

HFIWJ-200305-C-1080 SWD-2388

Revised March 23, 2017

RECEIVED: 8/7/20	REVIEWER:	TYPE: SWD	APP NO: pDM2022434964
------------------	-----------	-----------	-----------------------

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: Southwest Royalties, Inc. OGRID Number: 21555  
 Well Name: Elliams #14 API: 30-025-33479  
 Pool: Maljamar; Grayburg-San Andres Pool Code: 43329

**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

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.

Lindsay Livesay

Print or Type Name

Signature

Date

6/15/2019432-207-3054

Phone Number

llivesay@swrpermian.com

e-mail Address

[Searches](#)[Operator Data](#)[Submit Form](#)[Fee Application](#)[Administration](#)

## OCD Permitting

[Home](#) [Fee Applications](#) [Fee Application](#)**HFIWJ-200305-C-1080**

revd  
8/7/2020  
2:45pm

### Application Information

Status: Pending Document Delivery  
Type: [C-108] Application for a fluid injection well permit.  
Attachment:  
Reference:

### Applicant Details

OGRID: 21355  
Name: Lindsay Livesay  
Email: llivesay@swrpermian.com

### Event Dates

Created On: 3/5/2020 9:50 AM  
Modified On: 3/5/2020 9:51 AM

Created By: llivesay  
Modified By: llivesay

### Fee Information

Created On: 3/5/2020 9:50 AM  
Type: SB553 A (3)  
Amount: \$500.00  
Modified On: 3/5/2020 9:50 AM

Created By: llivesay

Modified By: llivesay

### Payment Information

Created On: 3/5/2020 9:51 AM  
Status: Paid  
Type: Credit Card  
Amount: \$500.00  
Modified On: 3/5/2020 9:51 AM

Created By: llivesay

Modified By: system

**Southwest Royalties, Inc.  
Eilliams SWD #14  
API #30-025-33479  
1605' FNL X 1980' FEL  
Unit Letter 'G', Section 34, T17S, R33E  
Lea County, New Mexico  
C108 Application for Authorization to Inject**

**I.**

The purpose of this application is seeking administrative approval for the conversion of the Eilliams #14 from a depleted oil well to an injection well in the Grayburg/San Andres formation through perforations (4325'-4833') for Southwest Royalties lease produced water use only.

**II.**

Operator: Southwest Royalties, Inc.  
Address: P.O. Box 53570; Midland, Texas 79710-3570  
Contact Party: Lindsay Livesay Phone: (432)207-3054 Email: [llivesay@swrpermian.com](mailto:llivesay@swrpermian.com)

**III.**

Well Name: Eilliams #14  
API Number: 30-025-33429  
Location: Unit Letter 'G', Section 34, T17S, R33E, Lea County, New Mexico  
Operator: Southwest Royalties, Inc.  
Current Pool: Maljamar-Grayburg-San Andres  
Proposed Pool: Maljamar-Grayburg-San Andres  
Please see Exhibit "A" for additional well data.

**IV.**

This is not an expansion of an existing project.

**V.**

Please see Exhibit "B" for lease map.

**VI.**

Please see Exhibit "C" for area of review tabulation data.

**VII.**

1. Anticipated disposal volume – 5000 BWPD
2. System will be closed. Water will be pipelined in from our Eilliams producers (Lease Injection).
3. Anticipated disposal pressure: Average 1000 psig, Maximum 2000 psig
4. Disposed fluid will be pipelined in from Southwest Royalties, Inc. producing wells in the immediate area.

**VIII.**

<b>Formation</b>	<b>Depths (ft)</b>
Base of Salt	2634'
Yates	2926'
Queen	3776'
Grayburg	4209'
San Andres	4510'

**IX.**

Proposed Completion Procedure: Acid stimulate with approximately 5000 gallons of 15% NEFE HCl acid.

**X.**

Any logs performed will be submitted after completion.

**XI.**

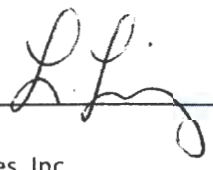
NM OSE records indicate there are seven (7) fresh water wells within the 1 mile Area of Review. See Exhibit "D" for an AOR map, copies of the OSE data base queries and water sample test results.

**XII.**

Available geological and engineering data have been examined and no evidence of open faults or hydrological connection between the proposed disposal zone and any underground sources of drinking water has been found.

**XIII.**

Please see Exhibit "E" For Proof of Notice. Included is a map of the Area of Review, list of notices, certified mail electronic signatures receipts for notices and the original affidavit of publication from the Hobbs, New Mexico newspaper for the required public notice.

Lindsay Livesay:   
Regulatory Analyst  
Southwest Royalties, Inc.

Date: 6/15/19

**Southwest Royalties, Inc.**

**Eilliams SWD #14  
API #30-025-33479  
1605' FNL X 1980' FEL  
Unit Letter 'G', Section 34, T17S, R33E  
Lea County, New Mexico**

**Well Data  
Data Obtained from records maintained by NMOCD.**

Well spudded on 07/29/1996 by Southwest Royalties, Inc. as a Grayburg/San Andres producing oil well.

8-5/8" 24# J55 casing was set in 12-1/2" hole at 1540'. Cemented with 750 sacks of cement. Cement circulated to surface.

5-1/2" 15.5# casing was set in 7-7/8" hole at 4894'. Cemented with 815 sacks of cement. Cement did not circulate. Top of cement at 475' (FS). TD at 5050'.

Well was completed as an open hole (4358'-4833') Grayburg/San Andres well on September 10, 1996.

In May 2013, production ceased from this well.

Southwest Royalties, Inc. has always been the operator of record and desires to use this well as a SWD service for our Eilliams producing wells.

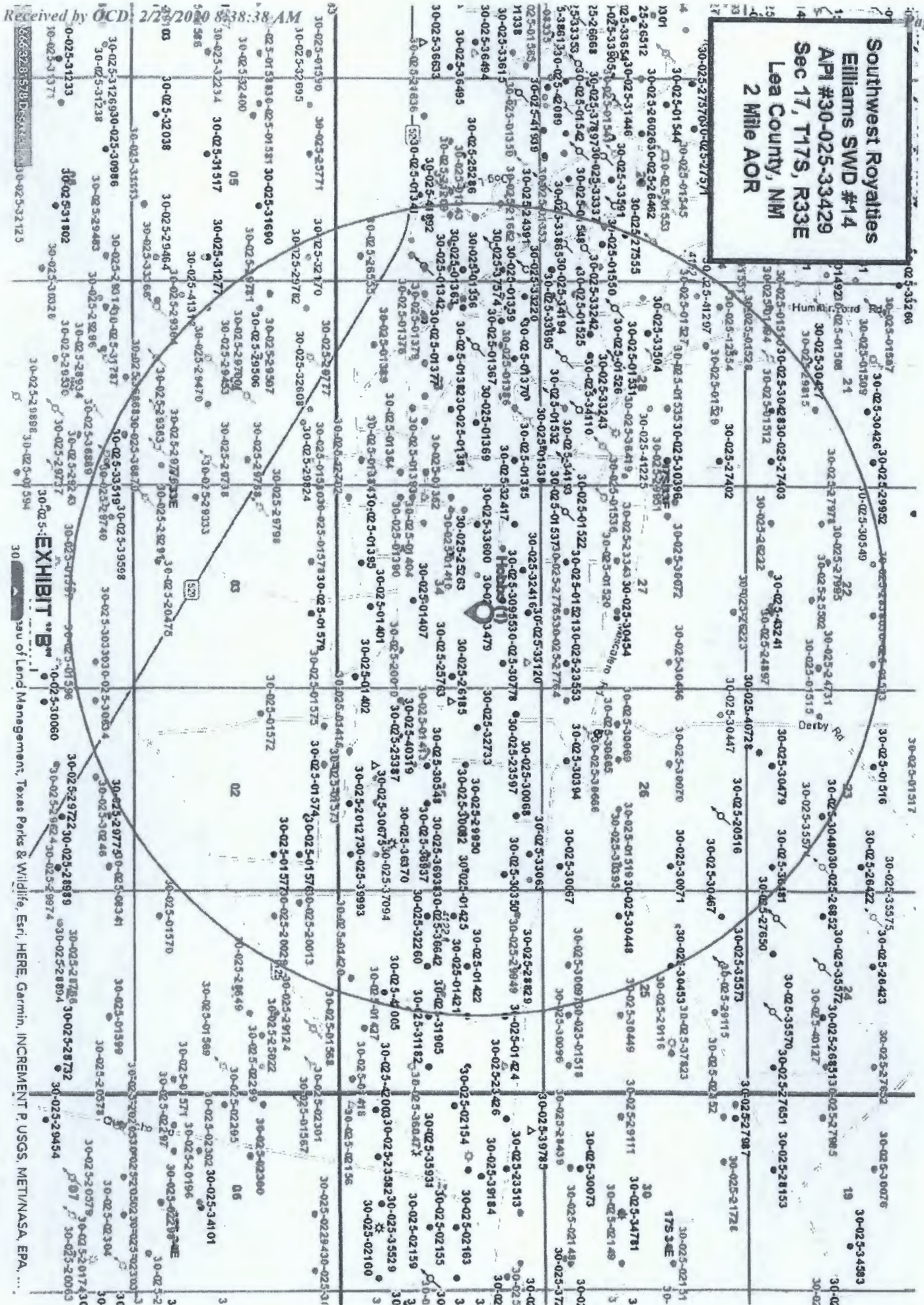
Reported Formation Tops (1996)

Formation	Depth (ft)
Base of Salt	2634'
Yates	2926'
Queen	3776'
Grayburg Marker	4209'
San Andres	4510'

EXHIBIT "A"



Southwest Royalties  
Williams SWD #14  
API #30-025-33429  
Sec 17, T17S, R33E  
Lea County, NM  
2 Mile AOR





26

30-025-01572



## Southwest Royalties, Inc.

## Eilliams SWD #14

## API # 30-025-33429

## Offset Wells within 0.5 Mile AOR

API	Wellname	Sec	T	R	U	Operator	Pool ID List	Type	Status	TD
025-01391	COCKBURN FED #4	34	17S	33E	K	SEELY OIL CO	CORBIN, QUEEN	Oil	P&A	3929'
025-01392	COCKBURN FED #6	34	17S	33E	J	SEELY OIL CO	CORBIN, QUEEN	Oil	P&A	3848'
025-01397	WYATT PHILLIPS #7	34	17S	33E	F	SOUTHWEST ROYALTIES INC	CORBIN, QUEEN	Oil	P&A	3830'
025-01399	WYATT PHILLIPS #09	34	17S	33E	C	TARGET PRODUCTION CO.	CORBIN, QUEEN	Oil	P&A	3787'

There are four (4) offset wells within the 0.5 mile AOR that do not penetrate the proposed disposal zone.

There are sixteen (16) offset wells within the 0.5 mile AOR that do penetrate the proposed disposal zone.

API	Wellname	Sec	T	R	U	Operator	Pool ID List	Type	Status	TD
025-27765	PHILMEX #17	27	17S	33E	O	CONOCOPHILLIPS COMPANY	MALAMAR, GRAYBURG-SAN ANDRES	Oil	P&A	6200'
025-01407	DENIUS FED #7	34	17S	33E	J	VANGUARD OPERATING, LLC	CORBIN, ABO	Oil	Active	9015'
025-01406	DENIUS FED #5	34	17S	33E	K	LIME ROCK RESOURCES A, L.P.	CORBIN, ABO	Oil	P&A	8875'
025-01408	DENIUS FED #8	34	17S	33E	I	SOUTHWESTERN ENERGY PROD CO	CORBIN, ABO	Oil	P&A	8845'
025-25263	EILLIAMS #7	34	17S	33E	F	PENROC OIL CORP	CORBIN, ABO	Oil	Active	8910'
025-25763	CORBIN 35 ST #1	35	17S	33E	E	POGO OIL & GAS OPERATING, INC	CORBIN, QUEEN; SWD, QUEEN	SWD	Active	8925'
025-26185	EILLIAMS #8	34	17S	33E	H	SOUTHWEST ROYALTIES INC	MALAMAR, GRAYBURG-SAN ANDRES	Oil	Active	4850'
025-01411	WYATT PHILLIPS #13	34	17S	33E	F	TARGET PRODUCTION CO.	CORBIN, ABO	Oil	P&A	8871'
025-30778	EILLIAMS #9	34	17S	33E	A	SOUTHWEST ROYALTIES INC	MALAMAR, GRAYBURG-SAN ANDRES	Oil	Active	4750'
025-30955	EILLIAMS #10	34	17S	33E	B	SOUTHWEST ROYALTIES INC	MALAMAR, GRAYBURG-SAN ANDRES	Oil	Active	4780'
025-32416	WYATT PHILLIPS FED #14	34	17S	33E	C	SOUTHWEST ROYALTIES INC	MALAMAR, GRAYBURG-SAN ANDRES	Oil	Active	4880'
025-32417	WYATT PHILLIPS FED #15	34	17S	33E	D	SOUTHWEST ROYALTIES INC	MALAMAR, GRAYBURG-SAN ANDRES	Oil	Active	4884'
025-33094	EILLIAMS #12	34	17S	33E	A	SOUTHWEST ROYALTIES INC	SWD, SAN ANDRES	SWD	P&A	5050'
025-33120	EILLIAMS #11	34	17S	33E	B	SOUTHWEST ROYALTIES INC	MALAMAR, GRAYBURG-SAN ANDRES	Oil	Active	5167'

## EXHIBIT "C"



025-33479	ELLIAMS #14	34	17S	33E	G	SOUTHWEST ROYALTIES INC	MALAMAR, GRAYBURG-SAN ANDRES	Oil	Active	4894'
025-33600	WYATT A FED #1	34	17S	33E	E	SOUTHWEST ROYALTIES INC	MALAMAR, GRAYBURG-SAN ANDRES	Oil	Active	4900'

- 1) The five (5) penetrating offset P&A wells either have cement behind pipe and/or plugs above the proposed disposal zone.
- 2) The Corbin 35 State #1 is an active POGO operated Queen SWD well with injection in the Queen at 3856'-3877'.
- 3) The eleven (11) penetrating active wells either have cement behind pipe and/or plugs above the proposed disposal zone.

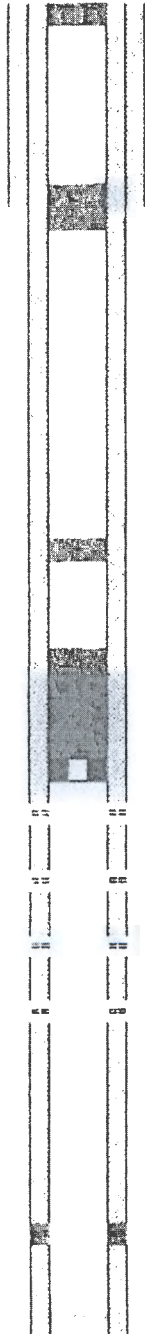
Included on the following pages are wellbore diagrams for the five (5) penetrating P&A wells based on information from the OCD files.

EXHIBIT "C"

**WELLBORE SKETCH**  
**ConocoPhillips Company -- Lower 48 Mid-Continent BU / Odessa**

Date February 3, 2016

RKB @ 4165'  
 DF @  
 GL @ 4154'



12 1/4" Hole  
 Spot 160' cmt @ 4154'

8-5/8" 24# K-55 @ 1457'  
 Cmt'd w/ 750 sxs, circ 240 sxs  
 TOC @ Surface  
 Top Salt @ 1457'  
 Spot 250' cmt @ 1457' - Tag

Spot 160' cmt @ 1457' - Tag

Base Salt @ 3613'  
 Spot 700' cmt @ 4154' - Tag  
 Set CBP @ 4155'

4258-4263'

4307-4396'

4424-4466'

4503-4614'

Sqz'd 6138-6148' w/ 175 sxs cmt

7-7/8" Hole  
 4-1/2" 11.6# N-80 @ 6198'  
 Cmt'd w 1550 sxs, Circ 250 sxs  
 TOC @ Surface

PBTD @ 6100'  
 TD @ 6200'

Subarea : Buckeye  
 Lease & Well No. : Philmax No. 17  
 Legal Description : 680' FSL & 1980' FEL, Sec. 27, T-17-S, R-33-E  
 County : Lea State : New Mexico  
 Field : Majamar Grayburg/San Andres  
 Date Spudded : 4/10/1982 Rig Released : 4/28/1982  
 API Number : 30-025-27765  
 Status : Producing

**Stimulation History:**

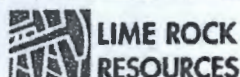
Interval	Date	Type	Gels	Sand	Press	ISIP	Max Rate	Max Down
	6/10/1982	Perf 6138-6148 w/ 2 SPF						
6138-6148	6/10/1982	15% NEFE	1000					
	6/22/1982	Sqz'd 6138-6148 w/ 175 sxs cmt						
	6/22/1982	Perf 4503-4609, 4618-4522, 4529-4559, 4562-4570, 4591-4614 w/ 2 SPF						
4503-4614	6/22/1982	15% NEFE	5000					
	6/22/1982	Perf 4258-4263, 4307-4314, 4378-4389, 4393-4396, 4424-4426, 4446-4450, 4452-4464, 4463-4466, w/ 2 SPF						
4258-4466	6/22/1982	15% NEFE	2500					
4258-4466	6/22/1982	RO	32,000	54,000				
4258-4614	4/17/1997	Ferck	6000					
4258-4614	4/4/2005	15% HCL	1000					

**Formation Tops:**

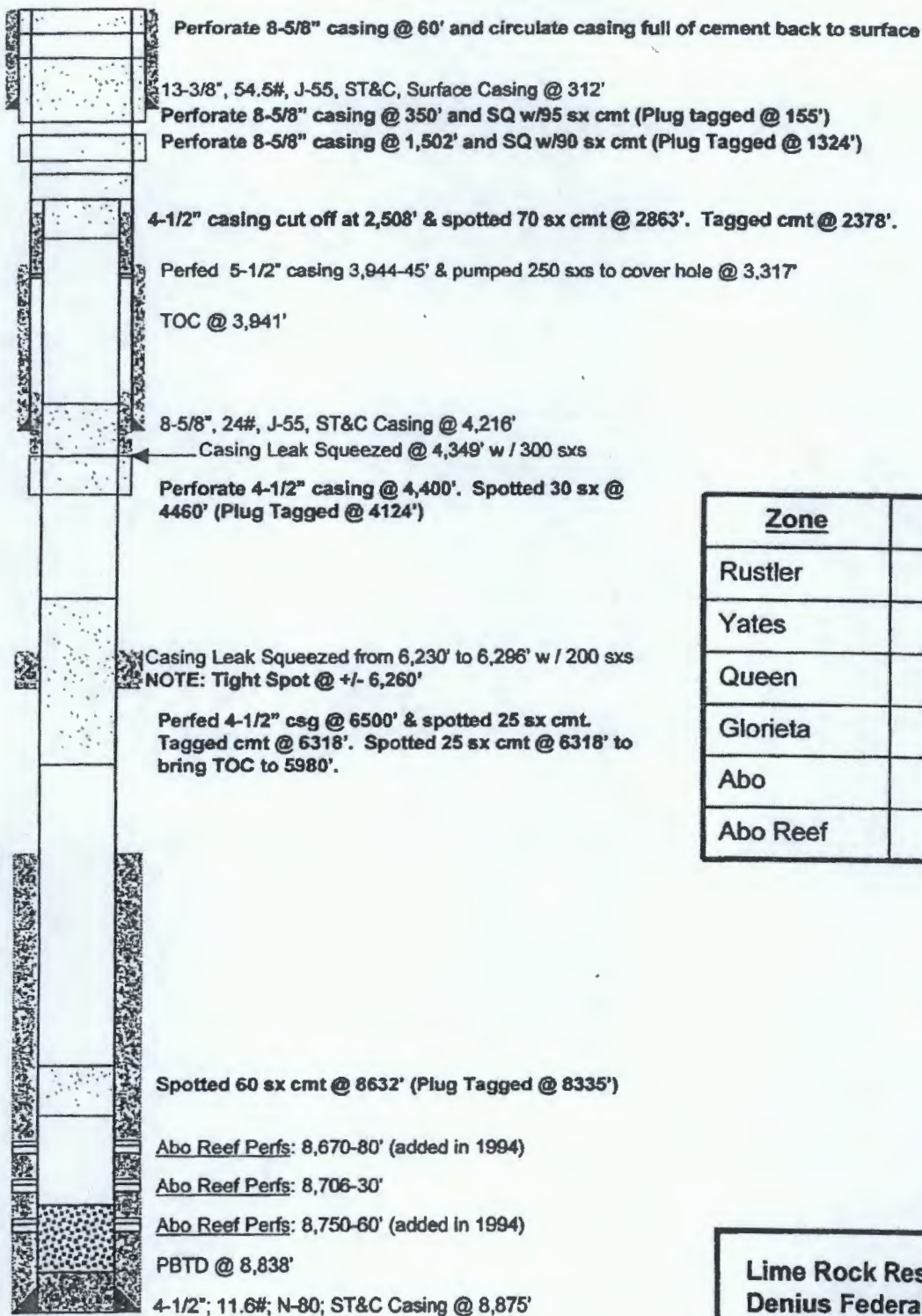
Top Salt	
Base Salt	
Rustler	1413'
Salado	1613'
Yates	2774'
Seven Rivers	3244'
Queen	3757'
Penrose	3935'
Grayburg	4117'
San Andres	4483'
Gloneta	5955'
Paddock	6038'



30-025-01406



P&amp;Aed 7/26/11

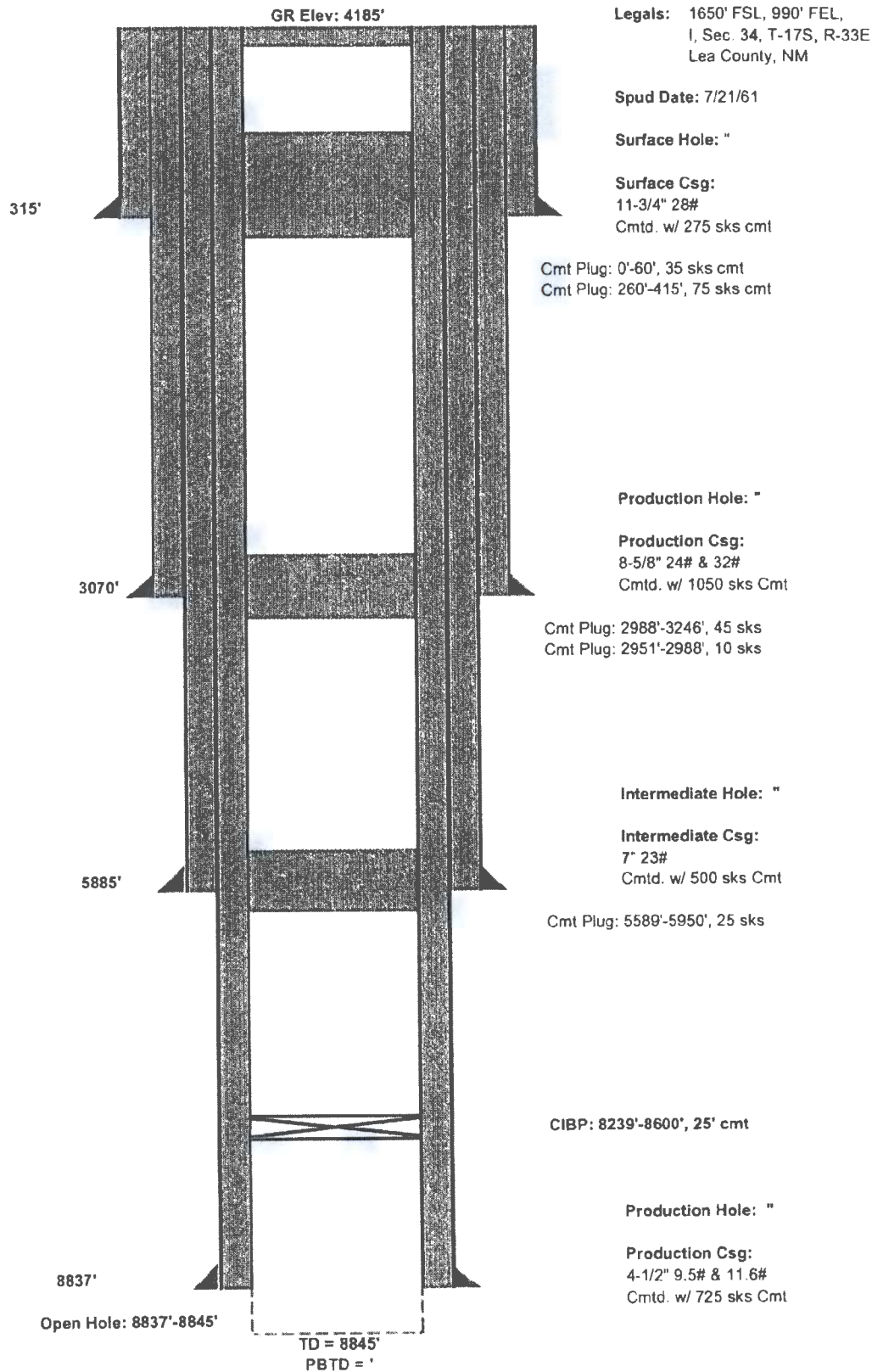


<u>Zone</u>	<u>Top</u>
Rustler	1,452'
Yates	2,816'
Queen	3,884'
Glorieta	6,454'
Abo	8,260'
Abo Reef	8,640'

Lime Rock Resources  
 Denius Federal 5  
 Sec 34K-17S-33E  
 Lea County, NM

**OFFSET WELL WELLBORE DIAGRAM**  
**CHEVRON USA, INC.**  
 DENIUS FEDERAL #8  
 30-025-01408

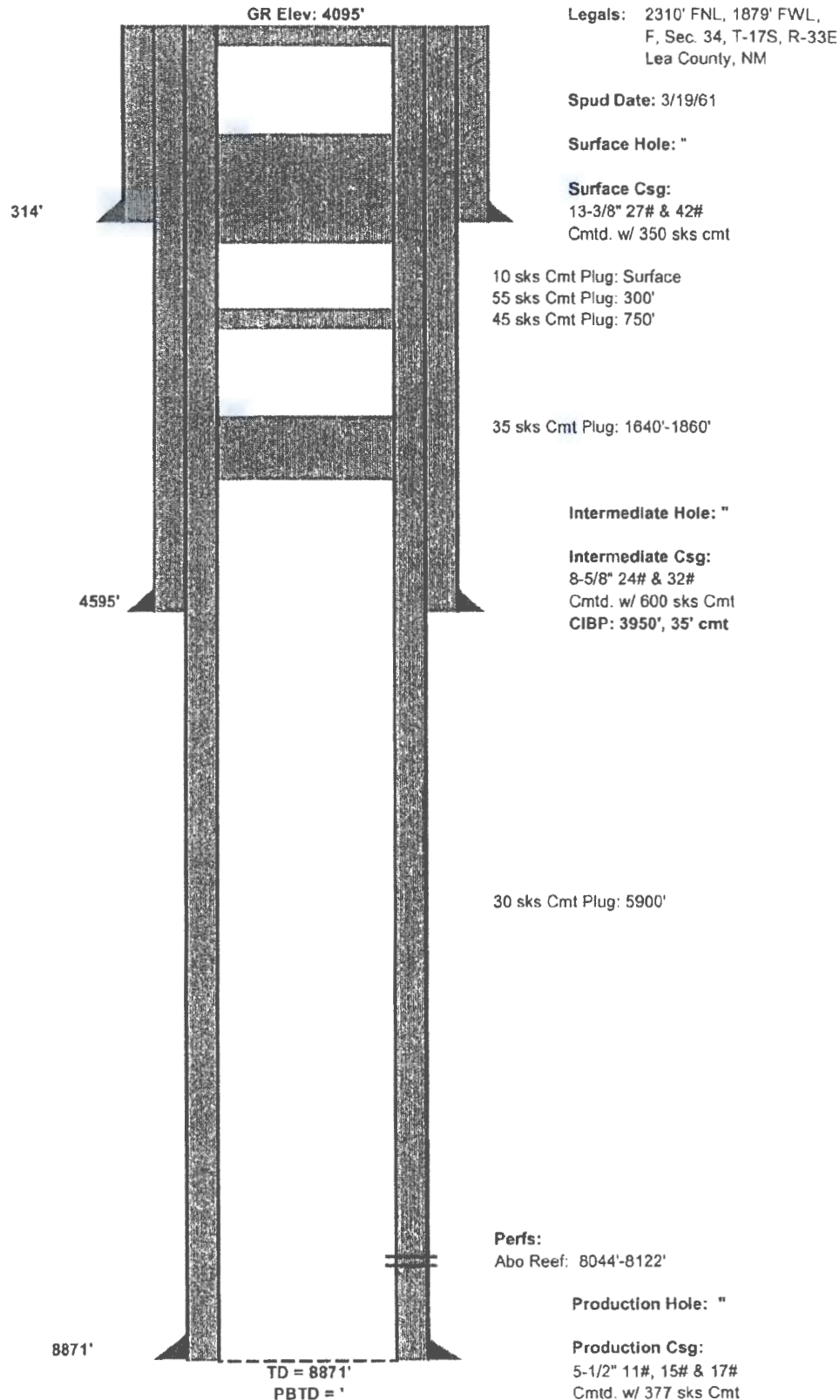
**PLUGGED ABO REEF SWD WELL**





**OFFSET WELL WELLBORE DIAGRAM**  
**PHILLIPS PETROLEUM CO.**  
**WYATT FEDERAL #13**  
**30-025-01411**

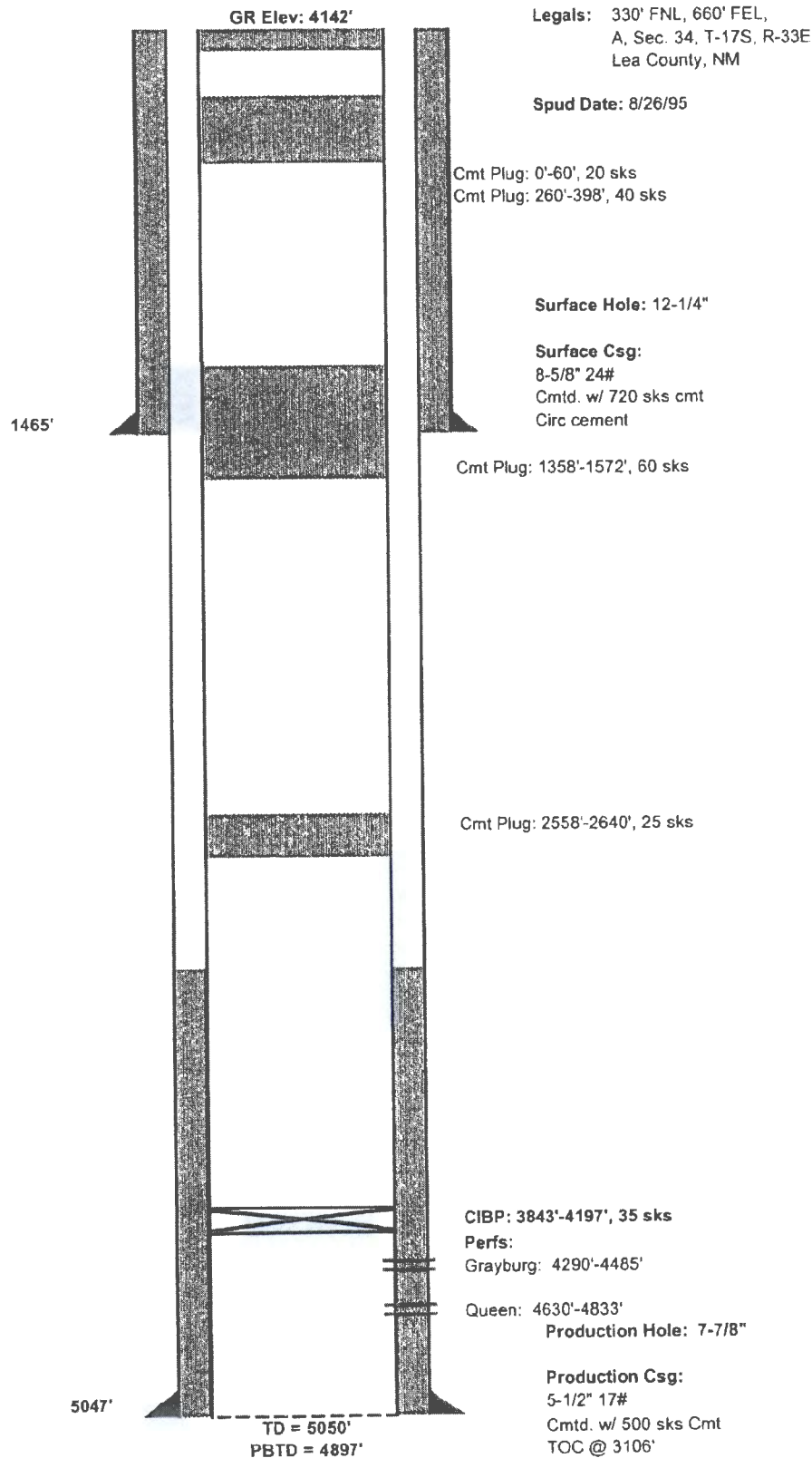
**PLUGGED ABO REEF OIL WELL**



**OFFSET WELL WELLBORE DIAGRAM  
SOUTHWEST ROYALTIES, INC.**

**EILLIAMS #12  
30-025-33094**

**PLUGGED GRAYBURG SWD WELL**







## New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD R=POD has  
suffix indicates the POD been replaced.  
has been replaced & no O=orphaned,  
longer serves a water C=the file is  
right file.) closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Subbasin	County	q64	q16	q4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 03713		L	LE	3	4	1	28	17S	33E	624391	3630617	210		
L 04363		L	LE	1	2	3	35	17S	33E	627634	3628855	226	160	66
L 05055		L	LE	3	3	4	35	17S	33E	628042	3628259	233	150	83
L 05096		L	LE	3	3	4	35	17S	33E	628042	3628259	233	150	83
L 14159 POD1		L	LE	3	1	3	28	17S	33E	624030	3630169	298	165	133
CP 00758 POD1		CP	LE			3	04	18S	33E	624345	3626886	250		
L 04649		L	LE	1	1	3	03	18S	33E	625644	3627213	100	45	55

Average Depth to Water: 134 feet

Minimum Depth: 45 feet

Maximum Depth: 165 feet

Record Count: 7

PLSS Search:

Section(s): 28, 35, 3, 4

Township(s): 17S, 18S

Range: 33E

The wells above are located within the 1 mile AOR

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/9/19 1:43 PM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

EXHIBIT "D"

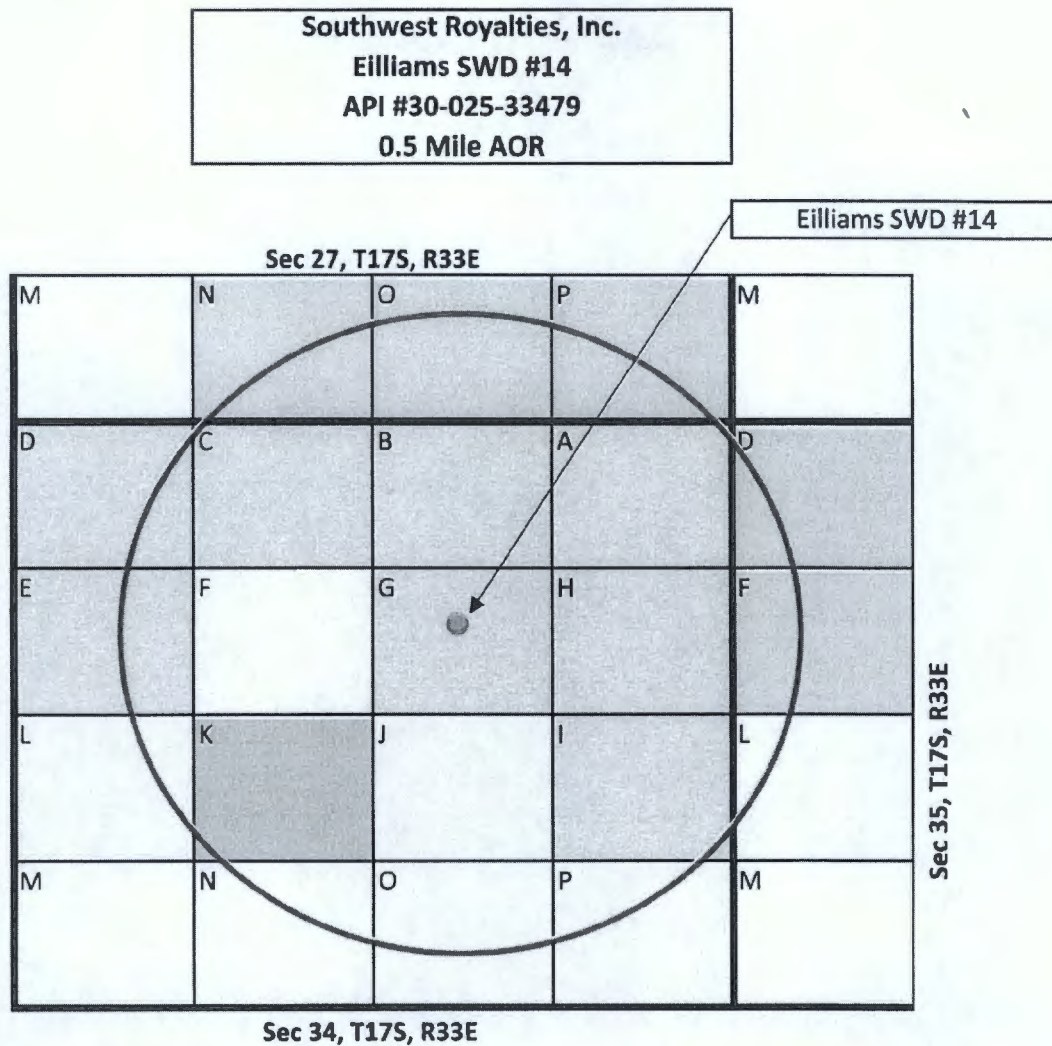
**Southwest Royalties, Inc.**  
**Eilliams SDS #14**  
**API #30-025-33479**  
**1605' FNL X 1980' FEL**  
**Unit Letter G, Section 34, T17S, R33E**  
**Lea County, New Mexico**  
**1 Mile AOR for Water Wells**

Well Name	API	Sec	TNS	RNG	Formation	Sample Source	Water Type	TDS	Chloride
Caprock Maljamar Unit #85	02501510	21	17S	33E	Grayburg/San Andres			100278	61851
Philmex #9	02520516	26	17S	33E	Grayburg/San Andres	Production Test	Produced	76638	43590
Phillips State #9	02501533	28	17S	33E	Grayburg/San Andres	Unknown		209215	124000
Philmex #1	02512554	28	17S	33E	Grayburg/San Andres	Unknown		104844	67120
Southeast Maljamar G #4	02501552	29	17S	33E	Grayburg/San Andres	Unknown		109627	
Denius Federal #3	02501376	33	17S	33E	ABO	Unknown		81000	45800

Data obtained from GO-Tech NMWAIDS data base.

EXHIBIT "D"





This location 1650' FNL X 1980' FEL  
 Surface Owner - Darr Angell, PO Box 190; Lovington, NM 88260  
 Drawing not to scale



Southwest Royalties  
P.O. Box 53570  
Midland, TX 79710



U.S. POSTAGE >> PITNEY BOWES  
ZIP 79710 \$ 001.60<sup>0</sup>  
02 4W  
0000358495 AUG 03 2020

NM OCD  
1220 S. Francis Drive  
Santa Fe, NM 87505