judah Oil
P.O. Box 568
Artesia, New Mexico
88211-0568
Phone #505-748-5488

Well Name
Oxy T-Bone Fed #1
Location:
660 FNL 1980 FWL
Section
33
Township
18 South
Range
31-E
Eddy Co. New Mexico

Hearby notify our intent to
convert above captioned
well to a commercial Salt
Water Disposal Well.
Water will be injected into
the Grayburg/San Andres
formation, 3960 to 4310
feet below surface.

Expected maximum rate
is 5000 bwpd with maxi-

imum pressure of 1500
lbs

Interested parties must
file request for hearing
with the Oil Conservation
Division at 1220 South St.
Francis Dr. Santa Fe New
Mexico 87505 within 15
days of this publication.

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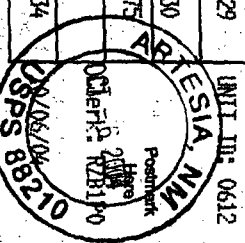
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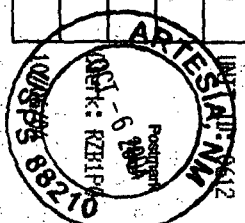
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 or PO Box No.: 75039
 City, State, ZIP+4: Dallas TX 75039
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Total Postage & Fees	\$ 5.34

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 City, State, ZIP+4: Midland TX 79102
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 Street, Apt. No.: 1720 E. Greene St
 or PO Box No.: 88120-1722
 City, State, ZIP+4: Carlsbad, NM 88120-1722
 PS Form 3800, June 2002 See Reverse for Instructions

Form 3160-3
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

1301 W. Grand Avenue

Artesia, NM 88210

FORM APPROVED
OIA B No. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
Judah Oil3a. Address
P.O. Box 568 Artesia, NM 882113b. Phone No. (include area code)
505-748-5488

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

660 FNL, 1980 FWL
Section 33, T18S, R31E

5. Lease Serial No.

NM-12211

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Oxy T-Bone Fed #1

9. API Well No.

30-015-32122

10. Field and Pool, or Exploratory Area

Wilkat Sugar

11. County or Parish, State

Eddy New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Procedure Began September 2, 2004 completed September 3, 2004

1. Set CIBP @ 11740' spotted 35' cement over Bridge Plug. WOC 24 HRS

2. Tested Bridge Plug to 500 lbs - Held.

3. Set CIBP @ 9960' spotted 35' cement over Bridge Plug.

4. Ran CBL from 2300' to 5020'

5. Submitting application for Commercial Water Disposal Well

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

James Campanella

Title owner

Signature

James Campanella

Date October 22, 2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice 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.

Title

Date

Office

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)

ACCEPTED FOR RECORD

OCT 26 2004

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

5058859264

APR 15, 2004 21:47

BUREAU OF LAND MANAGEMENT
ROSWELL OFFICE

2004 OCT 25 AM 10:22

Page

RECEIVED

9/27/2004

Wellbore Diagram

r263

30-015-32122-00-00

OXY T-BONE FEDERAL No. 001

Company Name: JUDAH OIL

Location: Sec: 33 T: 18S R: 31E Spot:

String Information

Lat/Long: Lat: 32.7094386190837 Long: -103.876617627423

Property Name: OXY T-BONE FEDERAL

County Name: Eddy

Cement Information

Perforation Information

Formation Information

St Code	Formation	Depth
Prust	Rustler	632
Psal	Salado	982
Pbslt	Base of Salt	2032
Pyts	Yates	2236
Psr	Seven Rivers	2686
Psrbs	Bowers Sand	3092
Pqu	Queen	3356
Psa	San Andres	4040
Pdel	Delaware	5045
Pbs	Bone Spring	6342
Pbs3sd	3rd Bone Spring Sand	9414
Pwc	Wolfcamp	9817
PPst	Strawn	10893
Ppat	Atoka	11154
Ppmorl	Morrow Limestone	11554
Ppmorc	Morrow Clastics	11722

Hole: Unknown

TD: 0

TVD: 0

PBTD: