STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF AWR DISPOSAL, LLC TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE	NO.		

APPLICATION

AWR Disposal, LLC ("AWR"), OGRID No. 328805, through its undersigned attorneys, hereby makes this application to the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-12, for an order approving drilling of a salt water disposal well in Lea County, New Mexico. In support of this application, AWR states as follows:

- (1) AWR proposes to drill the Rubys Lounge SWD #1 well at a surface location 1462 feet from the North line and 1196 feet from the East line of Section 16, Township 23 South, Range 35 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.
- (2) AWR seeks authority to inject salt water into the Devonian-Silurian formation at a depth of 15,668' -17,359'.
- (3) AWR intends to use 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day.
- (4) AWR anticipates using an average pressure of 2,350 psi for this well, and it requests that a maximum pressure of 3,133 psi be approved for the well.
 - (5) A proposed C-108 for the subject well is attached hereto in Attachment A.

(6) The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

WHEREFORE, AWR requests that this application be set for hearing before an Examiner of the Oil Conservation Division on April 2, 2020; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS & SISK, P.A.

By:

Deana Bennett

Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 Attorneys for Applicant **CASE NO.** : Application of AWR Disposal, LLC for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving the Rubys Lounge SWD #1 well at a surface location 1462 feet from the North line and 1196 feet from the East line of Section 16, Township 23 South, Range 35 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. Applicant seeks authority to inject salt water into the Devonian-Silurian formation at a depth of 15,668' -17,359'. Applicant requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said location is approximately 15.1 miles southwest of Eunice, New Mexico.

				Revised March 23, 201
RECEIVED	REVÆR	TYPE	APP NO:	
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No	t <mark>e: Statement must</mark> be compl	eted by an individual with m	anagerial and/or super	visory capacity.
HRIS WEYAND			01 18 202 Date	20
rint or Type Name	4/		512-500-1764 Phone Number CHRIS a LONQUIST	
ignature		EXHIBI	a 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? X Yes No
II.	OPERATOR: AWR DISPOSAL, LLC
	ADDRESS: 3300 N. A Street, Ste 220, Midland, Texas 79705
	CONTACT PARTY: Chris Weyand (Agent) PHONE: 512-600-1764
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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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: Christopher B. Weyand
	SIGNATURE: DATE: 02/18/2020
*	E-MAIL ADDRESS: chris@longuist.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

Side 2

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.

INJECTION WELL DATA SHEET

OPERATOR: AWR DISPOSAL, LLC

Side 1

WELL NAME & NUMBER: RUBYS LOUNGE SWD #1

WELL LOCATION: 1462' FNL & 1196' FEL FOOTAGE LOCATION

H UNIT LETTER 16 SECTION 23S TOWNSHIP 35E RANGE

 ft^3

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: <u>30.000</u>"

Casing Size: <u>26.000</u>"

Cemented with: 2,867 sx.

or _____

Top of Cement: Surface

Method Determined: Circulation

1st Intermediate Casing

Hole Size: 24.000"

Casing Size: <u>20.000</u>"

Cemented with: 3,979 sx.

or _____ ft

Top of Cement: Surface

Method Determined: Circulation

2st Intermediate Casing

Hole Size: 17.500"

Casing Size: <u>13.375</u>"

Cemented with: 4,465 sx.

or _____ ft³

Top of Cement: Surface

Method Determined: Circulation

Production Casing

Top of Cement: <u>Surface</u> Method Determined: <u>Circulation</u>

Production Liner

Hole Size: <u>8.500"</u> Casing Size: <u>7.625"</u>

Cemented with: $\underline{327}$ sx. or $\underline{\qquad}$ ft³

Top of Cement: 11,200' Method Determined: Logged

Total Depth: <u>17,359</u>

Injection Interval

15,668 feet to 17,359 feet

(Open Hole)

INJECTION WELL DATA SHEET

	ring Size: 7", 26 lb/ft. P-110. TCPC from 0'- 11.100' and 5.500", 17 lb/ft, P-110 TCPC from 11,100' - 15,628 ing Material: Duoline
Тур	e of Packer: 7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel 925 trim
Pac	ker Setting Depth: 15,628'
Oth	er Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?XYesNo
	If no, for what purpose was the well originally drilled? N/A
2.	Name of the Injection Formation: <u>Devonian, Silurian, Fusselman and Montoya (Top 100')</u>
3.	Name of Field or Pool (if applicable): SWD; Devonian-Silurian
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. No. new drill
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Delaware: 5,749' Bone Spring: 9,031' Atoka: 12,850'

AWR Disposal, LLC

Rubys Lounge SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well	information
Lease Name	Rubys Lounge SWD
Well No.	1
Location	S-16 T-23S R-35E
Footage Location	1462' FNL & 1196' FEL

2.

a. Wellbore Description

		Casi	ng Information		
Туре	Surface	Intermediate 1	Intermediate 2	Production	Liner
OD	26"	20"	13.375"	9.625"	7.625"
WT	0.75"	0.635"	0.455"	0.435"	0.500"
ID	24.500"	18.730"	12.415"	8.755"	6.625"
Drift ID	24.500"	18.542"	12.259"	8.750"	6.500"
COD	26"	21.00"	14.375"	10.625"	7.625"
Weight	202 lb/ft	133 lb/ft	68 lb/ft	43.5 lb/ft	39 lb/ft
Grade	X56	K-55	HCL-80	HCP-110	P-110
Hole Size	30"	24"	17.5"	12.25"	8.5"
Depth Set	1,900′	4,150′	5,700'	11,700'	11,200′ – 15,668′

b. Cementing Program

		Ceme	nt Information		
Casing String	Surface	Intermediate 1	Intermediate 2	Production	Liner
Lead Cement	Extendacem	Neocem	N/A	N/A, Neocem, Neocem	Neocem
Lead Cement Volume	1,017 sx	1,461	N/A	Stage 1: N/A Stage 2: 345 sx Stage 3: 883 sx	327
Tail Cement	Halcem	Halcem	Neocem	Versacem C, Halcem, Halcem	N/A
Tail Cement Volume	1,850 sx	2,518	Stage 1: 1,624 sx Satge 2: 2,841 sx	Stage 1: 897 sx Stage 2: 590 sx Stage 3: 413 sx	N/A
Cement Excess	75%	60%	60%	25%	35%
TOC	Surface	Surface	Surface	Surface	11,200′
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

	Tubing Inform	ation
OD	7"	5.5"
WT	0.362"	0.304"
ID	6.276"	4.892"
Drift ID	7.875"	6.050"
COD	6.151"	4.653"
Weight	26 lb/ft	17 lb/ft
Grade	P-110 TCPC	P-110 TCPC
Depth Set	0'-11,100'	11,100' -15,628'

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman, Montoya (Top 100')

2. Gross Injection Interval: 15,668' – 17,359'

Completion Type: Open Hole

3. Drilled for injection.

4. See the attached wellbore schematic.

5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Delaware	5,749'
Bone Spring	9,031'
Atoka	12,850'

VI. Area of Review

Within the 1-mile AOR, only the Sandwell AEQ State #1 (API No. 30-025-25661) well penetrates the proposed injection interval. As shown in the attached well records, the well (TD = 15,972') was drilled 358' into the Devonian (Top @ 15,614'). A plug (50 sx) was then spotted from 15,645' to 15,520' isolating the proposed injection zone from formations above. Another 50-sx-plug was spotted from 14,769' to 14,644'.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 40,000 BPD Maximum Volume: 50,000 BPD

- 2. Closed System
- 3. Anticipated Injection Pressure:

Average Injection Pressure: 2,350 PSI (surface pressure)
Maximum Injection Pressure: 3,133 PSI (surface pressure)

- 4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Wolfcamp formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Delaware, Bone Spring, Wolfcamp, and Atoka formations.
- 5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

A. Injection Zone: Siluro-Devonian Formation

Formation	Depth
Rustler Anhydrite	1,764
Capitan	4,146
Capitan Reef	4,551
Lamar	5,687
Delaware	5,749
Bone Spring	9,031
Wolfcamp	11,614
Strawn	12,446
Atoka	12,850
Morrow	13,763
Barnett	14,759
Mississippian	15,030
Woodford	15,363
Devonian	15,618
Fusselman	16,663
Montoya	17,259

B. Underground Sources of Drinking Water

Two water well exists within one mile of the proposed well location. One of these wells is reported to have a total depth of 875 ft with depth to water not being reported. The other well does not have depths reported. Water wells in the surrounding area have an average total depth of 593 ft and an average depth to water of 188 ft generally producing from the Santa Rosa. The upper Rustler may also be another USDW and will be protected. The Capitan reef and corresponding aquifer has been identified as a protectable water source, so an additional casing string will be set in the well.

IX. Proposed Stimulation Program

Stimulate with up to 50,000 gallons of acid.

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

There are two water wells that exist within one mile of the proposed well location. If a sample can be obtained, analysis results will be provided as soon as possible. A map showing the two water wells and Water Right Summary from the New Mexico Office of the State Engineer for water well CP 00568 are attached.

XII. Affirmative Statement of Examination of Geologic and Engineering Data

Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone (in the proposed Ruby's Lounge SWD #1) and any underground sources of drinking water.

NAME: Herb Wacker

TITLE: Geologist

SIGNATURE: <u>Med A Milaclan</u>
TBPG # 4517

DATE: <u>Mac. 1, 2019</u>

District II
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
611 5 First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Bhazzo Road, Azter, NM 87410
Phone: (505) 334-6178 Fax (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

□AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

			Operator Name a		· · ·			OGRID Numb	
			AWR DISPO					API Number	
			Midland, Te	xas 79705				TBD	CING
* Propo	rty Code		<u>_</u> .	Propert Rubys Lou	y Name nge SWD	Name e SWD "Well No.			eli No.
				5 Surface L	ocation				
UL - Lot	Section	Township	Range		1 from	N'S Line	Feet From	EW Lane	County
H	16	23\$	35E		462	NORTH	1196	EAS1	LEA
111 1	C. die	T	Panus.	Proposed Botto	t from	NS Line	Feet From	F.W.Line	Court
UI - Lot	Section	Township	Range	Lorium Fee	a man	S S Line	r cei r roin	E W Line	County
				* Pool Infor	mation				
				Pool Name					Pool Code
				SWD. DEVONIAN-SIL	URIAN				97869
21 222	1 *		1° as to	Additional Well			7 7	1 33.0	und Level Elevation
	k Type		Well Type SWD		e Rotary R		Lease Type Private	Gro	3.505'
	ultiple N		Proposed Depth 17,359		mation an-Silurian		Contractor TBD		2 Spud Date ASAP
Depth	to Ground wa	аіст		Distance from nearest fi	resh water well		Di	stance to nearest sur	face water
Type Surface		e Size	Casing Size	Casing Weight ft	I Set	ting Depth	Sacks of C	'course down't	Estimated TO
				Casing Weight n	1 50				
		10	26"	202 lb ft		1,900°	2,86		Estimated TOC Surface
Intermediate	1 2	24"	26"	202 lb ft 133 lb/ft				7	
						1,900	2,86	7	Surface
	2 1	24"	20"	133 lb/fi		1,900° 4,150°	2,86 3,97	7 9 5	Surface Surface
Intermediate	2 1	7.5"	20" 13.375" 9.625" 7.625"	133 lb/ft 68 lb ft 43.5 lb/ft 39 lb/ft	11,20	1,900° 4,150° 5,700° 11,700° 00° - 15,668°	2,86 3,97 4,46	7 9 5 9	Surface Surface
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Double 3 I hereby coff my knowle further cer 9.15.14.9 (Eignature:	2 11 12 8 sematic Type Hydruslic Bottify that the dige and be tify that I it is considered to the tify that I is considered to the t	linds. Pipe linds.	20" 13.375" 9.625" 7.625" Casing 2 p	133 lb/fi 68 lb fi 43.5 lb/fi 39 lb/fi /Cement Program: roposed Blowout P Vorking Pressure 10.000 psi	Additional revention P Approved Title:	1,900° 4,150° 5,700° 11,700° 00° - 15,668° Comments rogram Test Press 8,000 ps OIL (2,86 3,97 4,46 3,12 327	M. TBD	Surface Surface Surface Surface 11,200'
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Double Bar attached sel Double Bar I hereby coof my knowled further cer 19.15.14.9 (E) Signature: Printed name	Type Hydruslic B rtify that the ddge and be tify that I i Christopheting Engine	linds. Pipe linds	20" 13.375" 9.625" 7.625" Casing 2 p	133 lb/fi 68 lb/fi 43.5 lb/ft 39 lb/ft /Cement Program: roposed Blowout P Working Pressure 10.000 psi ac and complete to the be	Additional revention P Approved Title: Approved	1,900° 4,150° 5,700° 11,700° 00° - 15,668° Comments rogram Test Press 8,000 ps OIL (2,86 3,97 4,46 3,12 327	M. TBD	Surface Surface Surface Surface 11,200'

District 1
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161. Fax. (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283. Fax. (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178. Fax. (505) 334-6170
District IV.
120 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460. Fax. (505) 476-3462

12 Dedicated Acres

Joint or Infill

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe. NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code 97869 SWD: DEVONIAN-SILURIAN Property Code Property Name Well Number RUBYS LOUNGE SWD 1 OGRID No. Operator Name Elevation AWR DISPOSAL, LLC 3505 328805 10 Surface Location Feet from the North/South line Feet from the East/West lis Ul. or lot no Lot ide 23-S 35-E 1462' NORTH 1196' EAST LEA 16 H ¹¹Bottom Hole Location If Different From Surface Feet from the North/South lis Feet from the East/West lin L'L or lot no. Section Township Ram Lot Ide

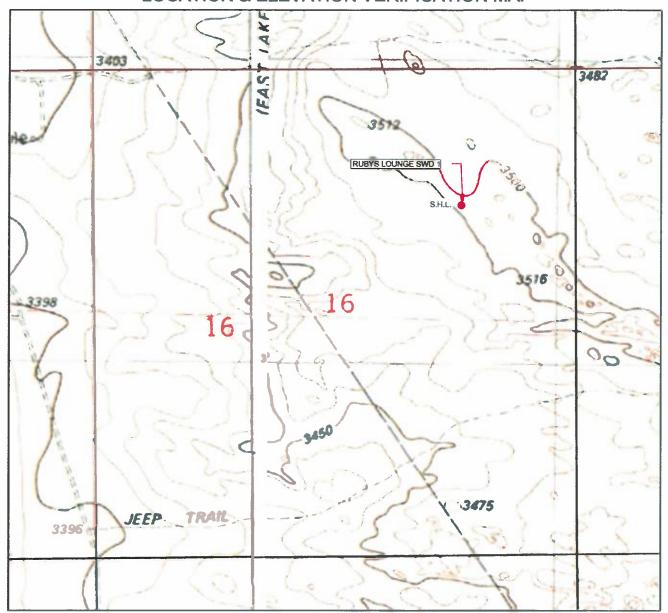
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Consolidation Code

X=840795.87 Y=478547.85

X=835525.95 Y=478503.46	X=838164.29 Y=478529.11	1462'	17 OPERATOR CERTIFICATION Levely certify that he information contained herein. It we need complete to the best of my knowledge and that this organization either owns a working rederest or unhanced marred waterest in the level techniques the proposed bottom hole location or has a right to drift this well at this location pursuant is a contract with an owner of such a mineral or working interest, or to a subsidiary pooling agreement or a congruisory pooling order heretafure entered by the thicknown.
	SURFACE LOCATION NEW MEXICO EAST NAD 1983 X=839614 Y=477078 LAT.: N 32.3078670 LONG.: W 103.3678945	1196'	Chris Weyand Printed Name Chris@lonquist.com E-mail Address
X=835547.51 Y=475863.01		X=840820.56 Y=475911.08	18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supercusion and that the same is true to the best of my belief
X=835570.37 Y=473223.40	X=838214.04 Y=473249.31	X=840843.67 Y=473274.14	Dortellicate Number TSLO_RUBYS_LOUNGE_SAID_1 DWG 9/17/2019 2 31 13 PW hpercappor

LOCATION & ELEVATION VERIFICATION MAP



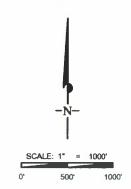
AWR DISPOSAL, LLC

LEASE NAME & WELL NO.: RUBYS LOUNGE SWD 1

 SECTION
 16
 TWP
 23-S
 RGE
 35-E
 SURVEY
 N.M.P.M.

 COUNTY
 LEA
 STATE
 NM
 ELEVATION
 3505'

 DESCRIPTION
 1462' FNL & 1196' FEL



THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY ACCELERATED WATER RESOURCES, UP. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



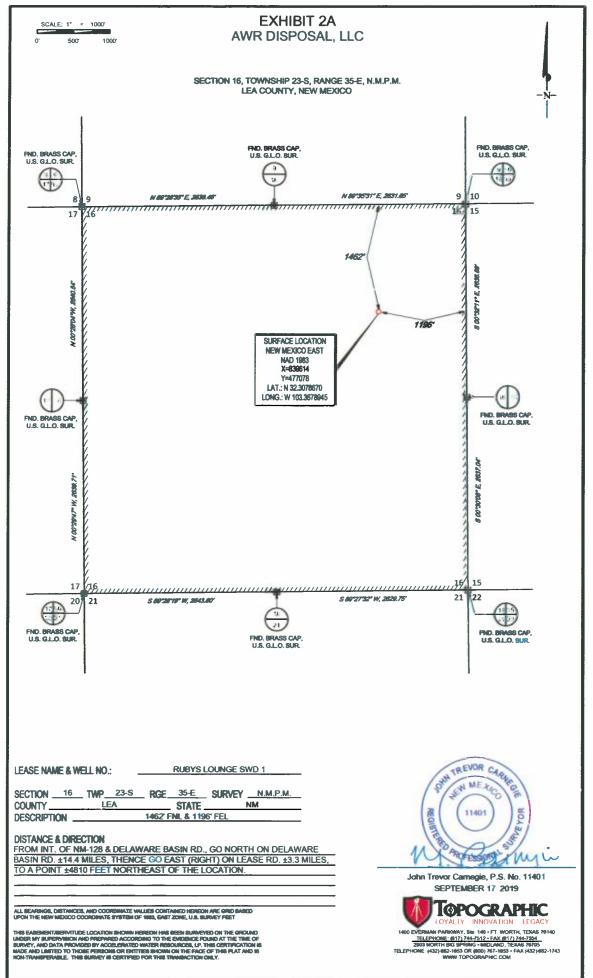
1400 EVERMAN PARKWAY, Sto. 146 - FT. WORTH, TEXAS 76140

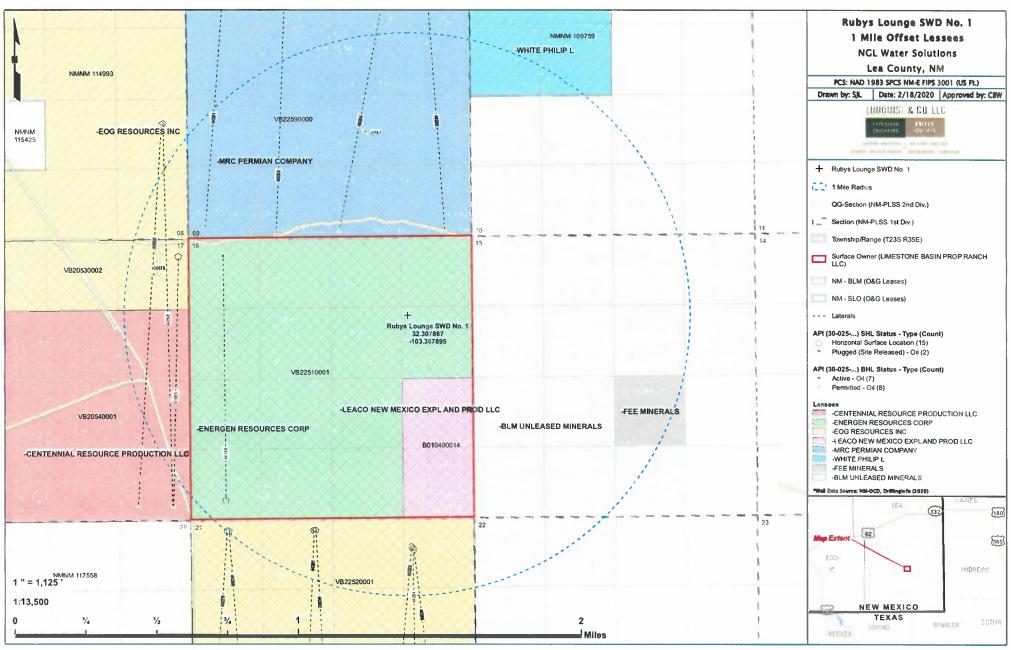
TELEPHONE: (817) 744-7512 - FAX (817) 744-7554

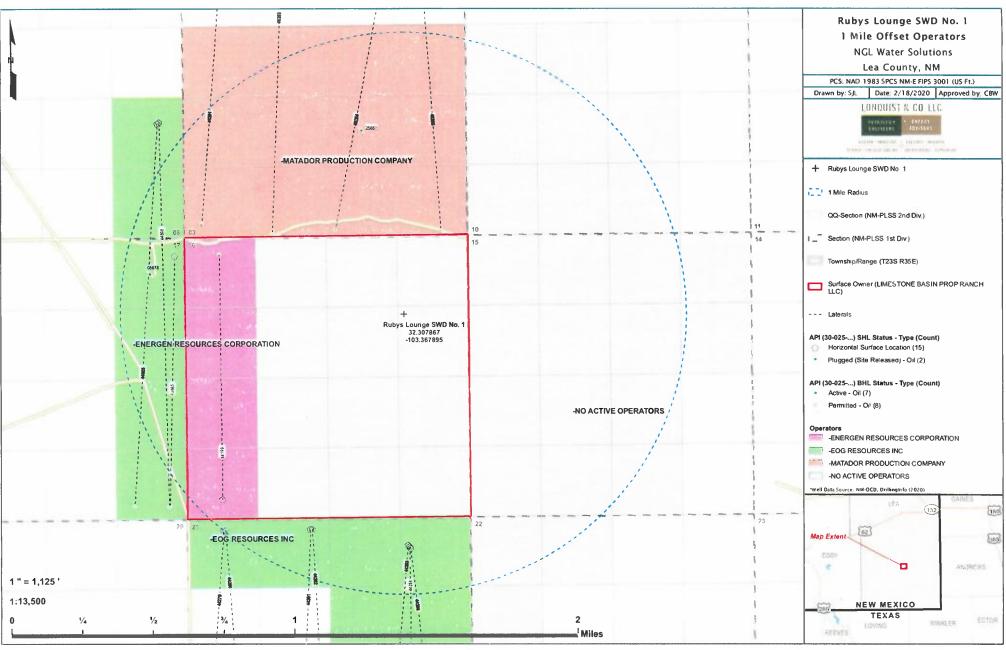
2903 NORTH BIG SPRING - MIDLAMD, TEXAS 78765

TELEPHONE: (432) 682-1653 OR (800) 787-1653 - FAX (432) 682-1743

WWW.TOPOGRAPHIC.COM





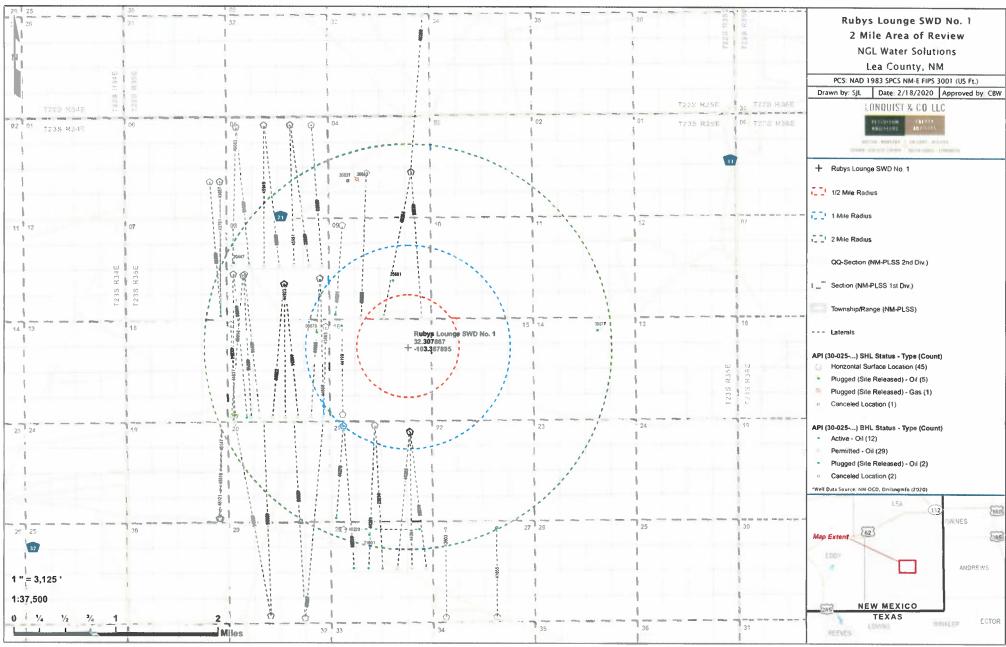


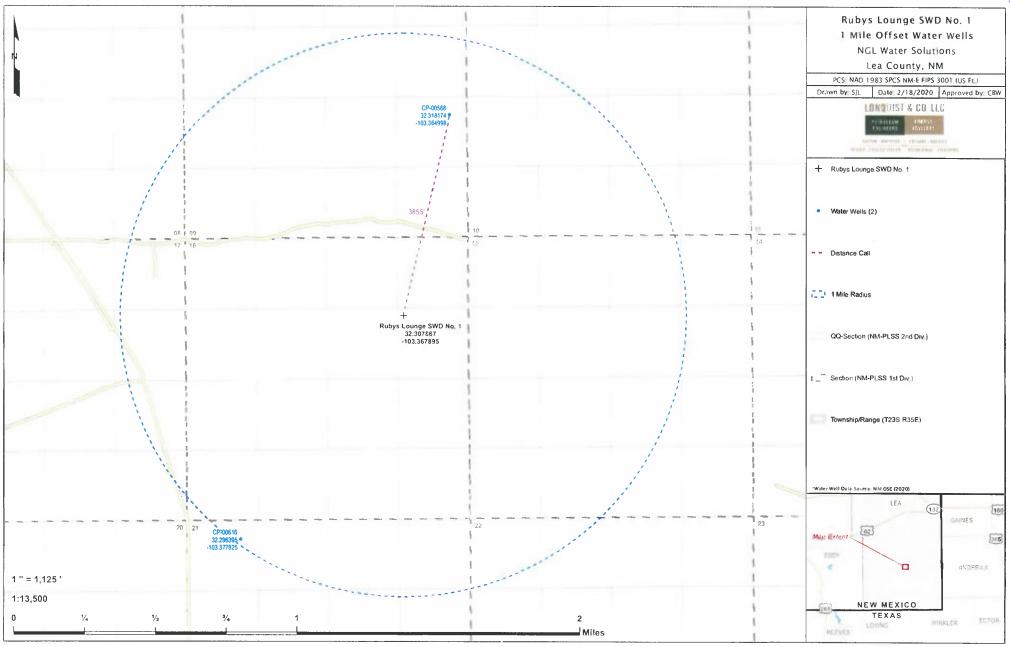
Rubys Lounge SWD No 1 1 Mile Area of Review List

API (30-025)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	SPUD DATE	FIELD
08678	STATE-HENRY #001-17	0	Р	MURPHY CORPORATION	4500	32.3100510	-103.3831558	2/27/1957	WILDCAT
25661	SANDWELL AEQ STATE #001	0	Р	EOG Y RESOURCES, INC.	15972	32 3173103	-103 3703232	10/5/1977	[52769] ROCK LAKE, BONE SPRING, SOUTH
43665	WICKED 17 STATE COM #301H	0	Α	EOG RESOURCES INC	9918	32.3109926	-103 3816781	4/9/2017	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
44199	PEGASUS 23 35 16 STATE #251H	0	Α	ENERGEN RESOURCES CORPORATION	9874	32.2984330	-103 3789400	2/13/2018	[98246] WC-025 G-06 S233516M, MIDDLE BONE SP
44201	MARLAN DOWNEY 9 23 35 AR STATE #111H	0	Α	MATADOR PRODUCTION COMPANY	9915	32 3254929	-103.3787458	12/31/2017	[52769] ROCK LAKE, BONE SPRING, SOUTH
44279	HUNTER 21 STATE #601H	0	Α	EOG RESOURCES INC	11636	32.2968246	-103 3788906	2/14/2018	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
44280	HUNTER 21 STATE COM #602H	0	Α	EOG RESOURCES INC	11633	32.2968247	-103 3787838	2/17/2018	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
44281	HUNTER 21 STATE COM #603H	0	Α	EOG RESOURCES INC	11641	32.2968289	-103.3736482	2/3/2018	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
44282	HUNTER 21 STATE COM #604H	0	A	EOG RESOURCES INC	11615	32.2968290	-103.3735414	3/3/2018	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
44283	HUNTER 21 STATE COM #605H	0	N	EOG RESOURCES INC	0	32.2964741	-103 3699354	54	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
44284	HUNTER 21 STATE COM #606H	0	N	EOG RESOURCES INC	0	32 2958719	-103.3676910	- 4	[97958] WC-025 G-08 S233S28D, LWR BONE SPRIN
44285	HUNTER 21 STATE COM #607H	0	N	EOG RESOURCES INC	0	32 295 7963	-103 36763 1 9	74	[97958] WC-025 G-08 S233528D, LWR BONE SPRIN
44898	FUNKY MONKS 8 FEDERAL COM #608H	0	N	EOG RESOURCES INC	0	32.3178609	-103 3825336		[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
44925	FUNKY MONKS 8 FEDERAL COM #607H	0	N	EOG RESOURCES INC	0	32.3178106	-103 3826227	- 4	[2205] ANTELOPE RIDGE, BONE SPRING, NORTH
46253	MARLAN DOWNEY 4 9 23S 35E STATE COM #112H	0	N	MATADOR PRODUCTION COMPANY	0	32 3329371	-103 3746826		[52769] ROCK LAKE, BONE SPRING, SOUTH
46254	MARLAN DOWNEY 4 9 23S 35E STATE COM #113H	0	N	MATADOR PRODUCTION COMPANY	0	32.3329429	-103.3671384	-	[52769] ROCK LAKE, BONE SPRING, SOUTH
46255	MARLAN DOWNEY 4 9 235 35E STATE COM #114H	0	N	MATADOR PRODUCTION COMPANY	0	32.3330254	-103.3671385	2.4	[52769] ROCK LAKE, BONE SPRING, SOUTH

Rubys Lounge SWD No 1 1 Mile Offset Operators and Lessees List

S/T/R	QQ UNIT LETTER(S)	OPERATOR	MINERAL LESSEE	MINERAL OWNER	SURFACE OWNER	ADDRESS 1	ADDRESS 2
8/23S/35E	15	EOG RESOURCES INC		(10)		PO BOX 2267	MIDLAND, TX 79702
9/23S/35E	EFGHIJKL MNOP	MATADOR PRODUCTION CCMPANY	The second secon	-	27	ONE LINCOLN CENTRE 5400 LBJ FREEWAY STE 1500	DALLAS, TX 75240
10/23S/35E	EF		ώ⇔ TE PHIUP L			PO BOX 25968	ALBUQUERQUE, NM 87125
	JKLMNO	*0	MILANO, CHICA	BUREAU OF LAND MANAGEMENT	**	301 DINOSAUR TRAIL	SANTA FE, NM 87508
15/23 S/35E	A.B.C.D.E.F.G.H.K LMIN O	*E	1.7	BUREAU OF LAND MANAGEMENT	+1	301 DINOSAUR TRAIL	SANTA FE, NM 87508
	J	+1	414 97 434 947	PRIVATE	+1		-
16/23S/35E	O.E.LM	ENERGEN RESOURCES CORPORATION	1.4	J FO	+-	3510 N A ST	MIDLAND TX 79705
	A.B.C.F.G.H.J.KN.O	÷.	ENERGEN RESOURCES CORP	(4)	**	605 RICHARD ARRINGTON JR BLVD NORTH	BIRMINGHAM, AL 35202
	i,P	8.0	LEACO NEW MEXICO EXPL AND PRODILIC			2000 POST OAK BLVD SUITE 100	HOUSTON, TX 77056
17/23S/35E	A,HLP	EOG RESOURCES INC				PC BOX 2267	MIDLAND, TX 79702
21/23S/35E	A.B.C.D.G.H	EOG RESOURCES INC	(4:	E-:		PO BOX 2267	MIDLAND, TX 79702
22/23S/35E	CDE		4	BUREAU OF LAND MANAGEMENT	4/-	301 DINOSAUR TRAIL	SANTA FE, NM 87508
Surface Location		-	-	-	LIMESTONE BASIN PROPIRANCHILLO	3300 N A ST PLDS 1 STE 220	MICLAND, TX 79705





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							Rubys Lounge SWD #1	: Offse	tting Produc	ed Water Anal	ysis							
wellname	api	section	township	range	unit	county	formation	ph	tds_mgl.	sodium_mgL	calcium_mgt	iron_mgL	magnesium_mgL	manganese_mgl	chloride_mgL	bicarbonate_mgl.	sulfate mgL	co2 mgl
ANTELOPE RIDGE UNIT #002	3002520444	4	245	34E	В	LEA	ATOKA	6.7	51475						31000	317	340	
TODD 26 G FEDERAL #001	3001520242	26	235	31E	G	EDDY	ATOKA	6.7	202478						126000	93	540	Ī
BELL LAKE UNIT #009	3002520261	18	235	34E	K	LEA	BONE SPRING		204652						130000	512	260	
THYME APY FEDERAL #002	3002533529	1	235	32E	G	LEA	BONE SPRING	6.1	172896		0	0	2025		104976	781	1150	T
THISTLE UNIT #071H	3002542425	27	235	33E	Α	Lea	BONE SPRING 1ST SAND	5.6	171476.3	55363.2	9140	40.4	1023	1.1	104576.4	244	560	770
SEA SNAKE 35 STATE #001H	3002541625	35	235	33E	M	Lea	BONE SPRING 2ND SAND	7	146173 6	48514.2	6777	38.9	763.1	1.51	88880	207.4	635	60
GAUCHO UNIT #013H	3002541565	20	225	34E	Α	Lea	BONE SPRING 2ND SAND	7.5	139904 6	46238 1	6396.8	47_2	863.7	2.1	85080.8	292.8	740	550
SALADO DRAW 6 FEDERAL #001H	3002541293	6	265	34E	M	Lea	BONE SPRING 3RD SAND	7	98321.4	33892.3	3267	9.5	534.7	0.39	59386.6	219 6	635	300
GAUCHO UNIT #011H	3002541184	17	225	34E	0	Lea	BONE SPRING 3RD SAND	6.8		43301	5338	0	769	0	78300	122	640	120
BELLOQ 2 STATE #002H	3001542895	2	235	31E	C	EDDY	WOLFCAMP	6.8	119472	37359.2	5659.1	22,4	746.1		73172.5		1035.5	250
SWEETNESS 30 STATE FED COM #001H	3002541864	30	235	35E	G	Lea	DELAWARE-BRUSHY CANYON	5.5		53792	19065	78	2983	4.34	126850	122	690	220
RED BULL 29 FEDERAL #001H	3002540628	29	235	35E	D	Lea	DELAWARE-BRUSHY CANYON	6.3		71207	35626	28	5417	6.2	190774	61	90	120



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

CP 00568

653908 3576878*

Driller License:

Driller Company: ABBOTT BROTHERS COMPANY

Driller Name:

ABBOTT, MURRELL

Drill Start Date:

10/18/1977

Drill Finish Date:

11/01/1977

Plug Date:

12/09/1977

Log File Date:

11/03/1977

PCW Rcv Date:

Depth Well:

Source:

Pump Type: Casing Size:

7.00

Pipe Discharge Size:

875 feet

Estimated Yield: Depth Water:

*UTM location was derived from PLSS - see Help

Form C-105 Revised 10-1-78

STATE OF ME								-		sed 10-1-78
ENERGY AND MINERA		MENT	OII	CONSERV	ATION D	ıv	ISION	ب ے	16	
00. 01 601/63 0461	-		OIL		OX 2088			Su	penny	Type of Lease
SANTA FE			SA	NTA FE, NE		8	7501	<u> </u>	State X	Cos Lease No.
FILE			-	50 50				- 1	V-531	TOS LEGIO (40.
U.3.0.5.		□ wei	LL COMPLE	TION OR RE	COMPLETIO	NR	EPORT ANI	D LOG	(<i>LLLLL</i>	mmmm
LAND OFFICE										
ID TYPE OF WELL									77777	ment Name
10. TYPE OF WELL		014 E	F) 645	()	_			,	Omi Agree	Suchit Manue
b. TYPE OF COMPLE	FTION	MELL	XI WELL	DAY	OTHER_	RI	E-ENTRY		Farm or Le	rase Name
-	ORK []	۲	PLUG	DIFF.	7					
2. Name of Operator	en L	DEEPENL	BACR	L ACSVA.L	R3H70 L			- 3	Sandwell Well No.	1 AEQ State
Yates Per	troleum	Corno	ration							1 10
2. Aduress of Operator		OOLPO	Lacion					10	Field and	Pool, or Wildcat
105 South	a 4th St	Ar	tesia, NM	88210				1	Vildcat	·
14. Location of Well		, , , ,		00210					VIIICAL	mmmm
	•							1		
UNIT LETTER		198	80	Sout	h		1980		111:11:	
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THE East LINE OF	sec. 9	TWP.	235 **	E. 35E NM		111	113111111	//////////////////////////////////////	.ea	
15. Date Spudded	16. Date 7		hed 17. Date	Compi. (Ready t	o Prod.) 18. 1	Elev	ations (DF, RK	11111		lev. Cashinghead
RE-ENTRY 5-31-87	1	3-87	1	-8-87			93' GR			
23, Total Depth			ack T.D.	22. If Mult	iple Compl., Ho		23. Intervals	, Rotary To	ools	, Cable Tools
COTD 12978'		111	L65'	Many			Drilled B	y : X		i I
24. Producing Interval	s), of this co	mpletion	- Top, Botton	, Name					25	. Was Directional Survey
										Made
8752-8786;	10830-1	1108'	Bone Spi	rings	100				- 1	No
25. Type Electric and (Other Logs R	lun	····						27. Was	Well Cored
None for Re	-Entry								No	
128.			CAS	ING RECORD (R	eport all strings	50!	in well)			
CASING SIZE	WEIGHT	LB./FT	. DEPTH	SET H	OLE SIZE		CEMENTI	NG RECORD		AMOUNT PULLED
20"	9	4#	516	5 7 2	6"	2377	950	sx (in p	lace)	N N
13-3/8"	6	8#	565	5' 1	7-1/2"		2900	sx (in	place)	
9-5/8"	41	0#	118	340' 1	2-1/4"		1550	sx (in	place)	

29.		LINE	RRECORD				30.	TUBI	NG RECOR	80
SIZZ	TOP		POTTOM	SACKS CEMEN	T SCREEN		SIZE	DEPTH	ser	PACKER SET
							2-7/8"	873	21	
								<u></u>		
31. Perforation Record	Interval, siz	e and nu	mber)		32.	ACI	D, SHOT, FRAC	CTURE, CEN	ENT SOUR	EZE, ETC.
9752 061/20	/ 0 !! **	•			DEPTH					MATERIAL USED
8752-86' w/10 10830-11108'			ξ,		8752-86					SF w/10000g.
10030-11100	W/24 .43	D. HOT	es		10000	11		L, 10000	A THE PARTY OF THE	•
					10830-1	.11				Re-acid w/
23				PA	L COLORIO		k0	000g. 20	6 NEFE	acid+CO2.
33. Date First Presidention	1 e	Droduction	Mathod /Flow	ing, gas lift, pur	DUCTION	1 100	ne numi	<u>_</u>	all Status /	Prod. or Shut-inj
8-4-87	1	1001321101	n Kibinod (12 tok	Pumping	ning - Size on	* * 7 {*	e pampy	1		
Date of Test	Hours Test	~T	Choke Size	Predin. For	OH = 881.		Gas MCF	Water -	Produci	.ng Gra Oil Ratio
8-8-87		24	Open	Test Period	26		12	44		462
Flow Tubing Press.	Casing Pre	aswe	Calculated 24-	:DII — BbI.	Gun - M	l		- 6bl.	100.00	avily - API (Corr.)
_	-		How Hate	26	12		1	44		42°
34. Disposition of Gos (Sold, used fo	or juel, ve	nted, etc.)	1		_			nessed By	
Vented - Will									Locke	
15. List of Attachments						-			7	
DST										
to, I hereby cerufy that	the informati	on Muur	on both sides	of this form is t	rue an I complet	e to	the test of my	kroneledge ar	d belief.	
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sichenil (A		1)1	- Dileix	, ,	Productio	n S	Supervisor	r .	8/	14/87
3111170-1	المناطعة المناط	1	v. sulla	TITLE				DV.	re	/

INSTRUCTIONS

This form in to be filled with the appropriate District Office of the Division not later than 20 days after the complete and see newly-lifted or dispersed well. It should be accompanied by one copy of all electrical and redissectivity loop content to the well end a successive of all special tests conducted, including drill stem tests. All depths reported shall be accounted depths. In the case of directionally drilled wells, free vertical depths shall also be reported. For multiple complettons, from 30 through 34 shall be reported for each zone. The form is to be fill it in quantificate except on state land, where six captes are required, beginning 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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True casing trained atter casing countries (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting entry property). SER RULE 1703. Reached TD of 8 1/2" hole at 8:30 AM 1-20-78 at 15,972'. Loaded hole with abandonment mud. Spotted 50 sack plug from 15,645-15,520 with Class H 1% CFR-2, 50 sack plug from 14,769-14,644' with Class H 1% CFR-2, # salt. Spotted a 125' plug with Class H 1% CFR-2, 5# sand, 3# salt at 13,912'. Spotted a 100' sx plug with Class H 1% CFR-2, 5% sand, 3# salt at 13,885'. Set at 9 5/8" Cement retainer at 11,725'. Squeezed 290 sacks Class H below retainer, dropped 10 sacks cement on retainer. Cut and pulled 86 jts 9 5/8" casing at 3775'. Spotted a 175' plug at 3900' to 3725' with 85 sacks Class H cement, Spotted a 100' plug from 1900-1800' with 85 sacks Class H cement. Spotted a 100' plug from 1900-1800' with 85 sacks Class H cement. Spotted 10 sacks from 55' to surface. Set a dry hole marker and cleaned location.	NOTICE OF INTENTION	10.	LICE REPORT OF
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By: Slyn Sine VIVIC Area Engineer DATE 1-31-78	mud. Spotted 50 sack plu 14,769-14,644' with Class CFR-2, 5# sand, 3# salt a salt at 13,912'. Spotted 13,885'. Set at 9 5/8" Coretainer, dropped 10 sacks 3775'. Spotted a 175' plu a 100' plug from 1900-1800	g from 15,645-15,520 with Class H 1% CH 1% CFR-2, *# salt. Spotted a 125' t 14015'. Spotted 150 sx Class H with a 100 sx plug with Class H 1% CFR-2, ement retainer at 11,725'. Squeezed 2's cement on retainer. Cut and pulled by at 3900' to 3725' with 85 sacks Claso'	FR-2, 50 sack plug from plug with Class H / 1% 8% CFR-2, 5# sand, 3# 5% sand, 3# salt at 90 sacks Class H below 86 jts 9 5/8" casing at as H cement. Spotted
	1. Thereby certify that the information above in tive	and complete to the best of my knowledge and belief.	
	By: Dlem Vin	Area Engineer	DATE 1-31-78
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