

Initial Application Part I

Received on 5/20/20

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

AA1EK-200520-C-1080

Revised March 23, 2017

RECEIVED: 5/20/20	REVIEWER:	TYPE: SWD	APP NO: pBL2014230588
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: Hayden Holub

OGRID Number: 019174

Well Name: B-18

API: 30-025-pending

Pool: SWD; San Andres

Pool Code: 96121

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

SWD-2383

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☒ SWD☐ IPI☐ EOR☐ PPR2) **NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐

Notice Complete

☐Application
Content
Complete

3) **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.

Hayden Holub

Print or Type Name

Signature

04-27-2020

Date

(575)393-9174

Phone Number

hholub@riceswd.com

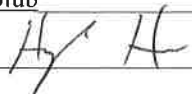
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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


FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Rice Operating Company
ADDRESS: 112 W Taylor Hobbs, NM 88240
CONTACT PARTY: Hayden Holub PHONE: 575-393-9174
- 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: Hayden Holub TITLE: Operations Manager
SIGNATURE:  DATE: 04-27-2020
E-MAIL ADDRESS: hholub@riceswd.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Proposed SWD Well—B-18

- I. Disposal
- II. Operator: Rice Operating Company Address: 112 W Taylor, Hobbs, NM 88240
Contact Party: Hayden Holub Phone: 575-393-9174
- III. Attached (Proposed inj. well data, tabulations, construction, and completion)
- IV. No
- V. Attached (2mi identification w/ .5mi circle for area of review)
- VI. Tabulation of 11 wells that Penetrate Proposed Injection Interval w/ 2 Plugged wells and their Schematics attached.
- VII.
 - 1. Average rate 1,100bbls/hr(26,400/day) & Maximum rate 1,875 bbls/hr(45k/day)
 - 2. Closed
 - 3. Average pressure 0, maximum pressure 1,000psi or the max allowed by the OCD.
 - 4. Sources attached with all fluids being oilfield produced water
 - 5. No known disposal zone formation water available within the one mile of the proposed swd well. Attached is an analysis of know formation water. Location approx. 7 mi NE of proposed well. The Rice Operating wells, N-18, .65mi SW and D-20, .97mi SE of proposed swd well have disposed millions of barrels of produced water into the San Andres for well over 15yrs without any problems.
- VIII. Lithology record attached. Disposal zone is San Andres (Top 3870', next formation top is Glorieta @ 5073') Ogallala no deeper than 250' and No known sources of drinking water underlying the injection zone.
- IX. Acidize w/ 5,000 gal HCL 15% NEFE as needed.
- X. New Drill
- XI. No known water wells within the 1mile radius of proposed SWD Well
- XII. Attached is an affirmative statement from Jeb Watts with TASMAN Geosciences that he has examined and reviewed all available geological and engineering data to find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Attached (proof of notice)
- XIV. Name: Hayden Holub Title: Operations Manager
Signature:  Date 4-27-2020
Email: hholub@riceswd.com

DISTRICT I1625 N. French Dr., Hobbs, NM 88240
Phone (505) 388-6161 Fax (505) 388-0780**DISTRICT II**811 S. First St., Artesia, NM 88210
Phone (505) 748-1888 Fax (505) 748-0780**DISTRICT III**1000 Rio Bravos Rd., Artec, NM 87410
Phone (505) 384-6178 Fax (505) 384-6170**DISTRICT IV**1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3468**State of New Mexico**
Energy, Minerals and Natural Resources Department**OIL CONSERVATION DIVISION**1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office**WELL LOCATION AND ACREAGE DEDICATION PLAT**☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name B-18	Well Number 1
OGRID No.	Operator Name RICE OPERATING COMPANY	Elevation 3417'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	18	22 S	37 E		950	NORTH	1580	EAST	LEA

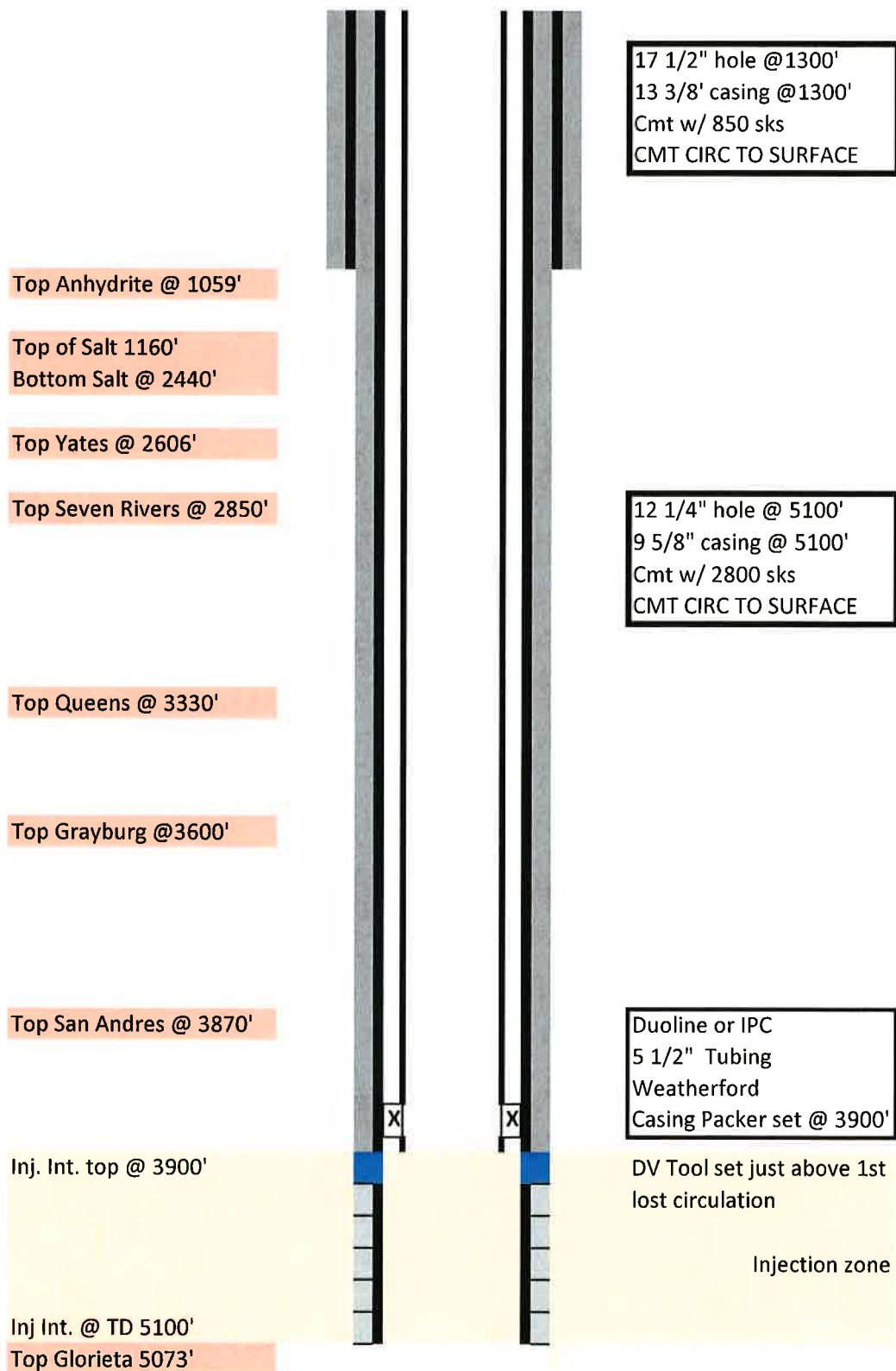
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>N.: 510754.5 E.: 887608.7 (NAD83)</p> <p>N.: 510792.0 E.: 893094.4 (NAD83)</p> <p>950'</p> <p>1580'</p> <p>SURFACE LOCATION Lat - N 32.396485' Long - W 103.198771' NMSPCE- N 509830.8 E 891526.4 (NAD-83)</p> <p>N.: 505516.4 E.: 893163.0 (NAD83)</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>Email Address _____</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JULY 30, 2015</p> <p>Date Surveyed _____</p> <p>Signature & Seal of Professional Surveyor _____</p> <p>Certificate No. 7977</p> <p>Basin Summary _____</p> <p>0' 500' 1000' 1500' 2000'</p> <p>SCALE: 1" = 1000'</p> <p>WO Num.: 35092</p>
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Rice Operating Co.
Drilled for injection/SWD B-18
Unit letter B Sec. 18 T22S R37E
950' FNL 1580' FEL



Side 1

INJECTION WELL DATA SHEET

OPERATOR: Rice Operating CompanyWELL NAME & NUMBER: B-18

WELL LOCATION: 950' FNL 1580' FEL B 18 22S 37E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC
WELL CONSTRUCTION DATA
Surface Casing
Hole Size: 17 1/2"Casing Size: 13 3/8"Cemented with: 850 sx.or _____ ft³Top of Cement: SurfaceMethod Determined: Sight/Circ.Intermediate Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____

Method Determined: _____

Production CasingHole Size: 12 1/4"Casing Size: 9 5/8"Cemented with: 3300 sx.or _____ ft³Top of Cement: SurfaceMethod Determined: Sight/Circ.Total Depth: 5100'Injection Interval

_____ 3900 _____ feet to 5100' perforated _____

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 5 1/2" Lining Material: IPC or DuolineType of Packer: Weatherford Casing PackerPacker Setting Depth: 3895'Other Type of Tubing/Casing Seal (if applicable): N/AAdditional 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

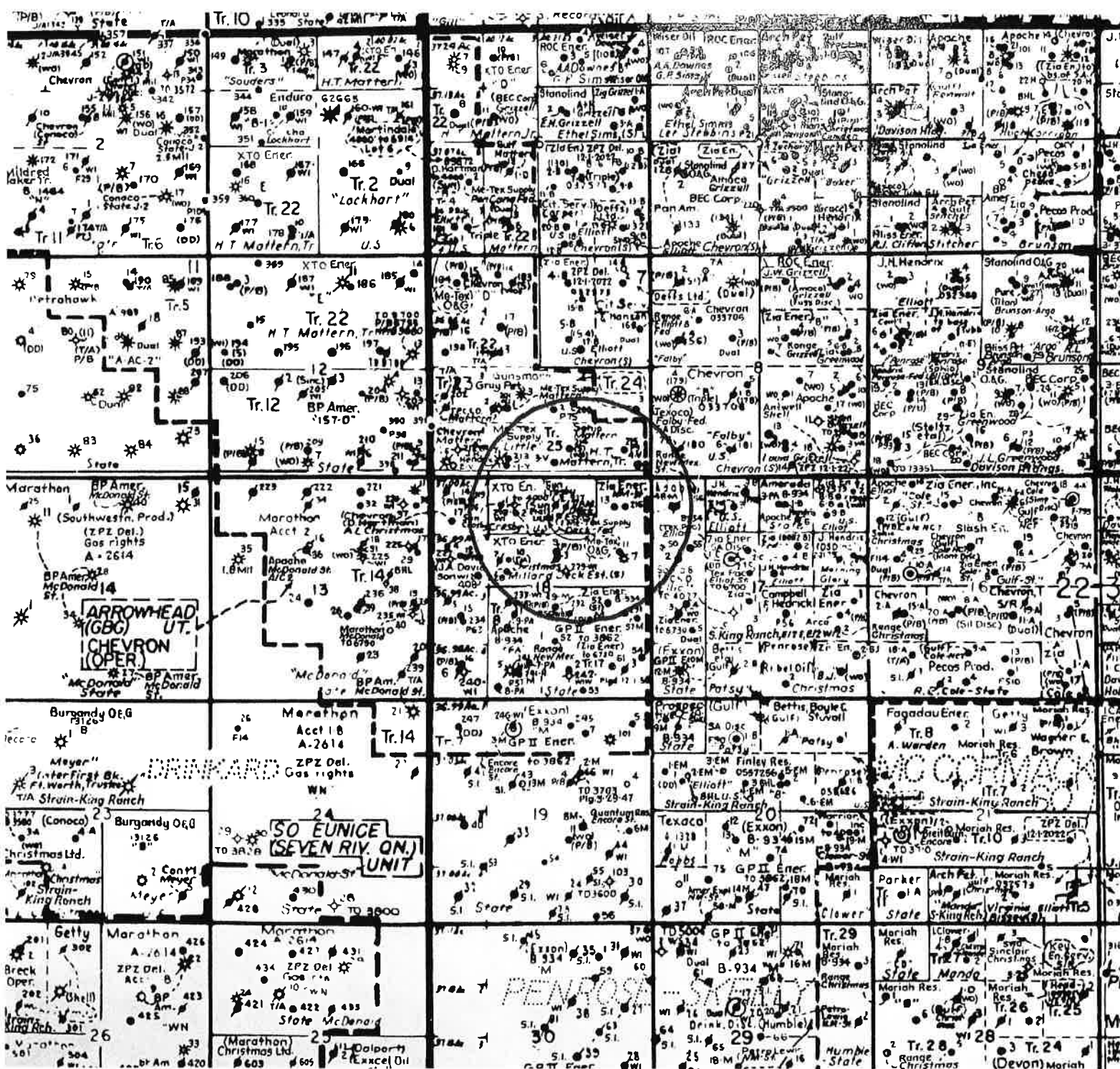
3. Name of Field or Pool (if applicable): SWD; San Andres

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: _____

Grayburg @ 3600'

Glorieta @ 5073'



Me-Tex Oil and Gas Little V #1 30-025-25891 Active Oil	8 5/8" csg in 12 1/2" hole @ 1145' CMT w/ 575 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6753' CMT w/ 1750 sks Circulated	Spud Date 4-5-78	N-07-22S-37E 330' FSL 1700' FWL	TD 6769'	2 3/8" TBG perf @ 6471'-6607'
Me-Tex Oil and Gas Little V #3 025-26320 Active Oil	8 5/8" csg in 12 1/4" hole @ 1060' CMT w/ 540 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6744' CMT w/ 1725 sks Circulated	Spud Date 5-31-79	O-07-22S-37E 380' FSL 2310' FEL	TD 6744'	2 3/8" TBG perf @ 6473'-6653'
Me-Tex Oil and Gas Little V #4 30-025-26471 Active Oil	8 5/8" csg in 12 1/4" hole @ 1050' CMT w/ 575 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6743' CMT w/ 1700 sks Circulated	Spud Date 10-6-79	P-07-22S-37E 330' FSL 330' FEL	TD 6756'	2 3/8" TBG perf @ 6378'-6612'
Me-Tex Oil and Gas Deck Federal #2 30-025-25666 Active Oil	8 5/8" csg in 11 1/4" hole @ 1092' CMT w/ 500 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6761' CMT w/ 1505 sks Circulated	Spud Date 12-26-77	C-18-22S-37E 860' FNL 1980' FWL	TD 6761'	2 3/8" TBG @ 6430 perf @ 6466'-6576'
Me-Tex Oil and Gas Deck Federal #1 30-025-25665 Active Oil	8 5/8" csg in 11 1/4" hole @ 1068' CMT w/ 375 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6726' CMT w/ 1650 sks Circulated	Spud Date 12-6-77	B-18-22S-37E 890' FNL 2210' FEL	TD 6765'	2 3/8" TBG @ 6420' perf @ 6439'-6600 perf @ 5460'-5988'
XTO Energy, Inc A L Christmas NCT C #13 30-025-25634 Active Oil	8 5/8" csg in 12 1/4" hole @ 1107' CMT w/ 500 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6700' CMT w/ 2025 sks Circulated	Spud Date 8-27-77	A-18-22S-37E 660' FNL 850' FEL	TD 6710'	2 3/8" TBG @ 6404' perf @ 6455'-6575 perf @ 5423'-5536' perf @ 6136'-6202'

Grizzly Operating, LLC New Mexico M State #48 30-025-26014 Active Oil	8 5/8" csg in 12 1/4" hole @ 1072' CMT w/ 620 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6221 CMT w/ 1615 sks Circulated	Spud Date 7-14-78	D-17-22S-37E 660' FNL 560' FWL	TD 6730'	2 3/8" TBG @ 6325' perf @ 6404'-6560' perf @ 6095'-6227' perf @ 5496'-6045'
XTO Energy, Inc A L Christmas NCT C #10 30-025-25530 PA'd ATTACHED WBD	8 5/8" csg in 12 1/4" hole @ 1118' CMT w/ 550 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6710' CMT w/ 2077 sks Circulated	Spud Date 5-20-77	F-18-22S-37E 1950' FNL 1845' FWL	TD 6710'	PA Schematic ATTACHED perf 6410'-6603' perf 5432'-5583' perf 3409'-3567'
XTO Energy, Inc A L Christmas NCT C #9 30-025-25499 Active Oil	8 5/8" csg in 12 1/4" hole @ 1125' CMT w/ 550 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6750' CMT w/ 1310 sks Circulated	Spud Date 4-3-77	G-18-22S-37E 1980' FNL 2166' FEL	TD 6750'	2 3/8" TBG @ 3577 perf @ 6437'-6591 PBSD CIBP @ 5400' w/ 35' sand perf 3430'-3566'
XTO Energy, Inc A L Christmas NCT C #11 30-025-25594 Active Oil	8 5/8" csg in 12 1/4" hole @ 1092' CMT w/ 500 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6700' CMT w/ 1975 sks Circulated	Spud Date 7-23-77	H-18-22S-37E 1780' FNL 810' FEL	TD 6700'	2 3/8" TBG @ 5852' perf @ 6412'-6610' CIBP @ 6390' w/ 50 sks cmt to 6365' producing perf @ 5422'-5760'
Grizzly Operating, LLC New Mexico M State #50 30-025-37354 Active Oil	8 5/8" csg in 12 1/4" hole @ 1217' CMT w/ 610 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6714' CMT w/ 600 sks Est min toc 2060'	Spud Date 8-19-05	E-17-22S-37E 1650' FNL 330' FWL	TD 6721'	2 7/8" TBG @ 6625' perf @ 6463'-6570 perf @ 5856'-5948' perf @ 5471'-5610'

Grizzly Operating, LLC New Mexico M State #49 30-025-26015 PA'd ATTACHED WBD	8 5/8" csg in 12 1/4" hole @ 1073' CMT w/ 620 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6719' CMT w/ 1260 sks Est toc 1200'	Spud Date 7-30-78	J-18-22S-37E 2160' FSL 2310' FEL	TD 6730'	PA Schematic ATTACHED perf @ 6432'-6578' CIBP @ 5400' perf @ 5467'-6734' 20' CMT on top perf @ 5096'-5118' CIBP @ 5050' perf @ 3864'-3898' 10' CMT on top CIBP @ 3745' 35sks cmt to 3500' perf @ 1300 circ 350 sks to surface thru annulus & displace in 5 1/2" csg to 632' CMT 5 1/2' csg w/ 40sks from 350' to surface
Grizzly Operating, LLC New Mexico M State #51 30-025-37355 Active Oil	8 5/8" csg in 12 1/4" hole @ 1195' CMT w/ 610 sks Circulated 5 1/2" csg in 7 7/8" hole @ 6800 CMT w/ 720 sks toc @ 3000' perf & squeezed cmt 2405 to surface	Spud Date 9-1-05	I-18-22S-37E 2310' FSL 990' FEL	TD 6820'	2 7/8" TBG @ 5652' perf @ 6273'-6576' perf @ 5496'-5606'

XTO Energy, Inc
 A L Christmas NCT C #10
 30-025-25530
 F-18-22S-37E 1950' FNL 1845' FWL
 Spud 5/20/77 PA'd 3/20/2019

CMT 313'-Surface

40 sk
plug

8 5/8" CSG in 12 1/4"
 Hole @ 1118'
 CMT w/ 550 sks
 CIRCULATED

Perf @ 1168' CMT 1168'-923'

25 sk
perf &
plug

5 1/2" CSG in 7 7/8"
 Hole @ 6710'
 CMT w/ 2077 sks
 CIRCULATED

CMT 2612'-2365'

25 sk
plug

CMT 3327'-3079'

25 sk
plug

CMT 3582'-3327'

25 sk
plug

CMT 3923'-3582'

40 sk
plug

CMT 5288'-4610'

60 sk
plug

CIBP set @ 5315' w/ toc @
5288'

CIBP
27' cmt

CIBP set @ 5432' w/ 4sks cmt
toc @ 5394'

CIBP
4 sk on
top

CIBP set @ 6615'

CIBP

PBTD

6680'

perf @ 6410'-6603'
 perf @ 5432'-5583'
 perf @ 3409'-3567'

Anhydrite 1110'

Salt 1285'

Salt 2351'

Yates 2595'

7 Rivers 2837'

Queen 3302'

Grayburg 3588'

San Andre: 3872'

Glorieta 5078'

Blaine 5400'

Tubb 6132'

Drinkard 6422'

6710' TD

Grizzly Operating, LLC
 New Mexico M State #49
 30-025-26015
 J-18-22S-37E 2160' FSL 2310' FEL
 Spud 7/30/78 PA'd 2/28/2014

CMT 350'-Surface

40 sk
plug

8 5/8" CSG in 12 1/4"
 Hole @ 1073'
 CMT w/ 620 sks
 CIRCULATED

Perf @ 1300' circ 350 sks up
 annulus to surface: left cmt in
 5 1/2" csg @ 632'

350 sks
cmt

5 1/2" CSG in 7 7/8"
 Hole @ 6719'
 CMT w/ 1260 sks
 Est. Top CMT @
 1200'

CIBP set @ 3745' w/ 35sks
 3745'-3500'

35 sks
on
CIBP

Squeezed old perfs @ 3828-
 3909 w/ 300sks

CIBP set @ 5050' w/ 10'cmt

CIBP

perf @ 6432'-6578'
 perf @ 5467'-6734'
 perf @ 5096'-5118'
 perf @ 3864'-3898'

CIBP set @ 5400' w/ 20' cmt

CIBP

CIBP set @ 6120' w/ 35' cmt

CIBP

CIBP set @ 6359' w/ 35' cmt

CIBP

6730' TD

Anhydrite 1104'
 Salt 1202'
 Salt 2420'
 Yates 2595'
 7 Rivers 2837'
 Queen 3302'
 Grayburg 3588'
 San Andre: 3872'
 Glorieta 5078'
 Blinbry 5400'
 Tubb 6099'
 Drinkard 6411'

wellname	api	section	township	range	unit	formation	ph	tds_mgL
SALADO DRAW 6 FEDERAL #001H	3002541293	6	26S	34E	M	BONE SPRING 3RD SAND	6.5	99612.7
RAGIN CAJUN 13 FEDERAL #001H	3002541259	13	26S	34E	N	DELAWARE-BRUSHY CANYON	6.2	194590.2
BELLOQ 2 STATE #002H	3001542895	2	23S	31E	C	WOLFCAMP	6.8	119471.8
HUGH #006	3002510262	14	22S	37E	H	TUBB	6.2	191032
WALTER LYNCH #002	3002509943	1	22S	37E	L	PADDOCK	7	75398
ANNIE CHRISTMAS #001	3002509937	1	22S	37E	N	BLINEBRY	5.8	133356
SOUTH PENROSE SKELLY #181	3002510119	8	22S	37E	N	GRAYBURG		16937
LANGLIE MATTIX PENROSE SAND UNIT	3002510497	28	22S	37E	J	QUEEN	9.01	50414.3
HAT MESA #001	3002524403	14	21S	32E	H	MORROW	6.4	271555
LOU WORTHAM #005	3002523606	11	22S	37E	C	SAN ANDRES	7.35	18587.3

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 Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Form C-105 Revised June 10, 2003	
WELL API NO. 30-025-37146		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		State Oil & Gas Lease No. B11349	
WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____			7. Lease Name or Unit Agreement Name STATE 10		
b. Type of Completion: NEW <input checked="" type="checkbox"/> WORK <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG <input type="checkbox"/> DIFF. <input type="checkbox"/> WELL OVER BACK RESVR. <input type="checkbox"/> OTHER _____			8. Well No. 4		
2. Name of Operator LEWIS B. BURLESON, INC.			9. Pool name or Wildcat HARE (SAN ANDRES) EAST		
3. Address of Operator P.O. BOX 2479 MIDLAND, TEXAS 79702					
4. Well Location Unit Letter D 467 Feet From The N Line and 467 Feet From The W Line Section 10 Township 21S Range 37E NMPM LEA County					
10. Date Spudded 05/25/2005		11. Date T.D. Reached 06/05/2005		12. Date Compl. (Ready to Prod.) 10/01/2005	
				13. Elevations (DF& RKB, RT, GR, etc.) 3469 GR	
14. Elev. Casinghead					
15. Total Depth 5510		16. Plug Back T.D. 4325		17. If Multiple Compl. How Many Zones? CAP STAR X	
18. Intervals Drilled By		Rotary Tools		Cable Tools	
19. Producing Interval(s), of this completion - Top, Bottom, Name 4011-4113 SAN ANDRES Used for formation sample		20. Was Directional Survey Made YES			
21. Type Electric and Other Logs Run GRN		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	
8-5/8		24#		1284	
12-1/4		595 C		7-7/8	
5-1/2		15.5#		785 C	
24. LINER RECORD					
SIZE		TOP		BOTTOM	
SACKS CEMENT		SCREEN			
25. TUBING RECORD					
SIZE		DEPTH SET		PACKER SET	
2-3/8		4150			
26. Perforation record (interval, size, and number) 4011-4113 21 HOLES					
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
4011-4113		10,000 GAL ACID			
28. PRODUCTION					
Date First Production 10/01/2005		Production Method (Flowing, gas lift, pumping - Size and type pump) PUMPING 2-1/2X2X16 RHBC		Well Status (Prod. or Shut-in) PROD	
Date of Test 10/01/2005		Hours Tested 24		Choke Size	
Prod'n For Test Period		Oil - Bbl 10		Gas - MCF 40	
Water - Bbl. 285		Gas - Oil Ratio 4000:1			
Flow Tubing Press. N/A		Casing Pressure 65		Calculated 24-Hour Rate	
Oil - Bbl. 10		Gas - MCF 40		Water - Bbl. 285	
Oil Gravity - API - (Corr.) 32					
29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD				Test Witnessed By STEVEN L. BURLESON	
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					
Signature [Signature]		Printed Name STEVEN L. BURLESON		Title VICE-PRESIDENT	
E-mail Address GEOTTECH@PRODIGY.NET				Date 10/20/2005	



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 26, 2018

HAYDEN HOLUB
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: O-34 SWD WELL

Enclosed are the results of analyses for samples received by the laboratory on 06/20/18 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accr_cred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Rice Operating Company 112 W. Taylor Hobbs NM, 88240	Project: O-34 SWD WELL Project Number: SEC. 34, T20S, R37E Project Manager: HAYDEN HOLUB Fax To: (575) 397-1471	Reported: 26-Jun-18 11:00
--	--	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SAN ANDRES FORMATION WATER	H801687-01	Wastewater	19-Jun-18 17:30	20-Jun-18 15:20

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Rice Operating Company
112 W. Taylor
Hobbs NM, 88240

Project: O-34 SWD WELL
Project Number: SEC. 34, T20S, R37E
Project Manager: HAYDEN HOLUB
Fax To: (575) 397-1471

Reported:
26-Jun-18 11:00

SAN ANDRES FORMATION WATER**H801687-01 (Wastewater)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	2760		5.00	mg/L	1	8061805	AC	22-Jun-18	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	8061805	AC	22-Jun-18	310.1	
Chloride*	9200		4.00	mg/L	1	8062006	AC	21-Jun-18	4500-Cl-B	
Conductivity*	26900		1.00	uS/cm	1	8062108	AC	21-Jun-18	120.1	
pH*	7.96		0.100	pH Units	1	8062108	AC	21-Jun-18	150.1	
Resistivity	0.372			Ohms/m	1	8062108	AC	21-Jun-18	120.1	
Specific Gravity @ 60° F	1.012		0.000	[blank]	1	8062110	AC	22-Jun-18	SM 2710F	
Sulfate*	55.0		25.0	mg/L	2.5	8062112	AC	22-Jun-18	375.4	
TDS*	17700		5.00	mg/L	1	8062115	AC	25-Jun-18	160.1	
Alkalinity, Total*	2270		4.00	mg/L	1	8061805	AC	22-Jun-18	310.1	

Green Analytical Laboratories**Total Recoverable Metals by ICP (E200.7)**

Barium*	4.91		2.50	mg/L	50	B806183	JDA	22-Jun-18	EPA200.7	
Calcium*	561		5.00	mg/L	50	B806183	JDA	22-Jun-18	EPA200.7	
Iron*	<2.50		2.50	mg/L	50	B806183	JDA	22-Jun-18	EPA200.7	
Magnesium*	260		5.00	mg/L	50	B806183	JDA	22-Jun-18	EPA200.7	
Potassium*	271		50.0	mg/L	50	B806183	JDA	22-Jun-18	EPA200.7	
Sodium*	4950		50.0	mg/L	50	B806183	JDA	22-Jun-18	EPA200.7	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Rice Operating Company
112 W. Taylor
Hobbs NM, 88240

Project: O-34 SWD WELL
Project Number: SEC. 34, T20S, R37E
Project Manager: HAYDEN HOLUB
Fax To: (575) 397-1471

Reported:
26-Jun-18 11:00

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8061805 - General Prep - Wet Chem**Blank (8061805-BLK1)**

Prepared: 18-Jun-18 Analyzed: 19-Jun-18

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	10.0	5.00	mg/L							
Alkalinity, Total	8.00	4.00	mg/L							

LCS (8061805-BS1)

Prepared: 18-Jun-18 Analyzed: 19-Jun-18

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120			
Alkalinity, Total	260	10.0	mg/L	250		104	80-120			

LCS Dup (8061805-BSD1)

Prepared: 18-Jun-18 Analyzed: 19-Jun-18

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	0.00	20	

Batch 8062006 - General Prep - Wet Chem**Blank (8062006-BLK1)**

Prepared: 20-Jun-18 Analyzed: 21-Jun-18

Chloride	ND	4.00	mg/L							
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LCS (8062006-BS1)

Prepared: 20-Jun-18 Analyzed: 21-Jun-18

Chloride	100	4.00	mg/L	100		100	80-120			
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LCS Dup (8062006-BSD1)

Prepared: 20-Jun-18 Analyzed: 21-Jun-18

Chloride	100	4.00	mg/L	100		100	80-120	0.00	20	
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Batch 8062108 - General Prep - Wet Chem**LCS (8062108-BS1)**

Prepared & Analyzed: 21-Jun-18

Conductivity	97300		uS/cm	100000		97.3	80-120			
pH	7.09		pH Units	7.00		101	90-110			

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Rice Operating Company
112 W. Taylor
Hobbs NM, 88240

Project: O-34 SWD WELL
Project Number: SEC. 34, T20S, R37E
Project Manager: HAYDEN HOLUB
Fax To: (575) 397-1471

Reported:
26-Jun-18 11:00

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8062108 - General Prep - Wet Chem										
Duplicate (8062108-DUP1)		Source: H801687-01		Prepared & Analyzed: 21-Jun-18						
pH	8.00	0.100	pH Units		7.96			0.501	20	
Conductivity	26800	1.00	uS/cm		26900			0.298	20	
Resistivity	0.373		Ohms/m		0.372			0.298	20	
Batch 8062110 - General Prep - Wet Chem										
Duplicate (8062110-DUP1)		Source: H801687-01		Prepared: 21-Jun-18 Analyzed: 22-Jun-18						
Specific Gravity @ 60° F	1.011	0.000	[blank]		1.012			0.131	20	
Batch 8062112 - General Prep - Wet Chem										
Blank (8062112-BLK1)		Prepared: 21-Jun-18 Analyzed: 22-Jun-18								
Sulfate	ND	10.0	mg/L							
LCS (8062112-BS1)		Prepared: 21-Jun-18 Analyzed: 22-Jun-18								
Sulfate	19.0	10.0	mg/L	20.0		95.2	80-120			
LCS Dup (8062112-BSD1)		Prepared: 21-Jun-18 Analyzed: 22-Jun-18								
Sulfate	19.4	10.0	mg/L	20.0		97.2	80-120	2.13	20	
Batch 8062115 - Filtration										
Blank (8062115-BLK1)		Prepared: 20-Jun-18 Analyzed: 21-Jun-18								
TDS	ND	5.00	mg/L							

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Analytical Results For:

Rice Operating Company
112 W. Taylor
Hobbs NM, 88240

Project: O-34 SWD WELL
Project Number: SEC. 34, T20S, R37E
Project Manager: HAYDEN HOLUB
Fax To: (575) 397-1471

Reported:
26-Jun-18 11:00

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8062115 - Filtration										
LCS (8062115-BS1)				Prepared: 20-Jun-18 Analyzed: 21-Jun-18						
TDS	456	5.00	mg/L	527		86.5	80-120			
Duplicate (8062115-DUP1)				Source: H801667-03 Prepared: 20-Jun-18 Analyzed: 21-Jun-18						
TDS	938	5.00	mg/L		946			0.849	20	

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Analytical Results For:

Rice Operating Company
112 W. Taylor
Hobbs NM, 88240

Project: O-34 SWD WELL
Project Number: SEC. 34, T20S, R37E
Project Manager: HAYDEN HOLUB
Fax To: (575) 397-1471

Reported:
26-Jun-18 11:00

Total Recoverable Metals by ICP (E200.7) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B806183 - Total Rec. 200.7/200.8/200.2**Blank (B806183-BLK1)**

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Iron	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							

LCS (B806183-BS1)

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Sodium	3.22	1.00	mg/L	3.24		99.2	85-115			
Potassium	7.83	1.00	mg/L	8.00		97.8	85-115			
Magnesium	19.1	0.100	mg/L	20.0		95.6	85-115			
Iron	3.81	0.050	mg/L	4.00		95.2	85-115			
Calcium	3.83	0.100	mg/L	4.00		95.7	85-115			
Barium	2.01	0.050	mg/L	2.00		100	85-115			

LCS Dup (B806183-BSD1)

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Magnesium	19.4	0.100	mg/L	20.0		96.8	85-115	1.30	20	
Barium	2.02	0.050	mg/L	2.00		101	85-115	0.698	20	
Potassium	7.85	1.00	mg/L	8.00		98.2	85-115	0.354	20	
Calcium	3.89	0.100	mg/L	4.00		97.1	85-115	1.50	20	
Sodium	3.23	1.00	mg/L	3.24		99.7	85-115	0.493	20	
Iron	3.82	0.050	mg/L	4.00		95.6	85-115	0.400	20	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO				ANALYSIS REQUEST															
Company Name: Rice Operating Company Project Manager: Hayden Holub Address: 112 W. Taylor City: Hobbs Phone #: 575-393-9174 State: NM Zip: 88240 Fax #: 575-393-1471 Project Owner: Project Name: O-34 SWD Well Project Location: Sec. 34, T20S, R37E Sampler Name: Hayden Holub				P.O. #: Company: Attn: Address: City: State: Phone #: Fax #:				Complete Water Analysis <div style="text-align: right; font-size: 2em; transform: rotate(180deg);">Scale</div>											
Lab I.D. H801687 San Andres formation water				Matrix <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: </div> <div style="width: 45%;"> ACID/BASE: ICE / COOL OTHER: </div> </div>				Preserv 				Sampling <div style="display: flex; justify-content: space-between;"> <div>DATE</div> <div>TIME</div> </div> <div style="display: flex; justify-content: space-between;"> <div>6/19</div> <div>17:30</div> </div>							
<div style="display: flex; justify-content: space-between;"> <div> Relinquished By: </div> <div> Received By: </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> Relinquished By: </div> <div> Received By: </div> </div>																			
<div style="display: flex; justify-content: space-between;"> <div> Delivered By: (Circle One) Sampler - UPS - Bus - Other: </div> <div> 30.10 / 30.05 </div> <div> Checked By: </div> </div>																			

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REMARKS:
 Phone Result: ☐ Yes ☐ No Add'l Phone #: _____
 Fax Result: ☐ Yes ☐ No Add'l Fax #: _____
 Email results: hholub@rice-swd.com
scutis@rice-swd.com

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL LABORATORIES SCALE INDEX WATER ANALYSIS REPORT

Company : RICE OPERATING COMPANY	Date Sampled : 06/19/18
Lease Name : O-34 SWD WELL	Company Rep. : HAYDEN HOLUB
Well Number : SAN ANDRES FORMATION WATER (H801687-01)	
Location : SEC 34, T20S, R37E	

ANALYSIS

1. pH	7.96	
2. Specific Gravity @ 60/60 F.	1.0120	
3. CaCO ₃ Saturation Index @ 80 F.	+1.142	'Calcium Carbonate Scale Possible'
@ 140 F.	+2.012	'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	ND	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	ND	PPM

Cations

		/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	561.00	/	20.1	=	27.91
8. Magnesium (Mg++)	260.00	/	12.2	=	21.31
9. Sodium (Na+)	4,950	/	23.0	=	256.23
10. Barium (Ba++)	4.910	/	68.7	=	0.07

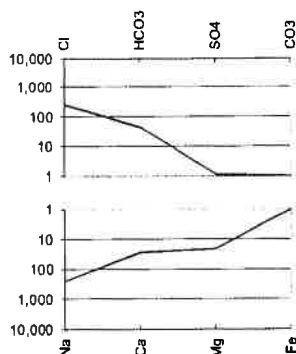
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO ₃ =)	0	/	30.0	=	0.00
13. Bicarbonate (HCO ₃ -)	2,760	/	61.1	=	45.17
14. Sulfate (SO ₄ =)	55	/	48.8	=	1.13
15. Chloride (Cl-)	9,200	/	35.5	=	259.15

Other

16. Total Iron (Fe)	0.000	/	18.2	=	0.00
17. Total Dissolved Solids	17,700				
18. Total Hardness As CaCO ₃	2,471.0				
19. Calcium Sulfate Solubility @ 90 F.	2,821				
20. Resistivity (Measured)	0.372	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO ₃) ₂	81.04	X	27.91	=	2,262
CaSO ₄	68.07	X	0.00	=	0
CaCl ₂	55.50	X	0.00	=	0
Mg(HCO ₃) ₂	73.17	X	17.26	=	1,263
MgSO ₄	60.19	X	0.00	=	0
MgCl ₂	47.62	X	4.05	=	193
NaHCO ₃	84.00	X	0.00	=	0
NaSO ₄	71.03	X	1.13	=	80
NaCl	58.46	X	255.10	=	14,913

ND = Not Determined

This form is to be filed with the appropriate District Office of the Commission not later than 30 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 31 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except as stated here, 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	1059'	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	1160'	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
T. Salt	2440'	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	2606'	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	2850'	T. Devonian	T. Menefee	T. Madison
T. Queen	3330'	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	3600'	T. Montoya	T. Mancos	T. McCracken
T. San Andres	3870'	T. Simpson	T. Gallup	T. Ignacio Qtzite
T. Glorieta	5073'	T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T.
T. Blinberry	5393'	T. Gr. Wash	T. Morrison	T.
T. Tubb	6092'	T. Granite	T. Tedito	T.
T. Drinkard	6406'	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.

OIL OR GAS SANDS OR ZONES

No. 1, from 6412' to 6610' No. 4, fromto.....
 No. 2, fromto..... No. 5, fromto.....
 No. 3, fromto..... No. 6, fromto.....

IMPORTANT WATER SANDS

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

No. 1, fromto.....feet.
 No. 2, fromto.....feet.
 No. 3, fromto.....feet.
 No. 4, fromto.....feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0'	1059'		Red Beds				
	2606'		Anhy & Salt				
	5073'		Dolo, LS, SS & Shale				
	6700'		Dolo, SS & Shale				

JUL 23 1977

U. S. DEPT. OF COMMERCE
BUREAU OF MINERAL INDUSTRIES



April 24, 2020

Scott Curtis
Rice Operating Company
122 W Taylor St.
Hobbs, New Mexico 88240

RE: Rice Operating Company B-18 #1 SWD Well Permit

Mr. Curtis:

Tasman Geosciences, Inc. (Tasman) conducted a hydrogeologic investigation on behalf of Rice Operating Company (Rice) related to the proposed injection well B-18 #1 (SWD) permit located in Lea County, New Mexico (Site [Figure 1 and 2]). The scope of the investigation was to determine whether a hydrogeologic connection exists between the proposed injection interval and local sources of underground drinking water. The basis of the investigation was conducted in response to the following well permit requirement:

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.

During the investigation Tasman utilized three main sources to determine if there was evidence of open faults or other hydrogeologic connections between the injection zone and local aquifers. The proposed injection interval is between 3,900 and 5,100 feet below ground surface (bgs) in the Permian-Guadalupe San Andreas Formation. Local sources of drinking water are estimated to be between 40 and 150 feet bgs within the Tertiary Ogallala Formation (High Plains aquifer).

The main sources utilized in the investigation are listed below and are included as attachments:

- Geologic Map of New Mexico (Anderson et al., 1996).
- Regional Cross Sections – Central Basin Platform, West Texas (Bebout et al., 1985); and
- Geohydrology of the High Plains Aquifer in Southeastern New Mexico (Hart et al., 1985).

Other sources utilized in the investigation included:

- City of Eunice New Mexico Drinking Quality Water Report for 2015 (Eunice City Hall, 2016).
- Groundwater Atlas of the United States – Hydrologic Investigations Atlas 730-C (Segment 2) and 730-E (Segment 4)
- Interactive Map of New Mexico's Geology and Natural Resources (2020), and



- Lea County Regional Water Plan – State of New Mexico Interstate Stream Commission (2016)

HYDROGEOLOGIC EVALUATION AND RESULTS

Based on a review of these sources and information provided by Rice, the following lines of evidence suggest that “hydrologic connection(s) between the disposal zone and underground sources of drinking water” are not present:

- There is approximately 3,800 feet of bedrock between the top of the proposed injection interval and the base of the High Plains aquifer.
- The geologic map of New Mexico illustrates no major regional faults or structural features that would indicate a connection between the Permian-Guadalupe San Andreas Formation and the Ogallala Formation (High Plains aquifer).
- Cross sections B-B' and C-C' at points 1, 2 and 3, which are within approximately 10 miles of the injection Site, indicates there are no major faults that trend vertically between the Permian-Guadalupe San Andreas Formation and the Tertiary Ogallala Formation nor between the ground surface and proposed injection interval; and
- Plate 1 – Geohydrology of the High Plains aquifer illustrates the contact between the base of the High Plains aquifer and the underlying bedrock at approximately 50 feet bgs or less in the vicinity of the injection Site. The injection Site appears to be in an area where the High Plains aquifer is discontinuous and may be unsaturated, or intermittently saturated in isolated channels, suggesting that a principle water bearing aquifer is not present.

SUMMARY

Based on these lines of evidence and as a licensed Professional Geologist, I am confident that Rice Operating Company can provide the affirmative statement:

“that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection(s) between the disposal zone and any underground sources of drinking water”.

Please feel free to contact me with any questions or comments at (303) 520-0298

Sincerely,

A handwritten signature in dark ink, appearing to read 'JH Watts', is written over a light blue horizontal line.

Jeb H. Watts, PG
Tasman Geosciences, Inc.

Enclosures:

- Figures 1 and 2 – Site Location and Well Location Map
- Geologic Map of New Mexico
- Cross Section Overview – Central Basin Platform, West Texas
- Regional Cross Section (B-B' and C-C') – Central Basin Platform, West Texas
- Geohydrology of the High Plains Aquifer Southeast New Mexico



References:

Anderson, O.J., Jones, G.E., and Green, G.N., 1996, Geologic Map of New Mexico, Scale 1:500,000.

Bebout, D.G., and Meador, K.J., 1985, Regional Cross Sections – Central Basin Platform, West Texas: The University of Texas at Austin, Bureau of Economic Geology.

Eunice City Hall, City of Eunice New Mexico Drinking Quality Water Report for 2015, 2016.

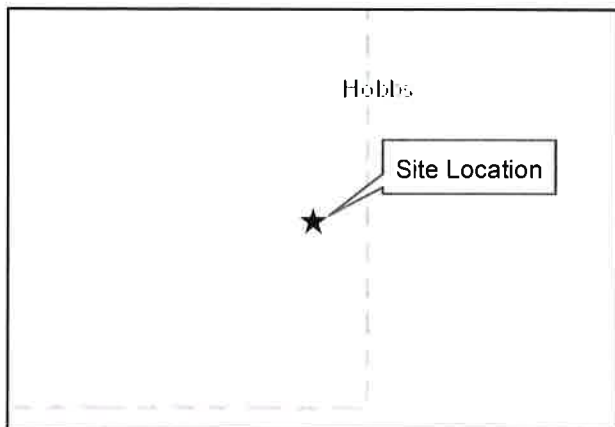
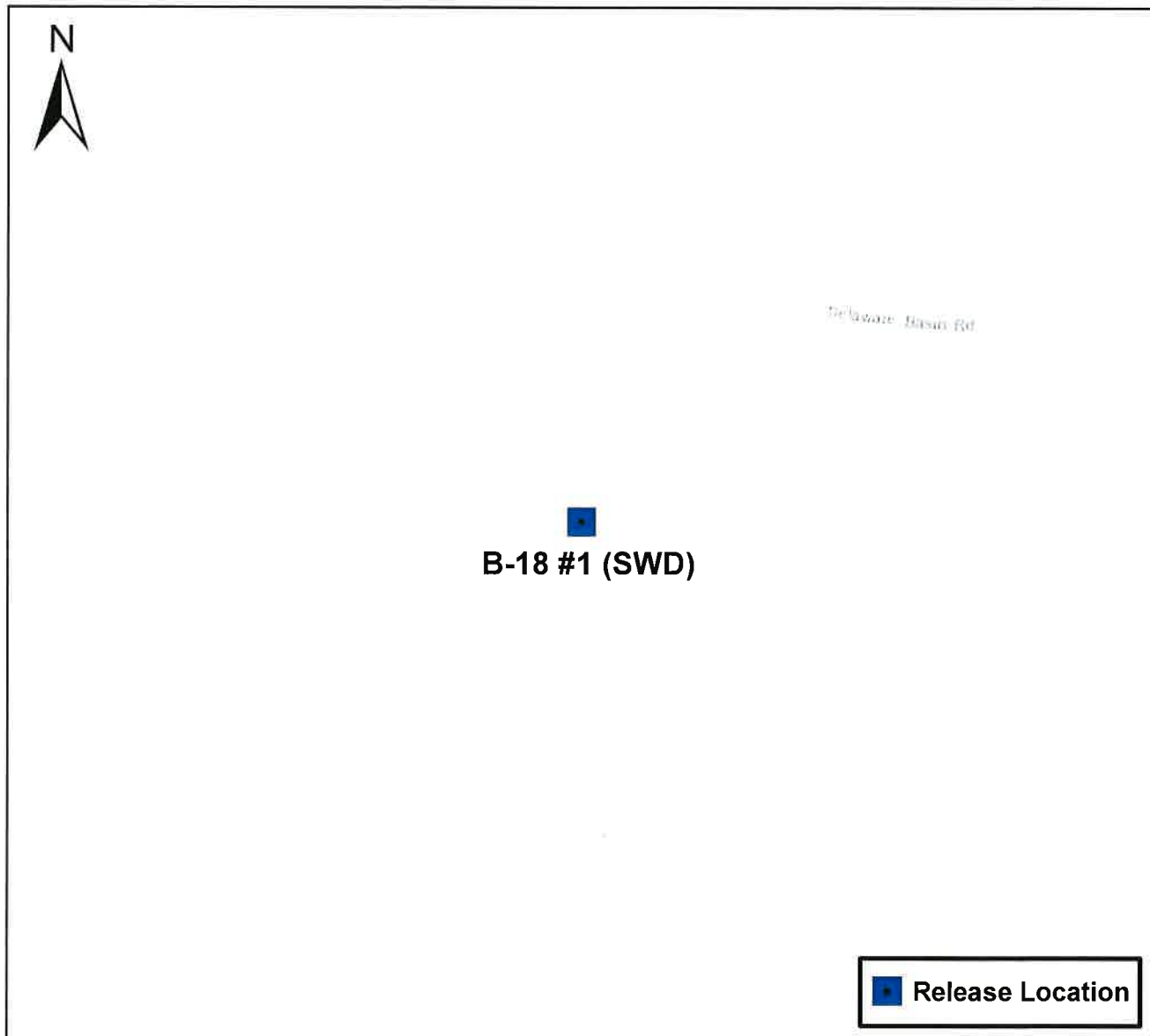
Hart, D.L., and McAda, D.P., 1985, Geohydrology of the High Plains Aquifer in Southeastern New Mexico, Hydrologic Atlas 679.

Interactive Map of New Mexico's Geology and Natural Resources, 2020, website <https://maps.nmt.edu/>.

Lea County Regional Water Plan, December 2016, State of New Mexico Interstate Stream Commission, Office of the State Engineer

Robson, S.G and Banta, E.R, 1995, Groundwater Atlas of the United States - Segment 2, Hydrologic Investigations Atlas 730-C, Arizona, Colorado, New Mexico, Utah

Ryder, P.D, 1996, Groundwater Atlas of the United States - Segment 4, Hydrologic Investigations Atlas 730-E, Oklahoma, Texas



0 750 1,500 Feet

Figure 1

Site Location Map
B-18 #1 (SWD)
NWNE S18 T22S R37E
Lea County, New Mexico



Drawn By: LM
Date: 4/24/2020



Affidavit of Publication


STATE OF NEW MEXICO
COUNTY OF LEA

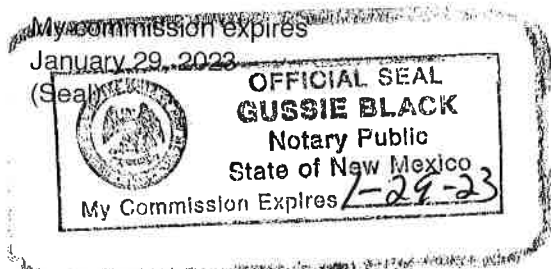
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
April 23, 2020
and ending with the issue dated
April 23, 2020.


Publisher

Sworn and subscribed to before me this
23rd day of April 2020.


Business Manager



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGALS

LEGAL NOTICE April 23, 2020

Public Notice for B-18 (API:---) Rice Operating Company, 122 West Taylor, Hobbs, NM 88240 (575)393-9174 Contact Party Hayden Holub (575) 393-9174. The intended purpose of this injection well is for disposal of produced water associated with oil and gas production activities. This well is a permitted disposal well into the San Andres formation. This application is made to utilize the well for commercial use. The location of the well is 950 feet from the North Line and 1580 feet from the East line of Section 18, Township 22S, Range 37E, which is in the NW/4 of the NE/4 of the aforementioned Section, Lea County. The formation name is the San Andres; injection intervals to be between a depth of 3,900' to 5,100'; a maximum injection rate of 45,000 barrels per day with maximum pressure of 1000 PSI, or maximum allowed by the NMOCD. Interested parties must file objections or request a hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days, by Wednesday the 7th of May.
#35420

01104367

00241789

BEGIE BONDS
RICE OPERATING COMPANY
112 WEST TAYLOR
HOBBS, NM 88240

SURFACE OWNER, LEASE OWNER,

AND OFFSET OPERATORS

B-18 #1

950' FNL AND 1580' FEL, SEC. 18, T22S, R37E

LEA COUNTY, NM

Surface Owner of Well Site

Strain-King Ranch LLC
Attention: Larry Strain
4119 Mescalero Drive
Hobbs, NM 88240

Operators of Record

Chevron USA, Inc.
Attention: Jennifer Van Curen
6301 Deauville Blvd.
Midland, TX 79706

Grizzly Operating LLC
Attention: Keith Froebel
5847 San Felipe
Suite #3000
Houston, TX 77057

ME-TEX Oil & Gas, Inc.
Attention: LeAnne Whitehead
PO Box 2070
Hobbs, NM 88241

XTO Energy, Inc.
Attention: James Hall
6401 Holiday Hill Rd.
Building #5
Midland, TX 79707

John H. Hendrix, Corp.
PO Box 3040
Midland, TX 79702

Burlington Resources Oil & Gas
PO Box 51810
Midland, TX 79710

RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240
Phone: (575) 393-9174 • Fax (575) 397-1471

April 27, 2020

Strain-King Ranch, LLC.
Attention: Larry Strain
4119 Mescalero Dr.
Hobbs, NM 88240

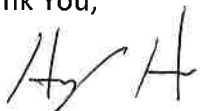
RE: B-18 SWD
U/L B, Section 18, T22S, R37E
950' FNL and 1580' FEL
Lea County, NM

To Whom it May Concern:

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 Hayden Holub at 575-393-9174. 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 1220 S. St. Francis Dr., Santa Fe, NM 87505.

Thank You,



Hayden Holub
Manager
Rice Operating Company

RICE *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240
Phone: (575) 393-9174 • Fax (575) 397-1471

April 27, 2020

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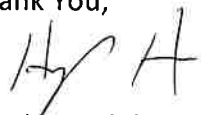
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Thank You,



Hayden Holub
Manager
Rice Operating Company

RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax (575) 397-1471

April 27, 2020

Grizzly Operating, LLC
Attention: Keith Froebel
5847 San Felipe
Suite #3000
Houston, TX 77057

RE: B-18 SWD
U/L B, Section 18, T22S, R37E
950' FNL and 1580' FEL
Lea County, NM

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Thank You,



Hayden Holub
Manager
Rice Operating Company

RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240
Phone: (575) 393-9174 • Fax (575) 397-1471

April 27, 2020

ME-TEX Oil & Gas, Inc.
Attention: LeAnne Whitehead
PO Box 2070
Hobbs, NM 88241

RE: B-18 SWD
U/L B, Section 18, T22S, R37E
950' FNL and 1580' FEL
Lea County, NM

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Thank You,



Hayden Holub
Manager
Rice Operating Company

RICE *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240
Phone: (575) 393-9174 • Fax (575) 397-1471

April 27, 2020

XTO Energy, Inc.
Attention: James Hall
6401 Holiday Hill Rd., Bldg. #5
Midland, TX 79707

RE: B-18 SWD
U/L B, Section 18, T22S, R37E
950' FNL and 1580' FEL
Lea County, NM

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Thank You,



Hayden Holub
Manager
Rice Operating Company

RICE *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240
Phone: (575) 393-9174 • Fax (575) 397-1471

April 27, 2020

John H Hendrix, Corp.
PO Box 3040
Midland, TX 79702

RE: B-18 SWD
U/L B, Section 18, T22S, R37E
950' FNL and 1580' FEL
Lea County, NM

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Thank You,



Hayden Holub
Manager
Rice Operating Company

RICE *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240
Phone: (575) 393-9174 • Fax (575) 397-1471

April 27, 2020

Burlington Resources Oil & Gas
PO Box 51810
Midland, TX 79710

RE: B-18 SWD
U/L B, Section 18, T22S, R37E
950' FNL and 1580' FEL
Lea County, NM

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Thank You,



Hayden Holub

Manager

Rice Operating Company

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Hobbs, NM 88240

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6301 Deauville Blvd.
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6401 Holiday Hill Rd.
Building #5
Midland, TX 79707

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