

ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

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

Check One Only for [B] or [C]

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

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

- [D] Other Specify _____

SWD
 - Alpha SWD operating, see
 372180
 W-41
 - Alpha SWD #1
 30-015-44237
 Pool
 - SWD
 Devonian -
 Silurian
 97865

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

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

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

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

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

Chris Weyand
 Print or Type Name

Chris Weyand
 Signature

Consulting Engineer
 Title

6/6/2017
 Date

chris@lonquist.com
 e-mail Address

LONQUIST & CO. LLC

PETROLEUM
ENGINEERS

ENERGY
ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

June 6, 2017

New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division District IV
1220 South St Francis Drive
Santa Fe, New Mexico 87505
(505) 476-3440

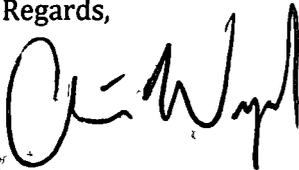
RE: ALPHA SWD NO. 1 AUTHORIZATION TO INJECT

To Whom It May Concern:

Attached for your review is Form C-108, Application for Authorization to Inject, and its supplemental documents prepared for Alpha SWD Operating LLC's Alpha SWD No. 1. In addition, Forms C-101 and C-102 have also been included with this package. Notices have been sent to offset leaseholders and the surface owner. Proof of notice will be sent to the OCD upon receipt.

Any questions should be directed towards Alpha SWD Operating LLC's agent Lonquist & Co., LLC.

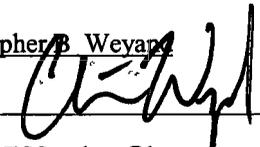
Regards,



Christopher B. Weyand
Staff Engineer
Lonquist & Co, LLC

(512) 600-1764
chris@lonquist.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I PURPOSE _____ Secondary Recovery _____ Pressure Maintenance Disposal _____ Storage _____
Application qualifies for administrative approval? Yes _____ No
- II OPERATOR ALPHA SWD OPERATING LLC
ADDRESS 4436 STERLING LN // PLANO, TX 75093
CONTACT PARTY KURT KNEWITZ PHONE (214) 418-1177
- III WELL DATA Complete the data required on the reverse side of this form for each well proposed for injection
Additional sheets may be attached if necessary
- IV Is this an expansion of an existing project? _____ Yes No
If yes, give the Division order number authorizing the project _____
- V Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well This circle identifies the well's area of review
- VI Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone
Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail
- VII Attach data on the proposed operation, including
- 1 Proposed average and maximum daily rate and volume of fluids to be injected,
 - 2 Whether the system is open or closed,
 - 3 Proposed average and maximum injection pressure,
 - 4 Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water, and,
 - 5 If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc)
- *VIII Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval
- IX Describe the proposed stimulation program, if any
- *X Attach appropriate logging and test data on the well (If well logs have been filed with the Division, they need not be resubmitted)
- *XI Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken
- XII Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water
- XIII Applicants must complete the "Proof of Notice" section on the reverse side of this form
- XIV Certification I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief
- NAME Christopher B Weyant TITLE Consulting Engineer
SIGNATURE  DATE 6/6/2017
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.

INJECTION WELL DATA SHEET

OPERATOR: ALPHA SWD OPERATING LLCWELL NAME & NUMBER: ALPHA SWD #1WELL LOCATION: 1,457' FSL & 2,093' FEL
FOOTAGE LOCATIONJ
UNIT LETTER10
SECTION24S
TOWNSHIP28E
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size 26 000"Casing Size 20 000"Cemented with 1,420 sxor _____ ft³Top of Cement surfaceMethod Determined circulation1st Intermediate CasingHole Size 17 500"Casing Size 13 375"Cemented with 1465 sxor _____ ft³Top of Cement surfaceMethod Determined circulation2nd Intermediate CasingHole Size 12 250"Casing Size 9.625"Cemented with 1840 sxor _____ ft³Top of Cement surfaceMethod Determined circulation

Production Liner

Hole Size 8 500"

Casing Size 7 625"

Cemented with 370 sx

or _____ ft³

Top of Cement 9,400'

Method Determined calculation

Total Depth 15,200'

Injection Interval

14,000 feet to 15,200 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 5.500", 17 lb/ft, P-110, BT&C from 0'- 9,400' and 5.500", 17 lb/ft, P-110 UFJ from 9,400'- 13,950'

Lining Material: Duoline

Type of Packer D&L Oil Tools 7.625" Permapack Packer – Single Bore

Packer Setting Depth: 13,950'

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

2. Name of the Injection Formation Devonian, Silurian, Fusselman and Montoya (Top 100')

3. Name of Field or Pool (if applicable): SWD; Silurian-Devonian

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No, new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Cherry Canyon: 4,800'

Bone Spring: 6,299'

Wolfcamp: 9,400'

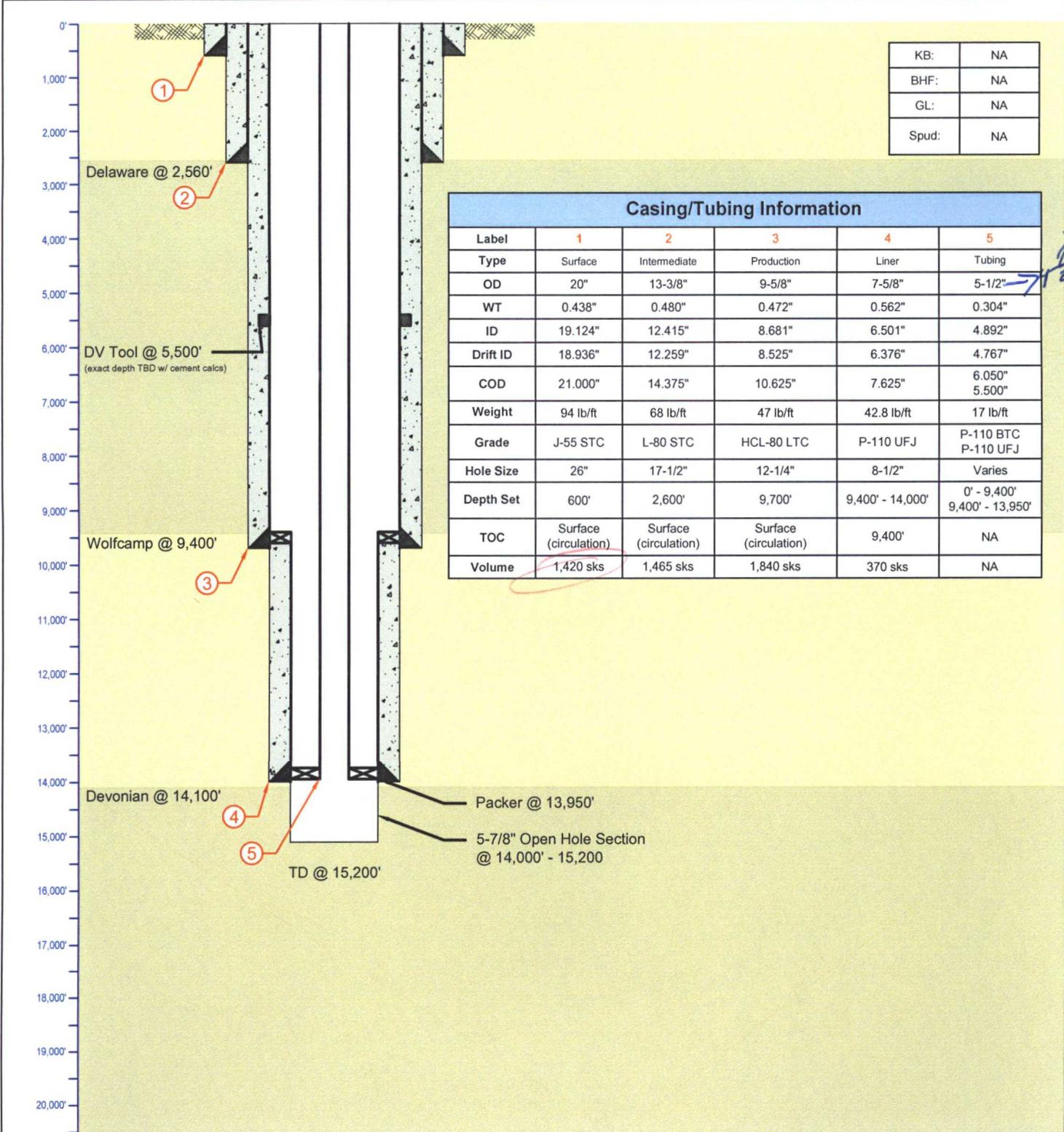
Atoka: 11,617'

Morrow: 12,190'

KB:	NA
BHF:	NA
GL:	NA
Spud:	NA

Casing/Tubing Information					
Label	1	2	3	4	5
Type	Surface	Intermediate	Production	Liner	Tubing
OD	20"	13-3/8"	9-5/8"	7-5/8"	5-1/2"
WT	0.438"	0.480"	0.472"	0.562"	0.304"
ID	19.124"	12.415"	8.681"	6.501"	4.892"
Drift ID	18.936"	12.259"	8.525"	6.376"	4.767"
COD	21.000"	14.375"	10.625"	7.625"	6.050" 5.500"
Weight	94 lb/ft	68 lb/ft	47 lb/ft	42.8 lb/ft	17 lb/ft
Grade	J-55 STC	L-80 STC	HCL-80 LTC	P-110 UFJ	P-110 BTC P-110 UFJ
Hole Size	26"	17-1/2"	12-1/4"	8-1/2"	Varies
Depth Set	600'	2,600'	9,700'	9,400' - 14,000'	0' - 9,400' 9,400' - 13,950'
TOC	Surface (circulation)	Surface (circulation)	Surface (circulation)	9,400'	NA
Volume	1,420 sks	1,465 sks	1,840 sks	370 sks	NA

Handwritten note: 2 1/2" Packer



	Alpha SWD	Alpha SWD #1 - Proposed	
	Country: USA	State/Province: New Mexico	County/Parish: Eddy
AUSTIN WICHITA HOUSTON CALGARY	Location: Malaga, NM	Site:	Survey/STR: Sec. 10-24S-28E
Texas License F-9147	API No:	Field:	Well Type/Status: SWD
3345 Bee Cave Road, Suite 201 Austin, Texas 78746 Tel: 512.732.9812 Fax: 512.732.9816	State ID No:	Project No:	Date: 5/19/17
	Drawn: CBW	Reviewed: CBW	Approved: SLP
	Rev No: 1	Notes:	

Alpha SWD Operating LLC

Alpha SWD No. 1

FORM C-108 Supplemental Information

III Well Data

A Wellbore Information

1

Well information	
Lease Name	Alpha SWD
Well No.	1
Location	S-10 T-24S R-28E
Footage Location	1,457' FSL & 2,093' FEL

2

a Wellbore Description

Casing Information				
Type	Surface	Intermediate	Production	Liner
OD	20"	13 375"	9 625"	7.625"
WT	0 438"	0 480"	0 472"	0.562"
ID	19 124"	12.415"	8.681"	6.501"
Drift ID	18 936"	12 259"	8 525"	6.376"
COD	21 00"	14 375"	10 625"	7.625"
Weight	94 lb/ft	68 lb/ft	47 lb/ft	42 8 lb/ft
Grade	J-55	L-80	HCL-80	P-110
Hole Size	26"	17 5"	12.25"	8.5"
Depth Set	600'	2,600'	9,700'	9,400' – 14,000'

b Cementing Program

Cement Information				
Casing String	Surface	Intermediate	Production	Liner
Lead Cement	C	C	NeoCem	H
Lead Cement Volume	1,420 sx	1,100 sx	Stage 1 530 sx Stage 2 770 sx	370 sx
Tail Cement		C	NeoCem/HALCEM	
Tail Cement Volume		365 sx	Stage 1 390 sx Stage 2. 150 sx	
Cement Excess	100%	25%	25%	25%
TOC	Surface	Surface	Surface	9,400'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3 Tubing Description

Tubing Information		
OD	5 5"	5.5"
WT	0 304"	0 304"
ID	4 892"	4 892"
Drift ID	4.767"	4.767"
COD	6 050"	5 500"
Weight	17 lb/ft	17 lb/ft
Grade	P-110 BTC	P-110 UFJ
Depth Set	0'-9,400'	9,400'-13,950'

Tubing will be lined with Duoline

4 Packer Description

D&L Oil Tools 7 625" Permapack Packer – Single Bore

B Completion Information

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

2 Gross Injection Interval 14,000' – 15,200'

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
Cherry Canyon	4,800'
Bone Spring	6,299'
Wolfcamp	9,400'
Atoka	11,617'
Morrow	12,190'

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: 25,000 BPD
Maximum Volume 32,000 BPD

2 Closed System

3 Anticipated Injection Pressure

Average Injection Pressure 2,100 PSI (surface pressure)
Maximum Injection Pressure 2,800 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 Delaware and Morrow formations

5 The disposal interval is non-productive No water samples are available from the surrounding area.

VIII Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Group 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	Eroded, not present
Salado	1,095'
Delaware	2,566'
Cherry Canyon	4,800'
Bone Spring	6,299'
Wolfcamp	9,400'
Strawn	11,383'
Atoka	11,617'
Morrow	12,190'
Mississippian Lime	13,630'
Woodford	13,922'
Devonian	14,100'

B Underground Sources of Drinking Water

Within 1-mile of the proposed Alpha SWD #1 location water wells range in depth from 50' to 123'. Reported depths to fresh water range from 8' to 32' (18' on average). This is not a known fresh water aquifer, but rather represents a sporadic alluvial source.

IX Proposed Stimulation Program

No proposed stimulation program

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

Quite a few fresh water wells exist within one mile of the well location. Fresh water samples will be obtained from two of the wells (yet to be determined) and analysis of these samples, a map, and the Water Right Summary from the New Mexico Office of the State Engineer will be provided to the OCD as soon as they are 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 and any underground sources of drinking water.

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

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44237		² Pool Code 96101		³ Pool Name SWD, Silurian-Devonian	
⁴ Property Code 317792		⁵ Property Name Alpha SWD			⁶ Well Number #1
⁷ OGRID No. 372180		⁸ Operator Name Alpha SWD Operating LLC			⁹ Elevation 3008.69'

¹⁰ Surface Location

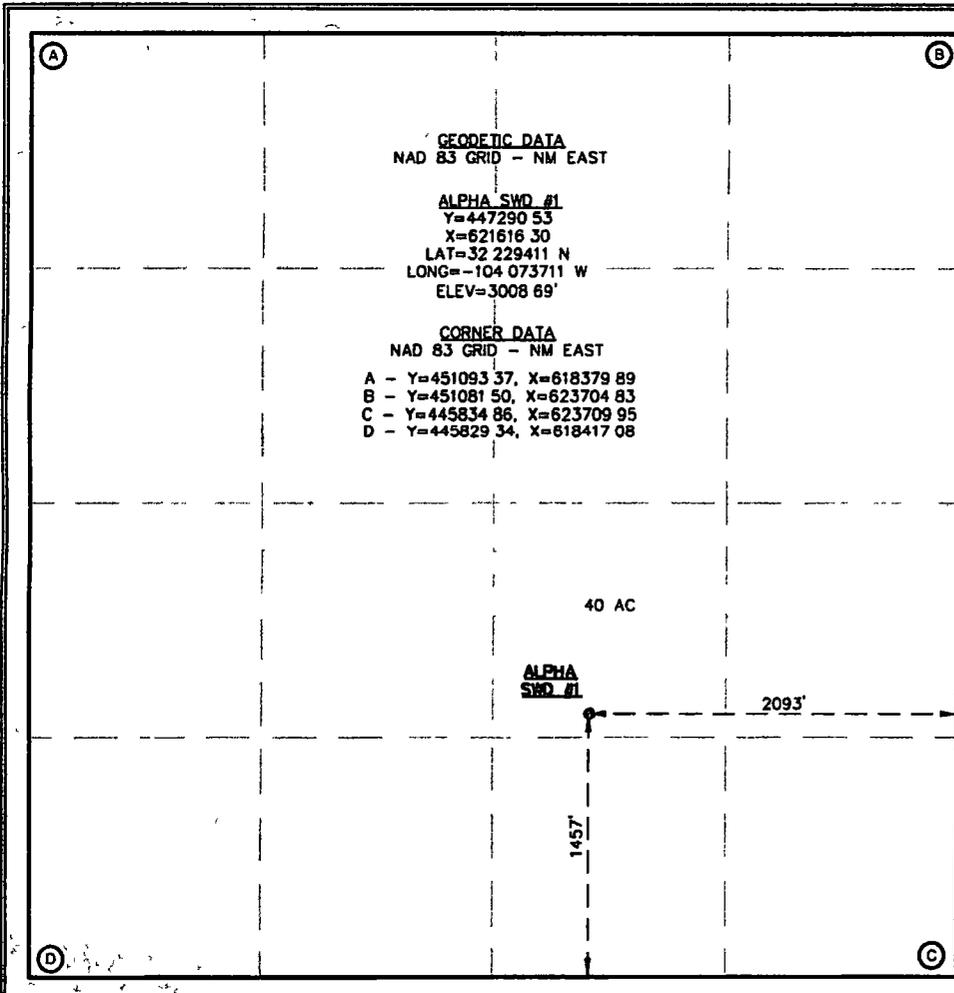
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	10	24 S	28 E		1457'	SOUTH	2093'	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	-	-	-		-	-	-	-	-

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Christopher Weyand 6/6/2017
Signature Date

Christopher Weyand
Printed Name

chrs@longquist.com
E-mail Address

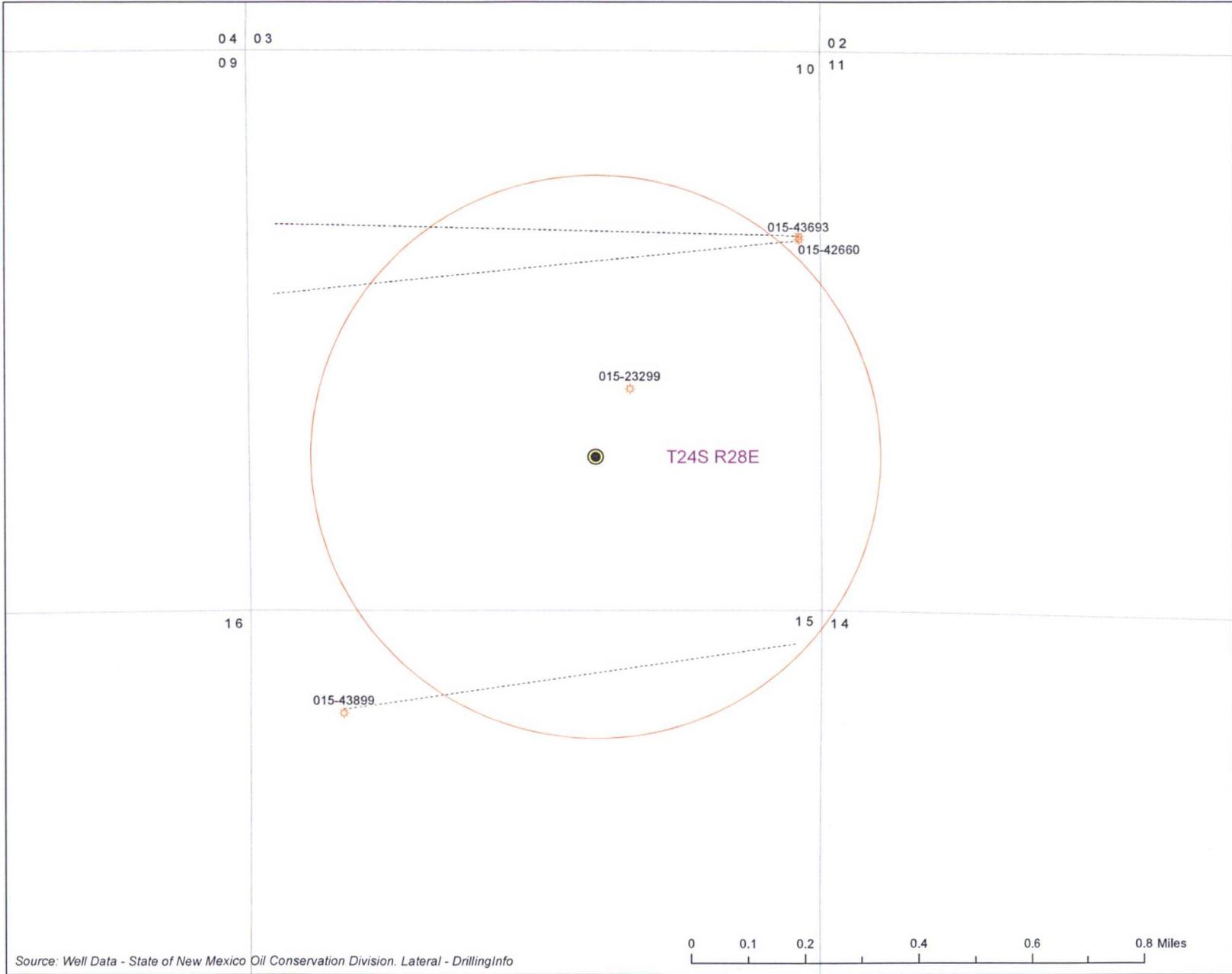
¹⁸ SURVEYOR CERTIFICATION

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.

6/5/2017
Date of Survey

Robert P. Allen
Signature and Seal of Professional Surveyor

23572
Certificate Number



Source: Well Data - State of New Mexico Oil Conservation Division. Lateral - DrillingInfo

Alpha SWD #1
1/2 mile Area of Review
 Eddy County, NM
 Alpha SWD Operating LLC

Projection: NAD 1983 State Plane NM East FIPS 3001
 Drawn by: SAH Date: 6/5/2017 Approved by: NLB

LONQUIST & CO. LLC

PETROLEUM ENGINEERS ENERGY ADVISORS

AUSTIN HOUSTON WICHITA DENVER CALGARY

- Alpha SWD #1
- Gas Well
- Lateral
- 1/2 mile Radius
- Section Boundary



Half-Mile AOR
Alpha SWD #1

API (30-015-)	Well Name	Well Type	Status	Operator	TD (TVD)	Location	Date Drilled
23299	KIRKES COM #001	Gas	Active	MATADOR PRODUCTION COMPANY	12,800	J-10-24S-28E	4/28/1980
42660	GUIAR 10 24 28 RB #202H	Gas	Active	MATADOR PRODUCTION COMPANY	9,475	H-10-24S-28E	12/3/2014
43693	GUIAR 10 24 28 RB #222H	Gas	Active	MATADOR PRODUCTION COMPANY	10,238	H-10-24S-28E	4/24/2016
43899	ANNE COM 15 24S 28E RB #221H	Gas	Active	MATADOR PRODUCTION COMPANY	10,614	D-15-24S-28E	9/26/2016

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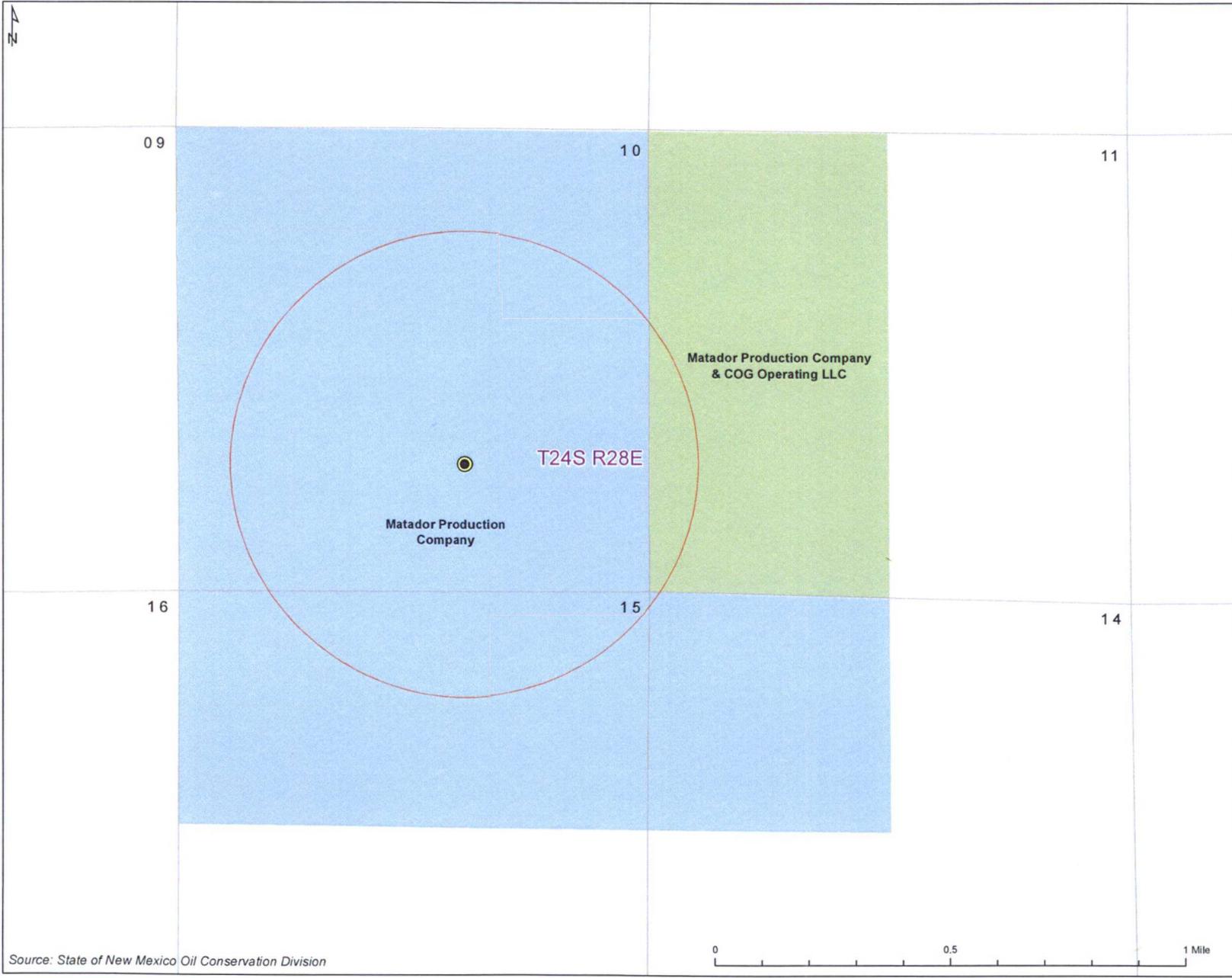
**Alpha SWD #1
Offset Leases**
Eddy County, NM
Alpha SWD Operating LLC

Projection: NAD 1983 State Plane NM East FIPS 3001
 Drawn by: SAH Date: 6/5/2017 Approved by: NLB

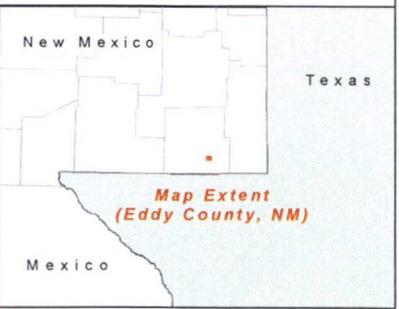
LONQUIST & CO. LLC

PETROLEUM ENGINEERS ENERGY ADVISORS

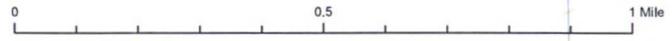
AUSTIN HOUSTON WICHITA DENVER CALGARY



- Alpha SWD #1
 - 1/2 mile Radius
 - Section Boundary
- Lessee**
- Matador Production Company
 - Matador Production Company & COG Operating LLC



Source: State of New Mexico Oil Conservation Division



Alpha SWD No. 1 Notice List

Notice	Address	Phone Number	Date Noticed
Oil Conservation Division District IV	1220 South St Francis Drive, Santa Fe, NM 87505	(505) 476-3440	6/7/2017
Oil Conservation Division District II	811 S First St, Artesia, NM 88210	(575) 748-1283	6/7/2017
Mr James N Phillips and Mr & Mrs James R Phillips	PO Box 148, Malaga, NM 88263		6/6/2017
COG Operating LLC	One Concho Center, 600 W Illinois Ave, Midland, TX 79701		6/6/2017
Matador Production Company	One Lincoln Center, 5400 LBJ Freeway, Suite 1500, Dallas, TX 75240		6/6/2017

Alpha SWD #1 Offsat Produced Water Analysis Wolfcamp																									
wellname	apl	latitude	longitude	section	township	range	unit	trgna	trgaw	county	state	formation	sampledate	ph	tds_mgl	resistivity_ohm_cm	sodium_mgl	calcium_mgl	iron_mgl	magnesium_mgl	manganese_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl	co2_mgl
HABANERO 17 FEDERAL COM #001H	3001536108	32 2218475	104 2062683	17	24S	27E	A	1990N	660E	EDDY	NM	WOLFCAMP	4/7/2015 0 00	6.5	108205	0 07392	35110.8	4480.2	28.5	627.9	0.61	65927.2	146	0	300
SERRANO 29 FEDERAL #001H	3001537763	32 1898842	104 2062149	29	24S	27E	H	1980N	660E	EDDY	NM	WOLFCAMP	4/7/2015 0 00	6.9	102136.2	0 07961	30415.1	5311.5	40.2	643.7	1.47	62812.7	183	0	350
SERRANO 29 FEDERAL #001H	3001537763	32 1898842	104 2062149	29	24S	27E	H	1980N	660E	EDDY	NM	WOLFCAMP	1/12/2015 0 00	6.5	100994.9		28702.1	5341.9	46.2	619.5	1.46	63450.1	268	0	350

Alpha SWD #1 Offset Produced Water Analysis

wellname	apl	latitude	longitude	section	township	range	unit	ftgns	ftgew	county	state	field	formation	depth	sampledate	ph	specificgravity	tds_mgl	sodium_mgl	calcium_mgl	iron_mgl	magnesium_mgl	manganese_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl	co2_mgl
GUY A REED #001	3001510872	32 2050591	104 0471802	24	24S	28E	E	1980N	660W	EDDY	NM	MALAGA	DELAWARE		10/26/1966 0 00	6 1		130273						78600	14	605	
MALAGA UNIT #001	3001502494	32 2241287	104 0375977	13	24S	28E	B	330N	1650E	EDDY	NM	MALAGA	DELAWARE					148288						91050	182	400	
DOUBLE DALE FEE COM #001	3001535539	32 2440033	104 0173264	6	24S	29E	I	1600S	660E	EDDY	NM				12/4/2012 0 00	7 2		53851 1	19476 6	871	2	127	0 7	31304	1512 8	161	20
GAINES 21 #001	3001528638	32 1984482	103 9862366	21	24S	29E	O	990S	1650E	EDDY	NM	CEDAR CANYON DELAWAR	BONE SPRING	7850	12/17/1996 0 00	8.48	1	8856	0	601 2	0	72 915		62858 2	260504	0	
H B 11 FEDERAL #008H	3001537900	32 2385559	103 951973	11	24S	29E	B	330N	1650E	EDDY	NM		AVALON UPPER		3/12/2013 0 00	6 8		190214 1	69189 7	3114	127	501	2 5	114114	1000 4	643	110
KNOLL AOK FEDERAL #001	3001528127	32 2485847	103 970253	3	24S	29E	G	1980N	1980E	EDDY	NM	CEDAR CANYON	BONE SPRING		11/27/2000 0 00	6 15				2162	0	775		84981	381	600	
CORRAL DRAW AQH FEDERAL #001	3001529396	32 2166748	103 9455948	13	24S	29E	L	2310S	330W	EDDY	NM	LIVINGSTON RIDGE	BONE SPRING		12/27/2000 0 00	5 59	1 183			25552	175	4471		164963	73	190	
H B 11 FEDERAL #008H	3001537900	32 2385559	103 951973	11	24S	29E	B	330N	1650E	EDDY	NM		AVALON UPPER		6/21/2011 0 00	7		174708 9	64668 1	2184	20	358	0 4	104800	878 4	575	50
H B STATE #001	3001525653	32 2485619	103 9617157	2	24S	29E	E	1980N	660W	EDDY	NM		MORROW		5/29/2013 0 00	6 9		30772 5	8812	1108	912	116	26	14600	329 4	3992	90

**Alpha SWD #1
Offset Water Wells**
Eddy County, NM
Alpha SWD Operating Inc

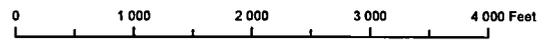
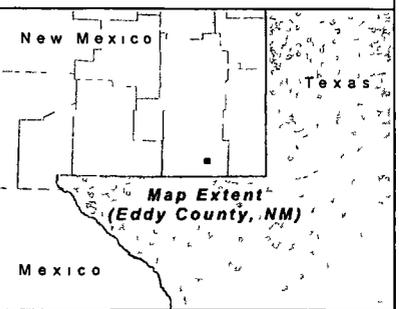
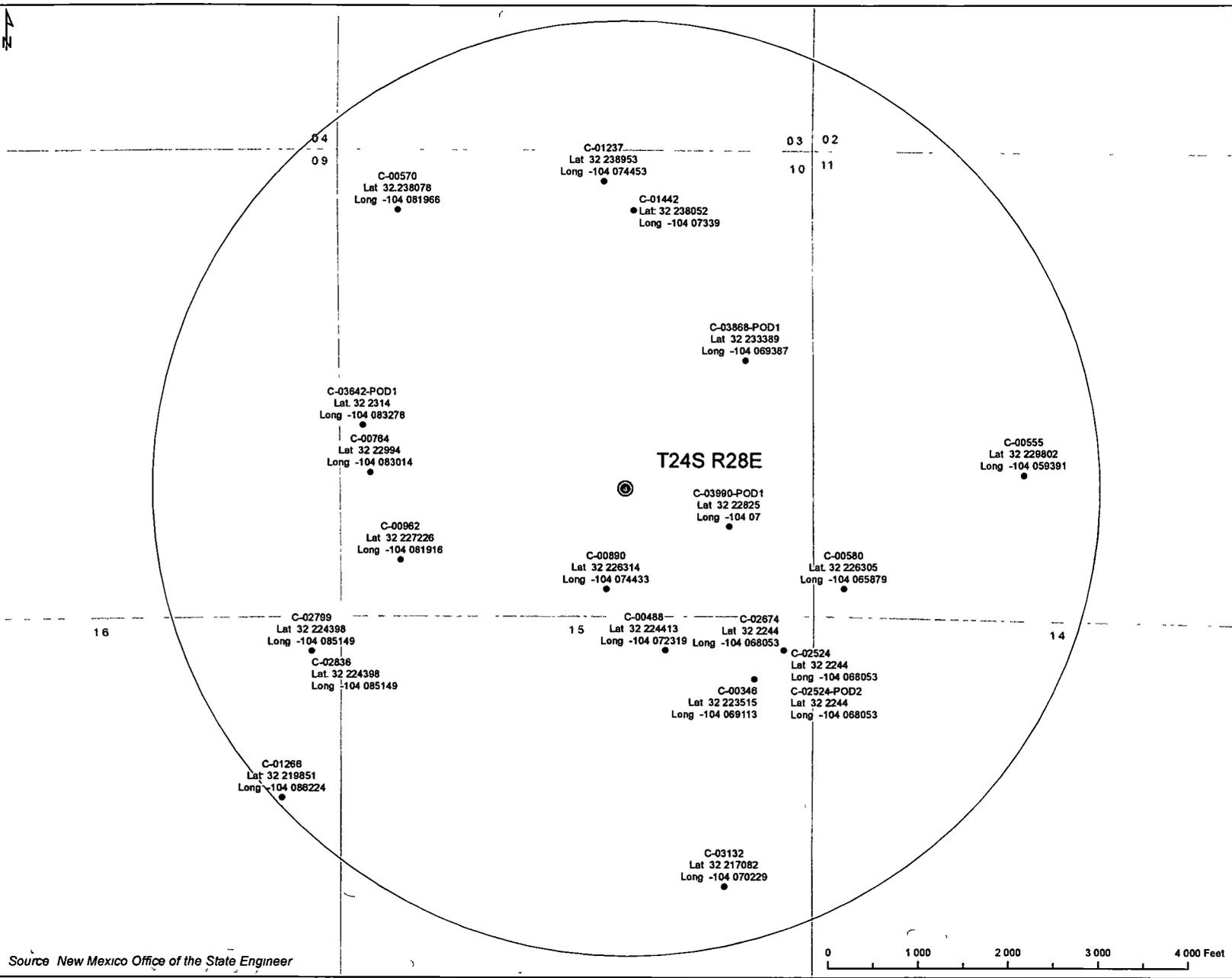
Projection NAD 1983 State Plane NM East FIPS 3001
 Drawn by SAH Date 6/1/2017 Approved by NLB

LONQUIST & CO LLC



AUSTIN HOUSTON WICHITA DENVER CALGARY

- ⊙ Alpha SWD #1
- Water Well (NAD 83)
- 1 mile Radius
- - - Section Boundary



Source New Mexico Office of the State Engineer

This legal notice will appear in the Carlsbad Current-Argus on Tuesday, June 6, 2017, and run in the paper for one day. The affidavit of publication will be forwarded to the New Mexico Oil Conservation Division upon receipt.

Legal Notice

Alpha SWD Operating LLC, 4436 Sterling Ln, Plano, Texas 75093 is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Alpha SWD No. 1. The proposed well will be located 1,457' FSL & 2,093' FEL in Section 10, Township 24S, Range 28E in Eddy County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Siluro-Devonian Formation (determined by offset log analysis) through an open hole completion between a maximum applied for top of 14,000 feet to a maximum depth of 15,200 feet. The maximum surface injection pressure will not exceed 2,800 psi with a maximum rate of 32,000 BWPD. Interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days. Additional information can be obtained from the applicant's agent, Lonquist & Co., LLC, at (512) 600-1764.

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

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

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address ALPHA SWD OPERATING LLC 4436 STERLING LN PLANO, TX 75093		² OGRID Number 372180
		³ API Number 30-015-44237
⁴ Property Code 317792	⁵ Property Name ALPHA SWD	⁶ Well No 1

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
J	10	24S	28E		1,457	SOUTH	2,093	EAST	EDDY

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

⁹ Pool Information

Pool Name SWD, Silurian-Devonian	Pool Code 96101
-------------------------------------	--------------------

Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary R	¹⁴ Lease Type Private	¹⁵ Ground Level Elevation 3,013'
¹⁶ Multiple N	¹⁷ Proposed Depth 15,200'	¹⁸ Formation Siluro-Devonian	¹⁹ Contractor TBD	²⁰ Spud Date ASAP
Depth to Ground water 25'		Distance from nearest fresh water well 500'		Distance to nearest surface water 2300'

We will be using a closed-loop system in lieu of lined pits

²¹ Proposed Casing and Cement Program

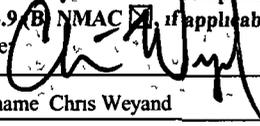
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	26"	20"	94 lb/ft	600'	1,420	Surface
Intermediate	17 5"	13 3/8"	68 lb/ft	2,600'	1,465	Surface
Production	12 25"	9 625"	47 lb/ft	9,700'	1,840	Surface
Prod Liner	8 5"	7 625"	42 8 lb/ft	9,400' - 14,000'	370	9,400'
Tubing	N/A	5 5"	17 lb/ft	13,950'	N/A	N/A

Casing/Cement Program: Additional Comments

See attached schematic

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Hydraulic/Blinds, Pipe	5,000 psi	8,000 psi	TBD - Schaffer/Cameron

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable Signature:  Printed name: Chris Weyand Title: Consulting Engineer E-mail Address: chris@lonquist.com Date: June 6, 2017 Phone: 512-600-1764	OIL CONSERVATION DIVISION	
	Approved By	
Title		
Approved Date	Expiration Date	
Conditions of Approval Attached		

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Monday, June 12, 2017 4 24 PM
To: 'chris@lonquist.com', 'Steve Pattee'
Cc: Jones, William V, EMNRD, Goetze, Phillip, EMNRD
Subject: Alpha SWD Operating, LLC Alpha SWD Well No 1

Steve

Your application that was received on June 12, 2017 will not be placed into the administrative application review process

The following information is required

- Return receipt for surface owner
- Return receipt for operator of record,
- Affidavit of publication
- Signed statement from either a geologist or engineer that there is no connection between groundwater and injection interval (a signed statement from the form C-108)

If the required information is not received within 10-days, your application will be cancelled

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

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:
 New Mexico Energy Minerals and Natural Resources Department
 Oil Conservation Division District II
 811 S First Street
 Artesia New Mexico 88210

9590 9402 2913 7094 7233 55

Article Number (Transfer from service label)
 7015 1660 0000 4377 9660

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
Deane Sharp Agent Addressee

B. Received by (Printed Name)
 DEANE SHARP

C. Date of Delivery
 6-12-11

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below

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
 Mail Restricted Delivery

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:
 New Mexico Energy Minerals and Natural Resources Department
 Oil Conservation Division District IV
 1220 South Street Francis Drive
 Santa Fe New Mexico 87505

9590 9403 0963 5223 5496 30

2 Article Number (Transfer from service label)
 7015 1660 0000 4377 9677

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature] Agent Addressee

B. Received by (Printed Name)
 [Name]

C. Date of Delivery
 JUN 12 2011

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below

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
 Mail Restricted Delivery

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:
 Matador Production Company
 One Lincoln Center
 5000 LBJ Freeway Suite 1500
 Dallas, Texas 75240

9590 9403 0963 5223 5496 54

Article Number (Transfer from service label)
 7015 1660 0000 4377 9691

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
Deane Burns Agent Addressee

B. Received by (Printed Name)
 Deane Burns

C. Date of Delivery
 6/9/17

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below

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
 Mail Restricted Delivery

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:
 Mr James N Phillips &
 Mrs James R Phillips
 P O Box 148
 Malaga New Mexico 88263

9590 9403 0963 5223 5495 24

2 Article Number (Transfer from service label)
 7015 1660 0000 4377 9707

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
James Phillips Agent Addressee

B. Received by (Printed Name)
 James Phillips

C. Date of Delivery

D. Is delivery address different from item 1? Yes No
 If YES enter delivery address below

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
 Mail Restricted Delivery

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:
 COG Operating, LLC
 One Concho Center
 600 W Illinois Avenue
 Midland Texas 79701

9590 9403 0963 5223 5496 47

2 Article Number (Transfer from service label)
 7015 1660 0000 4377 9684

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature] Agent Addressee

B. Received by (Printed Name)
 [Name]

C. Date of Delivery

D. Is delivery address different from item 1? Yes No
 If YES enter delivery address below

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
 Mail Restricted Delivery

Affidavit of Publication

State of New Mexico,
County of Eddy, ss

Danny Fletcher, being first duly
sworn, on oath says

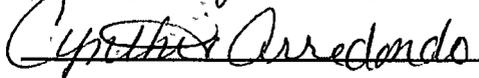
That he is the Publisher of the
Carlsbad Current-Argus, a
newspaper published daily at the
City of Carlsbad, in said county of
Eddy, state of New Mexico and of
general paid circulation in said
county, that the same is a duly
qualified newspaper under the laws
of the State wherein legal notices
and advertisements 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

June 6 2017

That the cost of publication is **\$70.15**
and that payment thereof has been
made and will be assessed as court
costs

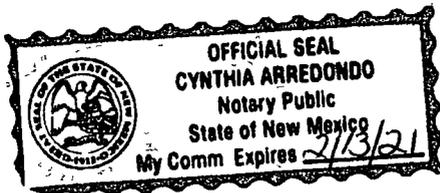


Subscribed and sworn to before me
this 7 day of June, 2017



My commission Expires 2/13/21

Notary Public



June 6, 2017
Legal Notice
Alpha SWD Operating
LLC, 4436 Sterling Ln,
Plano, Texas, 75093 is
filing Form C-108 (Ap-
plication for Authori-
zation to Inject) with
the New Mexico Oil
Conservation Division
for administrative ap-
proval for its salt wa-
ter disposal well Alpha
SWD No. 1. The pro-
posed well will be lo-
cated 1.457 FSL &
2.093 FEL in Section
10, T2S, R24E, in Eddy
County, New Mexico.
Disposal water will be
sourced from area
production and will
be injected into the
Siluro-Devonian For-
mation (determined
by offset log analysis)
through an open hole
completion between a
maximum applied for
top of 14,000 feet to a
maximum depth of
15,200 feet. The maxi-
mum surface injection
pressure will not ex-
ceed 2,800 psi with a
maximum rate of
32,000 BWPD. Inter-
ested parties oppos-
ing the action must
file objections or re-
quests for hearing
with the Oil Conserva-
tion Division, 1220
South St. Francis
Drive, Santa Fe, New
Mexico 87505, within
15 days. Additional in-
formation can be ob-
tained from the appli-
cant's agent, Lonquist
& Co, LLC, at (512)
600-1764.

IX Proposed Stimulation Program

No proposed stimulation program

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

Cardinal Laboratories in Hobbs, New Mexico was contracted to obtain water samples from fresh water wells within 1 mile and provide chemical analysis of the samples. It was determined that all wells within the area had been plugged or were not operational.

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 and any underground sources of drinking water.


6/19/2017



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)

POD Number	Q64 Q16 Q4 Sec TwS Rng	X	Y	
C 03824 POD1	4 1 2 16 24S 28E	585770	3565578	

Driller License: 1566	Driller Company: ABE DYCK PUMPING SERVICE	
Driller Name: DYCK, ABE		
Drill Start Date: 01/19/2015	Drill Finish Date: 03/02/2015	Plug Date:
Log File Date: 05/26/2015	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 300 GPM
Casing Size: 12 00	Depth Well: 290 feet	Depth Water: 60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	56	101	Sandstone/Gravel/Conglomerate
	101	150	Shale/Mudstone/Siltstone
	150	187	Sandstone/Gravel/Conglomerate
	187	201	Other/Unknown
	201	290	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	0	290

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

6/27/17 1 57 PM

POINT OF DIVERSION SUMMARY



C-108 Review Checklist: Received 6/14/2017 Add Request _____ Reply Date _____ Suspended _____ [Ver 15]

ORDER TYPE WFX / PMX (SWD) Number _____ Order Date _____ Legacy Permits/Orders _____

Well No 1 Well Name(s) Alpha SWD

API 30-0 15-44237 Spud Date TBD New or Old N (UIC Class II Primacy 03/07/1982)

Footages 1457 FSL 203 FEL Lot _____ or Unit Sec 10 Tsp 24S Rge 28E County Eddy

General Location 2 1/2 mile N of main rd Pool SWD Devonian-Silurian Pool No 9786S

BLM 100K Map Carlsbad Operator Alpha SWD Operating LLC OGRID 3711 Contact Chris Weard

COMPLIANCE RULE 5.9 Total Wells 1 Inactive 0 Fincl Assur OK Compl Order? NA TS 5.9 OK? Y Date 6-27-2017

WELL FILE REVIEWED Current Status Proposed

WELL DIAGRAMS NEW Proposed or RE-ENTER Before Conv After Conv Logs in Imaging N/A

Planned Rehab Work to Well _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>26"/20"</u>	<u>600'</u>	<u>1420</u>	<u>Surface/Visual</u>
Planned ___ or Existing ___ Intern/Prod	<u>17 1/2"/13 3/8"</u>	<u>2600</u>	<u>1465</u>	<u>Surface/Visual</u>
Planned ___ or Existing ___ Intern/Prod	<u>12 1/4"/9 5/8"</u>	<u>9700</u>	<u>1840</u>	<u>Surface/Visual</u>
Planned ___ or Existing ___ Prod/Liner	<u>7 7/8"/5 1/2"</u>	<u>13450</u>	<u>370</u>	<u>9400/CBC</u>
Planned ___ or Existing ___ Liner				
Planned ___ or Existing <u>(OH) PERF</u>	<u>1400/1500</u>			

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details
Adjacent Unit Litho Struc Por		<u>DV</u>	<u>14100</u>	Drilled TD <u>15200</u> PBDT _____
Confining Unit Litho Struc Por		<u>21400</u>	<u>13922</u>	NEW TD _____ NEW PBDT _____
Proposed Inj Interval TOP				NEW Open Hole <input type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval BOTTOM				Tubing Size <u>4 1/2"</u> Inter Coated? _____
Confining Unit Litho Struc Por				Proposed Packer Depth <u>1395</u> ft
Adjacent Unit Litho Struc Por				Min Packer Depth <u>1390</u> (100-ft limit)
				Proposed Max Surface Press <u>2800</u> psi
				Admin Inj Press <u>2800</u> (0.2 psi per ft)

AOR Hydrologic and Geologic Information

POTASH R-111-P NA Noticed? _____ BLM Sec Ord WIPP Noticed? _____ Salt/Salado T 280095 NW Cliff House fm NA

FRESH WATER Aquifer Quaternary Max Depth 140 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin Carlsbad CAPITAN REEF thru adj NA No Wells within 1-Mile Radius? _____ FW Analysis _____

Disposal Fluid Formation Source(s) Dickinson Analysis? _____ On Lease Operator Only or Commercial

Disposal Int Inject Rate (Avg/Max BWPD) 254/324 Protectable Waters? NA Source _____ System Closed or Open

HC Potential Producing Interval? NA Formerly Producing? _____ Method Logs/DST/P&A/Other regional 1/2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Y Well List? _____ Total No Wells Penetrating Interval _____ Horizontals? _____

Penetrating Wells No Active Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells No P&A Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE Newspaper Date June 6, 2010 Mineral Owner _____ Surface Owner Phillips N Date _____

RULE 26.7(A) Identified Tracts? Y Affected Persons CVG, Matador N Date 6-06-2017

Order Conditions: Issues _____