

LAKESIDE 20702 SWD 1
SEL 29, T-23-S, R-29-E
EDDY CO., NM. Revised March 23, 2017

NM 11/20/2018

RECEIVED: 02/02/2018

REVIEWER:

TYPE:

APP NO:

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

02/09/2018 - New

NEW MEXICO OIL CONSERVATION DIVISION

Publication - Geological & Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



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ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: BTA OIL PRODUCERS LLC

OGRID Number: 260297

Well Name: LAKESIDE 20702 SWD 1

API:

Pool: SWD/DEVONIAN-SILURIAN

Pool Code: 97869

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

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

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL

☐ NSP (PROJECT AREA)

☐ NSP (PRORATION UNIT)

☐ SD

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

[I] Commingling - Storage - Measurement

☐ DHC

☐ CTB

☐ PLC

☐ PC

☐ OLS

☐ OLM

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

☐ WFX

☐ PMX

☒ SWD

☐ IPI

☐ EOR

☐ PPR

2) **NOTIFICATION REQUIRED TO:** Check those which apply.

A. ☒ Offset operators or lease holders

B. ☐ Royalty, overriding royalty owners, revenue owners

C. ☒ Application requires published notice

D. ☐ Notification and/or concurrent approval by SLO

E. ☐ Notification and/or concurrent approval by BLM

F. ☐ Surface owner

G. ☒ For all of the above, proof of notification or publication is attached, and/or,

H. ☐ No notice required

FOR OCD ONLY



Notice Complete



Application
Content
Complete

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

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

KATY REDDELL

Print or Type Name

Signature

1/24/2018

Date

432-682-3753

Phone Number

kreddell@btaoil.com

e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: BTA Oil Producers LLC
ADDRESS: 104 S Pecos ; Midland, TX. 79701
CONTACT PARTY: Katy Reddell PHONE: 432-682-3753 Ext. 139
*LAKESIDE 20702 SWD 1
SEC. 29 T-23-S, R-29-E
FEDDY CO., N.M.*
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Katy Reddell
TITLE: Regulatory Analyst
SIGNATURE: *Katy Reddell* DATE: 1/24/2018
E-MAIL ADDRESS: kreddell@btaoil.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.

C-108 Application for Authorization to Inject

Lakeside 20702 SWD 1

1750 FNL and 2640 FEL

Section 29, T23S-29E

Eddy County, New Mexico

BTA Oil Producers, LLC proposes to drill the captioned well to 16,000' for salt water disposal into the Devonian from approximately 14,507' – 16,000'. A drilling permit will be submitted upon approval of this C-108.

- V. Map and well data is attached.
- VI. There are two wells within the ½ mile radius area of review. ½ Mile Radius Map and Well Data attached.
- VII. 1. Proposed average daily injection rate = ~~25,000 BWPD~~
Proposed Maximum daily injection volume = 45,000 BWPD
2. Closed system
3. Proposed average daily injection pressure = 2000 psi
Proposed maximum daily injection pressure = 2901 psi
(0.2 psi/ft. x 13,729' ft)
4. Source of injected water will be Bone Spring and Wolfcamp produced water. No compatibility problems are expected. See attached water analyses. And water analysis list.
- VIII. The proposed disposal interval for this wellbore is the Devonian formation. The Devonian formation was deposited a shallow water platform carbonate formation achieving thicknesses >1000 ft in this area. Oil and gas reservoirs occur where porosity is trapped on a closure. Any underground water sources will be shallower than 354' TVD, the estimated top of the Rustler Anhydrite. *4 Silurian [per advertised 2/8/2018 notice]*
- X. Well logs will be filed with the division. See attached header for the Cedar Canyon SWD #1 API No. 30-015-44054. Sec. 8, T24S, R29E. ✓
- XI. According to records from the New Mexico Office of the State Engineer, one well is located within 1-mile of the Lakeside 20702 SWD #1 well. BTA is in the process of obtaining a water sample. See attached Active & Inactive Points of Diversion for reference. }
- XII. After examining the available geologic and engineering data, no evidence was found of open faults or any hydrologic connection between the disposal zone and any underground sources of drinking water. Per Britton McQuien Reservoir Engineer ✓
- XIII. Proof of Notice is attached.

INJECTION WELL DATA SHEET

OPERATOR: BTA OIL PRODUCERS LLCWELL NAME & NUMBER: LAKE SIDE 20702 SWD 1WELL LOCATION: 1750 FWL; 2646 FELUNIT LETTER G SECTION 29 TOWNSHIP 23S RANGE 29E

FOOTAGE LOCATION

WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface CasingHole Size: 17 1/2" Casing Size: 13 3/8"
Cemented with: 3840 sx. or _____ ft³Top of Cement: CIRCULATED Method Determined: CIRCULATEDIntermediate CasingHole Size: 12 1/4" Casing Size: 9 5/8"
Cemented with: 500 sx. or _____ ft³Top of Cement: CIRCULATED Method Determined: _____
DV TOOLE 2,880' Production Casing
* LINERHole Size: 8 3/4" Casing Size: 7"
Cemented with: 300 sx. or _____ ft³Top of Cement: 10,500' CIRC Method Determined: _____Total Depth: 16,000'Injection Interval14,507' * PROPOSED feet to 16,000' OPEN HOLE

(Perforated or Open Hole) indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 4 1/2" X 5 1/2" Lining Material: IPC
 Type of Packer: ASIX Injection Packer - STAINLESS STEEL + NICKEL
 Packer Setting Depth: 14,477'
 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: DEVONIAN/SILURIAN
 3. Name of Field or Pool (if applicable): SWP; 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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
OVER: BOWT SPRING (4577') WOLF CAMP (10,007')
UNDER: NONE

Proposed

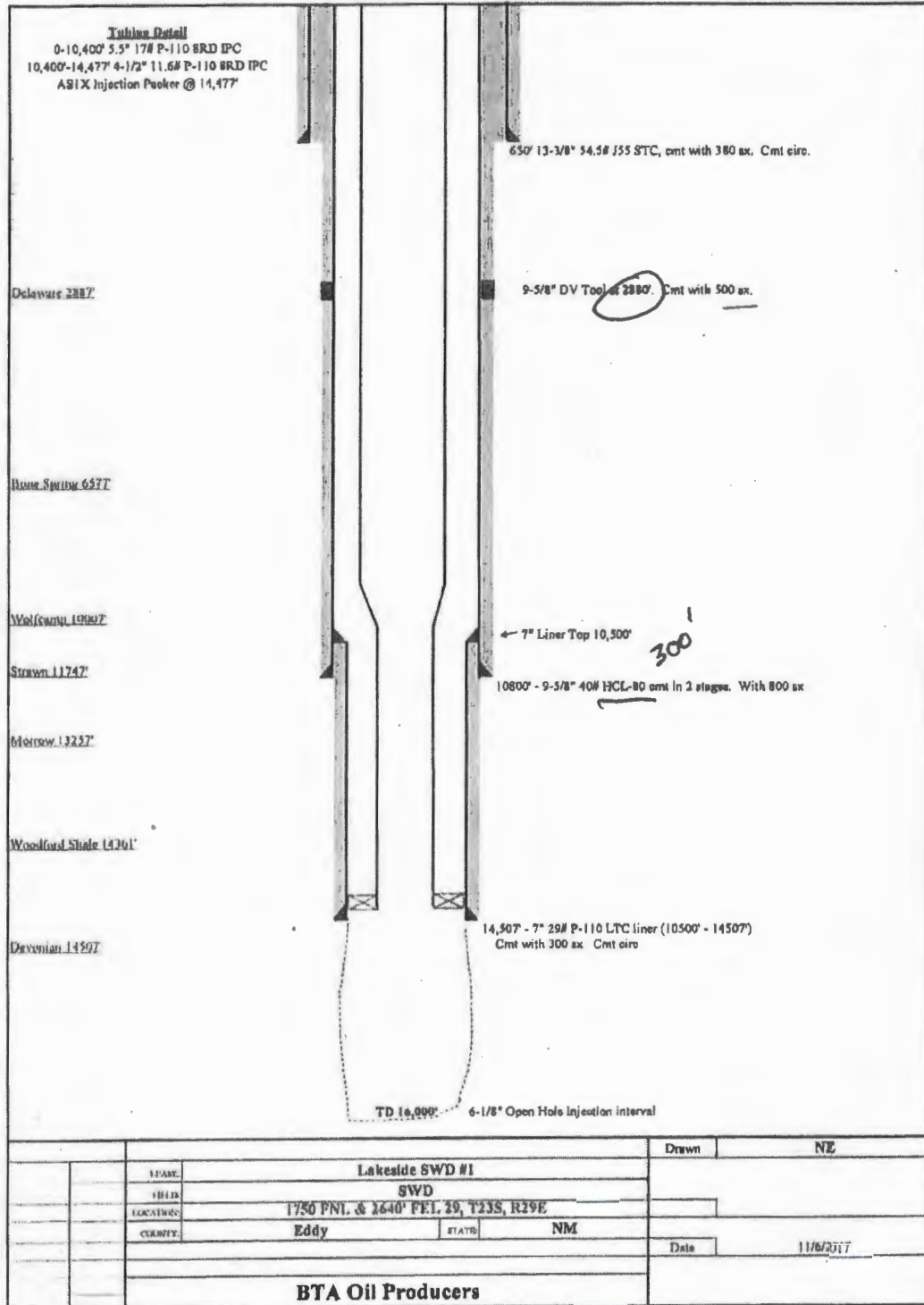


Exhibit "A"

API #	Current Operator	Well Name	Well No.	Sec	Twn	Rng	Footage Calls
3001522780	PENROC OIL CORP	BRANTLEY B	1	24	23S	28E	1980'FSL & 1980'FEL
3001523973	DINERO OPERATING CO	HOWARD RAY	1-Y	25	23S	28E	660'FSL & 610'FEL
3001544288	MEWBOURNE OIL CO	RAY 25 W29A FEE	001H	25	23S	28E	185'FSL & 330'FEL
3001533923	DEVON ENERGY PROD	SPUD 16 ST	4	16	23S	29E	960'FSL & 1800'FEL
3001538059	DEVON ENERGY PROD	SPUD 16 ST	9H	16	23S	29E	1265'FSL & 1905'FEL
3001522553	CHEVRON USA INC	TELEDYNE 17	1	17	23S	29E	660'FSL & 1980 'FWL
3001522650	ALTURA ENERGY LTD	TELEDYNE 18	1	18	23S	29E	1800 'FSL & 2180 'FEL
3001528165	DEVON ENERGY PROD	HARROUN TRUST 19	1	19	23S	29E	1316'FSL & 1320'FWL
3001522703	CHEVRON USA INC	TELEDYNE 20 GAS COM	1	20	23S	29E	660'FNL & 2080'FWL
3001532987	CHEVRON USA INC	TELEDYNE 20	2	20	23S	29E	1650'FNL & 1980 'FWL
3001533323	BTA OIL PRODUCERS, LLC	TELEDYNE 20	4	20	23S	29E	1980'FSL & 1650 'FWL
3001533504	CHEVRON USA INC	TELEDYNE 20	5	20	23S	29E	1980'FSL & 2310'FEL
3001533599	BTA OIL PRODUCERS, LLC	HARROUN RANCH FED 20702	1	20	23S	29E	990 'FSL & 2310 'FEL
3001543174	CIMAREX ENERGY CO	LAGUNA GRANDE 29 FED	6H	20	23S	29E	98'FSL & 2562'FWL
3001543360	BTA OIL PRODUCERS, LLC	HARROUN RANCH FED COM 20702	2H	20	23S	29E	680'FSL & 180 'FWL
3001534750	CHEVRON USA INC	IMC 21	1	21	23S	29E	330'FNL & 660 'FEL
3001536109	CHEVRON USA INC	IMC 21 FED COM	2H	21	23S	29E	460'FNL & 410'FEL
3001535073	DEVON ENERGY PROD	LAGUNA SALADO 22 FED	3H	22	23S	29E	130'FSL & 760'FWL
3001522157	OXY USA INC	LAGUNA GRANDE UNIT	2	27	23S	29E	660'FSL & 1980'FWL
3001536137	OXY USA INC	GOODNIGHT 27 FED	2H	27	23S	29E	2460'FSL & 1330'FWL
3001539142	OXY USA INC	GOODNIGHT 27 FED	4H	27	23S	29E	284'FSL & 1993'FWL
3001539220	OXY USA INC	GOODNIGHT 27 FED	3H	27	23S	29E	962'FSL & 364'FWL
3001539431	OXY USA INC	GOODNIGHT 27 FED	5H	27	23S	29E	906'FSL & 459'FWL
3001521636	LAGUNA GRANDE LLC	LAGUNA GRANDE UNIT	1	28	23S	29E	1380'FSL & 990'FEL
3001524577	EXXON CORPORATION	BLAKEMORE EST FED	1	28	23S	29E	1780'FSL & 1980'FEL
3001530113	DEVON ENERGY PROD	COCHITI 28 FED	1	28	23S	29E	1980'FNL & 660'FWL
3001537249	OXY USA INC	CYPRESS 28 FED	1H	28	23S	29E	330'FSL & 440'FWL
3001537331	OXY USA INC	CYPRESS 28 FED	2H	28	23S	29E	1833'FSL & 530'FWL
3001538287	OXY USA INC	CYPRESS 28 FED	3H	28	23S	29E	435'FNL & 60'FWL
3001539330	OXY USA INC	CYPRESS 28 FED	4H	28	23S	29E	1730'FNL & 330'FWL
3001541138	OXY USA INC	CYPRESS 28 FED	6H	28	23S	29E	330'FSL & 2000'FWL
3001543751	OXY USA INC	CYPRESS 33 FED COM	9H	28	23S	29E	140'FSL & 1935'FWL
3001523414	CIMAREX ENERGY CO	LAGUNA GRANDE UNIT	3	29	23S	29E	2310'FSL & 1980'FEL
3001533219	CIMAREX ENERGY CO	LAGUNA GRANDE FED	4	29	23S	29E	660'FNL & 660'FWL
3001542258	CIMAREX ENERGY CO	LAGUNA GRANDE 29 FED	5H	29	23S	29E	140'FNL & 330'FWL
3001542739	CIMAREX ENERGY CO	LAGUNA GRANDE UNIT	7H	29	23S	29E	180'FNL & 1650'FEL
3001542740	CIMAREX ENERGY CO	LAGUNA GRANDE UNIT	8H	29	23S	29E	280'FNL & 530'FEL
	BTA OIL PRODUCERS, LLC	LAKESIDE 20702 SWD	1	29	23S	29E	1850'FNL & 2640 'FEL
3001526172	DEVON ENERGY PROD	HARROUN TRUST	1	30	23S	29E	660'FSL & 2310'FEL
3001526414	DEVON ENERGY PROD	MALAGA HARROUN 31	1	31	23S	29E	2012'FNL & 1899'FEL
3001526954	DEVON ENERGY PROD	HARROUN TRUST 31 FED COM	1	31	23S	29E	1980'FSL & 660'FWL
3001540826	DEVON ENERGY PROD	HARROUN TRUST 31	4H	31	23S	29E	330'FSL & 1345'FEL
3001540827	DEVON ENERGY PROD	HARROUN TRUST 31	5H	31	23S	29E	330'FSL & 1299'FEL
3001531910	MARATHON OIL PERMIAN	GRANDE ST	1	32	23S	29E	660'FNL & 1980'FWL
3001539345	MARATHON OIL PERMIAN	MACHO GRANDE ST	1H	32	23S	29E	330'FNL & 330'FEL
3001542659	MARATHON OIL PERMIAN	MACHO GRANDE ST	2H	32	23S	29E	200'FNL & 700'FEL
3001536987	OXY USA INC	CYPRESS 33 FED	3	33	23S	29E	1650'FSL & 400'FEL
3001537308	OXY USA INC	CYPRESS 33 FED	2H	33	23S	29E	635'FNL & 765'FEL
3001537368	OXY USA INC	CYPRESS 33 FED	4H	33	23S	29E	1490'FNL & 250'FEL
3001540768	OXY USA INC	CYPRESS 33 FED COM	5H	33	23S	29E	453'FNL & 803'FEL
3001540768	OXY USA INC	CYPRESS 33 FED COM	5H	33	23S	29E	453'FNL & 803'FEL
3001541557	OXY USA INC	CYPRESS 33 FED COM	6H	33	23S	29E	466'FNL & 1040'FEL
3001542616	OXY USA INC	CYPRESS 33 FED COM	7H	33	23S	29E	150'FNL & 1900'FWL
3001543075	OXY USA INC	CYPRESS 33 FED COM	8H	33	23S	29E	150'FNL & 780'FWL
3001535742	OXY USA INC	CYPRESS 34 FED	4H	34	23S	29E	480'FNL & 560'FWL
3001543076	OXY USA INC	CYPRESS 34 FED	10H	34	23S	29E	210'FNL & 330'FWL
3001537076	EOG Y RESOURCES INC	JUNIPER BIP FED	6Y	4	24S	29E	330'FNL & 680'FWL
3001537968	EOG Y RESOURCES INC	JUNIPER BIP FED	10H	4	24S	29E	296'FNL & 718'FWL
3001544096	OXY USA INC	CYPRESS 33 FED COM	010H	4	24S	29E	212'FNL & 1337'FWL
3001542714	DEVON ENERGY PROD	HARROUN TRUST 6 FED COM	1H	6	24S	29E	10'FNL & 890'FEL
3001542715	DEVON ENERGY PROD	HARROUN TRUST 6 FED COM	2H	6	24S	29E	40'FNL & 850'FEL
3001543262	DEVON ENERGY PROD	HARROUN TRUST 6 SWD	1	6	24S	29E	660'FNL & 350'FEL

Pro-Kem, Inc.

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : BTA
Lease : Pardue C
Well No.: 5
Location:
Attention:

Date Sampled : 19-June-2013
Date Analyzed: 24-July-2013
Lab ID Number: Jul2413.001- 3
Salesperson :
File Name : Jul2413.001

ANALYSIS

1. Ph 6.300
2. Specific Gravity 60/60 F. 1.138
3. CACO3 Saturation Index

@ 80F
@140F

0.317
1.277

Mild
Severe

Dissolved Gasses

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

MG/L.
Not Present
300
Not Determined

EQ. WT.

*MEQ/L

Cations

7. Calcium (Ca++)
8. Magnesium (Mg++)
9. Sodium (Na+) (Calculated)
10. Barium (Ba++)

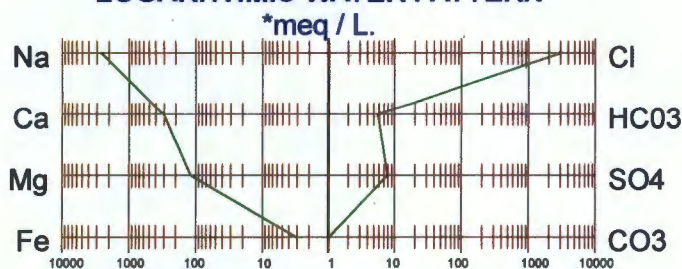
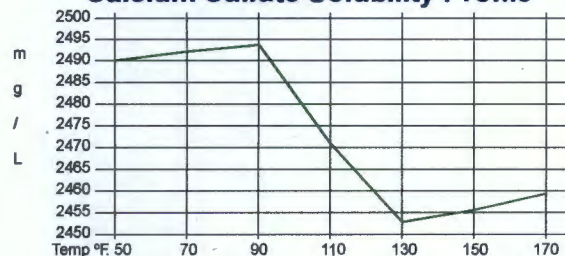
6,016 / 20.1 = 299.30
1,432 / 12.2 = 117.38
59,409 / 23.0 = 2,583.00
Not Determined

Anions

11. Hydroxyl (OH-)
12. Carbonate (CO3=)
13. Bicarbonate (HCO3-)
14. Sulfate (SO4=)
15. Chloride (Cl-)
16. Total Dissolved Solids
17. Total Iron (Fe)
18. Manganese (Mn++)
19. Total Hardness as CaCO3
20. Resistivity @ 75 F. (Calculated)

0 / 17.0 = 0.00
0 / 30.0 = 0.00
328 / 61.1 = 5.37
363 / 48.8 = 7.44
105,976 / 35.5 = 2,985.24
173,524
54.50 / 18.2 = 2.99
Not Determined
20,919

0.018 Ohm · meters

LOGARITHMIC WATER PATTERN**Calcium Sulfate Solubility Profile****PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	5.37		81.04	435
CaSO4	7.44		68.07	506
CaCl2	286.50		55.50	15,901
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.00		60.19	0
MgCl2	117.38		47.62	5,589
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	2,581.37		58.46	150,907

* milliequivalents per Liter

Tony Abernathy, Analyst

BONESPRING, WOLF CAMP WATER ANALYSIS LIST.

Water Sample Analysis

	Section	Location Township	Range	Chlorides
Poöl	2	25S	37E	45440
North Justis Montoya	2	25S	37E	58220
North Justis McKee	2	25S	37E	68533
North Justis Fusselman	2	25S	37E	34151
North Justis Ellenburger	22	24S	37E	116085
Fowler Blinbry	18	20S	38E	84845
Skaggs Grayburg	18	20S	38E	85910
Warren McKee	19	20S	38E	91600
Warren Abo	30	20S	38E	106855
DK Drinkard	8	21S	38E	38695
Littman San Andres	29	18S	38E	6461
East Hobbs grayburg	18	20S	32E	14768
Halfway Yates	12	18S	38E	7171
Arkansas Junction San Andres	28	19S	35E	114310
Pearl Queen	17	17S	37E	38494
Midway Abo	31	16S	37E	22933
Lovinton Abo	3	16S	37E	4899
Lovington San Andres	31	16S	37E	93720
Lovington Paddock	17	16S	32E	172530
Mesa Queen	27	16S	34E	49345
Kernitz Wolfcamp	9	16S	34E	124980
Hume Queen	2	16S	32E	11040
Anderson Ranch Wolfcamp	11	16S	32E	25702
Anderson Ranch Devonian	11	16S	32E	23788
Anderson Ranch Unit	9	16S	38E	20874
Caudill Devonian	6	16S	38E	38695
Townsend Wolfcamp	5	16S	37E	44730
Dean Permo Perin	35	15S	38E	18525
Dean Devonian	28	15S	37E	54315
South Denton Wolfcamp	36	15S	37E	34080
South Denton Devonian	15	15S	38E	39760
Medicine Rock Devonian	29	15S	30E	23288
Little Lucky-Lake Devonian	28	21S	37E	132770
Wantz Abo	18	25S	37E	58220
Crosby Devonian	7	26S	37E	3443(Reef)
Scarborough Yates Seven Rivers	34	23S	37E	114665
Teague Simpson	34	23S	37E	120345
Teague Ellenburger	27	26S	37E	144485
Rhodes Yates 7 Rivers	11	20S	38E	93385
House SA	12	20S	38E	49700
House Drinkard	24	26S	37E	115375
South Leonard Queen	2	21S	38E	55380
Elliot Abo	5	19S	35E	30601
Scharf Bone Springs	13	18S	34E	41890
EK Queen	22	18S	34E	179630
East EK Queen	22	17S	32E	40079
Mallamar Grayburg SA	27	17S	32E	115375
Mallamar Paddock	22	17S	32E	25418
Mallamar Devonian				



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02182	C		ED	4	30	23	S	29	E	592328	3571048*	1363	75	30	45

Average Depth to Water: 30 feet

Minimum Depth: 30 feet

Maximum Depth: 30 feet

Record Count: 1

Basin/County Search:

Basin: Carlsbad

County: Eddy

Subbasin: Carlsbad

UTMNAD83 Radius Search (in meters):

Easting (X): 593511.4

Northing (Y): 3571726.2

Radius: 1609.3

*UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)										(R=POD has been replaced and no longer serves this file, C=the file is closed)										(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)									
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q			q			X	Y	Distance											
										4	Sec	Tws	Rng	4	Sec				Tws	Rng									
C 03377	C	STK	3	B F & G FARMS	ED	C 03377 POD1					3	3	2	29	23S	29E	593596	3571587	162										
C 02182	C	PRO	0	SANTA FE ENERGY	ED	C 02182			Shallow		4	30	23S	29E	592328	3571048*	1363												

Record Count: 2

POD Search:

POD Basin: Carlsbad

Basin/County Search:

Basin: Carlsbad County: Eddy Subbasin: Carlsbad

UTM NAD83 Radius Search (in meters):

Easting (X): 593511.4 Northing (Y): 3571726.2 Radius: 1609.3

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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

1/25/18 9:24 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION

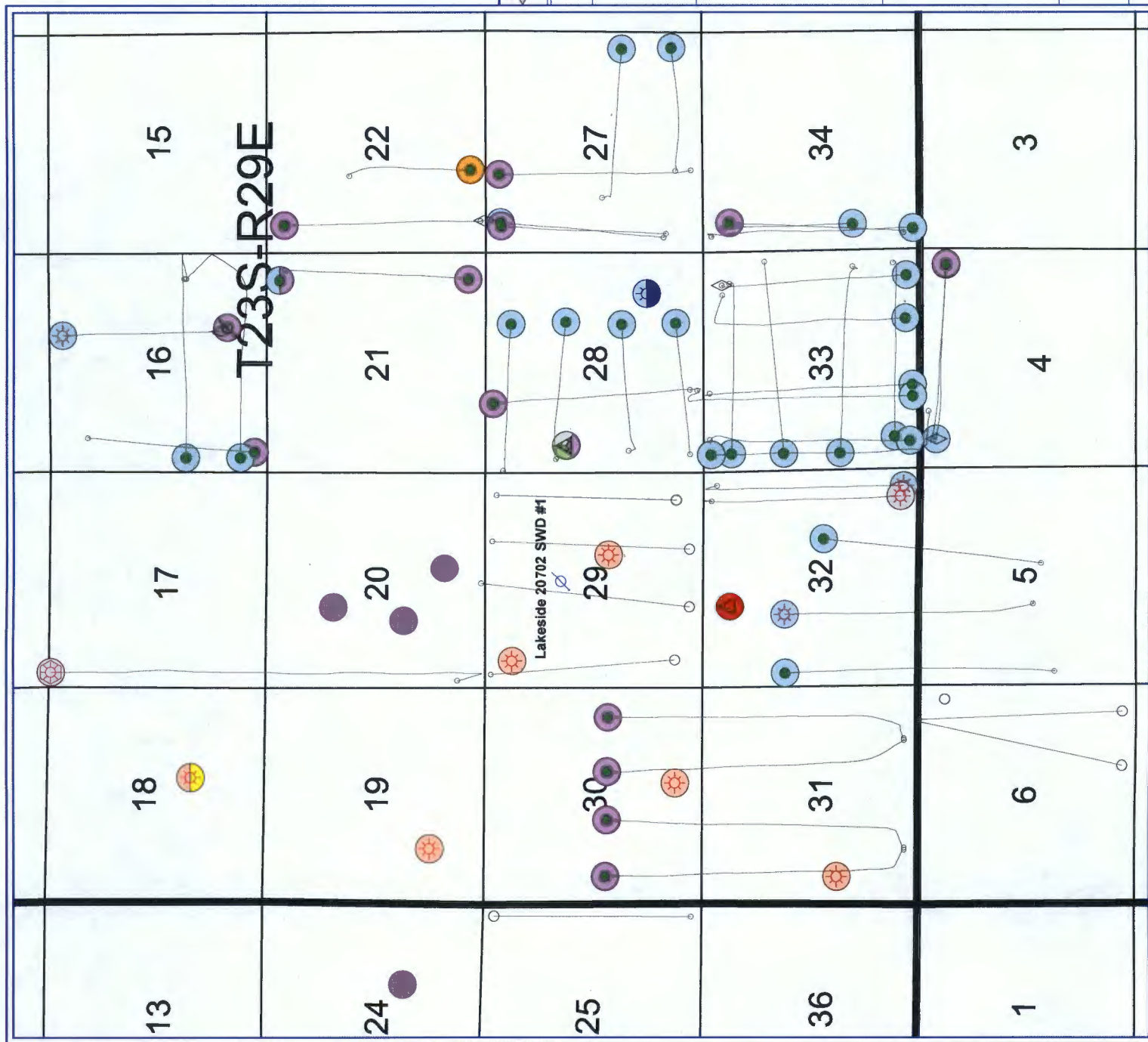
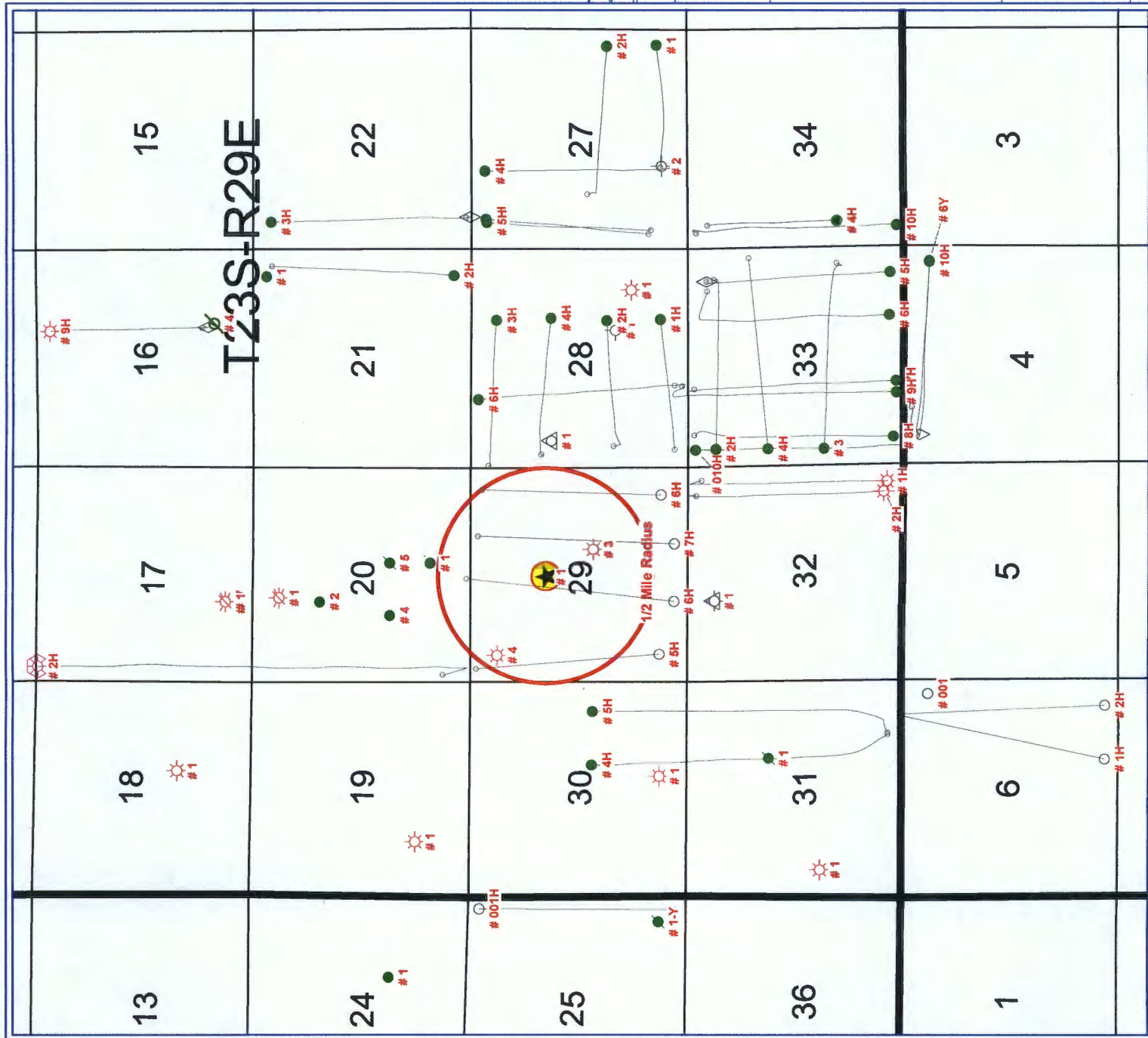


Exhibit "A" - Active Operators

API #	Operator	Well Name	Well No.	Sec	Tw	Rng	Footage Calls
3001528165	DEVON ENERGY PROD	HARROUN TRUST 19	1	19	23S	29E	1316'FSL & 1320'FWL
3001532987	CHEVRON USA INC	TELEDYNE 20	2	20	23S	29E	1650'FNL & 1980'FWL
3001533323	BTA OIL PRODUCERS, LLC	TELEDYNE 20	4	20	23S	29E	1980'FSL & 1650'FWL
3001533599	BTA OIL PRODUCERS, LLC	HARROUN RANCH FED 20702	1	20	23S	29E	990'FSL & 2310'FEL
3001543174	CIMAREX ENERGY CO	LAGUNA GRANDE 29 FED	6H	20	23S	29E	98'FSL & 2562'FWL
3001543360	BTA OIL PRODUCERS, LLC	HARROUN RANCH FED COM 20702	2H	20	23S	29E	680'FSL & 180'FWL
3001534750	CHEVRON USA INC	IMC 21	1	21	23S	29E	330'FNL & 660'FEL
3001536109	CHEVRON USA INC	IMC 21 FED COM	2H	21	23S	29E	460'FNL & 410'FEL
3001521636	LAGUNA GRANDE LLC	LAGUNA GRANDE UNIT	1	28	23S	29E	1380'FSL & 990'FEL
3001530113	DEVON ENERGY PROD	COCHITI 28 FED	1	28	23S	29E	1980'FNL & 660'FWL
3001537249	OXY USA INC	CYPRESS 28 FED	1H	28	23S	29E	330'FSL & 440'FWL
3001537331	OXY USA INC	CYPRESS 28 FED	2H	28	23S	29E	1833'FSL & 530'FWL
3001538287	OXY USA INC	CYPRESS 28 FED	3H	28	23S	29E	435'FNL & 60'FWL
3001539330	OXY USA INC	CYPRESS 28 FED	4H	28	23S	29E	1730'FNL & 330'FWL
3001541138	OXY USA INC	CYPRESS 28 FED	6H	28	23S	29E	330'FSL & 2000'FWL
3001543751	OXY USA INC	CYPRESS 33 FED COM	9H	28	23S	29E	140'FSL & 1935'FWL
3001523414	CIMAREX ENERGY CO	LAGUNA GRANDE UNIT	3	29	23S	29E	2310'FSL & 1980'FEL
3001533219	CIMAREX ENERGY CO	LAGUNA GRANDE FED	4	29	23S	29E	660'FNL & 660'FWL
3001542258	CIMAREX ENERGY CO	LAGUNA GRANDE 29 FED	5H	29	23S	29E	140'FNL & 330'FWL
3001542739	CIMAREX ENERGY CO	LAGUNA GRANDE UNIT	7H	29	23S	29E	180'FNL & 1650'FEL
3001542740	CIMAREX ENERGY CO	LAGUNA GRANDE UNIT	8H	29	23S	29E	280'FNL & 530'FEL
	BTA OIL PRODUCERS, LLC	LAKESIDE 20702 SWD	1	29	23S	29E	1850'FNL & 2640'FEL
3001526172	DEVON ENERGY PROD	HARROUN TRUST	1	30	23S	29E	660'FSL & 2310'FEL
3001526954	DEVON ENERGY PROD	HARROUN TRUST 31 FED COM	1	31	23S	29E	1980'FSL & 660'FWL
3001540826	DEVON ENERGY PROD	HARROUN TRUST 31	4H	31	23S	29E	330'FSL & 1345'FEL
3001540827	DEVON ENERGY PROD	HARROUN TRUST 31	5H	31	23S	29E	330'FSL & 1299'FEL
3001539345	MARATHON OIL PERMIAN	MACHO GRANDE ST	1H	32	23S	29E	330'FNL & 330'FEL
3001542659	MARATHON OIL PERMIAN	MACHO GRANDE ST	2H	32	23S	29E	200'FNL & 700'FEL
3001536987	OXY USA INC	CYPRESS 33 FED	3	33	23S	29E	1650'FSL & 400'FEL
3001537308	OXY USA INC	CYPRESS 33 FED	2H	33	23S	29E	635'FNL & 765'FEL
3001537368	OXY USA INC	CYPRESS 33 FED	4H	33	23S	29E	1490'FNL & 250'FEL
3001540768	OXY USA INC	CYPRESS 33 FED COM	5H	33	23S	29E	453'FNL & 803'FEL
3001540768	OXY USA INC	CYPRESS 33 FED COM	5H	33	23S	29E	453'FNL & 803'FEL
3001541557	OXY USA INC	CYPRESS 33 FED COM	6H	33	23S	29E	466'FNL & 1040'FEL
3001542616	OXY USA INC	CYPRESS 33 FED COM	7H	33	23S	29E	150'FNL & 1900'FWL
3001543075	OXY USA INC	CYPRESS 33 FED COM	8H	33	23S	29E	150'FNL & 780'FWL



BTA OIL PRODUCERS, LLC

Lakeside 20702 SWD #1

1/2 Mile Radius Map

Section 29, T23S-29E

Eddy County, New Mexico

WELL SYMBOLS

- ★ Proposed Location
- Permitted Location
- ⊗ Completing/Completed
- Oil Well
- ⊙ Gas Well
- ⊖ Dry Hole
- ⊕ Plugged & Abandoned Oil Well
- ⊗ Plugged & Abandoned Gas Well
- ⊙ Injection From Oil
- ⊕ Service Well
- ⊖ Pilot Hole

REMARKS
 Lakeside 20702 SWD #1 Highlighted in Yellow
 1/2 Mile Radius Indicated in Red
 Only Wells Within 2 Mile Radius Shown on Map
 See Exhibit "A" For Well List

By: JHB

BTA Oil Producers LLC
Application for Authorization to Inject
Lakeside 20702 SWD 1
1750' FNL and 2640 FEL
Sec. 29, T23S, R20E
Eddy County, New Mexico

Attachment to C-108

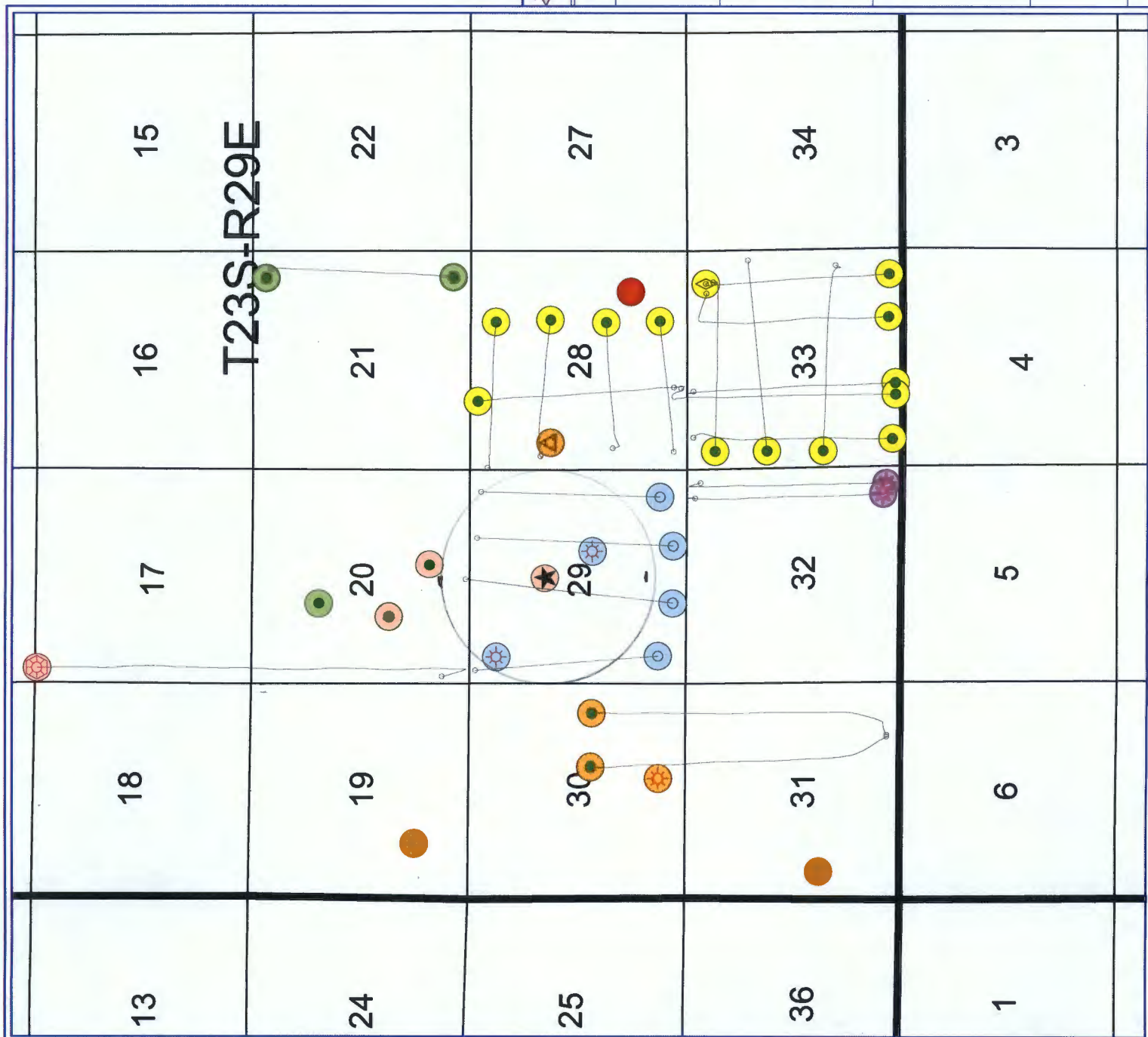
VI AOR Well Data

Well Name	Operator	Location	Type of Well	Spud Date	Comp Date	TD PBD	Comp Interval	Producing Formation	Casing Program			
									Casing	Depth	Amt Cmt	Circ
LAGUNA GRANDE UNIT 3	CIMAREX ENERGY CO	2310'FSL & 1980'FEL of Sec. 29, T23S, R29E	GAS	9/7/1980	1/16/1981	13690 12600	12104-12116	ATOKA	13.375	202'	350 SX	
									10-3/4 7-5/8 5-1/2	2800' 10730' 12725	1150 SX 1555 SX 440 SX	N/A
LAGUNA GRANDE FED 4	CIMAREX ENERGY CO	660' FNL and 660' FWL of Sec. 29, T23S, R29E	GAS	4/26/2004	1/14/2005	12333 12025	11972-11979	ATOKA	13-3/8" 9-5/8" 7 "	430' 3028' 11000'	698 SX 1200 SX 200 SX	SURFACE CIRC 8365'
									4-1/2"	12333'	200 SX	10875'

BTA Oil Producers LLC
Application for Authorization to Inject
Lakeside 20702 SWD 1
1750' FNL and 2640 FEL
Sec. 29, T23S, R20E
Eddy County, New Mexico

[illegible]

Rotask/R-III-P
Outside SO & R-III-P
ad



BTA OIL PRODUCERS, LLC	
Lakeside 20702 SWD #1	
Active Operator Map Section 29, T23S-29E Eddy County, New Mexico	
WELL SYMBOLS Proposed Location Permitted Location Completing/Completed Oil Well Gas Well Service Well Pilot Hole	
ATTRIBUTE MAP Operator Name Contains "BTA OIL PRODUCERS, LLC" [4] Operator Name Contains "CHEVRON USA INC" [3] Operator Name Contains "CIMAREX ENERGY CO" [6] Operator Name Contains "DEVON ENERGY PROD" [6] Operator Name Contains "LAGUNA GRANDE LLC" [1] Operator Name Contains "MARATHON OIL PERMIAN" [2] Operator Name Contains "OXY USA INC" [14]	
REMARKS Only Active Locations Shown on Map See Exhibit "A" For Well List	
By: JHB	

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

OXY USA Inc.
5 Greenway Plaza, Ste 110
Houston, TX 77046



9590 9402 3177 7166 8484 46

Article Number (Transfer from service label)

7015 0640 0001 5098 40073

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Adult Signature ☐ Agent

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

RECEIVED
DEC 11 2017
BTA

3. Service Type

☐ Adult Signature ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☐ Certified Mail® ☐ Registered Mail Restricted Delivery
☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise
☐ Collect on Delivery ☐ Signature Confirmation™
☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery
☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Cinmarex Energy Co.
15 East 5th St. Suite 1000
Tulsa, OK 74103



9590 9402 3199 7166 1555 22

Article Number (Transfer from service label)

7015 0640 0001 5098 4017

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Adult Signature ☐ Agent

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

RECEIVED
DEC 11 2017
BTA

3. Service Type

☐ Adult Signature ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☐ Certified Mail® ☐ Registered Mail Restricted Delivery
☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise
☐ Collect on Delivery ☐ Signature Confirmation™
☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery
☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

CHEVRON USA Inc.
P.O. Box 201578
Houston, TX 77216



9590 9402 3199 7166 1555 39

Article Number (Transfer from service label)

7015 0640 0001 5098 400011

PS Form 3811, July 2015 PSN 7530-02-000-9053

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Altura Energy LTD
P.O. Box 100725
Atlanta, GA 30384-0725



9590 9402 3199 7166 1555 46

Article Number (Transfer from service label)

7015 0640 0001 5098 3997

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Adult Signature ☐ Agent

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

RECEIVED
DEC 11 2017
BTA

3. Service Type

☐ Adult Signature ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☐ Certified Mail® ☐ Registered Mail Restricted Delivery
☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise
☐ Collect on Delivery ☐ Signature Confirmation™
☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery
☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Adult Signature ☐ Agent

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

RECEIVED
DEC 11 2017
BTA

3. Service Type

☐ Adult Signature ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☐ Certified Mail® ☐ Registered Mail Restricted Delivery
☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise
☐ Collect on Delivery ☐ Signature Confirmation™
☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery
☐ Insured Mail ☐ Insured Mail Restricted Delivery (over \$500)

Domestic Return Receipt

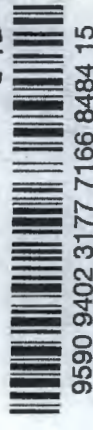
SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508



9590 9402 3177 7166 8484 15

Article Number (Transfer from service label)

150640000150984130

Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

NOV 30 2017

3. Service Type

- ☐ Priority Mail Express®
☐ Adult Signature
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery
☐ Insured Mail (over \$500)

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.

■ Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Dexon Energy Prod.
333 W. Sheridan Ave.
Oklahoma City, OK 73102-5015



9590 9402 3177 7166 8485 14

2. Article Number (Transfer from service label)

10150640000150984024

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

NOV 29 2017

3. Service Type

- ☐ Priority Mail Express®
☐ Adult Signature
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery
☐ Insured Mail (over \$500)

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Eog Resources Inc
104 S. 4th St.
Artesia, NM 88210



9590 9402 3177 7166 8484 91

Article Number (Transfer from service label)

150640000150984048

Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

NOV 29 2017

3. Service Type

- ☐ Priority Mail Express®
☐ Adult Signature
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery
☐ Insured Mail (over \$500)

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.

■ Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Dinero Operating Co.
P.O. Box 10505
Midland, TX 79702



9590 9402 3177 7166 8485 07

2. Article Number (Transfer from service label)

70150640000150984031

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

NOV 29 2017

3. Service Type

- ☐ Priority Mail Express®
☐ Adult Signature
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery
☐ Insured Mail (over \$500)

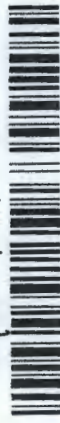
SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Newbourne Oil Co.
P.O. Box 7698
Tyler, TX 75711-7698



9590 9402 3177 7166 8484 53

Article Number (Transfer from service label)

015 0640 0001 5098 4056

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature Ed Stuebel ☒ Agent ☐ Addressee
B. Received by (Printed Name) Eric M Stuebel C. Date of Delivery 11/30/17
D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

RECEIVED
DEC 04 2017
OIL FIELD BTA

3. Service Type
☐ Adult Signature ☐ Registered MailTM
☐ Adult Signature Restricted Delivery ☐ Registered Mail Restricted Delivery
☐ Certified Mail[®] ☐ Return Receipt for Merchandise
☐ Collect on Delivery Restricted Delivery ☐ Signature ConfirmationTM
☐ Insured Mail ☐ Signature Confirmation Restricted Delivery
(over \$500)

COMPLETE THIS SECTION ON DELIVERY

A. Signature Ed Stuebel ☒ Agent ☐ Addressee
B. Received by (Printed Name) Saul Rodriguez C. Date of Delivery 1-16-18
D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

RECEIVED

3. Service Type
☐ Priority Mail Express[®] ☐ Registered MailTM
☐ Adult Signature ☐ Registered Mail Restricted Delivery
☐ Certified Mail[®] ☐ Return Receipt for Merchandise
☐ Collect on Delivery Restricted Delivery ☐ Signature ConfirmationTM
☐ Insured Mail ☐ Signature Confirmation Restricted Delivery
(over \$500)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Penroc Oil Corp.
P.O. Box 2769
Hobbs, N.M. 88241-2769



9590 9402 3177 7166 8484 22

Article Number (Transfer from service label)

7013 0640 0001 5098 4123

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Marathon Oil Permian
P.O. Box 732309
Dallas, TX 75373-2309



9590 9402 3177 7166 8484 60

Article Number (Transfer from service label)

7015 0640 0001 5098 4079

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature Gabriel Asamoah ☒ Agent ☐ Addressee
B. Received by (Printed Name) Gabriel Asamoah C. Date of Delivery 11/30/17
D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:


RECEIVED
NOV 30 2017

3. Service Type
☐ Adult Signature ☐ Registered MailTM
☐ Adult Signature Restricted Delivery ☐ Registered Mail Restricted Delivery
☐ Certified Mail[®] ☐ Return Receipt for Merchandise
☐ Collect on Delivery Restricted Delivery ☐ Signature ConfirmationTM
☐ Insured Mail ☐ Signature Confirmation Restricted Delivery
(over \$500)

COMPLETE THIS SECTION ON DELIVERY

A. Signature Ague Reson ☒ Agent ☐ Addressee
B. Received by (Printed Name) Ague Reson C. Date of Delivery 11-29-17
D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type
☐ Priority Mail Express[®] ☐ Registered MailTM
☐ Adult Signature ☐ Registered Mail Restricted Delivery
☐ Certified Mail[®] ☐ Return Receipt for Merchandise
☐ Collect on Delivery Restricted Delivery ☐ Signature ConfirmationTM
☐ Insured Mail ☐ Signature Confirmation Restricted Delivery
(over \$500)

		BOREHOLE PROFILE	
Weatherford		SPECTRAL GAMMA RAY	
COMPANY MESQUITE SWD WELL CEDAR CANYON SWD #1 FIELD CEDAR CANYON PROVINCE/COUNTY EDDY COUNTRY/STATE U.S.A / NEW MEXICO LOCATION 1310' FSL & 1153' FEL PERMIT NUMBER SEC-8-T-24S, RGE-29E			
SEC 8	TWP 24S	RGE 29E	Other Services
Latitude	32.228353	PHOTO DENSITY	COMPENSATED NEUTRON
Longitude	-104.001282	DUAL LATEROL OG	MICRO LATEROL OG
API Number	30-015-44054	CROSS DIPOLE SONIC	MICRO IMAGER
Permanent Datum GL	Elevation 2929.7 feet	Elevations:	feet
Log Measured From KB		KB	2955.7
Drilling Measured From ICB		DF	2954.7
		GL	2929.7
Date	12-APR-2017		
Run Number	CNE		
Service Order	7080-179157915		
Depth Driller	15765.00	feet	
Depth Logger	15766.00	feet	
First Reading	15760.00	feet	
Last Reading	14694.00	feet	
Casing Driller	14583.00	feet	
Casing Logger	14694.00	feet	
Bit Size	6.500	inches	
Flow Fluid Type	BRINE		
Density / Viscosity	8.90 lb/lsg	29.00 sec/cp	
PH / Fluid Loss	9.00		
Sample Source	FLOWLINE		
Rin @ Measured Temp	0.106 @ 71.1	ohm-in	
Rin @ Measured Temp	0.081 @ 71.1	ohm-in	
Rin @ Measured Temp	0.135 @ 71.1	ohm-in	
Source Rin / Rin	CALC	CALC	
Rin @ BHT	0.034 @ 244.0	ohm-in	
Time Since Circulation	13 HOURS		
Max Recorded Temp	244.00	deg F	
Equipment / Base	13370	4352	
Recorded By	ROSS KLABON		
Witnessed By	PALEY NEATHERLIN		

BOREHOLE RECORD

Last Edited: 12-APR-2017 21:20

BK Size inches	Depth From feet	Depth To feet
26.000	0.00	532.00
17.500	532.00	2810.00
12.250	2810.00	9980.00
8.500	9980.00	14694.00
6.500	14694.00	15788.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURF	20.000	0.00	532.00	133.00
INTER	13.375	0.00	2810.00	68.00
INTER	9.625	0.00	9980.00	53.50
LINER	7.625	9360.00	14694.00	39.00

REMARKS

TOOLS RAN: MTD, MRD, MDM, MIE, MIM, SKJ, MTI, SKJ, MLG, MLE, MUG, SKJ, MPD, MVC, MDN, MMR, MSG, MCG, MBE, MBE, SHA

HARDWARE RAN: MIE- (1) CENTRALIZER
 MIM- (1) CENTRALIZER
 MDM- (1) CENTRALIZER
 MTD- (1) CENTRALIZER
 MDN- (1) DUAL BOW SPRING
 MLE- (2) ONE INCH STAND OFFS

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY

McMillan, Michael, EMNRD

From: Katy W. Reddell <KReddell@btaoil.com>
Sent: Tuesday, March 6, 2018 4:16 PM
To: McMillan, Michael, EMNRD
Subject: LAKESIDE 20702 SWD #1
Attachments: LAKESIDE 20702 SWD 1 AFFIDAVIT.pdf

Please find attached the Affidavit for the Lakeside 20702 SWD #1.

Thank you,

Katy

Katy Reddell
Regulatory Analyst
BTA Oil Producers, LLC
104 S. Pecos
Midland, TX. 79701
Office: 432-682-3753
Cell: 432-557-2869



Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Danny Fletcher, being first duly
sworn, on oath says:

That he is the Publisher of the
Carlsbad Current-Argus, a
newspaper published daily at the
City of Carlsbad, in said county of
Eddy, state of New Mexico and of
general paid circulation in said
county; that the same is a duly
qualified newspaper under the laws
of the State wherein legal notices
and advertisements may be
published; that the printed notice
attached hereto was published in the
regular and entire edition of said
newspaper and not in supplement
thereof on the date as follows, to wit:

February 9 2018

That the cost of publication is **\$64.87**
and that payment thereof has been
made and will be assessed as court
costs.

Subscribed and sworn to before me
this 13 day of February, 2018

Cynthia Arredondo

My commission Expires 2/13/21

Notary Public



February 9, 2018

BTA OIL PRODUCERS
LLC, 104 S Pecos,
Midland, Texas 79701,
will file form C-108
(Application for Au-
thorization to Inject)
with the New Mexico
Oil Conservation Divi-
sion seeking adminis-
trative approval for a
salt water disposal
well. The proposed well,
Lakeside 20702 SWD #1
is located 1750' FNL &
2640' FEL, Section 29,
T23S, R29E, Eddy County,
NM. Disposal water
will be sourced from
area wells producing
from the Delaware,
Bone Spring, and
Wolfcamp formations.
The disposal water
will be injected into
the Devonian/Silurian
formation at a depth
of 14,500' - 16,000', at
a maximum surface
pressure of 2901 psi,
and an average rate of
25000 BWPD.

All interested parties
opposing the action
must file objections or
requests for hearing
with the Oil Conserva-
tion Division, 1220
South St. Francis Drive,
Santa Fe, NM 87505,
within 15 days. Addi-
tional information can
be obtained by con-
tacting Nick Eaton,
Drilling Engineer, at
104 S Pecos, Midland, TX
79701, or (432) 682-
3753.



BTA OIL PRODUCERS, LLC
104 SOUTH PECOS STREET
MIDLAND, TEXAS 79701-5021
432-682-3753

Re: Application to Inject Fluid into the Devonian/Silurian formation
For the Lakeside 20702 SWD 1 in Eddy Co. New Mexico

Enclosed, please find BTA Oil Producers' application to inject Fluid into the Devonian/Silurian formation for the above referenced well. Enclosed, please find the a copy of the application.

If you have any concerns or questions, please notify the OCD at (505)476-3440.

Respectfully,

Katy Reddell
BTA Oil Producers, LLC



RECEIVED OCD

2018 FEB -2 P 1:19

BTA OIL PRODUCERS, LLC
104 SOUTH PECOS STREET
MIDLAND, TEXAS 79701-5021
432-682-3753

William V. Jones - District 4 Supervisor
Petroleum Engineering Specialist
Phone: (505) 476-3477
Cell: (505) 419-1995
FAX: (505) 476-3462

Re: Application for authorization to inject for BTA Oil Producers LLC Lakeside 20702 SWD 1, 1750' FNL and 2640 FEL in Section 29, T23S and R29E, Eddy County New Mexico.

William,
Please find attached BTA's application for authorization to inject into the Devonian formation. Sec. 29; T23S; R29E. Eddy County, NM. BTA Oil Producers LLC proposes to drill the captioned well to 16,000' for salt water disposal into the Devonian from approximately 14,507' – 16,000'. A drilling permit will be submitted upon approval of this C-108.

Respectfully,

Katy Reddell
BTA Oil Producers, LLC



FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V16.2]

DATE RECORD: First Rec: 02/09/18 Admin Complete: 02/09/18 or Suspended: 02/20/18 Add. Request/Reply: Various

ORDER TYPE: WFX / PMX / SWD Number: 1742 Order Date: 8/14/2018 Legacy Permits/Orders: - surface location
- published notice

Well No. 1 Well Name(s): Lakeside 20702 SWD

API: 30-015-45146 Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)

Footages 1750' FNL / 2640' FEL Lot - or Unit G Sec 29 Tsp 23S Rge 29E County Eddy

General Location: 5 mi east of Irving, Seagun Flat Pool: SWD, Darnion-Silurian Pool No.: 97869

BLM 100K Map: Carlsbad Operator: BTA Oil Producers, LLC OGRID: 260297 Contact: Haley Reddell / BTA

COMPLIANCE RULE 5.9: Total Wells: 185 Inactive: 2 Fincl Assur: OK Compl. Order? No IS 5.9 OK? Yes Date: 8/14/2018

WELL FILE REVIEWED ☒ Current Status: No API / APD API issued 8/14/2018 Reviewed 8/14/2018

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: None

Planned Rehab Work to Well: NA

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> Surface		17 1/2 / 13 3/8	0 to 650'	380	Circulate to surface
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Interm/Prod		12 1/4 / 9 5/8	0 to 10800' - 2880'	800 + 500	Circulate to surface
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Interm/Prod		-	-	-	-
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Prod/Liner		-	-	-	-
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> Line		8 3/4 / 7"	10300 to 14507'	None	Circulated / no method
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> OH / PERF		6 1/8	14507 to 16000	Inj Length 1493'	

Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			Mississippian	
Confining Unit: Litho. Struc. Por.			δ - thickness / Wolford Sh	14361
Proposed Inj Interval TOP:		14507	Darnion	14507
Proposed Inj Interval BOTTOM:			Silurian	
Confining Unit: Litho. Struc. Por.		16000 (est)	Ordovician	16000
Adjacent Unit: Litho. Struc. Por.				650'

Completion/Operation Details:	
Drilled TD	NEW TD 16000
PBTD	NEW PBTD
NEW Open Hole <input checked="" type="checkbox"/> or NEW Pore	
Tubing Size 4 1/2" tapered to 3"	Inter Coated? Yes
Proposed Packer Depth	14477 ft
Min. Packer Depth	14407 (100-ft limit)
Proposed Max. Surface Press.	2000 psi
Admin. Inj. Press.	2901 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? NA BLM Sec Ord NA WIPP NA Noticed? - Salt/Salado T: B: NW: Cliff House fm -

FRESH WATER: Aquifer Alluvial / Pustler Max Depth <250' HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Carlsbad CAPITAN REEF: thru - adj - NA ☒ No. GW Wells in 1-Mile Radius? 1 FW Analysis? Not able to

Disposal Fluid: Formation Source(s) BS and Wolfcamp Analysis? Yes On Lease ☐ Operator Only ☐ or Commercial ☐

Disposal Interval: Inject Rate (Avg/Max BWPD): 25000/45000 Protectable Waters? No Source: Historical System: Closed or Open

HC Potential: Producing Interval? Yes Formerly Producing? No Method: Logs/DST/P&A/Other required 2-Mi Radius Pool Map possible

AOR Wells: 1/2-M Radius Map and Well List? Yes No. Penetrating Wells: 0 [AOR Horizontals: - AOR SWDs: -]

Penetrating Wells: No. Active Wells - Num Repairs? - on which well(s)? - Diagrams? -

Penetrating Wells: No. P&A Wells - Num Repairs? - on which well(s)? - Diagrams? -

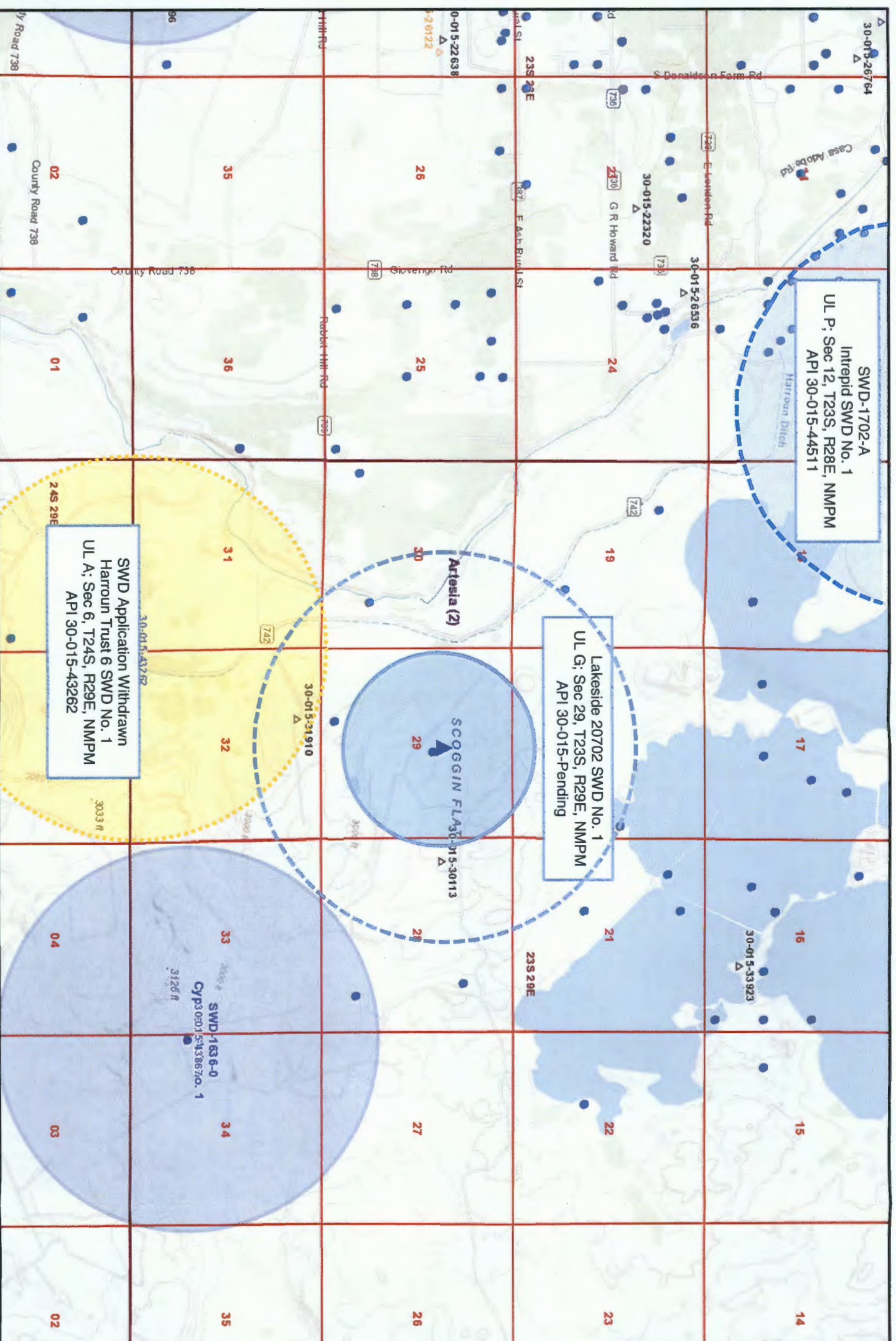
NOTICE: Newspaper Date 2/8/2018 Mineral Owner BLM Surface Owner BLM N. Date 11/30/17

RULE 26.7(A): Identified Tracts? Yes Affected Persons: EOG Resources / Devon / Dinero Oper. / Marbourn N. Date 11/29-30/17

Order Conditions: Issues: TOC for liner; minimum cost tie/notice to office; HE potential; strat.

Additional COAs: CBL across top of liner; standard casing tie requirement; mud log; formation control

C-108 Application for Lakeside 20702 SWD No. 1 – BTA Oil Producers, LLC



Lakeside 20702 SWD No. 1 – BTA Oil Producers, LLC

API 30-015-Pending Application No. pMAM1803856424; Rcvd 02.09.2018

Proposed interval: Devonian-Silurian interval; 14,507' to 16,000'

Proposed construction: tapered set; 4.5-inch tubing in 7-inch liner to 5.5-inch upper tubing

Closest Devonian Wells with Large-Volume Potential: Cypress SWD No. 1 (30-015-43867) well spud 5/30/2018; approved tubing set with 5.5-in in liner under R-14392-A. Harroun Trust 6 SWD No. 1 (Devon Energy) was withdrawn due to protest of surface use by SW Salt.

Goetze, Phillip, EMNRD

From: Katy W. Reddell <KReddell@btaoil.com>
Sent: Monday, August 6, 2018 2:26 PM
To: Goetze, Phillip, EMNRD
Subject: Justification for water well for Lakeside SWD 1
Attachments: Water Well Response letter for Lakeside SWD 1.pdf

Here you go Phillip,
Sorry for the confusion and delay.
Thank you so much,
Katy

Katy Reddell
Regulatory Analyst
BTA Oil Producers, LLC
104 S. Pecos
Midland, TX. 79701
Office: 432-682-3753
Cell: 432-557-2869





BTA OIL PRODUCERS, LLC
104 SOUTH PECOS STREET
MIDLAND, TEXAS 79701-5021
432-682-3753

Re: Water Well for Lakeside SWD #1

BTA was unable to attain a water analysis from the water well with/in the needed radius for this Lakeside SWD 1. Unable to gain access to the water well.

Respectfully,

Katy Reddell
BTA Oil Producers, LLC

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Wednesday, February 7, 2018 3:33 PM
To: 'kreddell@btaoil.com'
Cc: Jones, William V, EMNRD; Goetze, Phillip, EMNRD
Subject: BTA Lakeside 20702 SWD Well No. 1 Suspended application

Katy:
The OCD received the BTA Lakeside 20702 SWD Well No. 1 on February 2, 2018.
Your affidavit of publication was in the Hobbs Daily Sun newspaper, Lea County.
However, your proposed well in Eddy County.
The OCD requires that the legal ad and corresponding affidavit of publication be in the county in which the proposed well is located.
As a result your application will be suspended until BTA runs the newspaper ad (and affidavit of publication) in an Eddy County newspaper.

Thanks

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

Goetze, Phillip, EMNRD

From: Katy W. Reddell <KReddell@btaoil.com>
Sent: Tuesday, August 14, 2018 8:48 AM
To: Goetze, Phillip, EMNRD
Subject: Revised C-102 Lakeside SWD 1
Attachments: C-102 LAKESIDE 20702 SWD 1 final.pdf; LETTER FOR LAKESIDE SWD 1 C-102 REVISION.pdf

Phillip,
Please find attached the revised C-102 to show the relocation 10 feet to the east to make the location legal at 2630' FEL. I have also attached the letter stating the results of the relocation to be compliant with any noticing.
Thank you,
Katy Reddell

Katy Reddell
Regulatory Analyst
BTA Oil Producers, LLC
104 S. Pecos
Midland, TX. 79701
Office: 432-682-3753
Cell: 432-557-2869





BTA OIL PRODUCERS, LLC
104 SOUTH PECOS STREET
MIDLAND, TEXAS 79701-5021
432-682-3753

Re: Lakeside SWD 1 C-102 Revision

Phillip,

BTA Oil Producers, LLC has relocated the surface location to be compliant with the minimum distance to quarter-quarter section boundaries as detailed in 10.15.15.9 NMAC. This relocation does not change the notice or wells.

Respectfully,

A handwritten signature in blue ink, appearing to read "Katy Reddell", written over a horizontal line.

Katy Reddell
BTA Oil Producers, LLC

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, New Mexico 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	Pool Name SWD/DEVONIAN-SILURIAN
Property Code	Property Name LAKESIDE 20702 SWD	Well Number 1
OGRID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Elevation 2996'

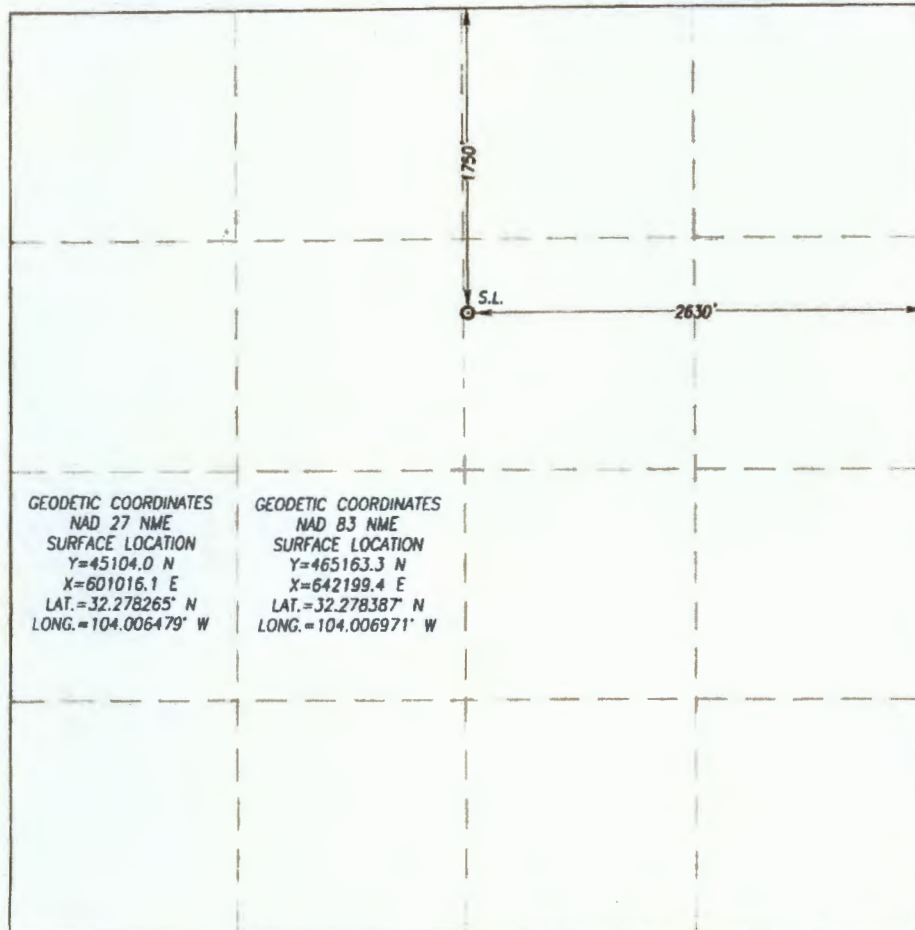
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	29	23-S	29-E		1750	NORTH	2630	EAST	EDDY

Bottom Hole Location If Different From Surface

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

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



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unEDDY and 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

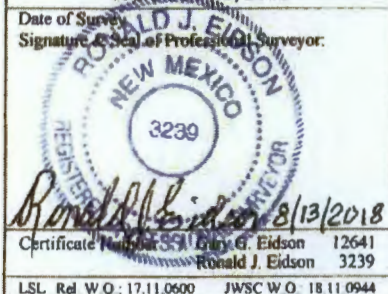
Signature: *Katy Reddell* Date: 8/14/2018
Printed Name: KATY REDDELL
E-mail Address: KReddell@btaoil.com

SURVEYOR 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 supervision, and that the same is true and correct to the best of my belief.

AUGUST 10, 2018

Date of Survey: *August 10, 2018*
Signature: *Ronald J. Eidson* Seal of Professional Surveyor.



County: Eddy - 015

BLM Field Office: Carlsbad

**BUREAU OF LAND MANAGEMENT
STATUS OF PUBLIC DOMAIN
LAND AND MINERALS**

MTP

T23S R29E

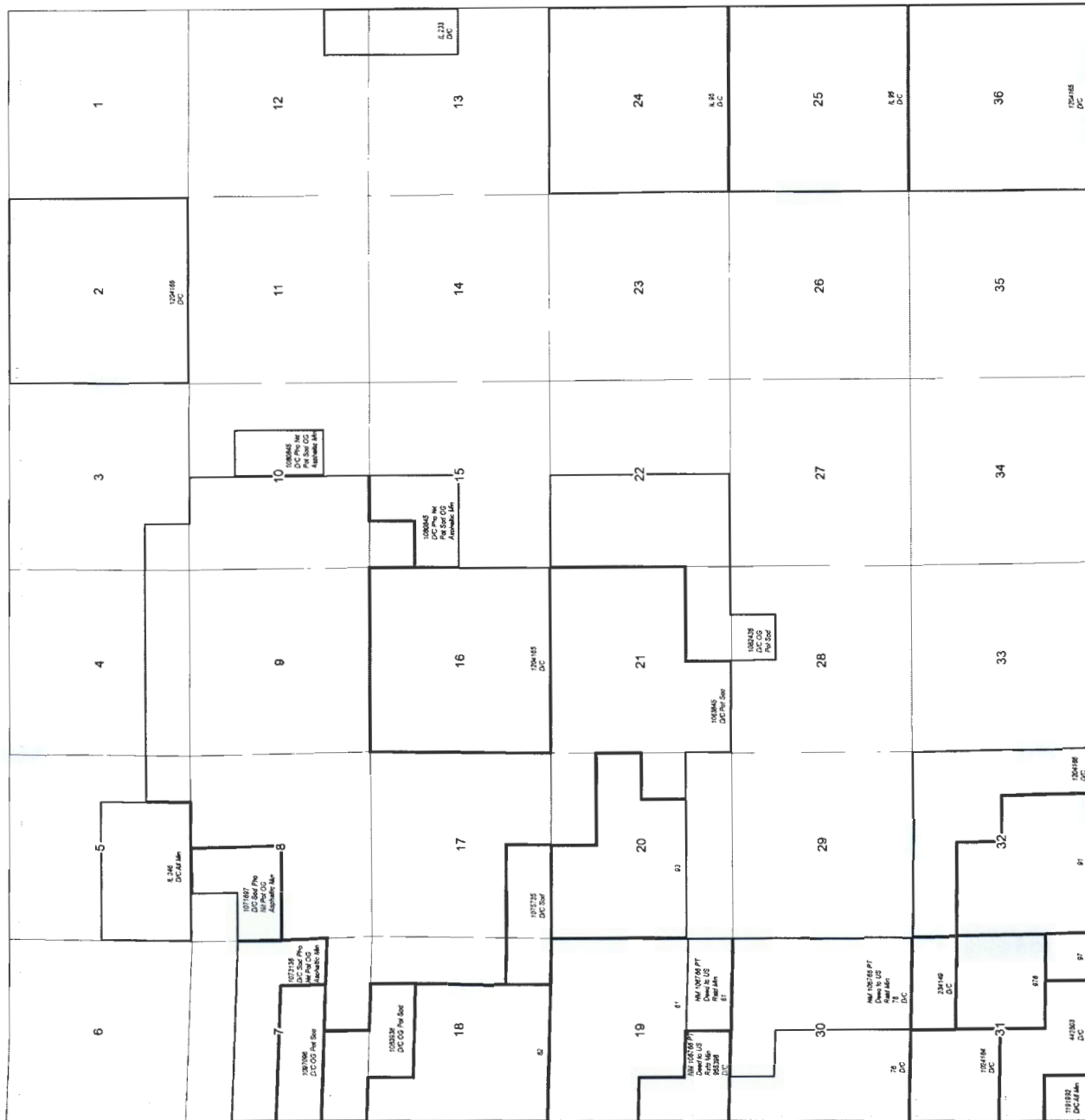
Entire Township included in:
 EO Wdl NM 2 Pot Res 7 (6/8/1979)
 Designated Port Area SO 10/7/1975 (Partial)
 Cl of Public Lands NM 0560202 (Cl No 30-05-01)

Permian Basin SX Apin
 NM 114461 (NOI, NOM)
 Sec 7: S2SE
 Sec 8: SWSW
 Sec 17: W2, W2SE
 Sec 18: E2
 Sec 20: N2NE, NESE

NOTE: The Serial Numbers displayed are in the Bureau's LEGEND system format. If there is a zero in the 7th position (from the right), the serial number has a "prefix" zero; example NM 001345.

If there is not a zero in the 7th position (from the right), then the serial number does not have a "prefix" zero; example NM 012345.

T 23 S
R 29 E
NMPM



CAVEAT STATEMENT

This plat is the Bureau's Record of Title, and should be used only as a graphic display of the boundary survey data. Records herein do not reflect title changes which may have been affected by lateral movements of rivers or other bodies of water. Refer to the cadastral surveys for official survey information.



1 inch = 30 chains
1 : 23,760

Inactive Well List

Total Well Count: 186 Inactive Well Count: 2

Printed On: Tuesday, August 14 2018

District	API	Well	ULSTR	OCD Unit	Ogrid	Operator	Lease Type	Well Type	Last Production	Formation/Notes	Status	TA Exp Date
1	30-025-30888	FRENCH 9004 JV-P #001	P-24-18S-32E	P	260297	BTA OIL PRODUCERS, LLC	P	O	09/2016			
1	30-025-40315	GEM 8705 JV-P #010	4-02-20S-33E	D	260297	BTA OIL PRODUCERS, LLC	S	O	11/2014	BONE SPRING		

WHERE Operator:260297, County:All, District:All, Township:All, Range:All, Section:All, Production(months):15, Excludes Wells Under ACOI, Excludes Wells in Approved TA Period