

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

**APPLICATION OF CHEVRON USA INC.
TO APPROVE SALT WATER DISPOSAL
WELL IN LEA COUNTY, NEW MEXICO.**

CASE NO. _____

APPLICATION

Chevron USA Inc. ("Chevron"), OGRID No. 4323, through its undersigned attorneys, hereby applies 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, Chevron states as follows:

(1) Chevron proposes to drill the Papa Squirrel State SWD #1 well at a surface location 1,928' from the South line and 870' from the West line, Unit L, Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.

(2) Chevron seeks authority to inject salt water into the Bell Canyon/Cherry Canyon/Brushy Canyon from 4,625' to 8,939'.

(3) The tubing packer will be set at 4,525' feet, and production casing and cement will be set at 8,500'.

(4) Chevron requests that the Division approve a maximum daily injection rate for the well of 20,000 BWPD.

(5) Chevron requests that a maximum pressure of 925 psi be approved for the well.

(6) A proposed C-108 for the subject well is attached hereto in Attachment A.

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

WHEREFORE, Chevron requests that this application be set for hearing before an Examiner of the Oil Conservation Division on August 3, 2023; 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
Earl E. DeBrine, JR.
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 Chevron USA Inc. for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving the Papa Squirrel State SWD #1 well at a surface location 1,928' from the South line and 870' from the West line, Unit L, Section 13, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. Injection formations will be the Bell Canyon/Cherry Canyon/Brushy Canyon from 4625 feet to 8939 feet. The tubing packer will be set at 4525 feet, and production casing and cement will be set at 8500 feet. The maximum anticipated injection rate will be 20,000 BWPD and maximum surface injection pressure will be 925 psi. Said area is located approximately 26 miles west of Jal, New Mexico.

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

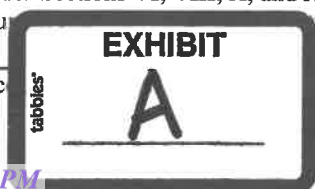
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance ☒ Disposal Storage
Application qualifies for administrative approval? x Yes No
- II. OPERATOR: Chevron USA Inc.
ADDRESS: 6301 Deauville Blvd, Midland, TX 79706
CONTACT PARTY: Tom Merrifield PHONE: 661-448-7489
- 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 ☒ 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. **ATTACHMENT 1**
- 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. **ATTACHMENT 2**
- VII. Attach data on the proposed operation, including: **ATTACHMENT 3**
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~~ ^{depth}. 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. **ATTACHMENT 4**
- IX. Describe the proposed stimulation program, if any. **ATTACHMENT 5**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **ATTACHMENT 6**
- 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. **ATTACHMENT 7**
- 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. **ATTACHMENT 8**
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. **ATTACHMENT 9**
- 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: _____ TITLE: _____
SIGNATURE: _____ DATE: _____
E-MAIL ADDRESS: _____
- XV. 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 circulate to the appropriate District Office: _____

DISTRIBUTION: Original and 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.

District I
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
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

¹ API Number		² Pool Code 96100		³ Pool Name SWD; DELAWARE	
⁴ Property Code		⁵ Property Name PAPA SQUIRREL SWD			⁶ Well Number 1
⁷ OGRID No. 4323		⁸ Operator Name CHEVRON U.S.A. INC.			⁹ Elevation 3204'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	13	26 SOUTH	32 EAST, N.M.P.M.		1928'	SOUTH	870'	WEST	LEA

¹¹ 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
L	13	26 SOUTH	32 EAST, N.M.P.M.		1928'	SOUTH	870'	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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>¹⁶ A</p> <p>870'</p> <p>1928'</p> <p>PAPA SQUIRREL SWD NO. 1 WELL</p> <p>X= 716,780' Y= 379,275' NAD 27 LAT. 32.040812° N LONG. 103.633727° W</p> <p>X= 757,958' Y= 379,332' NAD83/2011 LAT. 32.040937° N LONG. 103.634198° W ELEVATION +3204' NAVD 88</p> <p>CORNER COORDINATES TABLE (NAD 27)</p> <p>A - X=715890.15', Y=382677.22' B - X=721215.23', Y=382746.10' C - X=715922.04', Y=377338.54' D - X=721248.72', Y=377390.10'</p> <p>13</p> <p>C</p>	<p>¹⁷ 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 unleased 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>E-mail Address _____</p>
	<p>¹⁸ 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>01/25/2022 Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>04/06/2022</p> <p>Certificate Number</p>

Side 1

INJECTION WELL DATA SHEET

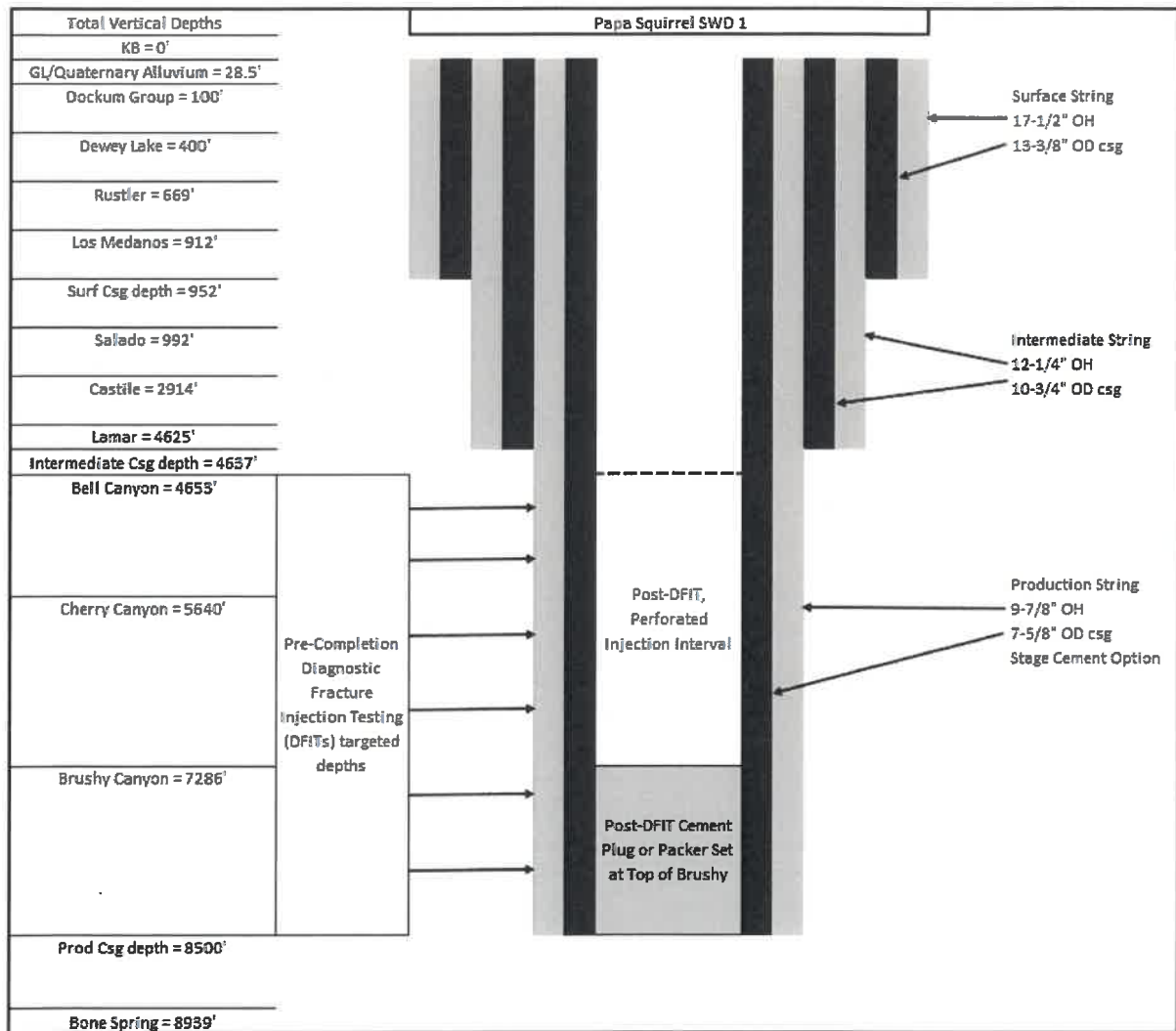
OPERATOR: Chevron U.S.A. Inc.WELL NAME & NUMBER: Papa Squirrel SWD 1WELL LOCATION: 1928' from South, 870' from West, L 13, 26 South, 32 East, N.M.P.M.
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATIC

See next page

WELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8"
Cemented with: 380 sx. or 497 ft³
Top of Cement: Surface Method Determined: VolumetricIntermediate CasingHole Size: 12-1/4" Casing Size: 10-3/4"
Cemented with: 320 sx. or 758 ft³
Top of Cement: Surface Method Determined: VolumetricProduction CasingHole Size: 9-7/8" Casing Size: 7-5/8"
Cemented with: 650 sx. or 1529 ft³
Top of Cement: Surface Method Determined: Volumetric
Total Depth: 8500'Injection Interval4625' feet to 8939' *

* Brushy Canyon is included as a potential injection interval. The Brushy is not intentionally targeted for injection, but the SA&O data and analysis may indicate that fluids migrate into the (Perforated or Open Hole; indicate which) Brushy, but are contained by the Bone Spring Limestone.

Page 4



Side 2

INJECTION WELL DATA SHEET

Tubing Size: 5-1/2" Lining Material: _____
 Type of Packer: Hydraulically set packer
 Packer Setting Depth: 4525'
 Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? X Yes _____ No
 If no, for what purpose was the well originally drilled? _____
2. Name of the Injection Formation: Bell Canyon, Cherry Canyon, and Brushy Canyon *
3. Name of Field or Pool (if applicable): SWD; Delaware Mountain Group
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, this is a proposed new SWD well.
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Depths are within a 3 mile area.
Atoka (14,418-14,545 ft MD), Avalon (8,819-9,749 ft TVD), Bone Spring (8,706-12,028 ft TVD),
Devonian (17,468-17,567 ft MD), Morrow (15,999-16,050 ft MD), Pennsylvanian (14,370-14,826 ft MD),
Silurian (17,464-17,512 ft MD), and Wolfcamp (9,065-13,145 ft TVD).

* Brushy Canyon is included as a potential injection interval. The Brushy is not intentionally targeted for injection, but the SA&O data and analysis may indicate that fluids migrate into the Brushy, but are contained by the Bone Spring Limestone.

Page 6

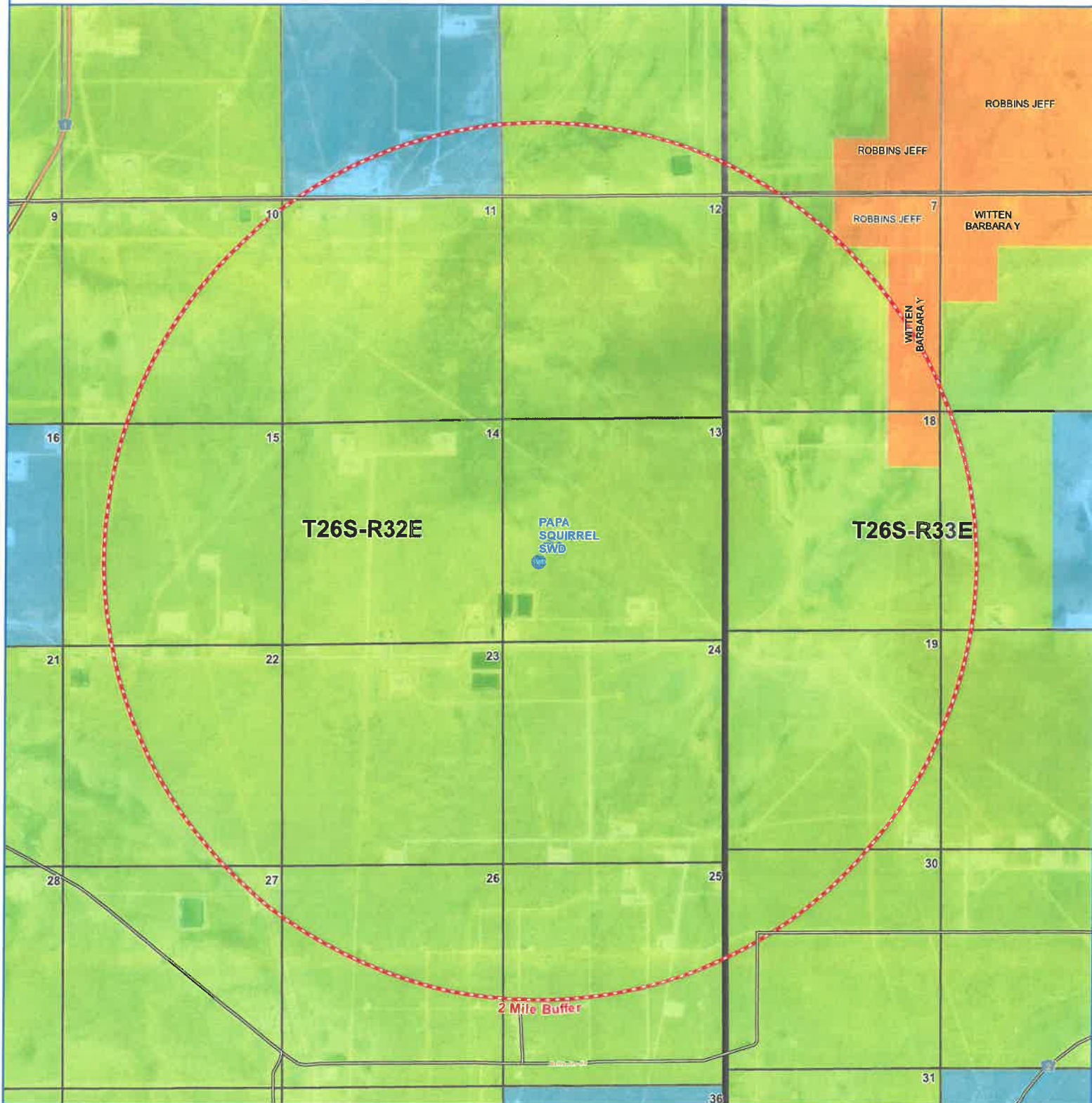
ATTACHMENT 1

Item V



SURFACE OWNERSHIP MAP**PAPA SQUIRREL SWD**

Section 13, Township 26 South, Range 32 East, Lea County, New Mexico

**Legend**

Proposed SWD

2 Mile Buffer

Federal

State

Private



Coordinate System:
 NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
 Projection: Transverse Mercator
 Datum: North American 1983
 False Easting: 541,337.5000
 False Northing: 0.0000
 Central Meridian: -104.3333
 Scale Factor: 0.9999
 Latitude Of Origin: 31.0000
 Units: Feet US

**PAPA SQUIRREL SWD**

SHL Location & Penetration Point:
 1928' FSL & 870' FWL
 Section 13, Township 26 South,
 Range 32 East of P.M.
 Lea County, New Mexico

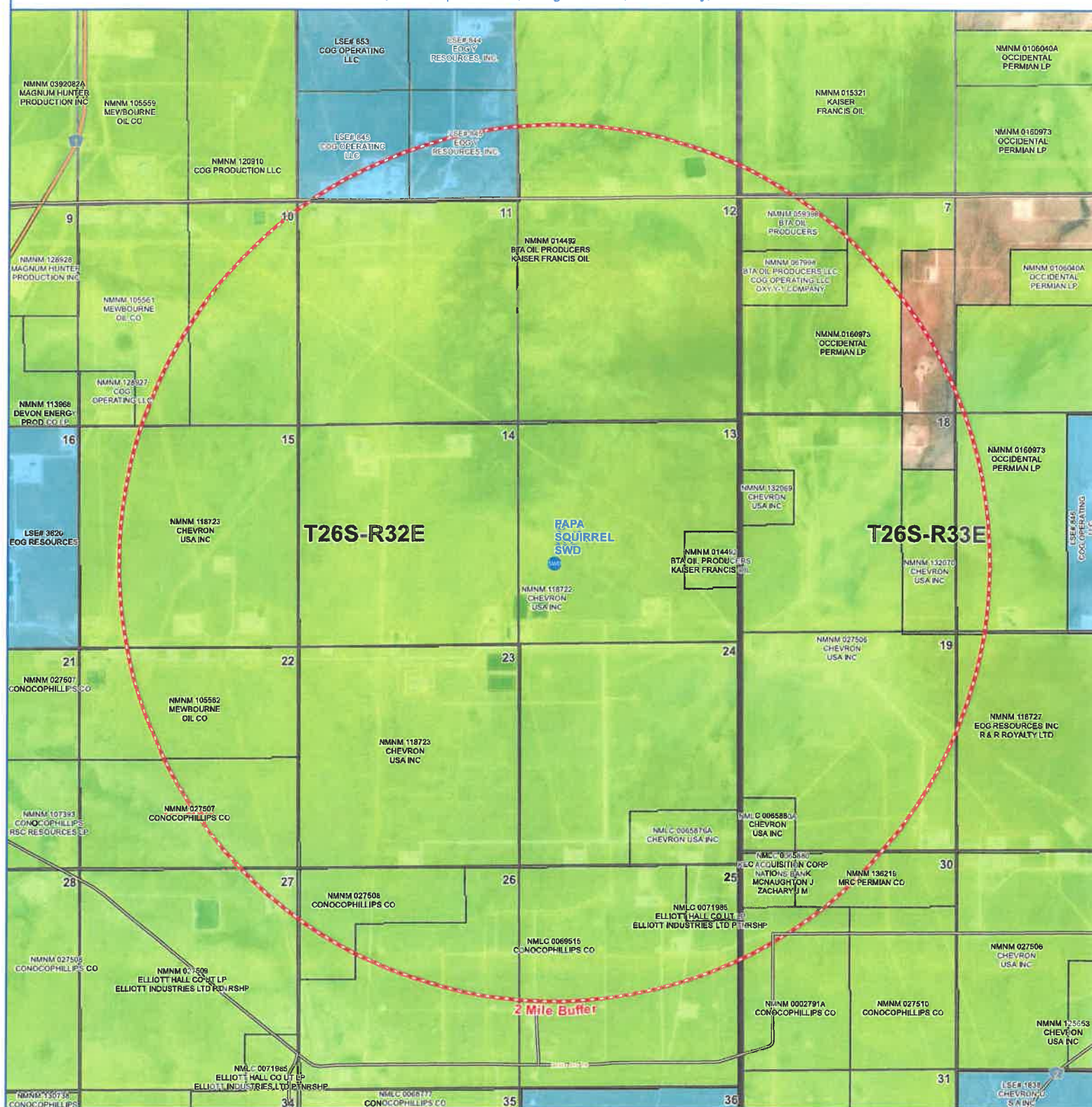
OPERATOR:
CHEVRON U.S.A. INC.



PO BOX 1001, Fort Worth Texas 76101

FEDERAL & STATE LEASES MAP

Section 13, Township 26 South, Range 32 East, Lea County, New Mexico



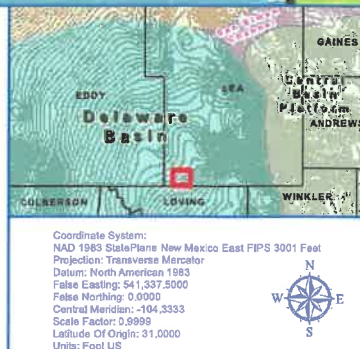
Legend

SWD Proposed SWD

 2 Mile Buffer

 Federal Lease

State Lease



PAPA SQUIRREL SWD

SHL Location & Penetration Point:
1928' FSL & 870' FWL
Section 13, Township 26 South,
Range 32 East of P.M.
Lea County, New Mexico

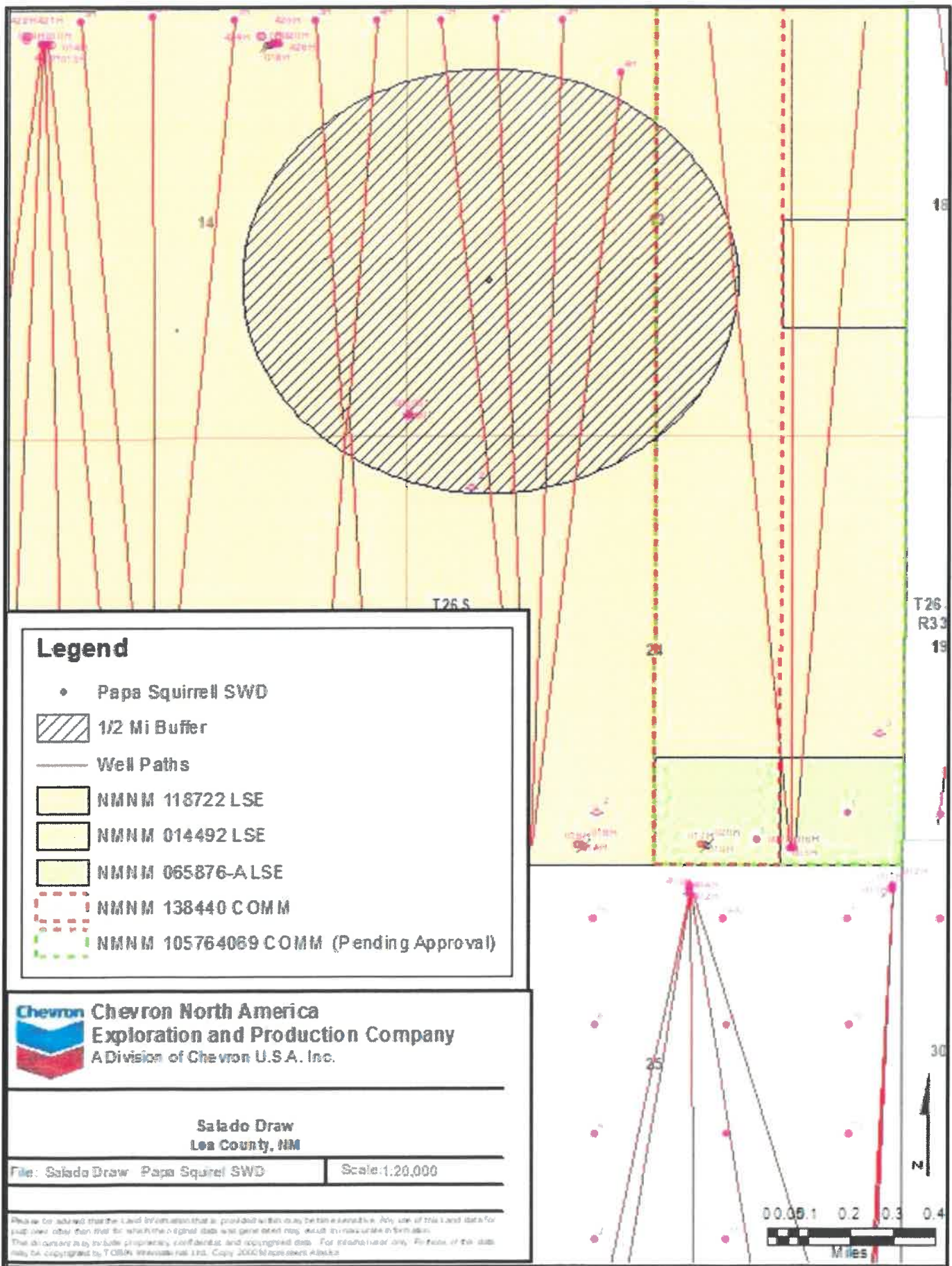
OPERATOR:

CHEVRON U.S.A. INC.



PO BOX 1001, Fort Worth, Texas 76101

Federal and State Lease Map (1/2 Mi Radius)



ATTACHMENT 2

Item VI

API	Well Name	Well Type	Well Status	OGRID Name	Section	Township	Range	Latitude 83	Longitude 83	Measured Depth	Vertical Depth	Associated Pools	Plug Date	Miles from SWD
30-025-43086	SD WE 14 FEDERAL P7 #003H	Oil	Active	CHEVRON U S A INC	14 26S		32E	32.0362	-103.6393	13,816	9,074	[97838] JENNINGS, UPPER BONE SPRING SHALE		0.4
30-025-43087	SD WE 14 FEDERAL P7 #004H	Oil	Active	CHEVRON U S A INC	14 26S		32E	32.0362	-103.6391	13,816	9,074	[97838] JENNINGS, UPPER BONE SPRING SHALE		0.4
30-025-43089	SD WE 23 FEDERAL P7 #004H	Oil	Active	CHEVRON U S A INC	14 26S		32E	32.0362	-103.639	14,002	9,030	[97838] JENNINGS, UPPER BONE SPRING SHALE		0.4
30-025-42354	SALADO DRAW SWD 13 #001	SWD	Active	NGL WATER SOLUTIONS PERMIAN, LLC	13 26S		32E	32.0364	-103.637	18,675	18,675	[97869] SWD, DEVONIAN-SILURIAN		0.3
30-025-20448	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	24 26S		32E	32.0338	-103.6349	0	4,645	No Data	8/20/1963	0.4

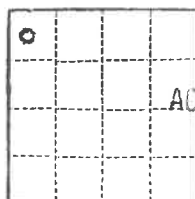
Data tabulation of wells in Area of Review of the Papa Squirrel SWD 1.

Form 9-381a
(Feb. 1951)

APPROVED

AUG 21 1963

(SUBMIT IN TRIPLICATE)

Budget Bureau No. 42-R358.4.
Form Approved.

J. L. GORDON UNITED STATES
ACTING DISTRICT DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____
Lease No. **LC - 065876 - A**
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

FEDERAL LEPTFIELD "DR"

August 20,

1963

Well No. 2 is located 660 ft. from N line and 660 ft. from W line of sec. 24

NW/4 Section 24

26-S

32-E

NMPM

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Wildcat

Lea

New Mexico

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is 3182.8 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well was completed dry at a total depth of 4645' on 8-19-63.It is proposed to run drill pipe to 4645'. Spot cement plug from 4645 to 4545'; mud to 800'; cement to 750'; mud to 425'; cement to 375'; mud to 50'; and cement to surface leaving 304' of 8-5/8" casing in hole. Set marker and abandon.

Location will be cleaned up and pits filled.

Verbal approval received from Mr. J. L. Gordon, by phone 8-20-61.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Gulf Oil CorporationAddress P. O. Box 980Kernit, Texas

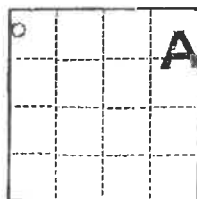
ORIGINAL SIGNATURE

BY

W. W. WHITAKER

By _____

Title Area Engineer

Form 9-381a
(Feb. 1951)Budget Bureau No. 42-R358.4.
Form Approved.

(SUBMIT IN TRIPLICATE)

APPROVED

UNITED STATES

FEB 3 1964
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYE. G. HUBBLE
ACTING DISTRICT ENGINEER

APC 37 025 02

Land Office _____
Lease No. LC-06376-A
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 20, 1964

Federal Littlefield "DF"

Well No. 2 is located 600 ft. from N line and 600 ft. from W line of sec. 24

<u>1N/4</u>	<u>Sec. 24</u>	<u>26-3</u>	<u>32-E</u>	<u>MPM</u>
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
<u>Wildcat</u>	<u>Lee</u>	<u>New Mexico</u>		
(Field)	(County or Subdivision)	(State or Territory)		

The elevation of the derrick floor above sea level is 3182.8 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well was completed dry at 4645' on 8-19-63.

Ran drill pipe open ended to 4645' and spotted 35 sacks cement 4645' to 4545'; mud 4545' to 300'; 20 sacks cement to 750'; mud to 425'; 20 sacks cement to 375'; mud to 50'; 20 sacks cement to surface leaving 384' of 8 5/8" casing in hole. Set marker & abandoned.

Location is cleaned up and ready for inspection.

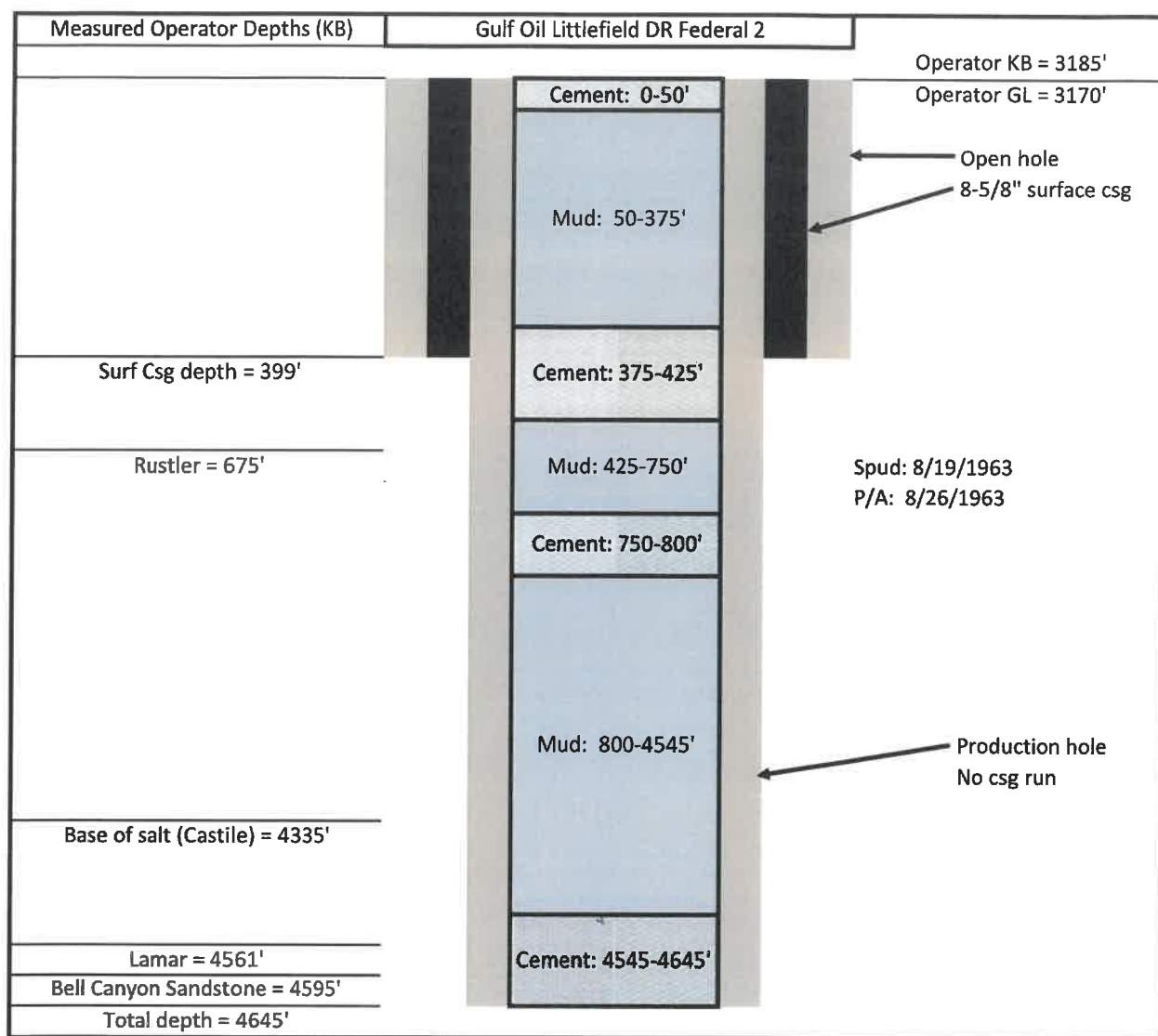
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Gulf Oil CorporationAddress P. O. Box 930Kernit, TexasORIGINAL SIGNED
BYBy W. W. WHITAKERTitle Area Engineer

GPO 914974

COUNTY		Lea		FIELD		Wildcat		STATE		N.M.		NO.					
WC	OPR.	Gulf Oil Corporation										MAP					
NO.		2 LSE Littlefield "DR" Federal															
SEC.		24	T.	26S	BLK.	R	32E	SUR.		CO-ORD.							
LOC. 660' fr N & W Lines of Sec.																	
MI.		FROM		P&A		CLASS.		EL.									
SPUD.		8-13-63		COMP.		8-20-63		FORMATION		DATUM		FORMATION		DATUM			
IRL.		LOG:															
		Rust 675															
CSG. & SX.		B/Salt 4335															
8 5/8"		399'		250		Del ls		4561									
						Del sd		4595									
TBG.		DEPTH		SIZE													
LOGS		EL	GR	RA	IND	HC	A										
		TD 4645'															
PROD INT.		(DAILY RATE)		BS&W		GH		GOR		GTY		C. P.		T. P.			
		HRS. TEST															
PLUGGED & ABANDONED																	
Distribution limited and publication prohibited by subscribers' agreement. Reproduction rights reserved by Williams & Lee Scouting Service, Inc.																	
CONT.		Johnn Drlg. Co.										PROP DEPTH		4950'		TYPE	
DATE																	

8-19-63 F.R. 8-15-63, Delaware PD 4950'-Johnn Drlg. Co.
 8-19-63 Drlg. 4435'. Oper's Elev. 3185' KB.
 8-26-63 TD 4645', PLUGGED & ABANDONED.
 No tests or cores.



Schematic of plugging detail of Gulf Littlefield DR Federal 2 (API 30-025-20445).

ATTACHMENT 3

Item VII

Item	Well 5.5" tubing	Papa Squirrel SWD #1
1)	Permit Max Rate (bwpd)	20,000
1)	Permit Avg Daily Rate (bwpd)	15,000
2)	System	closed
3)	Permit Max Pressure (psig)	925
3)	Permit Avg Pressure (psig)	750

Item	Water Requirements	
4)	Injected fluid is produced water.	Source WQ of injectate and receiving formation is not required per application.
5)	Disposal Zone Water Quality	for non-productive in 1 mile
	SD24 13 FED P416 17H (API 3002547303)	
	Results on next page	

Sample Name / Well			SD24 13 FED P416 17H
Date Received			Tuesday, June 21, 2022
Lab Sample #			25168
Address of Testing Laboratory			Northpark Geotechnical Center 100 Northpark Blvd., Covington, LA 70433
Date sampled			6/16/2022
Time Sampled			12:00
Area & Block			Salado Draw
Depth			6504.00ft MD
Reservoir			Cherry Canyon
Analyte	Method	Symbol	mg/L
Chloride	IC	Cl ⁻	159942
Bromide	IC	Br ⁻	1135.2
Iodide	IC	I ⁻	35.68
Sulfate	IC	SO ₄ ²⁻	564.12
Nitrate	IC	NO ₃ ⁻	10.63
Phosphate	IC	as PO ₄ ³⁻	BDL
Total Alkalinity	Titration	as HCO ₃ ⁻	1127
Organic Acids	Titration	NVWA	ND
Weak Bases	Titration	as NH ₄ ⁺	ND
Bicarbonate	Titration (calc.)	as HCO ₃ ⁻	NA
Acetate	IC	CH ₃ COO ⁻	BDL
Propionate	IC	(C ₂ H ₅)COO ⁻	BDL
Formate	IC	HCOO ⁻	BDL
Butyrate	IC	(C ₃ H ₇)COO ⁻	BDL
Sodium	ICP-AES	Na	64989
Potassium	ICP-AES	K	1808.07
Calcium	ICP-AES	Ca	33684.88
Magnesium	ICP-AES	Mg	2305.32
Strontium	ICP-AES	Sr	1361.01
Barium	ICP-AES	Ba	<0.1
Iron	ICP-AES	Fe	<0.05
Manganese	ICP-AES	Mn	<0.05
Lithium	ICP-AES	Li	15.32
Aluminum	ICP-AES	Al	0.72
Silicon	ICP-AES	Si	1.60
Boron	ICP-AES	B	24.19
Phosphorus	ICP-AES	P	0.39

Zinc	ICP-AES	Zn	2.44
Lead	ICP-AES	Pb	<0.25
Nickel	ICP-AES	Ni	<0.1
Chromium	ICP-AES	Cr	<0.05
Copper	ICP-AES	Cu	<0.1
Molybdenum	ICP-AES	Mo	<0.05
Sulfur (total)	ICP-AES	S	449.50
Properties	Method	Units	
Field pH	colorimetric	(-log(H ⁺))	8.12
Lab pH (25°C)	potentiometric	(-log(H ⁺))	8.77
TDS	calculated	mg/L	266525
Density (60°F, 1 bar)	Anton Parr meter	g/cm ³	1.190
Conductivity @ 25°C	measured	µmhos/cm	226610
Resistivity @ 25°C	measured	ohm-m	0.044
Charge Balance Error	calculated	%	2.36

Abbreviations:

ICP-AES: Inductively Coupled Plasma Atomic Emission Spectroscopy
IC: Ion Chromatography
BDL: Below Detection Limit
< * : Below Reporting Limit (*)
NT: Not Tested
ND: Not Detected
NA: Not Available / Not Applicable

ATTACHMENT 4

Item VIII

Formation/Geologic Feature Tops & Datum	Lithology	TVD (from Datum)	Z (SSTVD)
KB (Kelly Bushing)	Datum	0.0	3,232.5
GL (ground surface)	Ground Surface	28.5	3,204.0
01 - Dockum Group	Sandstone	100.0	3,132.5
02 - Dewey Lake	Sandstone	400.0	2,832.5
03 - Rustler	Carbonates	669.0	2,563.5
04 - Los Medanos	Siltstone	912.0	2,320.5
05 - Saldo	Halite	992.2	2,240.3
06 - Castile	Anhydrite	2914.4	318.1
07 - Lamar	Carbonates	4625.3	-1,392.8
08 - Bell Canyon	Sandstone	4652.9	-1,420.4
09 - Cherry Canyon	Sandstone	5640.1	-2,407.6
10 - Brushy Canyon	Sandstone	7285.5	-4,053.0
11 - Bone Spring Limestone	Carbonate	8939.0	-5,706.5

Geologic prognosis tops of all formations to be encountered in the Papa Squirrel SWD 1.

ATTACHMENT 5

Item IX

Proposed acid stimulation as part of the completion for the Papa Squirrel SWD 1.

1. MI/RU Petroplex Acid and Gladiator N2 Unit
2. Perform pressure pumping checklist and record in wellview.
3. Rig up Petroplex acid lines and tie in to 4-1/16" wing valve on tree. Test all lines against wing valve to 2,100 psi for 5 min
 - Install tee in Petroplex lines to allow N2 line to be rigged up. Test all N2 lines against wing valve to 2,100 psi for 5 min
4. Pump Acid job per Petroplex Pump Schedule diverting with N2 as required.
 - Max pressure for job will be 925 psi
 - Discuss with WOE for operational pressure limits during job.
 - Diversion will be treated with 1,250 scf/bbl of N2
5. Once acid is complete R/D Petroplex and Gladiator
6. Secure and shut in well.

ATTACHMENT 6

Item X

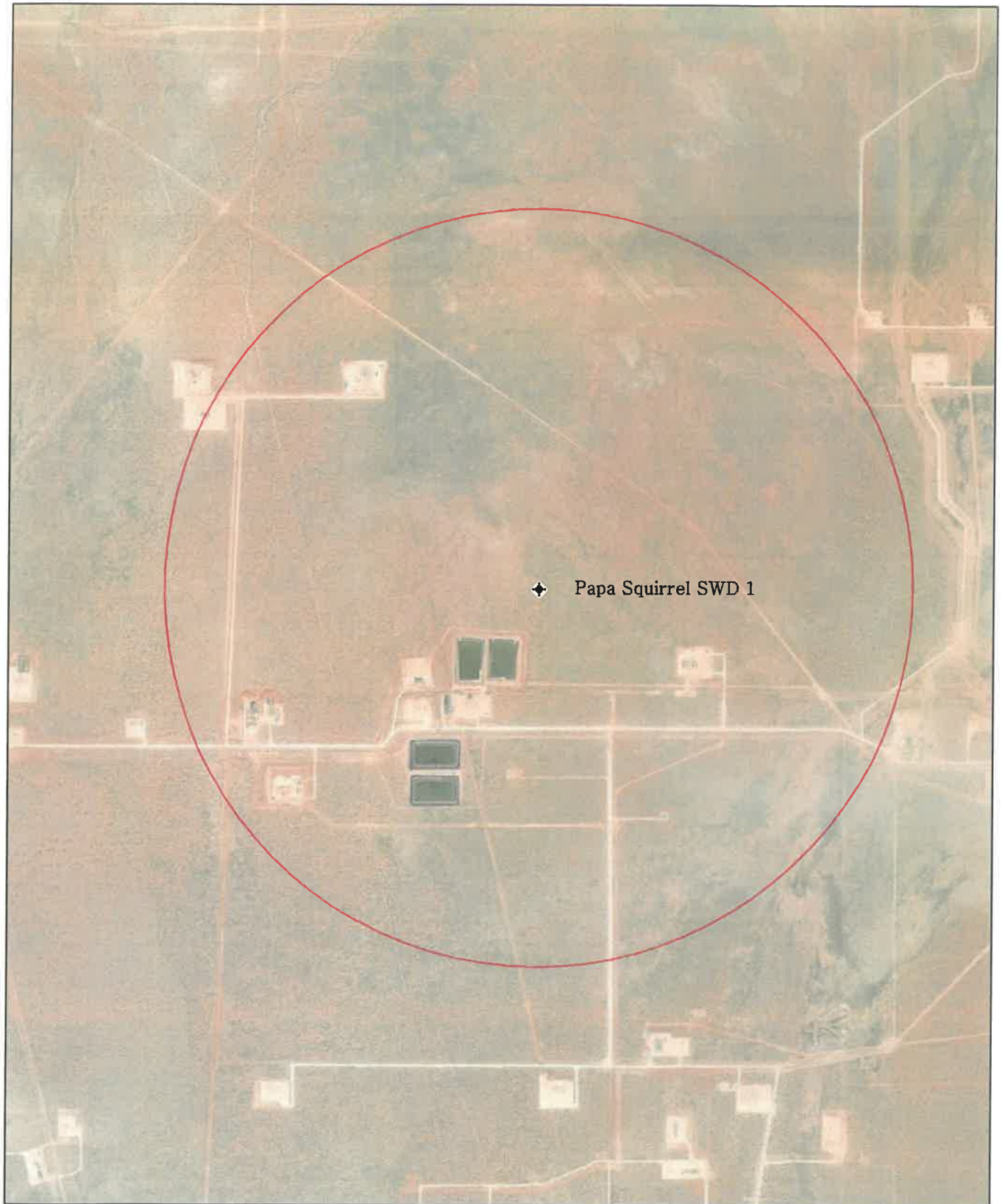
No logs have been run on the Papa Squirrel SWD 1. This is a planned well.

The following open hole logs are planned to be run if hole conditions allow: gamma-ray, resistivity, neutron-density, sonic, and image logs.

Production casing will be installed from surface to near the base of the Brushy Canyon Formation. A total of approximately six Diagnostic Fracture Injection Tests (DFITs) are planned for the Bell Canyon, Cherry Canyon and Brushy Canyon Formations. After the DFITs are run, the Brushy Canyon will be plugged. The Cherry Canyon and Bell Canyon will be perforated to the base of the Lamar Limestone. A step rate test will be run on the Bell Canyon and Cherry Canyon Formation permitted injection interval.

ATTACHMENT 7

Item XI



No fresh water wells within one mile
of the Papa Squirrel SWD 1.



ATTACHMENT 8

Item XII



George T. (Tom) Merrifield, Jr., PG
SWD DRP Geologist
Chevron U.S.A. Inc.
6301 Deauville Blvd
Midland, TX 79706
Phone +1 661-448-7489
tommerrifield@chevron.com

April 10, 2023

Dylan Fuge, Acting Director
Oil Conservation Division
1220 South St. Francis Dr.
Sante Fe, New Mexico 87505

**Re: Affirmation Statement C-108 Applications
Papa Squirrel SWD 1 and Severitas 2 State SWD 1**

Dear Mr. Fuge:

With the increase of induced seismicity due to deep produced water injection, in 2021 Chevron decided to evaluate the potential for shallow injection in both Texas and New Mexico with exhaustive manpower and technical effort.

This effort led to the following technical evaluations of the DMG: (1) the location of high confident shallow faults in our active development areas using available seismic reflection data (2) assessment of seismic risk of any such shallow faults, (3) other geologic and reservoir engineering assessments addressing storage capabilities, potential impacts, and mitigation, and (4) collaboration and joint efforts with other operators.

Both the Papa Squirrel SWD 1 and Severitas 2 State SWD 1 are locations which we find no indication of open faults at the surface or in the subsurface and no indication of hydraulic connection between the proposed injection zone (Bell Canyon and Cherry Canyon) and an underground source of drinking water (USDW). Both locations have low potential for fault slip and induced seismicity.

Respectively yours,

A handwritten signature in black ink, appearing to read "G. T. Merrifield, Jr.".

G. T. Merrifield, Jr., PG
TX (#10838) and CA (#9274)

ATTACHMENT 9

Item XIII

Notice to Surface Owners, Leasehold Operators, and Affected Persons within ½ Mi Radius

Surface Owner:

United States of America (Bureau of Land Management)	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4
	Section 14: All
	Section 15: All
	Section 23: All

Note: All part of T-26-S, R-33-E, NMPPM, Lea County, NM

Leasehold Operator within ½ radius:

Operator	Well Name	API
Chevron U.S.A. Inc.	SD WE 24 FEDERAL P23 001H	30-025-43318
	SD WE 24 FEDERAL P23 002H	30-025-43296
	SD WE 24 FEDERAL P23 003H	30-025-43297
	SD WE 24 FEDERAL P23 004H	30-025-43298
	SD WE 14 FEDERAL P7 003H	30-025-43086
	SD WE 14 FEDERAL P7 004H	30-025-43087
	SD WE 23 FEDERAL P7 003H	30-025-43088
	SD WE 23 FEDERAL P7 004H	30-025-43089
	SD WE 24 FEDERAL P24 005H	30-025-43674
	SD WE 24 FEDERAL P24 006H	30-025-43673
	SD WE 24 FEDERAL P24 007H	30-025-43675
	SD 24 13 FEDERAL P415 013H	30-025-49072
	SD 24 13 FEDERAL P415 014H	30-025-49073
	SD 24 13 FEDERAL P415 015H	30-025-49074
	SD 24 13 FEDERAL P416 017H	30-025-47303
	SD 24 13 FEDERAL P416 018H	30-025-47311
	SD 24 13 FEDERAL P416 019H	30-025-47312
NGL Water Solutions Permian LLC	SALADO DRAW SWD 13-1	30-025-42354

Working Interest Owners within ½ mile radius:

Lease	Lands	Depths	WI Owner (%)	WI (%)
NMNM 118722	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4 Section 14: All Section 15: All Section 23: All Section 24: N/2, N/2 of S/2, S/2 of SW/4	All	Chevron U.S.A. Inc.	100.000000%
SD WE P24 5H Comm Agreement (Pending Approval)	Section 13: W/2 of E/2 Section 24: W/2 of E/2	Bone Spring	Chevron U.S.A. Inc.	100.000000%
SD 24 13 Fed P416 Comm Agreement (Pending Approval)	Section 13: E/2 Section 24: E/2	Wolfcamp	Chevron U.S.A. Inc.	99.453125%
			Royalty Clearinghouse 2003 LLC	0.078125%
			Atlas OBO Energy LP	0.468750%

Note: All part of T-26-S, R-33-E, NMPPM, Lea County, NM

Mineral Interest Owner within ½ mile radius:

Lease	Lands	Depths	Federal /State Mineral Interest (MI) Owner	MI (%)
NMNM 118722	Section 13: N/2, SW/4, W/2 of SE/4 and SE/4 of SE/4 Section 14: All Section 15: All Section 23: All Section 24: N/2, N/2 of S/2, S/2 of SW/4	All	United States of America	100.000000%
SD WE P24 5H Comm Agreement (Pending Approval)	Section 13: W/2 of E/2 Section 24: W/2 of E/2	Bone Spring	United States of America	100.000000%
SD 24 13 Fed P416 Comm Agreement (Pending Approval)	Section 13: E/2 Section 24: E/2	Wolfcamp	United States of America	100.000000%

Note: All part of T-26-S, R-33-E, NMPM, Lea County, NM