

Initial Application Part I

Received: 07/16/2019

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

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

[D] Other: Specify _____

SWD-2194

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

William Boyd

Print or Type Name

William Boyd

Signature

Land + Regulatory Manager

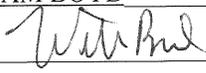
Title

7/16/2019

Date

wboyd@pederco.com
 e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: _____ RIDGEWAY ARIZONA OIL CORPORATION _____
ADDRESS: _____ 1250 WOOD BRANCH PARK DRIVE, SUITE 400, HOUSTON, TX 77079 _____
CONTACT PARTY: _____ WILLIAM BOYD _____ PHONE: _____ 713-496-0986 _____
- 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.
- 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: _____ WILLIAM BOYD _____ TITLE: _____ LAND & REGULATORY MGR _____
SIGNATURE: _____  _____ DATE: _____ 7/16/2019 _____
E-MAIL ADDRESS: _____ WBOYD@PEDEVCO.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: _____

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.

Date: July 16, 2019

Form C-108 Responses

Application for Authorization to Inject

- I. The purpose of this application is for salt water disposal. This application should qualify for administrative approval.
- II. Operator: Ridgeway Arizona Oil Corp. 1250 Wood Branch Park Drive, Suite 400, Houston, TX 77079; Contact William Boyd, (713) 496-0986, cell (832) 691-4322, wboyd@pedevco.com
- III. The injection well data sheets are attached.
- IV. This is not an expansion of an existing project.
- V. Well radius maps are attached.
- VI. Within the area of review there are 3 existing wells, all P&A, that have penetrated the proposed injection zones. Attached is the tabulation of all required data and schematics for the wells.
- VII. Data on the proposed operation is as follows:
 - a. Ridgeway plans to inject a maximum of 25,000 BWP, an average of 15,000 BWP.
 - b. The system is closed.
 - c. The average injection pressure is anticipated to be 1,000 psi. The maximum injection pressure will be 1,200 psi.
 - d. The fluids to be injected will come from water produced from the San Andres formation. Attached is an analysis of produced water from a nearby well producing from the San Andres formation. The water is a brine with 57,700 ppm chlorides.
 - e. The zones to be injected do not produce within two miles of the proposed well. The formation produces brine water in the concentrations shown below:

i. Yeso/Clearfork	122,000 ppm
ii. Tubb	85,000 ppm
iii. ABO	122,000 ppm
iv. Wolfcamp	117,000 ppm
v. Bough	115,000 ppm
vi. Cisco	60,500 ppm
vii. Mississippian	58,000 ppm
viii. Woodford Shale	21,000 ppm
ix. Devonian	56,000 ppm
- VIII. The injection zone will be open hole from approximately 5,000' to 10,500' in this wellbore. There are no known aquifers below the proposed injection zone. The New Mexico State Engineer's office does not show any water wells in the Area of Review. Lithologic detail, geologic name, thickness, and depths of the injection zones are attached.
- IX. Ridgeway plans to acidize the injection zone with 15,000 gallons of 15% HCl acid.
- X. This will be a new well, there are no existing logs or test data.
- XI. The New Mexico State Engineer's office indicates there are no fresh water sources within the Area of Review.

- XII. We have examined all available geologic and engineering evidence and do not see any faulting or other evidence of a hydrologic connection between the injection zone and underground sources of drinking water.
- XIII. A lease map is attached. Proof of notice has been sent to all parties on the attached notification list. Proof of notice has been sent to the surface owner, Shannon Kizer of (ADDRESS). Copies of the Form C-108 and this application and attachments have been sent to the State of New Mexico, Commissioner of Public Lands, P.O. Box 1148, Santa Fe, New Mexico. All leased areas are 100% WI to Ridgeway Arizona Oil Corp. Unleased minerals have been identified as to the mineral owner.

Legal notice has been submitted for publication in the Eastern New Mexico News in Roosevelt County, NM, published on June 12, 2019 and June 16, 2019.

Thank you for your review of this proposal.

Sincerely,

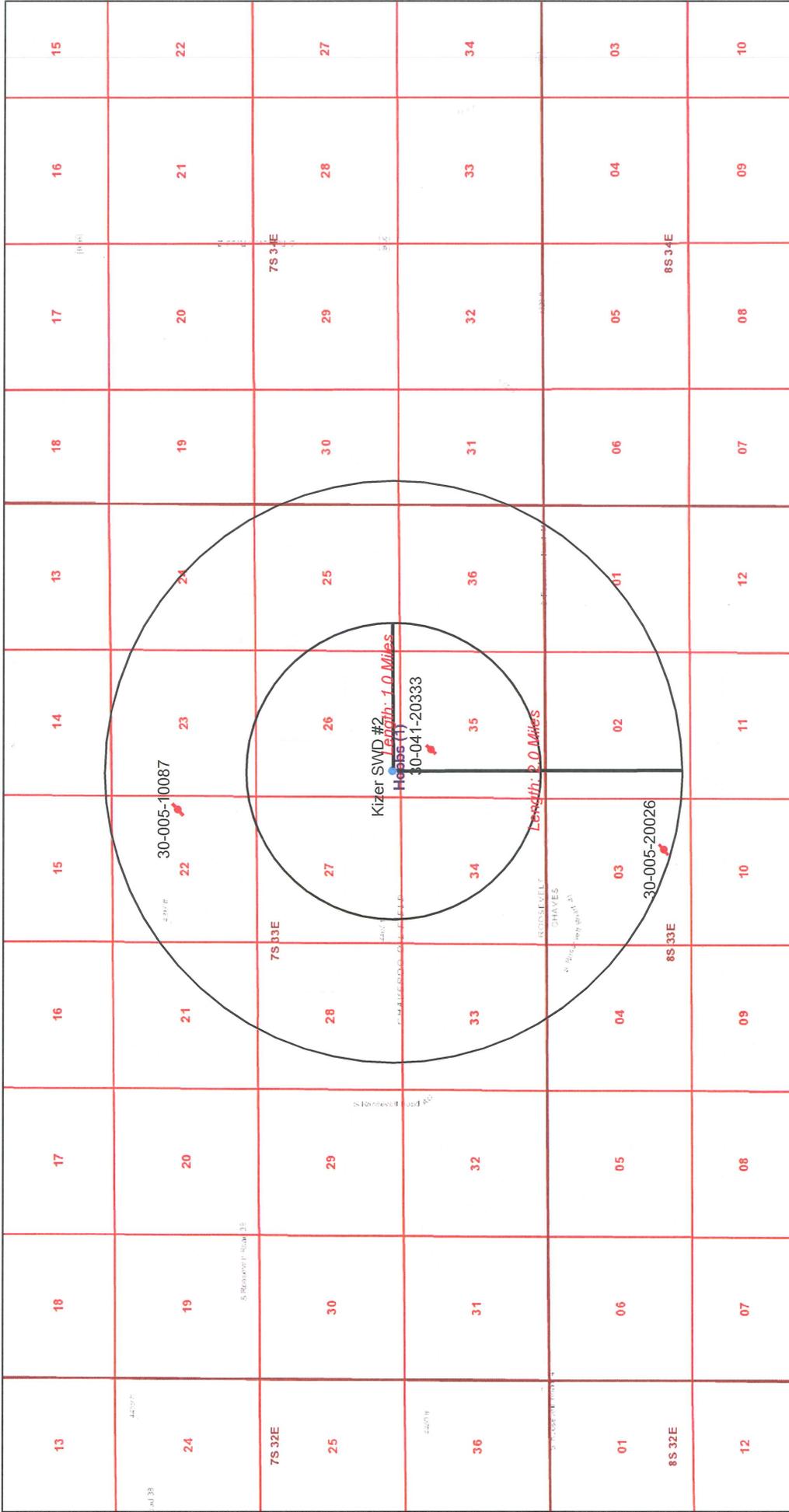


William Boyd
Land & Regulatory Manager
Ridgeway Arizona Oil Corporation

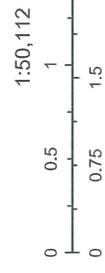
Attachments:

1. Well Radius Map
2. Lease Map
3. Tabulation of data on all wells within AOR which penetrate proposed injection zones
4. Section VIII Geologic data
5. Injection Well Data Sheet
6. Proposed Wellbore Diagram
7. Copy of the Legal Notice published in the Eastern New Mexico News
8. Copy of the list of interested parties and notice thereby provided.
9. Affidavit of Salt Water Disposal Agreement

Kizer SWD #2 Wells Within AOR

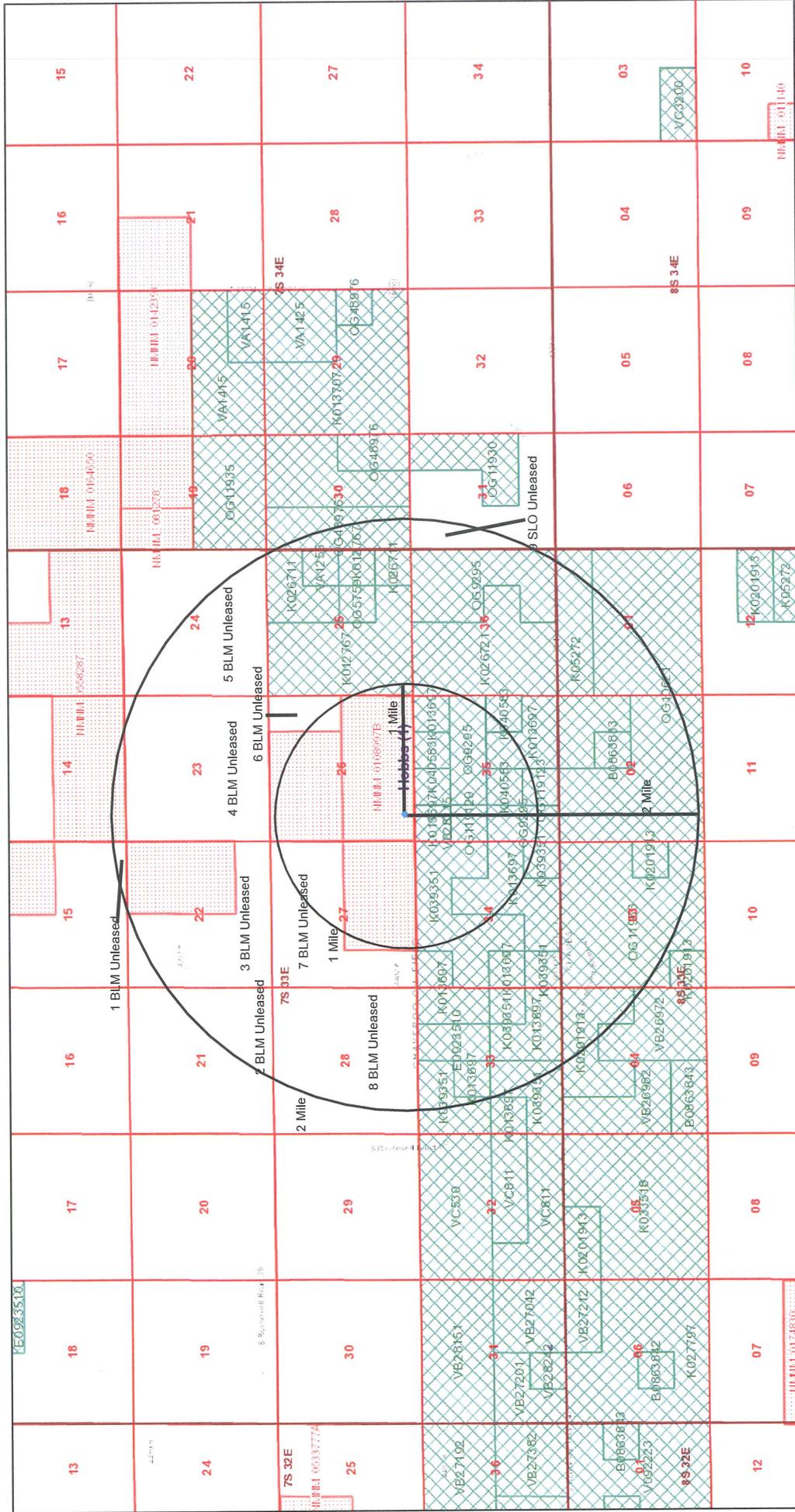


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Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, EPA, USDA, OCC, BLM

Kizer SWD #2 Leases Within AOR



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1:50,112
0 0.5 1 1.5 2 mi
0 0.75 1.5 3 km

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, EPA, USDA, OGD, BLM

New Mexico Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/>; New Mexico Oil Conservation Division

**VI. Tabulation of data on all wells of public record within
the AOR which penetrate the proposed injection zone**

API No.	Type	Status	Date Drilled	Depth	Location			
					Unit Ltr	Sec	Twp	Rng
30-041-10087	Oil	PA	10/27/1963	9,475'	H	22	7S	33E
30-041-20333	Oil	PA	10/1/1971	10,200'	C	35	7S	33E
30-005-20026	Oil	Plugged below San Andres	2/14/1967	9,190'	O	3	8S	33E

APPROVED

(SUBMIT IN TRIPPLICATE)

Land Office Santa Fe

JUN 2 1964

UNITED STATES

HOBBS OFFICE O. C. C.

Lease No. NM 042253-A

Unit H

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

J. L. GORDON
ACTING DISTRICT ENGINEER

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.....	<input checked="" type="checkbox"/>
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)

April 27, 1964

New Hopr Unit

Well No. 2 is located 1980 ft. from N line and 660 ft. from E line of sec. 22

NE/4 Sec 22 T-7-S R-33-E NMPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Undesignated Roosevelt New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4402 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)

Recovered 1450' 8-5/8" 52# J-55 Casing
Well plugged as follows:
35 sack cement plug from 1425' to 1475'
25 sack cement plug set at 325'
10 sack plug set at surface
Well cellar cemented and abandoned marker set.

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

Company Kern County Land Co.

Address 407 V&J Tower
Midland, Texas

By D. A. Keegan
Title District Engineer

COUNTY	ROOSEVELT	FIELD	Wildcat	STATENM	30-041-20333
OPR	SKELLY OIL CO.			MAP	
	1 Chaveroo - Bough "C"				
	Sec 35, T-7-S, R-33-E			CO-ORD	
	990' FNL, 1650' FWL of Sec				
	Spd 10-14-71	CLASS	EL 4382' 2		
	Cmp 12-14-71	FORMATION	DATUM	FORMATION	DATUM
CSG & SX - TUBING					
	13 3/8" at 400' w/400 sx				
	8 5/8" at 4500' w/800 sx				
LOGS	EL	GR	RA	IND	HC A
					TD 10,020'
PLUGGED & ABANDONED					

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CONT.	Hondo	PROP DEPTH	9800'	TYPE	RT
DATE					

F.R. 10-5-71; Opr's Elev. 4382' DF
 PD 9800' RT (Atoka)
 Contractor - Hondo

10-18-71 Drlg. 3285'
 10-25-71 TD 4500'; Fshg
 Attempted to Run 8 5/8" casing & Casing parted
 11-1-71 ID 4500'; Fshg
 11-8-71 Drlg. 5825'
 11-15-71 Drlg. 7880'
 11-19-71 Drlg. 8352'
 11-29-71 Drlg. 9314'
 DST (Bough "E") 8671-95', open 1 hr 15 mins,
 rec 1700' gas in DP + 4490' sli GC salt wtr +
 210' DM, 1 hr ISIP 2799#, FP 1611-2711#,
 2 hr FSIP 2711#, HP 4804-4440', BH Temp 138 deg

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

Form C-105
Revised 1-1-65

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

APR 12 11 29 AM '67

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.
OG 1195

1a. TYPE OF WELL
OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR. OTHER _____

7. Unit Agreement Name

8. Farm or Lease Name
State "BF"

2. Name of Operator
Atlantic Richfield Company

9. Well No.
10

3. Address of Operator
P. O. Box 1978, Roswell, New Mexico

10. Field and Pool, or Wildcat
Chaveroo-San Andres

4. Location of Well
UNIT LETTER **O** LOCATED **990** FEET FROM THE **South** LINE AND **1980** FEET FROM THE **East** LINE OF SEC. **3** TWP. **8S** RGE. **33E** NMPM

12. County
Chaves

15. Date Spudded **2-14-67** 16. Date T.D. Reached **3-16-67** 17. Date Compl. (Ready to Prod.) **3-28-67** 18. Elevations (DF, RKB, RT, GR, etc.) **4402' DF** 19. Elev. Casinghead **4393'**

20. Total Depth **9190'** 21. Plug Back T.D. **4451'** 22. If Multiple Compl., How Many **--** 23. Intervals Drilled By **0-9190** Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name
4260-4372' San Andres

25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
GR-Sonic, Density, LL, MLL, Sidewall GR-N (4757)

27. Was Well Cored
No

BHC GR-Sonic w/Int. Scale, LL, MLL w/Caliper (9190)
CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32.30#	1878.21	13-3/4	1000 sx Incor	None
4-1/2"	9.7#	4486.36	8-3/4	530 sx Incor Pozmix	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8	4268.69	None

31. Perforation Record (Interval, size and number)
4260, 4269, 4340, 4344, 4354, 4362 & 4372 w/one 3/8" JS

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4260-4372	2000 gal 15% LSTNE Acid 1000 gal HCl, 35,000 gal lse crude & 40000# 20/40 sd

33. PRODUCTION

Date First Production 3-28-67	Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping 2" x 1-1/2" x 16' rod pump	Well Status (Prod. or Shut-in) Producing
---	--	--

Date of Test 4-5-67	Hours Tested 20	Choke Size	Prod'n. For Test Period →	Oil - Bbl. 84	Gas - MCF 22.94	Water - Bbl. 135	Gas - Oil Ratio 300/1
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Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil - Bbl. 101	Gas - MCF 27.53	Water - Bbl. 162	Oil Gravity - API (Corr.) 25.6°
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34. Disposition of Gas (Sold, used for fuel, vented, etc.)
Vented temporarily pending PL connection

Test Witnessed By
J. B. Hubbard

35. List of Attachments
Logs as listed above

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

Original Signed
A. D. Kloxin

SIGNED _____ TITLE **Dist. Prod. & Drlg. Supt.** DATE **4-11-67**

Section VIII
Lithologic detail, geologic name, thickness and depths of inection zones

Lithology	Geologic Name	Thickness	Depth (Top)
Anhydrite	Rustler (Anhydrite)	82	1799
Salt	Salado (Salt)	407	1881
Carbonate, sandstone, anhydrite, and red siltstone	Yates	660	2288
Sand accompanied by dolomite, anhydrite, or salt	Queen	116	2948
Dolomite, sandy dolomite, red and gray sandstone, and anhydrite	Grayburg	375	3064
Dolomite	San Andres	1329	3439
Sandstone	Glorietta	758	4768
Sandstone, shale, earthy limestone, and gypsum	Yeso	755	5526
Silty Carbonate	Tubb	850	6281
Reddish brown siltstone, shale and sandstone	Abo	1012	7131
Limestone	Wolfcamp	472	8143
Limestone	Bough 'A'	27	8615
Limestone	Bough 'B'	36	8642
Limestone	Bough 'C'	37	8678
Limestone	Bough 'D'	61	8715
Sand	Cisco	65	8776
Limestone	Mississippian	59	8841
Shale	Woodford Shale	104	8900
Ooid grainstone and packstone	Siluro-Devonian		9004

INJECTION WELL DATA SHEET

OPERATOR: RIDGEWAY ARIZONA OIL CORPORATION

WELL NAME & NUMBER: KIZER SWD #2

WELL LOCATION: 334' FSL AND 992' FWL M 26 7S 33E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA
Surface Casing

Hole Size: 13.500" Casing Size: 10.750"

Cemented with: 735 sx. or ft³

Top of Cement: Surface Method Determined: Intermediate Casing

Hole Size: 9.875" Casing Size: 7.625"

Cemented with: 885 sx. or ft³

Top of Cement: Surface Method Determined: Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or ft³

Top of Cement: _____ Method Determined: _____

Total Depth: _____

Injection Interval

5,000' _____ feet to 10,500' OPEN HOLE

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 5.500" 17# Lining Material: IPC

Type of Packer: 7.625" Permanent packer with seal bore extension

Packer Setting Depth: 5,000'

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

Additional Data

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

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

2. Name of the Injection Formation: Glorietta, Yeso, Tubb, Abo, Wolfcamp, Bough, Cisco, Mississippian Lime, Woodford Shale, Siluro-Devonian

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

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: San Andres formation overlying at 4,300'
No known underlying productive oil and gas zones

