

September 21, 2018

Florene Davidson NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505 Jennifer L. Bradfute 505.848.1845 Fax: 505.848.1882 jlb@modrall.com

Re:

APPLICATION OF NGL WATER SOLUTIONS PERMIAN, LLC TO APPROVE SALT WATER DISPOSAL WELLS IN LEA AND EDDY COUNTY, NEW MEXICO.

Dear Ms. Davidson:

Enclosed please find three copies of the following:

1. NGL Water Solutions Permian, LLC's Amended Application – Sidewinder No. 16443.

Thank you for your assistance. Please contact me if you have any questions.

Sincerely,

Legal Assistant to Jennifer L. Bradfute

JLB/zc Enclosure

> Modrall Sperling Roehl Harris & Sisk P.A.

Bank of America Centre 500 Fourth Street NW Suite 1000 Albuquerque, New Mexico 87102

PO Box 2168 Albuquerque, New Mexico 87103-2168

Tel- 505 9/9 1900



September 18, 2018

LAWYERS

<u>VIA CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Re: AMENDED APPLICATION OF NGL WATER SOLUTIONS PERMIAN, LLC FOR APPROVAL OF SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO

CAE NO. 16443

TO: AFFECTED PERSONS

This letter is to advise you that NGL Water Solutions Permian, LLC ("NGL") has filed the enclosed application, which seeks an order approving disposal into the Devonian and Silurian formations through the **Sidewinder SWD #1** well. NGL proposes to drill this well at a surface location 244 feet from the South line and 1581 feet from East line of Section 10, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico. The target injection interval is the Devonian and Silurian formations at a depth of 17,157' – 19,067'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Attached to the application is an amended C-108 for the well.

This case is currently set for a hearing before a Division Examiner on October 4, 2018, starting at 8:15 a.m. The hearing will be held in Porter Hall in the Oil Conservation Division's Santa Fe Office located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. As a pooled party who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in the case, including the right to present evidence either in support of or in opposition to the application. Failure to appear at the hearing may preclude you from any involvement in the case at a later date.

You are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division at least four business days in advance of a scheduled hearing before the Division or the Commission, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date, with a copy delivered to the undersigned.

Deana M. Bennett

Deana.bennett@modrall.com

505-848-1834

Modrall Sperling Roehl Harris & Sisk P.A.

500 Fourth Street NW Suite 1000 Albuquerque, New Mexico 87102

PO Box 2168 Albuquerque, New Mexico 87103-2168

Tel: 505.848.1800 www.modrall.com

Sincerely,

Jennifer L. Bradfute, and

Deana M. Bennett

Attorneys for Applicant

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

AMENDED APPLICATION OF NGL WATER SOLUTIONS PERMIAN, LLC TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE NO. 16443

AMENDED APPLICATION

NGL Water Solutions Permian, LLC ("NGL"), OGRID No. 372338, through its undersigned attorneys, hereby makes this application to the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-12, for an order approving drilling of a salt water disposal well in Lea County, New Mexico. In support of this application, NGL states as follows:

- (1) NGL proposes to drill the Sidewinder SWD #1 well at a surface location 244 feet from the South line and 1581 feet from East line of Section 10, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.
- (2) NGL seeks authority to inject salt water into the Devonian and Silurian formations at a depth of 17,157' 19,067'.
- (3) NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day.
- (4) NGL anticipates using an average pressure of 2,573 psi for this well, and it requests that a maximum pressure of 3,431 psi be approved for the well.
 - (5) A C-108 for the subject well is attached hereto in Attachment A.

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

WHEREFORE, NGL requests that this application be set for hearing before an Examiner of the Oil Conservation Division on October 4, 2018; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

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

By: .

Jennifer Bradfu

Deana Bennett

Post Office Box 2168

Bank of America Centre

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800 Attorneys for Applicant CASE NO. 16443: Amended Application of NGL Water Solutions Permian, LLC for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving disposal into the Devonian and Silurian formations through the Sidewinder SWD #1 well. NGL proposes to drill this well at a surface location 244 feet from the South line and 1581 feet from East line of Section 10, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico. The target injection interval is the Devonian and Silurian formations at a depth of 17,157' – 19,067'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 22 miles west of Jal, New Mexico.

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.

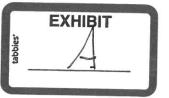
ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -



		1220 South St. Francis Drive, S		
		ADMINISTRATIVE AP	PLICATION CHECKLIS	T
1	THIS CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPL	ICATIONS FOR EXCEPTIONS TO DIVISION RATTHE DIVISION LEVEL IN SANTA FE	ULES AND REGULATIONS
Appl	[DHC-Dow	ns: andard Location] [NSP-Non-Standar vnhole Commingling] [CTB-Lease	rd Proration Unit] [SD-Simultaneou Commingling] [PLC-Pool/Lease (Commingling]
	3 - 2 50 50 5	[WFX-Waterflood Expansion] [PM	[PI-Injection Pressure Increase]	on]
[1]		PPLICATION - Check Those Which		m Response]
[1]	[A]	Location - Spacing Unit - Simultan		
	Check [B]	k One Only for [B] or [C] Commingling - Storage - Measure DHC CTB PLC		
	[C]	Injection - Disposal - Pressure Inco	rease - Enhanced Oil Recovery D	
	[D]	Other: Specify		
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Tho Working, Royalty or Overridi	se Which Apply, or Does Not Apply Royalty Interest Owners	ply
	[B]	Offset Operators, Leaseholder	rs or Surface Owner	
	[C]	Application is One Which Red	quires Published Legal Notice	
	[D]	Notification and/or Concurren	at Approval by BLM or SLO oner of Public Lands, State Land Office	
	[E]	For all of the above, Proof of	Notification or Publication is Attach	ed, and/or,
	[F]	☐ Waivers are Attached		
[3]		CURATE AND COMPLETE INFOATION INDICATED ABOVE.	ORMATION REQUIRED TO PRO	OCESS THE TYPE
4] approapplic	val is accurate a	TION: I hereby certify that the informal complete to the best of my knowledgized information and notifications	edge. I also understand that no action	on for administrative on will be taken on this
	Note:	Statement must be completed by an indivi	dual with managerial and/or supervisory c	apacity.
	Weyand	6'	Consulting Engineer	
rrint c	or Type Name	Signature EXHIBIT	Title chris@lonquist.com e-mail Address	Date



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

1.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC
	ADDRESS: 1509 W WALL ST // STE 306 // MIDLAND, TX 79701
	CONTACT PARTY: SARAH JORDAN PHONE: (432) 685-0005 x1989
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Christopher B. Weyand 1 TITLE: Consulting Engineer
	SIGNATURE: DATE: 8 21 2018
*	E-MAIL ADDRESS: chris@lonquist.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.

OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC

WELL NAME & NUMBER: SIDEWINDER SWD #1

10 25S 34E SECTION TOWNSHIP RANGE	WELL CONSTRUCTION DATA Surface Casing	Casing Size: <u>20.000"</u>	or	Method Determined: Circulation	1st Intermediate Casing	Casing Size: <u>13.375"</u>	or	Method Determined: Circulation	2 nd Intermediate Casing	
O 10 UNIT LETTER SECT	1	Hole Size: <u>24.000"</u>	Cemented with: 1,218 sx.	Top of Cement: Surface	181	Hole Size: 17.500"	Cemented with: 2,600 sx.	Top of Cement: Surface	2 nd	
WELL LOCATION: 244' FSL & 1.581' FEL FOOTAGE LOCATION UP	WELLBORE SCHEMATIC									

 $\mathfrak{f}\mathfrak{t}^{\mathfrak{z}}$

or

Cemented with: 2,801 sx.

Hole Size: 12.250"

Top of Cement: Surface

Casing Size: 9.625"

Method Determined: Circulation

Production Liner

Hole Size: 8.500"

Casing Size: 7.625"

Cemented with: 364 sx.

or

Method Determined: Calculation

Top of Cement: 11,900'

Total Depth: 19,067

Injection Interval

17,157 feet to 19,067 feet

(Open Hole)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 7", 26 lb/ft, P-110, TCPC from 0'-11,800' and 5.500", 17 lb/ft, P-110 TCPC from 11,800'-17,107' Lining Material: Duoline

Type of Packer: 7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel

Packer Setting Depth: 17,107'

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? N/A
- Name of the Injection Formation: Devonian, Silurian, Fusselman and Montoya (Top 100') 7
- 3. Name of Field or Pool (if applicable): SWD; Silurian-Devonian
- intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No, new drill. Has the well ever been perforated in any other zone(s)? List all such perforated
- Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: 5

Delaware: 5,295'

Bone Spring: 9,242' Wolfcamp: 12,288'

Atoka: 14,017'

Morrow: 14,974'

Partners LP
Suergy

Energy Partners LP								
	Vertical Injection - Devonian, Silurian, Fusselman	Est. Drilling Days - 70			GL/KB - 3593'/3617'	23.2 .	23.2 miles west of Jal NM on Hwy 128	128
Geologic Tops (MD ft)	Section	Problems	Віт/ВНА	Mud	Casing	Logging	Cement (HOLD)	Injection String
Triassic - 193	Surface Drill 24"	Loss Circulation Hole Cleaning	24" Tricone 9-5/8" x 8" MM	District Mind	920' of 20" 106.5# J55 BTC		Thixotropic Cement 13.2 ppg	
Rustler Anhydrite - 848	0' - 920' Set and Cement	Wellbore stability in the Red Beds	9 jts: 8" DC 21 jts: 5" HWDP	MW< 9.0	joints and every 3rd jt thereafter, Cement basket	No Logs	Class C 3hr TT	
Surface TD - 900	20" Casing	Anhydrite in the Rustler	5 " DP to surface		5th jt from surface		1000psi CSD after 10hrs	
Top Salt - 973	1st Intermediate	Seepage Losses			5M A Section Casing Bowl 5200' of 13-3/8" 68# HCL80		13.2 nng	
base of Silicates 1,313'	Drill 4300' of	Possible H2S	17-1/2" PDC 9-5/8" x 8" MM		ВТС		Class C	
Castile - 2816 Base Salt - 5023	17-1/2" Hole 900' - 5200'		9 jts: 8" DC		Centralizers - hottom it	Mudlogger on	4hr TT	
ECP DV Tool - 5150	Set and Cement 13-3/8" Casing	Anhydrite	21 jts: 5" HWDP 5 " DP to surface		every 3rd joint in open	215 by 1230	1000psi CSD after 10 hrs	11800' of 7"
1st Int TD - 5200	9	Salt Sections			surface casing		Cement to Surface	r110 20# ICPC
Delaware Mtn Group - 5295		Hard Drilling in the		8.5 ppg OBM	10M B Sortion			
Lamar Limestone - 5298		Brushy Canyon			124000' of 9-5/8" 53 5#		13.2 ppg Class C Shr II	5307' of 5-1/2"
Bell Canyon - 5334	2nd Intermediate			High Vis Sweeps	P110 BTC		1000psi CSD after 10 hrs	P110 1/# TCPC
Cherry Canyon - 6367	Drill 7200' of	Seepage to Complete	12-1/4" PDC	Odky Odil	Special Drift to 8.535"		Cement to Surface	Duoline
Brushy Canyon - 8102	12-1/4" Hole	Loss Water Flows	8" MM	usig ADA	Externally Coat 4000'	MWD GR		Internally
DV Tool - 9000	5200' - 12400' Set 9-5/8"	Some Anhydrite	9jts: 8" DC		DV tool at at 9000'	Triple combo +	13.2 ppg Class H ShrTT 10% XS	Coated
Bone Spring - 9242	Intermediate Casing	H2S possible Production in the Bone	21 jts: 5" HWDP		ECP DV Tool 15' Inside	CBL of 13-3/8" Casing	1000psi CSD after 10 hrs	Tubing
	and Cement in 3	Spring and Wolfcamp	5" DP to Surface		Centralizers - bottom jt,		Stage 1:	
3rd Int Liner Top - 11,900		Ballooning is possible in			100' aside of DV tool, every		13.2 ppg Class H 6hrTT	
Wolfcamp - 12288		Brushy if Broken Down			3rd joint in open hole and 5		10% XS	
2nd Int TD - 12,400							Cement to Surface	
Penn - 13292		High Pressure (up to						
Strawn - 13820	3rd Intermediate	15ppg) and wellbore			5257' of 7-5/8" 39#			
Atoka - 14017	Drill 4757' of	instability (fracturing)	8-1/2" PDC	12.5 ppg OBM	Q125 - DIL (FJ4) FJ (Gas Tight)		15.6 ppg	
Morrow - 14974	8-1/2" Hole	expected in the Atoka	6-3/4" MM	0	VersaFlex Packer Hanger	MWD GR Triple	Class H	
Miss Lst - 15022	12400' - 17157'	Wolfcamp	21 its: 5" HWDP	UBD/MPD using		combo, CBL of 9-	8hr ∏	7-5/8" x 5-1/2"
Woodford - 16980	Set /-5/8" Liner and	Atoka and Morrow	5" DP to Surface	ADA	Centralizers on and 1 jt	J Cashills	1000bsi CSD after 10hrs	TCPC
Perm Packer - 17107	רבווובוור ווו אוווצוב אושצב	Hard Drilling in the			above shoe jt and then			Packer with
3rd Int TD - 17,157		Morrow Clastic			every zilu jt.			High Temp
Devonian - 17,157		Chert is possible						Elastomer and
Silurian - 18116		loss of Circulation is	6-1/2" PDC			MWD GR		full Inconel 925
	Injection Interval Drill 191' of 6-1/2" hole	expected	4-3/4"MM	Crock Mator				Trim
Fusselman - 18217	16,157 to 19,067'	H2S encountered on the	4-3/4" Drilling Jars	possible flows	Openhole completion	Triple Combo	Displace with 3% KCI (or heavier brine if necessary)	
Montoya - 18,967'		Striker 3 well	4" FH DP to Surface			with FMI, CBL of		

NGL Water Solutions Permian, LLC

Sidewinder SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well i	Well information				
Lease Name	Sidewinder SWD				
Well No.	1				
Location	S-10 T-25S R-34E				
Footage Location	244' FSL & 1,581' FEL				

2.

a. Wellbore Description

	Casing Information				
Туре	Surface	Intermediate	Production	Liner	
OD	20"	13.375"	9.625"	7.625"	
WT	0.500"	0.480"	0.545"	0.500"	
ID	19.000"	12.415"	8.535"	6.625"	
Drift ID	18.812"	12.259"	8.535"	6.500"	
COD	21.00"	14.375"	10.625"	7.625"	
Weight	106.5 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft	
Grade	J-55	HCL-80	P-110	Q-125	
Hole Size	24"	17.5"	12.25"	8.5"	
Depth Set	920'	5,200′	12,400'	17,157'	

b. Cementing Program

		Cement Infor	mation	
Casing String	Surface	Intermediate	Production	Liner
Lead Cement	С	С	H,H,C	Н
Lead Cement Volume	416	1,274	Stage 1: 443 sks Stage 2: 521 sks Stage 3: 709 sks	188
Tail Cement	С	С	H,H,C	Н
Tail Cement Volume	803	1,327	Stage 1: 414 sks Stage 2: 443 sks Stage 3: 272 sks	176
Cement Excess	25%	10%	10%	10%
тос	Surface	Surface	Surface	11,900'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

	Tubing Information					
OD	7"	5.5"				
WT	0.362"	0.304"				
ID	6.276"	4.892"				
Drift ID	6.151"	4.767"				
COD	7.875"	6.050"				
Weight	26 lb/ft	17 lb/ft				
Grade	P-110 TCPC	P-110 TCPC				
Depth Set	0'-11,800'	11,800'-17,107'				

Tubing will be lined with Duoline.

4. Packer Description

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

B. Completion Information

- 1. Injection Formation: Devonian, Silurian, Fusselman, Montoya (Top 100')
- 2. Gross Injection Interval: 17,157' 19,067'

Completion Type: Open Hole

- 3. Drilled for injection.
- 4. See the attached wellbore schematic.
- 5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Delaware	5,295'
Bone Spring	9,242'
Wolfcamp	12,288'
Atoka	14,017
Morrow	14,974'

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

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

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

Average Injection Pressure: 2,574 PSI (surface pressure)
Maximum Injection Pressure: 3,431 PSI (surface pressure)

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

VIII. Geological Data

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

A. Injection Zone: Siluro-Devonian Formation

Formation	Depth	
Rustler	848′	
Salado	1,313′	
Delaware	5,295'	
Bone Spring	9,242'	
Wolfcamp	12,288′	
Penn	13,292'	
Atoka	14,017′	
Morrow	14,974′	
Mississippian Lime	16,657'	
Woodford	16,980′	
Devonian	17,157'	

B. Underground Sources of Drinking Water

Within 1-mile of the proposed Sidewinder SWD #1 location, there are two water wells with depths of 175 ft and a water depth of 135 ft. Water wells in the surrounding area have an average depth of 332 ft and an average water depth of 224 ft generally producing from the Santa Rosa. The upper Rustler may also be another USDW and will be protected.

IX. Proposed Stimulation Program

Stimulate with up to 50,000 gallons of acid.

X. Logging and Test Data on the Well

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

XI. Chemical Analysis of Fresh Water Wells

There are two water wells that exists within one mile of the well location. A map and Water Right Summary from the New Mexico Office of the State Engineer for water wells C-02314 and C-02315 are attached. Analysis of the water samples is in process and will be provided as soon as it is available.

XII. Affirmative Statement of Examination of Geologic and Engineering Data

Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone (in the proposed <u>Sidewinder SWD #1</u>) and any underground sources of drinking water.

NAME: John C. Webb

TITLE: Sr. Geologist

SIGNATURE: John Circle

DATE: 8/22/298

<u>District I</u> 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 State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

		Operator Name a NGL WATER SOLUTION 1509 W WALL ST MIDLAND, TX	IS PERMIAN, LLC Γ, STE 306				² OGRID Number 372338 ³ API Number TBD	er				
4. Proper	ty Code		3. Propert SIDEWINI	y Name			327 (237 (237 (237 (237 (237 (237 (237 (ell No.				
			7. Surface					1				
UL - Lot	Section Tox	wnship Range			I/S Line	Feet From	E/W Line	County				
0	10	25S 34E	N/A 2	.44' S	OUTH	1,581'	EAST	LEA				
			* Proposed Bott	om Hole Loc	ation							
UL - Lot	Section Tov	vnship Range	Lot Idn Fee	t from N	I/S Line -	Feet From	E/W Line	County -				
W. W. W. W. W.			9. Pool Info	ormation								
			Pool Name					Pool Code				
	*****		SWD; Silurian-Devon	ian	40			96101				
11. Work	T	12. Well Type	Additional Wel				16					
N	Type	SWD		e/Rotary R		Lease Type Private	13. Grou	nd Level Elevation 3,330'				
16. Mul	tiple	17. Proposed Depth		mation	1	9 Contractor	2	0. Spud Date				
N Depth to	Ground water	19,067'	Distance from nearest fr	esh water well		TBD	stance to necessary and	ASAP				
Берине	135'		2,303'	esti water well		Dis	stance to nearest surfa > 1 mile	ice water				
T	I Hala Sina		Proposed Casing an					9				
Type Surface	Hole Size	Casing Size	Casing Weight/ft 106.5 lb/ft		g Depth 20'	Sacks of C		Estimated TOC Surface				
Intermediate	17.5"	13.375"	68 lb/ft		200'	2,154		Surface				
Production	12.25"	9.625"	53.5 lb/ft		400'	2,789		Surface				
Prod. Liner	8.5"	7.625"	39 lb/ft	17,	.157'	335		11,900				
Tubing	N/A	7"	26 lb/ft	0'-1	1,800'	N/A		N/A				
Tubing	N/A	5.5"	17 lb/ft	11,800'	- 17,107	N/A		N/A				
		Casing	/Cement Program	Additional C	Comments		-					
ee attached schen	natic.				- Mindelete							
		22. P	ogram									
	Type	w	orking Pressure	Test Press	ure	Manufacturer						
Double H	ydrualic/Blinds, Pi	pe	10,000 psi	8,000 psi		TBD – Sc	haffer/Cameron					
			00									
3. I hereby certi f my knowledg		mation given above is true	OIL (CONSERVATION DIVISION								
		omplied with 19.15.14.9 (applicable.	y:									
9.15.14.9 (B) I												
9.15.14.9 (B) I ignature:	hristopher B. W	/eyand		T								
9.15.14.9 (B) I ignature:	•	eyand/eyand/	25	d name: Christopher B. Weyand Title: Consulting Engineer Approved Date:								
9.15.14.9 (B) I ignature: rinted name: C itle: Consulting	•				ate:	Ex	piration Date:					

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District III
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

⁴ Property Code

OGRID No.

¹ API Number

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

⁶ Well Number

1

⁹ Elevation

3 Pool Name

SWD; Silurian-Devonian

WELL LOCATION AND ACREAGE DEDI	CATION PLA	T
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⁵ Property Name

8 Operator Name

SIDEWINDER SWD

² Pool Code

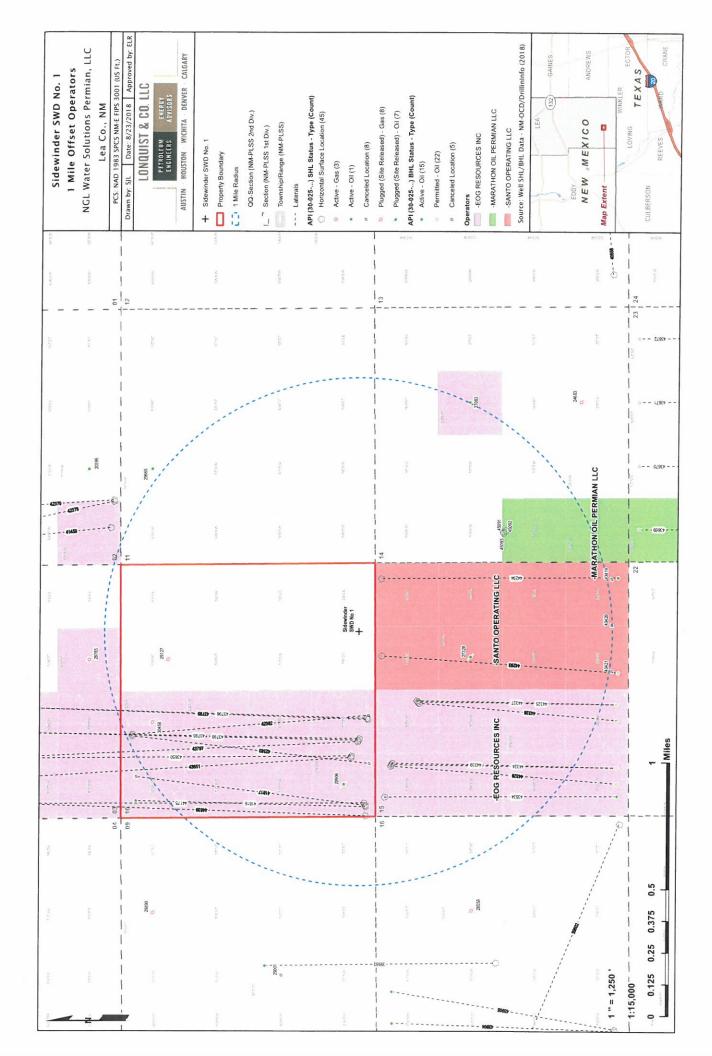
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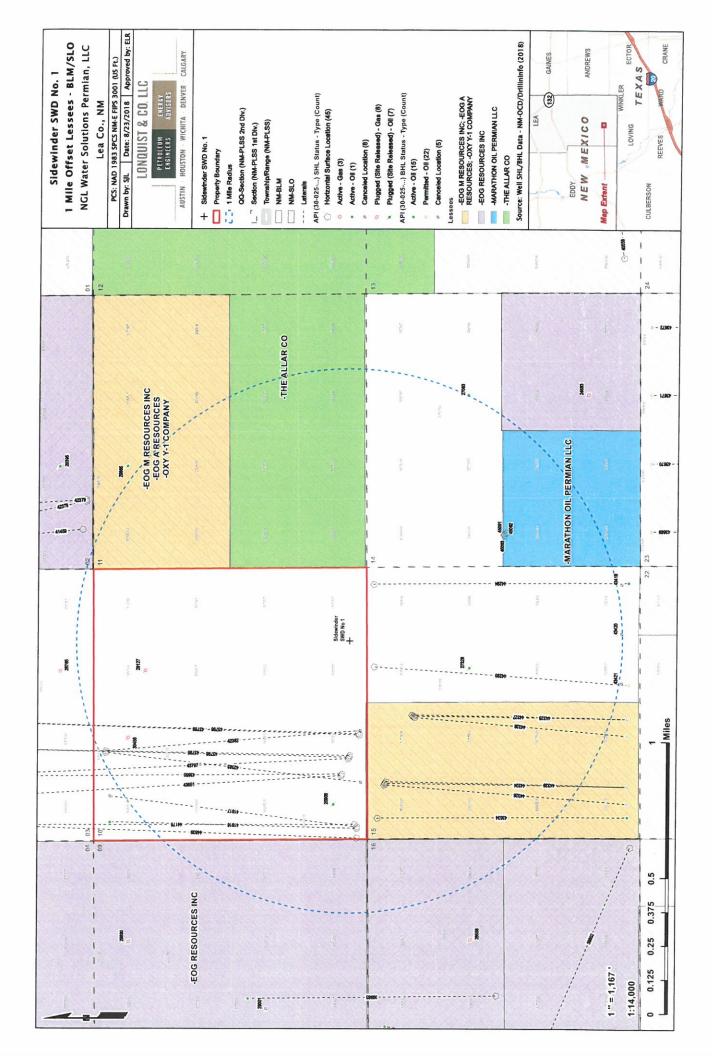
8			NGL V	NATER SOLUTION	VS PERMIAN, LLC		3	3330.00"±
12				¹⁰ Surface I	Location		-	
Section 10	Township 25 S	Range 34 E	Lot Idn N/A	Feet from the 244'	North/South line SOUTH	Feet from the 1581'	East/West line EAST	County LEA
		" Bot	tom Ho	le Location If	f Different From	Surface		
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
es 13 Joint o	r Infill 14 Co	onsolidation Co	ode 15 Or	der No.				
will be ass	signed to thi	s completic	n until al	l interests have b	peen consolidated o	r a non-standard	unit has been app	proved by the
	_					I hereby certify the the best of my kno working interest of proposed bottom, pursuant to a con- or to a voluntary p	hat the information contained owledge and belief, and that th or unleased mineral interest in whole location or has a right to intract with an owner of such a pooling agreement or a compl	I herein is true and complete to his organization either owns a in the land including the o drill this well at this location a mineral or working interest,
	NMSP-E (NA N: 415,227.: E: 772,349.: NMSP-E (NA N: 415,285.: E: 813,535. Lat: N32*08'	IAD27) .32' .70' IAD83) .40' .80' 3'19.12"	-244'		1581'	I hereby certify plotted from fix under my supe to the best of m 08/20 Date of Survey Signature of 18	fy that the well location so ield notes of actual surversion, and that the same belief. 0/2018 Company belief. 0/2018	shown on this plat was veys made by me or
s	Section 10 Section 13 Joint of	Section Township 25 S Section Township 13 Joint or Infill PROPOSED—SIDEWINDER NMSP—E (N. N: 415,227. E: 772,349.) NMSP—E (N. N: 415,285. E: 813,535.8. Lot: N32'08	Section Township 25 S 34 E 11 Bot Section Township Range 13 Joint or Infill 14 Consolidation Convill be assigned to this completion 10	Section 10 25 S 34 E N/A Bottom Ho Section Township Range Lot Idn Will be assigned to this completion until all idn PROPOSED—SIDEWINDER SWD 1 NMSP—E (NAD27) N: 415,227.32' E: 772,349.70' NMSP—E (NAD83) N: 415,285.40' E: 813,535.80' Lot: N32'08'19.12" Long: W103'27'14.15"	Section Township 25 S 34 E N/A 244' 11 Bottom Hole Location If Section Township Range Lot Idn Feet from the Location If Section Township Range Lot Idn Feet from the Location If Section Township Range Lot Idn Feet from the Location If Section Township Range Lot Idn Feet from the Location Idn Idn Interests have Idn Idn Idn Interests have Idn Idn Idn Idn Interests have Idn	SECTION 10 PROPOSED—SIDEWINDER SWD 1 NMSP-E (NAD27) N: 415,227.32' E: 772,349.70' Long: W103'27'14.15' Section Township Range Lot Idn Feet from the SOUTH PROPOSED—SIDEWINDER SWD 1 NMSP-E (NAD83) N: 415,285.40' E: 813,535.80' Lot: N32'08'19.12' Long: W103'27'14.15'	Section Township 25 8 34 E N/A Feet from the 244' SOUTH 1581' 1 BOttom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the SOUTH 1581' 1 Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the North/South l	"Surface Location Section Township Range Lot Idn Feet from the 244" SOUTH 1581' EAST "Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line "Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line "OPERATOR CERT Inheritation contained the head of the information contained the hea

Sidewinder SWD No. 1	2-Mile Area of Review	NGL Water Solutions Permian, LLC	Lea Co., NM	-	Drawn by: SJL Date: 8/23/2018 Approved by: ELR	LONQUIST & CO. LLC	PETROLEUM EMERGY ENGINEERS ADVISORS	3		+ Sidewinder SWD No. 1	Property Boundary	1/2 Mile Radius	L_1 1 Mile Radius	L _ 2 Mile Radius	QQ-Section (NM-PLSS 2nd Div.)	1_ Section (NM-PLSS 1st Div.)	Township/Range (NM-PLSS)	Laterals	API (30-025) SHL Status - Type (Count)	○ Horizontal Surface Location (45)	o Active - Gas (3)	• Active - Oil (1)	ο Canceled Location (8)	Ringged (Site Released) - Gas (8)	Plugged (Site Released) - Oil (7)	API (30-025) BHL Status - Type (Count)	Active - Oil (15)	Permitted - Oil (25)	v Canceled Location (5)	Source: Well SHL Data - NM-OCD (2018)	LEA (132) GAINES.	EDDY.	NEW MEXICO ANDREWS	Map Extent	LOVING WINKLER ECTOR.	CULBERSON	REEVES WARD CRANE
SWSE	1				2		Linds		SWSE		MACIE				45/4/4		Nest		AWARE		2000		N7858		45 V 6		- Alkan				4590		SWAC			SWNE	1,197,7
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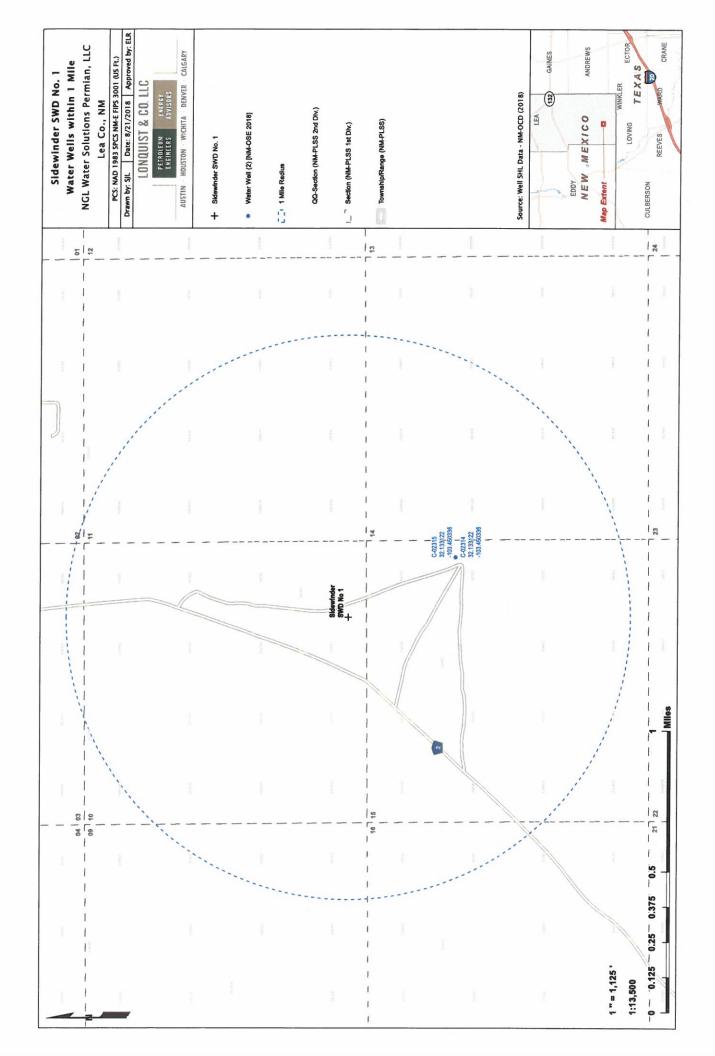
Sidewinder SWD No. 1 1 Mile Area of Review List

API (30-025)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	DATE DRILLED
20906	PRE-ONGARD WELL #001	0	d	PRE-ONGARD WELL OPERATOR	5481	32.13954160000	-103 46416470000	1/1/1900
27328	PRE-ONGARD WELL #001	0	۵	PRE-ONGARD WELL OPERATOR	400	32.13226700000	-103 45565800000	1/1/1900
29127	PRE-ONGARD WELL #001	9	۵	PRE-ONGARD WELL OPERATOR	15440	32 14951320000	-103 45567320000	1/1/1000
30458	PITCHFORK 10 #001	9	а	BURLINGTON RESOURCES OIL & GAS CO	15027	32.15042880000	-103 45988460000	10/9/1988
41816	OSPREY 10 #601H	0	A	EOG RESOURCES INC	12092	32.13833620000	-103 46568300000	11/16/2014
41817	OSPREY 10 #002C	0	S	EOG RESOURCES INC	0	32.13833620000	-103,46558380000	12/31/9999
42382	OSPREY 10 #702C	0	С	EOG RESOURCES INC	0	32.15163105500	-103.46071659000	12/31/9999
42383	OSPREY 10 #701C	0	C	EOG RESOURCES INC	0	32.15163123700	-103.46081399000	12/31/9999
43420	OCOTILLO SUNRISE 15 #002C	0	U	SANTO OPERATING LLC	0	32.12416850000	-103.45355640000	12/31/9999
43534	PISTOLERO 15 FEDERAL #701H	0	A	EOG RESOURCES INC	12612	32.13723070000	-103.46504520000	4/28/2017
43650	OSPREY 10 #602H	0	A	EOG RESOURCES INC	12027	32.13910780000	-103.46226830000	4/7/2017
43651	OSPREY 10 #701H	0	A	EOG RESOURCES INC	12405	32.13915390000	-103.46236750000	4/6/2017
43795	OSPREY 10 #603H	0	z	EOG RESOURCES INC	0	32.13867580000	-103.46110560000	12/31/9999
43796	OSPREY 10 #604H	0	Z	EOG RESOURCES INC	0	32.13823000000	-103.45974210000	12/31/9999
43797	OSPREY 10 #702H	0	Z	EOG RESOURCES INC	0	32.13876800000	-103.46130410000	12/31/9999
43798	OSPREY 10 #703H	0	Z	EOG RESOURCES INC	0	32.13872190000	-103.46120480000	12/31/9999
43799	OSPREY 10 #704H	0	z	EOG RESOURCES INC	0	32.13815870000	-103.45981800000	12/31/9999
44175	OSPREY 10 #705H	0	A	EOG RESOURCES INC	12837	32.13844170000	-103.46543340000	11/30/2017
44293	OCOTILLO SUNRISE 15 WA BO FEE #001H	0	Z	SANTO OPERATING LLC	0	32.13735900000	-103.45555400000	12/31/9999
44294	OCOTILLO SUNRISE 15 WA AP FEE #002H	0	А	SANTO OPERATING LLC	12571	32.13735300000	-103.45036900000	3/23/2018
44324	PISTOLERO 15 FEDERAL COM #601H	0	Z	EOG RESOURCES INC	0	32.13682170000	-103.46286980000	12/31/9999
44325	PISTOLERO 15 FEDERAL COM #603H	0	z	EOG RESOURCES INC	0	32.13529450000	-103.45866980000	12/31/9999
44326	PISTOLERO 15 FEDERAL COM #702H	0	Z	EOG RESOURCES INC	0	32.13686600000	-103.46297010000	12/31/9999
44327	PISTOLERO 15 FEDERAL COM #707H	0	Z	EOG RESOURCES INC	0	32.13536410000	-103.45859190000	12/31/9999
44328	PISTOLERO 15 FEDERAL COM #706H	0	z	EOG RESOURCES INC	0	32.13522480000	-103.45874780000	12/31/9999
44339	PISTOLERO 15 FEDERAL COM #703H	0	z	EOG RESOURCES INC	0	32.13677730000	-103.46276940000	12/31/9999
44839	OSPREY 10 #301H	0	z	EOG RESOURCES INC	С	32 13835130000	103 46628760000	6/26/2010





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COTTON DRAW 33 4 FEDERAL COM #001H	3002541263	33	33 245	32E	Lea	MM	DELAWARE-BRUSHY CANYON	10/8/2015	9.9	253483	72811.5	15695.3	47.4	2581.4	159	159430.7	4018	8
COTTON DRAW 33 4 FEDERAL COM #002H	3002541264	33	33 245	32E	rea	MN	DELAWARE-BRUSHY CANYON	10/8/2015	9.9	249333	71579.8	16716	38.7	2758.3	155	155226.8	405	300
COTTON DRAW UNIT #114	3001537410	34	34 245	31E	EDDY	MN	DELAWARE-BRUSHY CANYON	3/11/2015	9	268137.4	79525.2	19507.6	122.9	3261.8	4.54 161		861	
COTTON DRAW UNIT #115H	3001537898	34	34 245	31E	EDDY	Σ.	AVALON LOWER	1/23/2014	6.2 2	247257.5	65970	15480	31	2650			122	250
COTTON DRAW UNIT #117H	3001538434	34	34 245	31E	EDDY	M	BONE SPRING 2ND SAND	11/15/2014	6.5	172327.9	49944.5	10509.8	72.9	1477.8	2 29 108		133	150
COTTON DRAW UNIT #122H	3001538453	35	35 245	31E	EDDY	M	BONE SPRING 2ND SAND	6/30/2014	6.3	158456.6	51198.9	8177.8	28.5	1001			133	
COTTON DRAW UNIT #150H	3001538536	34	34 245	31E	EDDY	WN	DELAWARE-BRUSHY CANYON	1/23/2014	6.2 2	246404.5	64243	14216	8	2449			133	200
COTTON DRAW UNIT #152H	3001538609	35	35 245	31E	EDDY	Z	DELAWARE-BRUSHY CANYON	2/25/2015	6	258919 1	760407	19075.4	87.8	3087 5	1		133	
COTTON DRAW UNIT #155H	3001538607	35	35 245	315	FDDV	MM	DEI AWADE ODI ICUY CANYON	3/35/3045	1	0.000	1	1	20.00	2000	4.30 I.3.		777	350
	1000000	3		1	100	IAIN	DELAWARE-BRUSHI CANTON	5/52/5015	0	250/34.8	/3645	16/81	50.9	2758	3.27 154	154666.1	122	0 250
COLION DRAW UNIT #156H	3001538557	35	35 245	31E	EDDY	ΣN	DELAWARE-BRUSHY CANYON	1/23/2014	6.4	235618.5	66963	13881	34	2456	2.5	149500	122	300
COTTON DRAW UNIT #211H	3001541941	34	34 245	31E	EDDY	MN	BONE SPRING 2ND SAND	1/27/2015	6.4	155270.6	50208.1	8326.3	38.3	1039.4	1.07	93359.6	122	200
COTTON DRAW UNIT #213H	3001541869	35	35 245	31E	EDDY	MN	BONE SPRING 2ND SAND	10/6/2014	6 1	150530.4	45890.2	7802.5	62.3	982.6			244	250
SNAPPING 2 STATE #014H	3001542688	2	265	31E	EDDY	WW	WOLFCAMP	10/7/2015	7.3	81366.4	26319.4	2687.4	26.1	326.7			300 7	





New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Q64 Q16 Q4 Sec Tws Rng

25S

X

3556243*

Driller License:

Driller Company:

Driller Name:

Well Tag

UNKNOWN

POD Number

C 02314

Drill Start Date:

01/01/1918

Drill Finish Date:

Depth Well:

12/31/1917

34E

Plug Date:

Log File Date:

PCW Rcv Date:

646170

Source:

Pump Type:

Pipe Discharge Size:

175 feet

40 GPM

Casing Size:

8.63

Depth Water:

Estimated Yield:

135 feet

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.

8/21/18 7:38 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

646170

3556243*

Driller License:

Driller Company:

Driller Name:

UNKNOWN

Drill Start Date:

01/01/1918

Drill Finish Date:

12/31/1917

34E

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

40 GPM

Casing Size:

8.63

C 02315

Depth Well:

175 feet

Depth Water:

135 feet

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8/21/18 7:38 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help