

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 _____

[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

EMAIL
 SURFACE SPECIALTIES
 @
 SBCGLOBAL.NET

3/26/05
GRAY

4/6/05
Surface Specialties

303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

March 24, 2005

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

Attn: Will Jones

Re: Rice Operating Company
Blinebry Drinkard SWD Well #20
Section 20, T22S-R37E
Lea County, New Mexico

1000'
open hole
Running Profit
within 6 months

(New well
no FPI)

2 DIA
1 ACTIVE
3 BORWELL

Dear Will:

Please find enclosed a copy of the original package containing Form C-108, Application for Authorization to Inject along with the required attachments to permit the above mentioned saltwater disposal well on behalf of Rice Operating Company, 122 W. Taylor, Hobbs, NM 88240.

This package was mailed to the Santa Fe OCD on March 15, 2005 from Midland, Texas. The Hobbs District Office received their copy on March 21, 2005. The letters to the offset operators were also mailed on March 15, 2005 and most of the certified mail cards have been returned indicating their package was received.

After your review, if you have questions or need additional information, please contact Jo Ann Johnson at 432/631-0529. My Email address is joannbj@digitalcafe.org.

Thanks.

Sincerely,

Jo Ann Johnson

Jo Ann Johnson
Right of Way Agent
3907 Placid Ct.
Midland, TX 79703



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

March 14, 2005

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

Re: Blinebry Drinkard SWD Well #20
Section 20, T22S-R37E
Lea County, New Mexico

Please find enclosed Form C-108, Application for Authorization to Inject along with the required attachments to permit the above mentioned saltwater disposal well on behalf of Rice Operating Company, 122 W. Taylor, Hobbs, NM 88240.

If you have questions, please contact Jo Ann Johnson at 432/631-0529.

Thanks.

Sincerely,

A handwritten signature in cursive script that reads 'Jo Ann Johnson'.

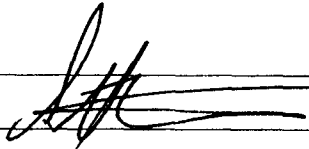
Jo Ann Johnson
Right of Way Agent
3907 Placid Ct.
Midland, TX

GENERALIZED SECTION

PRODUCING FORMATIONS LEA COUNTY, NEW MEXICO

SYSTEM	SERIES	FORMATION		LEA COUNTY POOLS 2500'± NONPRODUCTIVE BEDS ARE NOT INCLUDED
PERMIAN	OCHOA	SALADO		
	GUADALUPE	TANSILL		
		YATES		ARROW, BAISH, CORBIN, EAVES, EUMONT, GEM, HALFWAY, JALMAT, LUSK, LYNCH, NORTH LYNCH, RHODES, SAN SIMON, TEAS, TONTO, WILSON, NORTH WILSON
		SEVEN RIVERS		ARROW, BOWERS, COOPER JAL, EAVES, EUMONT, SOUTH EUNICE, EAST HOBBS, JALMAT, LANGLEIE, MATTIX, LEONARD, TONTO, WATKINS, WEST WILSON
		QUEEN		ARROW, CAPROCK, NORTH CAPROCK, COOPER JAL, CORBIN, DOLLARHIDE, E.K., EUMONT, LANGLEIE, MATTIX, SOUTH LEONARD, PEARSALL, PENROSE, SKELLY, YOUNG
		GRAYBURG		ARROWHEAD, EUNICE-MONUMENT, HARDY, HOBBS, MALJAMAR, EAST MALJAMAR, NORTH MALJAMAR, SOUTH MALJAMAR, PENROSE, SKELLY, ROBERTS, SKAGGS, VACUUM, WATKINS
	LEONARD	SAN ANDRES		SOUTH CARTER, E.K., EIGHTY FOUR DRAW, EUNICE-MONUMENT, GARRETT, HOBBS, EAST HOBBS, HOUSE, LITTMAN, LOVINGTON, WEST LOVINGTON, MALJAMAR, EAST MALJAMAR, NORTH MALJAMAR, SAN MAL, SAWYER, VACUUM
		GLORIETA		JUSTIS, LOVINGTON, MONUMENT, MALJAMAR, PADDOCK
		YESO DRINKARD	 LOWER MIDDLE UPPER	BLINEBRY, FOWLER, EAST HOBBS, LOVINGTON, MONUMENT, TERRY
				LOVINGTON, TUBB
	WOLFCAMP	ABO-HUECO		DOLLARHIDE, DRINKARD, FOWLER, HOBBS, HOUSE, NADINE, SKAGGS, WARREN, WEIR
PENNSYLVANIAN				ANDERSON RANCH, EAST BAGLEY, BAUM, BRONCO, BUFFALO, EAST CAPROCK, CAUDILL, DENTON, D-K, GLADIOLA, SOUTH GLADIOLA, KING, LANE, LOVINGTON, MOORE, TOWNSEND, TULK, WANTZ
MISSISSIPPIAN		MISS. LS.		ALLISON, BAGLEY, BOUGH, CASS, CROSSROADS, DEAN, EIDSON, HIGHTOWER, LAZY J, EAST LOVINGTON, MESCALERO, MOORE, SOUTH ROBERTS RANCH, SAUNDERS, SOUTH SAUNDERS, SHOE BAR, WILLIAMS
		WOODFORD SH.		DENTON
DEVONIAN				ANDERSON RANCH, BAGLEY, BRONCO, EAST CAPROCK, CAUDILL, CROSBY, CROSSROADS, SOUTH CROSSROADS, DEAN, DENTON, SOUTH DENTON, DOLLARHIDE, DUBLIN, ECHOL, NORTH ECHOL, FOWLER, GLADIOLA, HIGHTOWER, KNOWLES, SOUTH KNOWLES, MALJAMAR, MESCALERO, MOORE, SOUTH ROBERTS RANCH, SAWYER, SHOE BAR, TEAGUE
SILURIAN		FUSSELMAN		DOLLARHIDE, FOWLER, MC CORMICK
ORDOVICIAN	UPPER	MONTOYA		CARY
	MIDDLE	SIMPSON		HARE, SOUTH HARE, TEAGUE, WARREN, NORTH WARREN
	LOWER	ELLENBURGER		BRUNSON, DOLLARHIDE, DUBLIN, FOWLER, TEAGUE
PRE-CAMBRIAN				

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Rice Operating Company
ADDRESS: 122 W. Taylor, Hobbs, NM 88240
CONTACT PARTY: Scott Curtis PHONE: 505-393-9174
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Scott Curtis TITLE: Operations Manager
SIGNATURE:  DATE: 2-28-05
E-MAIL ADDRESS: jscrieswd@leaco.net
- * 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.

Attachments to Application C-108

BLINEBRY DRINKARD SWD Well No. D-20
Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

III. Well Date

- A.1) See injection well data sheet.
- 2) See injection well data sheet.
- 3) 5 ½" Rice Duoline.
- 4) Baker Model "D" Packer or equivalent.

- B.1) Injection formations – San Andres.
- 2) Injection interval – 3900' to 5000'.
- 3) Original purpose of well is for salt water disposal.
- 4) N/A
- 5) Next higher producing zone is the Grayburg.
Next lower producing zone is the Glorieta.

IV. No.

V. Attached.

VI. Attached – list of wells and data.

VII. Proposed Operations.

- 1) 20,000 bls. per day of produced water.
- 2) Closed.
- 3) Average pressure is 1600#, or whatever limit OCD allows.
- 4) Attached.
- 5) (See attached analysis.)

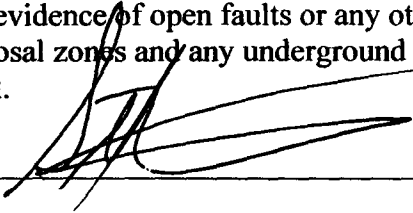
VIII. The proposed disposal formation is interbedded shale and limestone. The primary geologic name is the San Andres which occurs from 3832' to 5000'. The fresh water formation in the area is the Ogallala and Alluvium which ranges in thickness from 20' to 60'. An analysis from a producing water well is attached.

IX. Acid as needed.

X. N/A

XI. Attached.

XII. I, Scott Curtis, have examined all available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zones and any underground source of drinking water pertaining to this well.



XIII. Attached.

INJECTION WELL DATA SHEET

OPERATOR: Rice Operating CompanyWELL NAME & NUMBER: Blinebry Drinkard SWD D-20WELL LOCATION: 330' FNL, 660' FWL D UNIT LETTER 20 SECTION 22S TOWNSHIP 37E RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8"

Cemented with: 440 sx. or ft³

Top of Cement: Surface Method Determined: circulation

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8"

Cemented with: 705 sx. or ft³

Top of Cement: Surface Method Determined: circulation

Production Casing

Hole Size: 8 3/4" Casing Size: 7"

Cemented with: 400 sx. or ft³

Top of Cement: Surface Method Determined: circulation

Total Depth: Injection Interval3900" feet to 5000'

(Perforated or {Open Hole}; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 5 1/2" Lining Material: Rice duoline

Type of Packer: Baker Model D or equivalent

Packer Setting Depth: 3875'

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

Additional Data

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

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

2. Name of the Injection Formation: San Andres

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

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. N/A

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

The upper zone is the Grayburg +/- 3632'

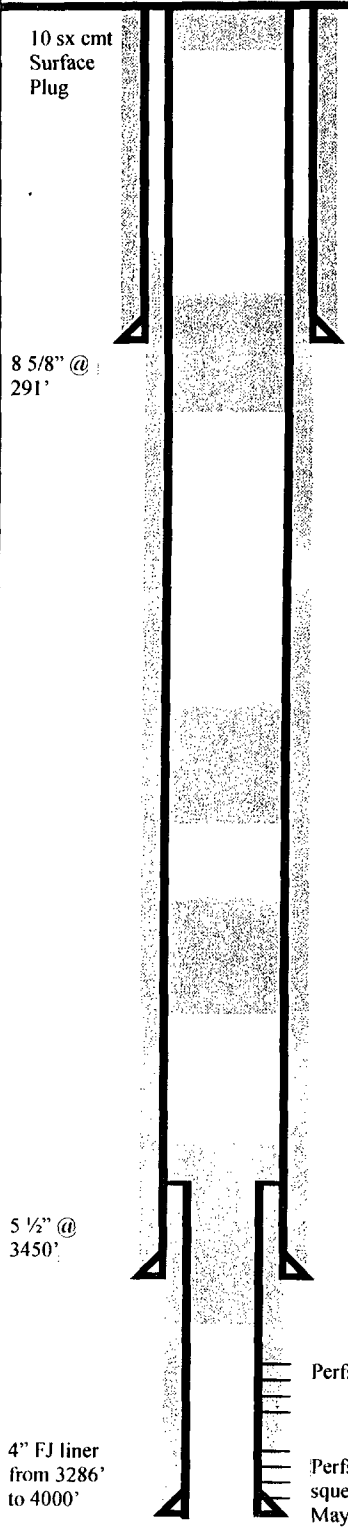
The lower zone is the Glorieta +/- 5286'

[illegible]

WELLS WITHIN 1/2 MILE OF THE PROPOSED BD SWD WELL D-20 WHICH PENETRATE THE PROPOSED INJECTION ZONE

Section 20, T22S, R37E										
API	OPERATOR	SPUD DATE	LEASE NAME	WELL #	TYPE	STATUS	TD	UL	LOCATION	FORMATION
30-025-10376	Louis Dreyfus Natural Gas Inc. 11304 W IH 20E Midland, TX 79765	4/1/71	Tres State	1	Oil	P&A	4000'	D	660 FNL, 660 FWL	Attached schematic
30-025-23804	Bettis, Boyle & Stoval P.O. Box 1240 Graham TX 76450	6/24/71	Paisy "B"	1	Oil	Active	4412'	C	990 FNL, 1980 FWL	Grayburg. See attached well completion report.
Section 17, T22SS, R37E										
30-025-23925	Bettis, Boyle & Stoval		Paisy B	2	Oil	P&A	4030'	N	660 FSL, 1980 FWL	See attached schematic.
30-025-23896	Campbell & Hedrick P.O. Box 401 Midland, TX 79702	10/8/71	Christmas	2	Oil	Active	3910'	O	330 FSL, 1980 FEL	Seven Rivers-Queen. See attached well completion report.
Section 18, T22S, R37E										
30-025-31329	XTO Energy	9/6/91	AGU	242	Water Inj.	Active	3980'	O	560' FSL, 1980' FEL	Grayburg. See attached well completion report.

WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		API NUM	30-025-10376																																
FORM	DEPTH																																		
 <p>10 sx cmt Surface Plug</p> <p>8 5/8" @ 291'</p> <p>25 sx Plug @341'</p> <p>Two Stage Tool @1150'</p> <p>25 sx cmt Plug @1200'</p> <p>25 sx cmt Plug @2600'</p> <p>35 sx cmt Plug 3216'-3550'</p> <p>5 1/2" @ 3450'</p> <p>4" FJ liner from 3286' to 4000'</p> <p>Perfs 3655'-3788'</p> <p>Perfs 3865'-3909' squeezed w/60sx cmt May-71</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">OPERATOR</td> <td colspan="3">Louis Dreyfus Natural Gas Inc.</td> </tr> <tr> <td colspan="2">LEASE NAME</td> <td colspan="3">Tres State No. 1</td> </tr> <tr> <td>LOCATION:</td> <td>UL: D</td> <td>SEC: 20</td> <td>TWN: 22S</td> <td>RNG: 37E</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">660 FNL</td> <td>660 FWL</td> </tr> <tr> <td>TD 4000'</td> <td>PBD 3954'</td> <td>GL 3396'</td> <td colspan="2">RKB</td> </tr> <tr> <td colspan="2">DHC</td> <td colspan="3"></td> </tr> </table>				OPERATOR		Louis Dreyfus Natural Gas Inc.			LEASE NAME		Tres State No. 1			LOCATION:	UL: D	SEC: 20	TWN: 22S	RNG: 37E			660 FNL		660 FWL	TD 4000'	PBD 3954'	GL 3396'	RKB		DHC				
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<div style="display: flex; justify-content: space-between;"> <div>Prepared By:</div> <div>Updated:</div> </div>																																			

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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease
State ☐ Fee ☐
5. State Oil & Gas Lease No.

1a. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____				7. Unit Agreement Name									
b. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____				8. Farm or Lease Name PATSY "B"									
2. Name of Operator MILLARD DECK				9. Well No. 1									
3. Address of Operator P.O. BOX 1047, EUNICE, NEW MEXICO 88231				10. Field and Pool, or Wildcat LANGLIE MATTIX									
4. Location of Well UNIT LETTER C LOCATED 990 FEET FROM THE NORTH LINE AND 1980 FEET FROM THE WEST LINE OF SEC. 20 TWP. 22S RGE. 37E NMPM				12. County LEA									
15. Date Spudded 6-24-71	16. Date T.D. Reached 7-9-71	17. Date Compl. (Ready to Prod.) 7-28-71	18. Elevations (DF, RKB, RT, GR, etc.) 3378' RKB	19. Elev. Casinghead 3368' GR									
20. Total Depth 4412	21. Plug Back T.D. 3800	22. If Multiple Compl., How Many	23. Intervals Drilled By Rotary Tools 0-4412	Cable Tools ---									
24. Producing Interval(s), of this completion - Top, Bottom, Name 3451' - 3757' QUEEN				25. Was Directional S Made NO									
26. Type Electric and Other Logs Run GAMMA RAY - NEUTRON				27. Was Well Cored NO									
28. CASING RECORD (Report all strings set in well)													
CASING SIZE 8 5/8"	WEIGHT LB./FT. 24#	DEPTH SET 300'	HOLE SIZE 12 1/4"	CEMENTING RECORD 250 SKS -CIRCULATED	AMOUNT PULLED ---								
5 1/2"	15.50#	4225'	7 7/8"	500 SKS	---								
29. LINER RECORD			30. TUBING RECORD										
SIZE NONE	TOP	BOTTOM	SACKS CEMENT	SCREEN	PACKER SE								
---	---	---	---	---	---								
31. Perforation Record (Interval, size and number) 4053'-93' W/8 HOLES, SQUEEZE CEMENTED 3973'-95' W/5 HOLES & 3821'-29' W/18HOLE SET CIBP AT 3800' 3657'-3757' W/15 HOLES & 3451' -3593'W/12 HOLES			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. <table border="1"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>4053'-93'</td> <td>1000 GAL ACID-SQUEEZE ON W/1</td> </tr> <tr> <td>3973'-3821'</td> <td>2000 GAL ACID-FIBP @ 3800'</td> </tr> <tr> <td>3451'-3757'</td> <td>50,000 GAL GELLED BRINE W/ 1#SPG.</td> </tr> </table>			DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	4053'-93'	1000 GAL ACID-SQUEEZE ON W/1	3973'-3821'	2000 GAL ACID-FIBP @ 3800'	3451'-3757'	50,000 GAL GELLED BRINE W/ 1#SPG.
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED												
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3973'-3821'	2000 GAL ACID-FIBP @ 3800'												
3451'-3757'	50,000 GAL GELLED BRINE W/ 1#SPG.												
33. PRODUCTION													
Date First Production 8-1-71		Production Method (Flowing, gas lift, pumping - Size and type pump) FLOWING			Well Status (Prod. or Shut-in) PRODUCING								
Date of Test 8-3-71	Hours Tested 24	Choke Size 32/64"	Prod'n. For Test Period 90	Oil - Bbl. 90	Gas - MCF 289								
Flow Tubing Press. 150	Casing Pressure 225	Calculated 24-Hour Rate 90	Oil - Bbl. 90	Gas - MCF 289	Water - Bbl. 75								
34. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD			Test Witnessed By A.O. SMITH										
35. List of Attachments INCLINATION SURVEY & GAMMA RAY - NEUTRON													

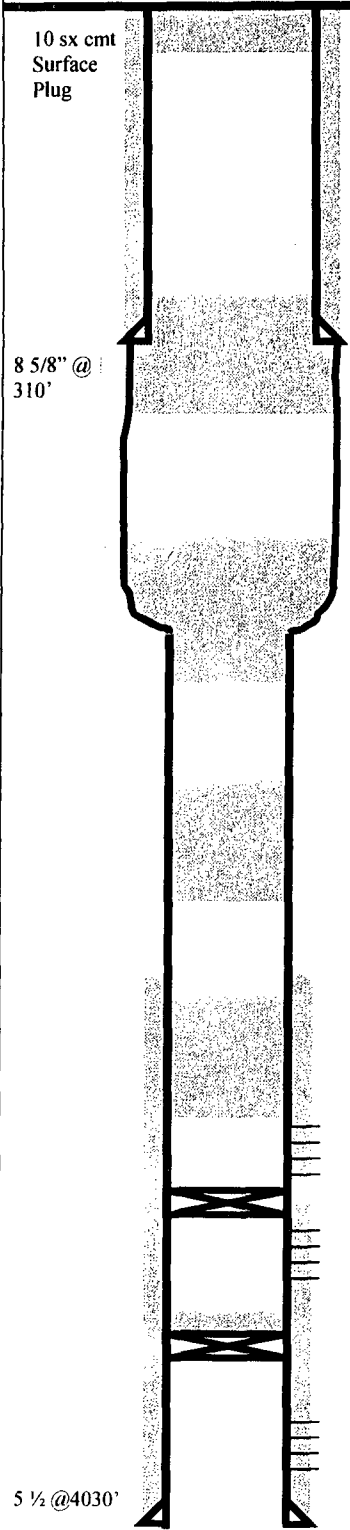
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

Millard Deck

TITLE **OWNER - OPERATOR**

DATE **8-6-71**

WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		API NUM	30-025-23925																																																								
FORM	DEPTH																																																										
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="6">OPERATOR Bettis, Boyle and Stovall.</td> </tr> <tr> <td colspan="6">LEASE NAME Patsy B #2</td> </tr> <tr> <td>LOCATION:</td> <td>UL:</td> <td>N</td> <td>SEC:</td> <td>17</td> <td>TWN: 22S</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>RNG: 37E</td> </tr> <tr> <td colspan="3"></td> <td colspan="3">660 FSL</td> </tr> <tr> <td colspan="3"></td> <td colspan="3">1980 FWL</td> </tr> <tr> <td>TD</td> <td>4030'</td> <td>PBD</td> <td>3800'</td> <td>GR</td> <td>3370'</td> </tr> <tr> <td colspan="2"></td> <td>RKB</td> <td colspan="3">3377'</td> </tr> <tr> <td colspan="6">DHC</td> </tr> </table>				OPERATOR Bettis, Boyle and Stovall.						LEASE NAME Patsy B #2						LOCATION:	UL:	N	SEC:	17	TWN: 22S						RNG: 37E				660 FSL						1980 FWL			TD	4030'	PBD	3800'	GR	3370'			RKB	3377'			DHC					
		OPERATOR Bettis, Boyle and Stovall.																																																									
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				RKB	3377'																																																						
		DHC																																																									
<p>30 sx cmt Plug @209'-360'</p>																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="6">CASING RECORD</th> </tr> <tr> <th></th> <th>SIZE</th> <th>DEPTH</th> <th>CMT</th> <th>HOLE SIZE</th> <th>TOC</th> </tr> <tr> <td>SURF.</td> <td>8 5/8"</td> <td>310</td> <td>150 sx</td> <td>11"</td> <td>Circ'd 5 sx cmt</td> </tr> <tr> <td>INTER.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PROD.</td> <td>5 1/2"</td> <td>4030'</td> <td>330 sx</td> <td>7 7/8"</td> <td>2200'</td> </tr> </table>				CASING RECORD							SIZE	DEPTH	CMT	HOLE SIZE	TOC	SURF.	8 5/8"	310	150 sx	11"	Circ'd 5 sx cmt	INTER.						PROD.	5 1/2"	4030'	330 sx	7 7/8"	2200'																										
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<p>25 sx cmt Plug @1114'-1250' Cut and pulled 5 1/2" csg @1200'</p>																																																											
<p>25 sx cmt Plug @1898'-2050'</p>																																																											
<p>TOC @2200'</p>																																																											
<p>25 sx cmt Plug 2398'-2650'</p>																																																											
<p>Perfs 2659'-3270'</p>																																																											
<p>CIBP @3450'</p>																																																											
<p>Perfs 3480'-3788'</p>																																																											
<p>CIBP @3800' w/ 2 sx cmt on top - January, 1972</p>																																																											
<p>Perfs 3914'-3986'</p>																																																											
5 1/2 @4030'																																																											

Prepared By:	Updated:
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NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☐ Fee ☐
5. State Oil & Gas Lease No.

1a. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>						7. Unit Agreement Name	
b. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>						8. Farm or Lease Name Christmas	
2. Name of Operator Campbell & Hedrick						9. Well No. 2	
3. Address of Operator P. O. Box 401, Midland, Texas 79701						10. Field and Pool, or Wildcat Indesignated	
4. Location of Well UNIT LETTER 0 LOCATED 330 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE OR SEC. 17 TWP. 22-S RGE. 37-E NMPM						12. County Lea	
15. Date Spudded 10/8/71		16. Date T.D. Reached 10/19/71		17. Date Compl. (Ready to Prod.) Oct. 25, 1971		18. Elevations (DF, RKB, RT, GR, etc.) Not known	
20. Total Depth 3910		21. Plug Back T.D. 3889		22. If Multiple Compl., How Many -		23. Intervals Drilled By Rotary Tools 3910	
24. Producing Interval(s), of this completion - Top, Bottom, Name 3460-3694 Seven Rivers-Queens						25. Was Directional Survey Made No	
26. Type Electric and Other Logs Run Gamma Ray - Neutron						27. Was Well Cored No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD		AMOUNT PULL	
8 5/8	24#	310	12 1/4	200 sacks w/2% CaCl₂		None	
5 1/2	15.5	3910	7 7/8	400 sacks w/4% gel and 200 sacks type C		None	
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					2 3/8 EUE	3799	No
31. Perforation Record (Interval, size and number) 3460-3518, 3529-64, 3583-3664 and 3679-3694 37 holes				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL 3460-3694 AMOUNT AND KIND MATERIAL USED Acidize w/2000 lbs 15% DS 3 Treat w/40,000 gal gelled brine and 36000# 20/40 sand and 36000# 10/20 sand.			
33. PRODUCTION							
Date First Production Oct. 26, 1971		Production Method (Flowing, gas lift, pumping - Size and type pump) pumping - 1 1/2" x 6" acidic				Well Status (Prod. or Shut-in) Prod.	
Date of Test Dec. 2, 1971	Hours Tested 24	Choke Size Open	Prod'n. For Test Period 72	Oil - Bbl. 72	Gas - MCF 123.7	Water - Bbl. 100	Gas - Oil Ratio 1.718
Flow Tubing Press. 30	Casing Pressure 30	Calculated 24-Hour Rate 72	Oil - Bbl. 72	Gas - MCF 123.7	Water - Bbl. 100	Oil Gravity - API (Corr.) 35.2	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Skelly Oil Company						Test Witnessed By Wm. R. Dean	
35. List of Attachments Slope test data - Electric Log Services							
36. 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.							
SIGNED Olex F. Hedrick				TITLE Partner		DATE 12-6-71	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission 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 30 through 34 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

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt 2450	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers 2820	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Permian 3472	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg 3634	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	320	320	Surface and Red Bed				
320	1020	700	Red Bed				
1020	1149	129	Anhydrite				
1149	2450	1301	Anhydrite and Salt				
2450	2567	117	Anhydrite				
2567	2660	93	Anhydrite and Sand				
2660	2901	341	Lime and anhydrite				
2901	3910	1009	Lime and sandy dol				

RECEIVED

1971

OIL CONSERVATION COMM.
HOBB, N. M.

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 1-1-89

WELL APN NO.
30-025-31329

5. Indicate Type of Lease
STATE ☒ FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Arrowhead Grayburg Unit

8. Well No.

242

9. Pool name or Wildcat

Arrowhead Grayburg

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER Injector

1b. Type of Completion:
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DEEP REPAIR ☐ OTHER ☐

2. Name of Operator
Chevron U.S.A., Inc.

3. Address of Operator
P.O. Box 1150 Midland, TX 79702

4. Well Location
Unit Letter 0; 560 Feet From The South Line and 1980 Feet From The East

Section 18 Township 22S Range 37E NMPM Lea Con

10. Date Spudded 9/6/91 11. Date T.D. Reached 9/21/91 12. Date Compl. (Ready to Prod.) 10/26/91 13. Elevations (DFA, RKB, RT, GR, etc.) 3411.7' GE 14. Elev. Casinghead --

15. Total Depth 3980' 16. Plug Back T.D. 3903' 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 3663'-3782' Grayburg 20. Was Directional Survey Made Yes

21. Type Electric and Other Logs Run DEN-CNL-GR-CAL-MLL-FMT-CBL-CCL-CET 22. Was Well Cored Yes

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PU
8-5/8"	23#	1155'	12-1/2"	700 sx	128 sx
5-1/2"	15.5#	3980'	7-7/8"	630 sx	70 sx

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER
					2-3/8"	3612'	3612'

26. Perforation record (interval, size, and number)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, E	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USE
3663'-3782' 4" 180 deg 2 JHPF (154 holes)	3663-3782'	1200 gals 15% NEFE

PRODUCTION

28. Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil
Flow Tubing Press.	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.) Test Witnessed By

30. List Attachments

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


RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

Statement of Compatibility:

Water analysis of the blended injection water and a sample of San Andres formation water, taken from a producing well approximately one and a half miles from the proposed disposal well D-20, appears to be compatible. Considering the fact that a similar disposal well N-18, has been injecting this same blended water into the San Andres formation, (approximately one half mile to the west of this proposed site) for roughly 30 years, (without any formation problems) there is no doubt that the two waters are in fact compatible.

Scott Curtis



Operation Manager

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: **Nalco Energy Services**

Well Number: Cole St. 8G
Lease: Rice Oper.
Location:
Date Run: 3/2/2005
Lab Ref #: 05-mar-n24289

Sample Temp: 70
Date Sampled: 3/1/2005
Sampled by: Mike Carson
Employee #:
Analyzed by: DOM

Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide (H ₂ S)		220.00	16.00	13.75
Carbon Dioxide (CO ₂)	NOT ANALYZED			
Dissolved Oxygen (O ₂)	NOT ANALYZED			

Cations

Calcium (Ca ⁺⁺)	225.12	20.10	11.20
Magnesium (Mg ⁺⁺)	73.20	12.20	6.00
Sodium (Na ⁺)	5,928.19	23.00	257.75
Barium (Ba ⁺⁺)			
	NOT ANALYZED		
Manganese (Mn ⁺)	.05	27.50	.00

Anions

Hydroxyl (OH ⁻)	.00	17.00	.00
Carbonate (CO ₃ ⁼)	360.00	30.00	12.00
BiCarbonate (HCO ₃ ⁻)	2,272.92	61.10	37.20
Sulfate (SO ₄ ⁼)	8.00	48.80	.16
Chloride (Cl ⁻)	8,008.80	35.50	225.60
Total Iron (Fe)	0.27	18.60	.01
Total Dissolved Solids	17,096.56		
Total Hardness as CaCO ₃	862.92		
Conductivity MICROMHOS/CM	30,000		

pH 7.830 Specific Gravity 60/60 F. 1.012

CaSO₄ Solubility @ 80 F. 43.76 MEq/L, CaSO₄ scale is: unlikely

CaCO₃ Scale Index

70.0	1.117	100.0	1.457	130.0	2.017
80.0	1.237	110.0	1.717	140.0	2.017
90.0	1.457	120.0	1.717	150.0	2.297

Nalco Energy Services

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: **Nalco Energy Services**

Well Number: BD SWD N18
Lease: Rice Oper.
Location:
Date Run: 3/2/2005
Lab Ref #: 05-mar-n24290

Sample Temp: 70
Date Sampled: 3/1/2005
Sampled by: Mike Carson
Employee #:
Analyzed by: DOM

Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide (H ₂ S)		148.00	16.00	9.25
Carbon Dioxide (CO ₂)	NOT ANALYZED			
Dissolved Oxygen (O ₂)	NOT ANALYZED			

Cations

Calcium (Ca++)		1,929.60	20.10	96.00
Magnesium (Mg++)		439.20	12.20	36.00
Sodium (Na+)		15,667.33	23.00	681.19
Barium (Ba++)				
	NOT ANALYZED			
Manganese (Mn+)		.09	27.50	.00

Anions

Hydroxyl (OH-)		.00	17.00	.00
Carbonate (CO ₃ =)		.00	30.00	.00
BiCarbonate (HCO ₃ -)		1,881.88	61.10	30.80
Sulfate (SO ₄ =)		1,025.00	48.80	21.00
Chloride (Cl-)		27,029.70	35.50	761.40
Total Iron (Fe)		0.23	18.60	.01
Total Dissolved Solids		48,121.04		
Total Hardness as CaCO ₃		6,624.72		
Conductivity MICROMHOS/CM		90,000		

pH 7.220 Specific Gravity 60/60 F. 1.033

CaSO₄ Solubility @ 80 F. 47.11 MEq/L, CaSO₄ scale is: unlikely

CaCO₃ Scale Index

70.0	.953	100.0	1.303	130.0	1.903
80.0	1.093	110.0	1.553	140.0	1.903
90.0	1.303	120.0	1.553	150.0	2.233

Nalco Energy Services

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: **Nalco Energy Services**

Well Number: Fresh Water BD Area
Lease: Rice Oper.
Location:
Date Run: 3/8/2005
Lab Ref #: 05-mar-n24341

Sample Temp: 70
Date Sampled: 3/8/2005
Sampled by: Mike Carson
Employee #:
Analyzed by: DOM

Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide (H ₂ S)		.00	16.00	.00
Carbon Dioxide (CO ₂)	NOT ANALYZED			
Dissolved Oxygen (O ₂)	NOT ANALYZED			

Cations

		Mg/L	Eq. Wt.	MEq/L
Calcium (Ca ⁺⁺)		80.40	20.10	4.00
Magnesium (Mg ⁺⁺)		63.44	12.20	5.20
Sodium (Na ⁺)		202.04	23.00	8.78
Barium (Ba ⁺⁺)	NOT ANALYZED			
Manganese (Mn ⁺)		.16	27.50	.01

Anions

		Mg/L	Eq. Wt.	MEq/L
Hydroxyl (OH ⁻)		.00	17.00	.00
Carbonate (CO ₃ ⁼)		.00	30.00	.00
BiCarbonate (HCO ₃ ⁻)		171.08	61.10	2.80
Sulfate (SO ₄ ⁼)		165.00	48.80	3.38
Chloride (Cl ⁻)		420.46	35.50	11.84
Total Iron (Fe)		0.65	18.60	.03
Total Dissolved Solids		1,103.23		
Total Hardness as CaCO ₃		461.10		
Conductivity MICROMHOS/CM		2,150		

pH 6.790 Specific Gravity 60/60 F. 1.001

CaSO₄ Solubility @ 80 F. 19.71 MEq/L, CaSO₄ scale is unlikely

CaCO₃ Scale Index

70.0	-1.249	100.0	-.899	130.0	-.389
80.0	-1.119	110.0	-.659	140.0	-.389
90.0	-.899	120.0	-.659	150.0	-.159

Nalco Energy Services

PROPOSED WELLBORE SCHEMATIC AND DISPOSAL INTERVAL

		COMPLETION SCHEMATIC		API NUM																																																				
FORM	DEPTH																																																							
Rustler		<table border="1"> <tr> <td colspan="2">OPERATOR</td> <td colspan="2">Rice Operating Company</td> </tr> <tr> <td colspan="2">LEASE NAME</td> <td colspan="2">Blinebry Drinkard</td> </tr> <tr> <td>LOCATION:</td> <td>UL: D</td> <td>SEC: 20</td> <td>TWN: 22S</td> <td>RNG: 37E</td> </tr> <tr> <td></td> <td colspan="2">330' FNL</td> <td colspan="2">660' FWL</td> </tr> <tr> <td>TD 5000'</td> <td>PBD</td> <td>KB</td> <td colspan="2">RKB</td> </tr> <tr> <td>DHC</td> <td colspan="3">GL 3397'</td> </tr> <tr> <td>POOL</td> <td colspan="3">PERFS</td> </tr> <tr> <td>San Andres</td> <td colspan="3">OPEN HOLE 3900'-5000'</td> </tr> <tr> <td>POOL</td> <td colspan="3">PERFS</td> </tr> <tr> <td></td> <td colspan="3">OPEN HOLE</td> </tr> <tr> <td>POOL</td> <td colspan="3">PERFS</td> </tr> <tr> <td></td> <td colspan="3">OPEN HOLE</td> </tr> </table>				OPERATOR		Rice Operating Company		LEASE NAME		Blinebry Drinkard		LOCATION:	UL: D	SEC: 20	TWN: 22S	RNG: 37E		330' FNL		660' FWL		TD 5000'	PBD	KB	RKB		DHC	GL 3397'			POOL	PERFS			San Andres	OPEN HOLE 3900'-5000'			POOL	PERFS				OPEN HOLE			POOL	PERFS				OPEN HOLE		
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	OPEN HOLE																																																							
Yates																																																								
Seven Rivers	2906	TOC																																																						
Queen	3300																																																							
Grayburg	3611																																																							
San Andres	3832	13/38" @ 400' 9 5/8" @ +/- 2500' 7" @ +/- 3900' TD @ +/- 5000' Open hole interval 3900'-5000'																																																						
Lower SA																																																								
Glorietta	5286																																																							

	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	13 3/8"	400'	440 sks.	17 1/2"	Surface
INTER.	9 5/8"	2500'	705 sks.	12 1/4"	Surface
PROD.	7"	3900'	400 sks.	8 3/4"	Surface

Prepared By:

Updated:

BLINEBRY-DRINKARD SWD WELL D-20
330' FNL and 660' FWL, Sec 20, T22S, R37E, Lea Co. New Mexico

GL 3396.5'

17 1/2" Hole

Surface Casing 13 3/8" 48# set @ 400'
 Cmt Circ to Surface

12 1/4" Hole

Intermediate Casing 9 5/8" 36# set @ 2500'
 Cmt Circ to Surface

TBG 5 1/2" with Injection Packer set @ 3875'

8 3/4" Hole

Production Casing 7" 23# set @ 3900'
 Cmt Circ to Surface

Open Hole from 3900' to 5000'

Drawn	BY	RICE OPERATING COMPANY 122 W. TAYLOR Hobbs, New Mexico 88240	BD SWD D-20 PROPOSAL
2/2/2005	JSC		

HALLIBURTON

Job Information

Surface Casing

Blinebry Drinkard SWD

#D-20

17-1/2" Hole

0 - 400 ft (MD)

Inner Diameter

17.500 in

Job Excess

100 %

13-3/8" Surface Casing

0 - 400 ft (MD)

Outer Diameter

13.375 in

Inner Diameter

12.715 in

Linear Weight

48 lbm/ft

Calculations

Cement : (400.00 ft fill)

$400.00 \text{ ft} * 0.6946 \text{ ft}^3/\text{ft} * 100 \%$

$= 555.71 \text{ ft}^3$

Primary Cement

$= 555.71 \text{ ft}^3$

$= 98.98 \text{ bbl}$

Shoe Joint Volume: (40.00 ft fill)

$40.00 \text{ ft} * 0.8818 \text{ ft}^3/\text{ft}$

$= 35.27 \text{ ft}^3$

$= 6.28 \text{ bbl}$

Tail plus shoe joint

$= 590.98 \text{ ft}^3$

$= 105.26 \text{ bbl}$

Total Tail

$= 440 \text{ sks}$

Job Recommendation

Surface Casing

Install floating equipment, run casing to bottom, and circulate minimum of 2-3 hole volumes prior to cementing as follows:

Fluid Instructions

Fluid 1: Precede cement with 20 bbls
Fresh Water

Fluid Volume: 20 bbl

Fluid 2: Mix and pump 440 sks

Premium Plus Cement

94 lbm/sk Premium Plus Cement (Cement)
2 % Calcium Chloride (Accelerator)

Fluid Weight 14.80 lbm/gal

Slurry Yield: 1.34 ft³/sk

Total Mixing Fluid: 6.34 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 400 ft

Volume: 105.26 bbl

Calculated Sacks: 440.05 sks

Proposed Sacks: 440 sks

HALLIBURTON

Job Information

Intermediate Casing

Blinebry Drinkard SWD

#D-20

13-3/8" Surface Casing	0 - 400 ft (MD)
Outer Diameter	13.375 in
Inner Diameter	12.715 in
Linear Weight	48 lbm/ft
Job Excess	10 %

12-1/4" Hole	400 - 2500 ft (MD)
Inner Diameter	12.250 in
Job Excess	100 %

9-5/8" Intermediate Casing	0 - 2500 ft (MD)
Outer Diameter	9.625 in
Inner Diameter	8.921 in
Linear Weight	36 lbm/ft

Calculations

Cement : (2102.00 ft fill)

400.00 ft * 0.3765 ft ³ /ft * 10 %	= 165.66 ft ³
1702.00 ft * 0.3132 ft ³ /ft * 100 %	= 1066.09 ft ³
Total Lead Cement	= 1231.75 ft ³
	= 219.38 bbl
Sacks of Cement	= 503 sks

Cement : (398.00 ft fill)

398.00 ft * 0.3132 ft ³ /ft * 100 %	= 249.30 ft ³
Tail Cement	= 249.30 ft ³
	= 44.40 bbl

Shoe Joint Volume: (40.00 ft fill)

40.00 ft * 0.4341 ft ³ /ft	= 17.36 ft ³
	= 3.09 bbl
Tail plus shoe joint	= 266.66 ft ³
	= 47.49 bbl
Total Tail	= 200 sks

Job Recommendation

Intermediate Casing

Install floating equipment, run casing to bottom, and circulate minimum of 2-3 hole volumes prior to cementing as follows:

Fluid Instructions

Fluid 1: Precede cement with 20 bbls
Fresh Water

Fluid Volume: 20 bbl

Fluid 2: Lead with 505 sks
Interfill "C" Cement

Fluid Weight 11.90 lbm/gal
Slurry Yield: 2.45 ft³/sk
Total Mixing Fluid: 14.12 Gal/sk
Top of Fluid: 0 ft
Calculated Fill: 2102 ft
Volume: 219.36 bbl
Calculated Sacks: 502.90 sks
Proposed Sacks: 505 sks

Fluid 3: Tail-in with 200 sks

Premium Plus Cement

94 lbm/sk Premium Plus Cement (Cement)
1 % Calcium Chloride (Accelerator)

Fluid Weight 14.80 lbm/gal
Slurry Yield: 1.33 ft³/sk
Total Mixing Fluid: 6.33 Gal/sk
Top of Fluid: 2102 ft
Calculated Fill: 398 ft
Volume: 47.52 bbl
Calculated Sacks: 200 sks
Proposed Sacks: 200 sks

HALLIBURTON

Job Information

Production Casing

Blinebry Drinkard SWD

#D-20

9-5/8" Intermediate Casing

0 - 2500 ft (MD)

Outer Diameter

9.625 in

Inner Diameter

8.921 in

Linear Weight

36 lbm/ft

8-3/4" Hole

2500 - 3900 ft (MD)

Inner Diameter

8.750 in

Job Excess

50 %

7" Production Casing

0 - 3900 ft (MD)

Outer Diameter

7.000 in

Inner Diameter

6.366 in

Linear Weight

23 lbm/ft

Calculations

Cement : (2900.00 ft fill)

2500.00 ft * 0.1668 ft³/ft * 10 % = 458.73 ft³

400.00 ft * 0.1503 ft³/ft * 50 % = 90.20 ft³

Total Lead Cement = 548.93 ft³

= 97.77 bbl

Sacks of Cement = 224 sks

Cement : (1000.00 ft fill)

1000.00 ft * 0.1503 ft³/ft * 50 % = 225.50 ft³

Tail Cement = 225.50 ft³

= 40.16 bbl

Shoe Joint Volume: (40.00 ft fill)

40.00 ft * 0.221 ft³/ft = 8.84 ft³

= 1.57 bbl

Tail plus shoe joint = 234.34 ft³

= 41.74 bbl

Total Tail = 173 sks

Job Recommendation

Production Casing

Install floating equipment, run casing to bottom, and circulate minimum of 2-3 hole volumes prior to cementing as follows:

Fluid Instructions

**Fluid 1: Precede cement with 20 bbls
Fresh Water**

Fluid Volume: 20 bbl

**Fluid 2: Lead with 225 sks
Interfill "C" Cement**

**Fluid Weight 11.90 lbm/gal
Slurry Yield: 2.45 ft³/sk
Total Mixing Fluid: 14.12 Gal/sk
Top of Fluid: 0 ft
Calculated Fill: 2900 ft
Volume: 97.77 bbl
Calculated Sacks: 224.14 sks
Proposed Sacks: 225 sks**

**Fluid 3: Tail-in with 175 sks
Premium Plus Cement**

**94 lbm/sk Premium Plus Cement (Cement)
2 lbm/sk Salt (Salt)
0.4 % LAP-1 (Low Fluid Loss Control)
0.3 % CFR-3 (Dispersant)
0.25 lbm/sk D-AIR 3000 (Defoamer)**

**Fluid Weight 14.80 lbm/gal
Slurry Yield: 1.36 ft³/sk
Total Mixing Fluid: 6.40 Gal/sk
Top of Fluid: 2900 ft
Calculated Fill: 1000 ft
Volume: 41.74 bbl
Calculated Sacks: 172.69 sks
Proposed Sacks: 175 sks**

LEASE OWNER, SURFACE OWNER AND OFFSET OPERATORS

Surface Owner

State of New Mexico
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504

Grazing Lessee

Millard Deck Estate
Harding & Carbone
3903 Bel Air Blvd.
Houston, TX 77025

Lease Holder

Exxon Mobil Corporation
800 Bell St.
Houston, TX 77002

Offset Operators

Louis Dreyfus Natural Gas Inc.
11304 W IH 20E
Midland, TX 79765

Bettis, Boyle & Stoval
P.O. Box 1240
Graham, TX 76450

Finley Resources Inc.
1308 Lake Street, Suite 200
Ft. Worth, TX 76105

GP II Energy, Inc.
P.O. Box 50682
Midland, TX 79710

XTO Energy
3000 N. Garfield, Suite 175
Midland, TX 79705

Zia Energy, Inc.
P.O. Box 2510
Hobbs, NM 88241

Campbell & Hedrick
P.O. Box 401
Midland, TX 79702



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

State of New Mexico
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504

Attn: Cody Morrow

RE: Blinebry Drinkard SWD D-20
Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

Dear Cody:

In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108 Application for Authorization to Inject into the above captioned well.

Any questions about the permit can be directed to Ellis Gray, 432-685-9158. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is P.O. Box 6429, 1220 S. Saint Francis Drive, Santa Fe, NM 87504, 505-476-3440.

Thank you,

A handwritten signature in cursive script that reads 'Ellis Gray'. Below the signature, the name 'Ellis Gray' is printed in a simple, sans-serif font.

Ellis Gray



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

Millard Deck Estate
Harding & Cargone
3903 Bel Air Blvd.
Houston, TX 77025

RE: Blinebry Drinkard SWD D-20
Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

To Whom It May Concern:

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Thank you,

A handwritten signature in cursive script that reads 'Ellis Gray'.

Ellis Gray



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

Exxon Mobil Corporation
800 Bell St.
Houston, TX 77002

RE: Blinebry Drinkard SWD D-20
Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

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Thank you,

A handwritten signature in black ink, appearing to read 'Ellis Gray', is written over the 'Thank you,' text.

Ellis Gray



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

Louis Dreyfus Natural Gas Inc.
11304 W. IH 20E
Midland, TX 79765

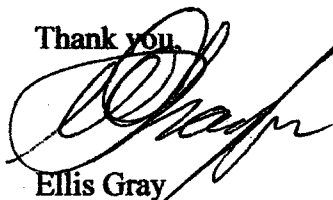
RE: Blinebry Drinkard SWD D-20
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Thank you.



Ellis Gray



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

Bettis, Boyle & Stoval
P.O. Box 1240
Graham, TX 76450

RE: Blinebry Drinkard SWD D-20
Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

To Whom It May Concern:

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303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

GP II Energy, Inc.
P.O. Box 50682
Midland, TX 79710

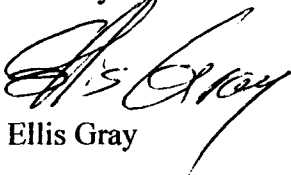
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Thank you,



Ellis Gray



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

Finley Resources Inc.
1308 Lake Street, Suite 200
Ft. Worth, TX 76105

RE: Blinebry Drinkard SWD D-20
Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

To Whom It May Concern:

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Thank you,



Ellis Gray



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

XTO Energy
3000 N. Garfield, Suite 175
Midland, TX 79705

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Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

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Ellis Gray



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

Zia Energy, Inc.
P.O. Box 2510
Hobbs, NM 88241

RE: Blinebry Drinkard SWD D-20
Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

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Ellis Gray



303 Skywood Circle
Midland, TX 79705
Tel: (432) 685-9158

February 23, 2005

Campbell & Hedrick
P.O. Box 401
Midland, TX 79702

RE: Blinebry Drinkard SWD D-20
Unit D, Section 20, T-22-S, R-37-E
Lea Co., NM

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Thank you,

Ellis Gray

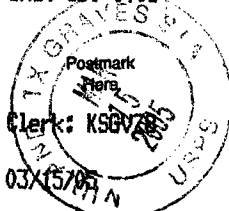
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Houston, TX 77025

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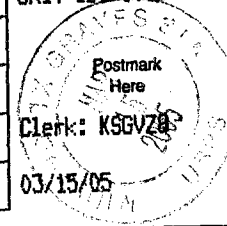
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City, State, ZIP+4
Santa Fe, NM 87504

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Louis Dreyfus Natural Gas Inc.
Street, Apt. No.;
or PO Box No. 11304 W. IH 20E
City, State, ZIP+4
Midland, TX 79705

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.03



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Exxon Mobil Corporation
Street, Apt. No.;
or PO Box No. 800 Bell St.
City, State, ZIP+4
Houston, TX 77002

PS Form 3800, June 2002

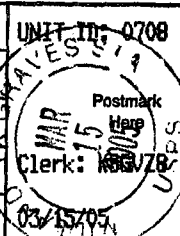
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Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.03



Sent To
Finley Resources Inc.
Street, Apt. No.;
or PO Box No. 1308 Lake Street, Suite 200
City, State, ZIP+4
Ft Worth, TX 76105

PS Form 3800, June 2002

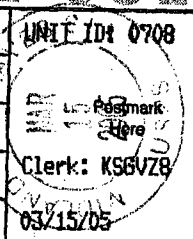
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Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.03



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Street, Apt. No.;
or PO Box No. P.O. Box 1240
City, State, ZIP+4
Graham, TX 76450

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Return Receipt Fee (Endorsement Required)	1.75	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.03	

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G.P.E.I. Energy, Inc.
 Street, Apt. No.,
 or PO Box No. **P.O. Box 5082**
 City, State, ZIP+4
Midland TX 79702

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OFFICIAL USE

MIDLAND, TX 79702

Postage	\$ 1.98	UNIT ID: 0708 MAR 15 2005 Postmark Here Clerk: KSGVZB 03/15/05
Certified Fee	2.30	
Return Receipt Fee (Endorsement Required)	1.75	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.03	

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Cumby + Hedrick
 Street, Apt. No.,
 or PO Box No. **P.O. Box 401**
 City, State, ZIP+4
Midland TX 79702

PS Form 3800, June 2002

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OFFICIAL USE

HOBBS, NM 88241

Postage	\$ 1.98	UNIT ID: 0708 MAR 15 2005 Postmark Here Clerk: KSGVZB 03/15/05
Certified Fee	2.30	
Return Receipt Fee (Endorsement Required)	1.75	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.03	

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Zia Energy Inc.
 Street, Apt. No.,
 or PO Box No. **P.O. Box 2570**
 City, State, ZIP+4
Hobbs NM 88241

PS Form 3800, June 2002

See Reverse for Instructions

U.S. Postal Service™

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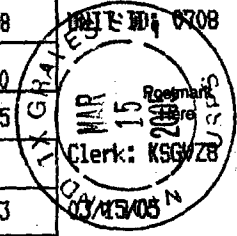
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For delivery information visit our website at www.usps.com

OFFICIAL USE

MTL ENCL TX 79705

Postage	\$	1.98
Certified Fee		2.30
Return Receipt Fee (Endorsement Required)		1.75
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	6.03



Sent To
XTO Energy
Street, Apt. No.,
or PO Box No. 300 N GARFIELD Suite 175
City, State, ZIP+4
Midland TX 79705

PS Form 3800, June 2002

See Reverse for Instructions

4605 0244 0000 09TT 4002