Initial

Application

Part I

Received: <u>07/19/2019</u>

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

RECEIVED: 07/19/2019 REVIEWER: APP NO: SWD pMAM1920031548

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY



	CONSERVATION DIVISION
	ngineering Bureau – Orive, Santa Fe, NM 87505
ADMINISTRATIVE A	APPLICATION CHECKLIST
	TRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND OCESSING AT THE DIVISION LEVEL IN SANTA FE
Applicant: 3Bear Field Services, LLC	OGRID Number: 372603
Vell Name: Gillock-Brown SWD No. 1	
ool: SWD: SWD; Devonian-Silurian	Pool Code: 97869
	TION REQUIRED TO PROCESS THE TYPE OF APPLICATION CATED BELOW
1) TYPE OF APPLICATION: Chook those which o	SWD-2198
 TYPE OF APPLICATION: Check those which of A. Location – Spacing Unit – Simultaneous 	
NSL SPROJECT AREA	
[II] Injection – Disposal – Pressure Incre WFX PMX SWD 2) NOTIFICATION REQUIRED TO: Check those w A. Offset operators or lease holders B. Royalty, overriding royalty owners, r C. Application requires published notic D. Notification and/or concurrent app E. Notification and/or concurrent app F. Surface owner	PC OLS OLM ease - Enhanced Oil Recovery IPI EOR PPR FOR OCD ONLY which apply. Notice Complete evenue owners ce proval by SLO proval by BLM cation or publication is attached, and/or,
administrative approval is accurate and co	
Note: Statement must be completed by an	n individual with managerial and/or supervisory capacity.
	July 11, 2019
Steve Pattee – Agent of 3Bear Field Service	Date
Print or Type Name	(512) 600-1774
AN	Phone Number
	steve@lonquist.com

e-mail Address

Signature

LONQUIST & CO. LLC

PETROLEUM **ENGINEERS**

ENERGY ADVISORS

AUSTIN · HOUSTON · WICHITA · DENVER · CALGARY

July 11, 2019

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: GILLOCK BROWN 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 3Bear Field Service, LLC's (3Bear") Gillock-Brown SWD No. 1. In addition, Forms C-101 and C-102 have also been included with this package. Notices have been sent to offset, operators, leaseholders and the surface owner. Proof of notice will be sent to the OCD upon receipt.

Any questions should be directed towards 3Bear Field Services, LLC's agent Lonquist & Co., LLC.

Regards,

Ramona K. Hovey Sr. Petroleum Engineer

Kamone Il Honey

Lonquist & Co., LLC

(512) 600-1777

ramona@longuist.com

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.	Application qualifies for administrative approval? Pressure Maintenance X Disposal Storage X Yes No
II.	OPERATOR: 3Bear Field Services, LLC
	ADDRESS: 415 W. Wall St., Suite 1212
	CONTACT PARTY: Kevin Burns PHONE: 432-686-2973
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: Steve Pattee TITLE: Consulting Engineer – Agent for 3Bear Field Service
	SIGNATURE:
*	E-MAIL ADDRESS: ramona@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: 3Bear Field Services, LLC

WELL NAME & NUMBER: Gillock-Brown SWD No. 1

WELL LOCATION:

182' FNL & 2,172' FWL

FOOTAGE LOCATION

UNIT LETTER

33 SECTION 22S TOWNSHIP <u>26E</u> RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.500"

Casing Size: 13.375"

Cemented with 570 sacks.

or __ft3

Top of Cement: surface

Method Determined: circulation

Intermediate Casing

Hole Size: 12.250"

Casing Size: 9.625"

Cemented with 1,810 sacks.

or __ft3

Top of Cement: surface

Method Determined: circulation

Liner

Hole Size: 8.750"

Casing Size: 7.625"

Cemented with 280 sacks.

or ____ ft³

Top of Cement: 8,200'

Method Determined: circulation

Total Depth: 13,345'

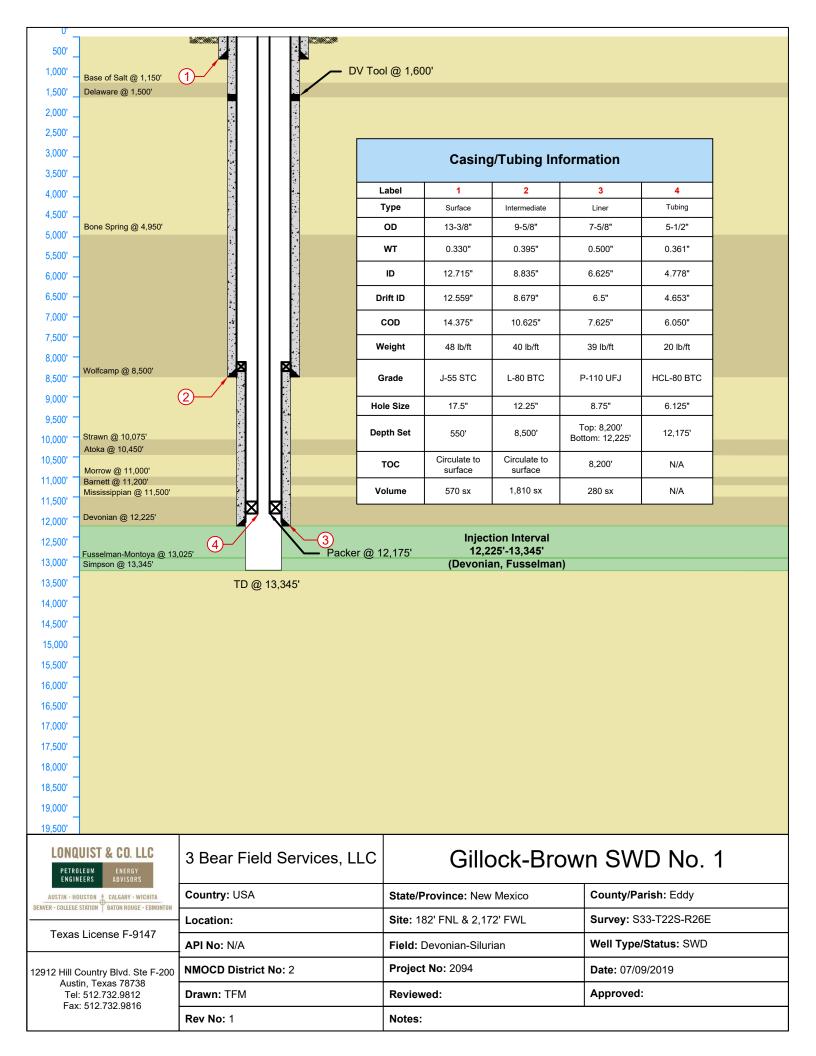
Injection Interval

12.225 feet to 13.345 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tul	bing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' - 12,175'
Lin	ing Material: <u>Duoline</u>
Тур	be of Packer: 7-5/8" X 5-1/2" Permanent Packer with High Temperature Elastomer and Full Inconel 925 Trim
Pac	ker Setting Depth: 12,175'
Oth	ner Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection? X_YesNo
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: <u>Devonian</u> , <u>Fusselman</u> ,
3.	Name of Field or Pool (if applicable): SWD; Devonian-Silurian (Pool Code: 97869)
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:
	Bone Spring: 4,950' Wolfcamp: 8,500' Strawn: 10,075' Morrow: 11,000'





Gillock-Brown SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information					
Lease Name Gillock-Brown SWD					
Well No.	1				
Location	S-33 T-22S R-26E				
Footage Location	182' FNL & 2,172' FWL				

2.

a. Wellbore Description

Casing Information							
Туре	Surface	Intermediate	Liner				
OD	13.375"	9.625"	7.625"				
WT	0.330"	0.395"	0.500"				
ID	12.715"	8.835"	6.625"				
Drift ID	12.559"	8.679"	6.500"				
COD	14.375"	10.625"	7.625"				
Weight	48 lb/ft	40 lb/ft	39 lb/ft				
Grade	J-55 STC	HCL-80 BTC	P-110 UFJ				
Hole Size	17.5"	12.25"	8.75"				
Depth Set	550'	8,500'	8,200'-12,225'				

b. Cementing Program

Cement Information							
Casing String	Surface	Intermediate	Liner				
Lead Cement	Class C	Class C	Class H				
Lead Cement Volume	-	Stage 1: 1,145 sks Stage 2: 375 sks	100 sks				
Lead Cement Density	-	Stage 1: 12.7 ppg Stage 2: 12.9 ppg	12.7 ppg				
Tail Cement	Class C	Class C	Class H				
Tail Cement Volume	570 sks	Stage 1: 145 sks Stage 2: 375 sks	180 sks				
Tail Cement Density	14.8 ppg	Stage 1: 14.8 ppg Stage 2: 14.8 ppg	14.5 ppg				
Total Sacks	570 sks	1,810 sks	280 sks				
тос	Surface	Surface Stage 1: 1,600' Stage 2: Surface Circulate to Surface Surface Surface Surface Surface Surface Surface Surface					
Method							

3. Tubing Description

Tubing Information				
OD	5.5"			
WT	0.361"			
ID	4.778"			
Drift ID	4.653"			
COD	6.050"			
Weight	20 lb/ft			
Grade	HCL-80 BTC			
Depth Set	0-12,175'			

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5-1/2" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

B. Completion Information

1. Injection Formation: Devonian, Fusselman

2. Gross Injection Interval: 12,225'-13,345'

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
Bone Spring	4,950'
Wolfcamp	8,500'
Strawn	10,075'
Morrow	11,000′

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: 20,000 BPD Maximum Volume: 25,000 BPD

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

Average Injection Pressure: 1,834 PSI (surface pressure) Maximum Injection Pressure: 2,445 PSI (surface pressure)

- 4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Artesia formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Artesia, Bone Spring, Delaware, Grayburn/San Andreas, Morrow, Pennsylvanian, and Strawn formations.
- 5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

Devonian Formation Lithology:

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.

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

A. Injection Zone: Devonian-Silurian Formation

Formation	Depth
Base of Salt	1,150′
Delaware	1,500'
Bone Spring	4,950'
Wolfcamp	8,500′
Strawn	10,075′
Atoka	10,450′
Morrow	11,000′
Barnett	11,200′
Mississippian Lime	11,500′
Devonian	12,225′
Fusselman	13,025′

B. Underground Sources of Drinking Water

Eleven (11) water wells exist within the proposed well. Water wells have an average depth of 142 feet. Across the one-mile radius, fresh water wells are usually drilled between 100' and 505' in depth. The Rustler is known to exist in this general area and may also be another USDW and will be protected by setting surface casing at 550' before the Salado salt to prevent contamination of the aquifer.

IX. Proposed Stimulation Program

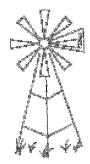
No stimulation program planned.

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

Attached is a map of the eleven (11) water wells that exists within one-mile of the well location. Samples from the well are being obtained by Cardinal Laboratories and will be reported to the Oil Conservation Division as soon as a report is received. Water right summaries are attached for all wells.



ZEIGLER GEOLOGIC CONSULTING, LLC 13170 Central Ave. SE, Suite B #137 Albuquerque, NM 87123 zeiglergeo@gmail.com; zeiglergeo.com (505) 263.5448 (575) 207.7826

For: 3Bear Energy, LLC

415 W. Wall St., Suite 1212

Midland, TX 79701

August 7, 2018

Re: Gillock-Brown SWD #1, Eddy County, New Mexico

With regards to the Gillock-Brown SWD #1 well, located in unit letter C, section 33, T22S, R26E (NM Prime Meridian) in Eddy County, the nearest documented basement-penetrating fault is located approximately 26 miles southwest of the well's location. Available geologic and engineering data has been examined and suggest no evidence of faults in proximity to the well, nor hydrological connection between the proposed injection zone and any freshwater aquifers utilized for domestic, municipal or livestock water resources.

Sincerely,

Kut Zigh

Kate Zeigler, Ph.D., CPG (AIPG #11803)

Geologist

NM OIL CONSERVATION ARTESIA DISTRICT

JAN 16 2019

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

District II 811 S. First St., Arresia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, Artes: 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-102

Energy, Minerals & Natural Resources Department RECEIVED Revised August 1, 2011 OIL CONSERVATION DIVISION

District Office

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

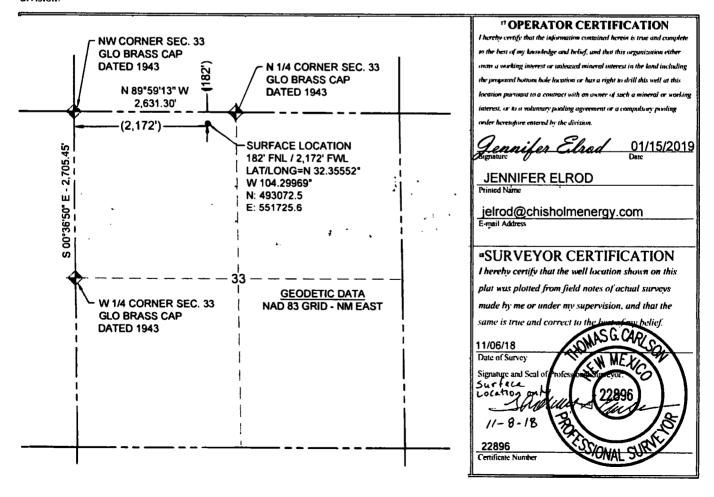
AMENDED REPORT SHL CHANGE

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-015-45219	² Pool Code 97869	Pool Name	
30-013-43219		SWD; DEVONIAN-SILUR	KIAN
Property Code 322295	ode Property Name GILLOCK - BROWN SWD		* Well Number 1
OGRID No. 372603 3BEAR		* Operator Name TELD SERVICES, LLC	
, , <u></u>	" Surfa	ce Location	· ·

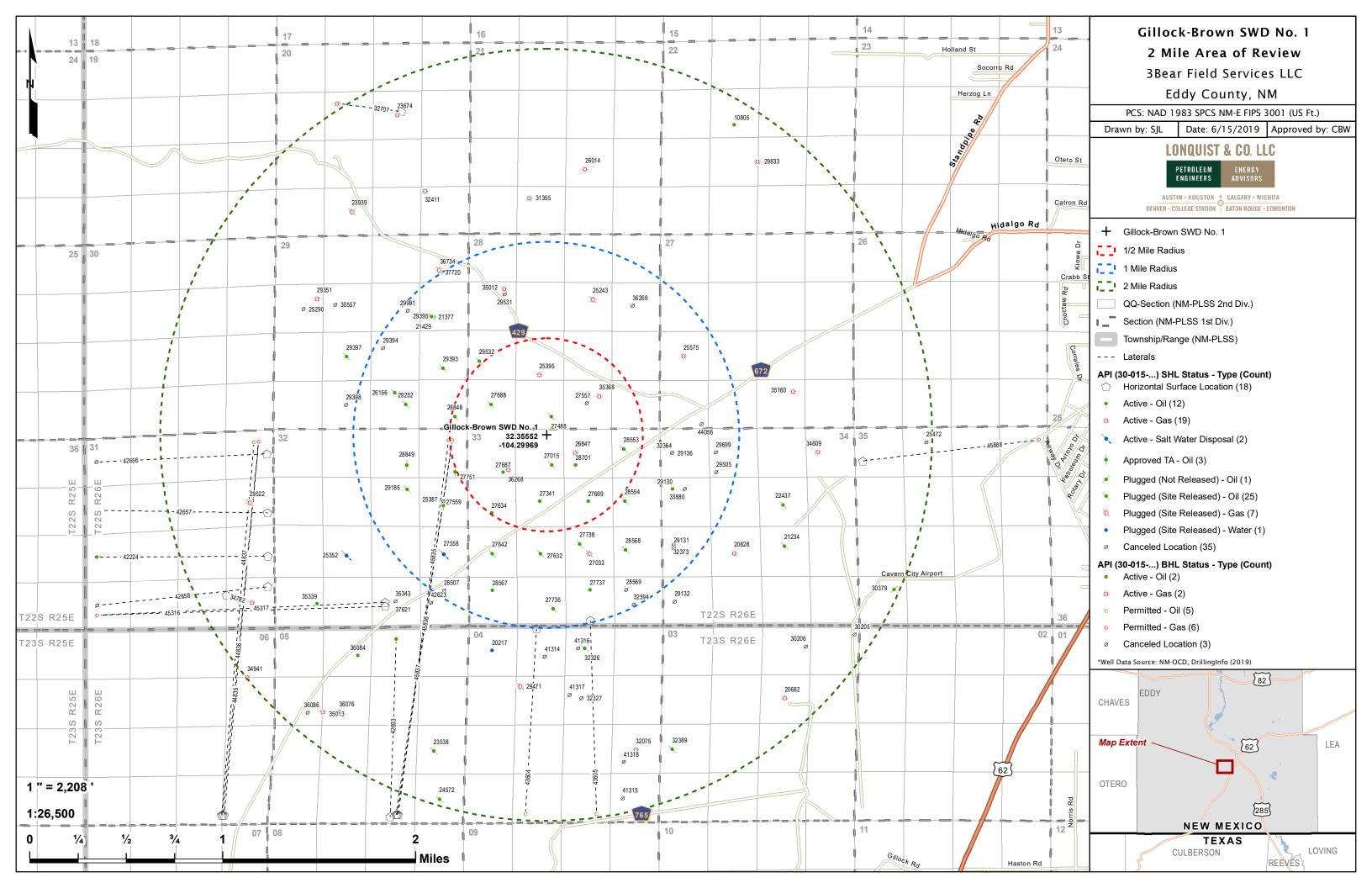
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County NW 1/4 C 33 **22S** 26E 182 **NORTH** 2,172 WEST **EDDY** " Bottom Hole Location If Different From Surface UL or lot no. Section Township Feet from the North/South line Lot Ide Renge Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill 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.



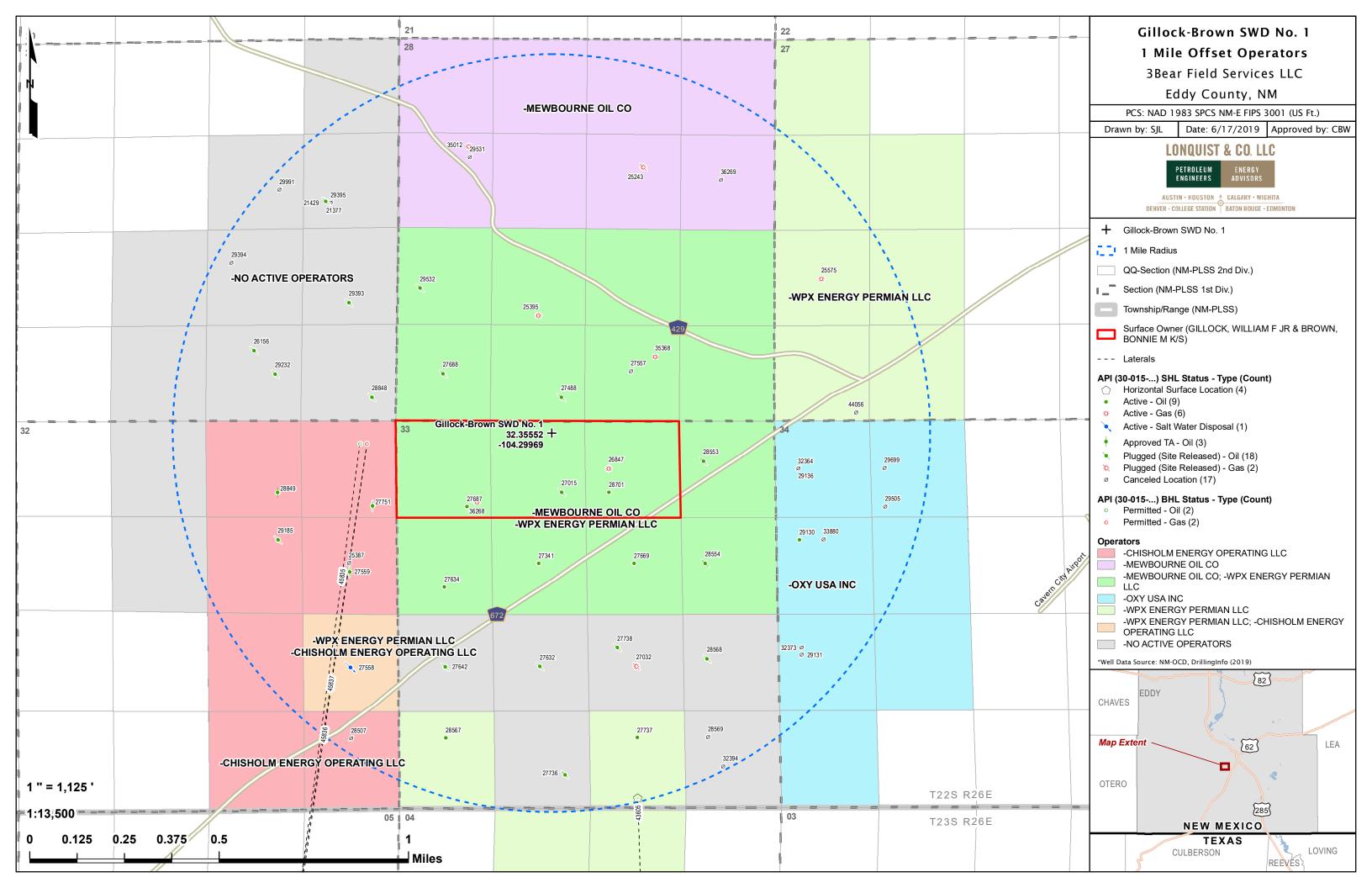
W:100000 - WE Projects\61551 - 3 Bear SWD\Survey\Drawings\Exhibits SWD\61551_Gillick-Brown SWD2\61551_Gillick-Brown SWD2\61551

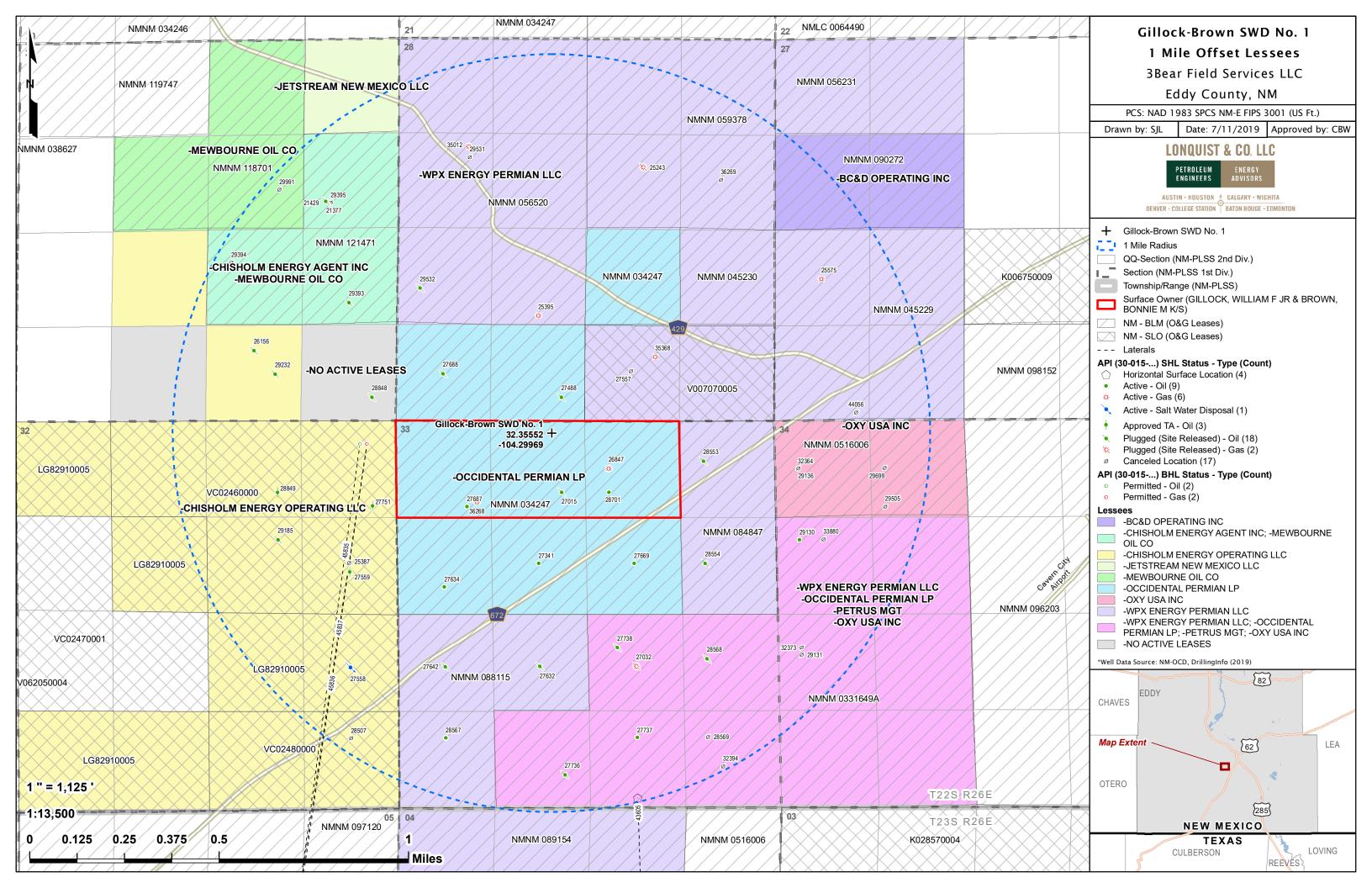
RW 2-7-19



Gillock-Brown SWD No. 1 1 Mile Area of Review List

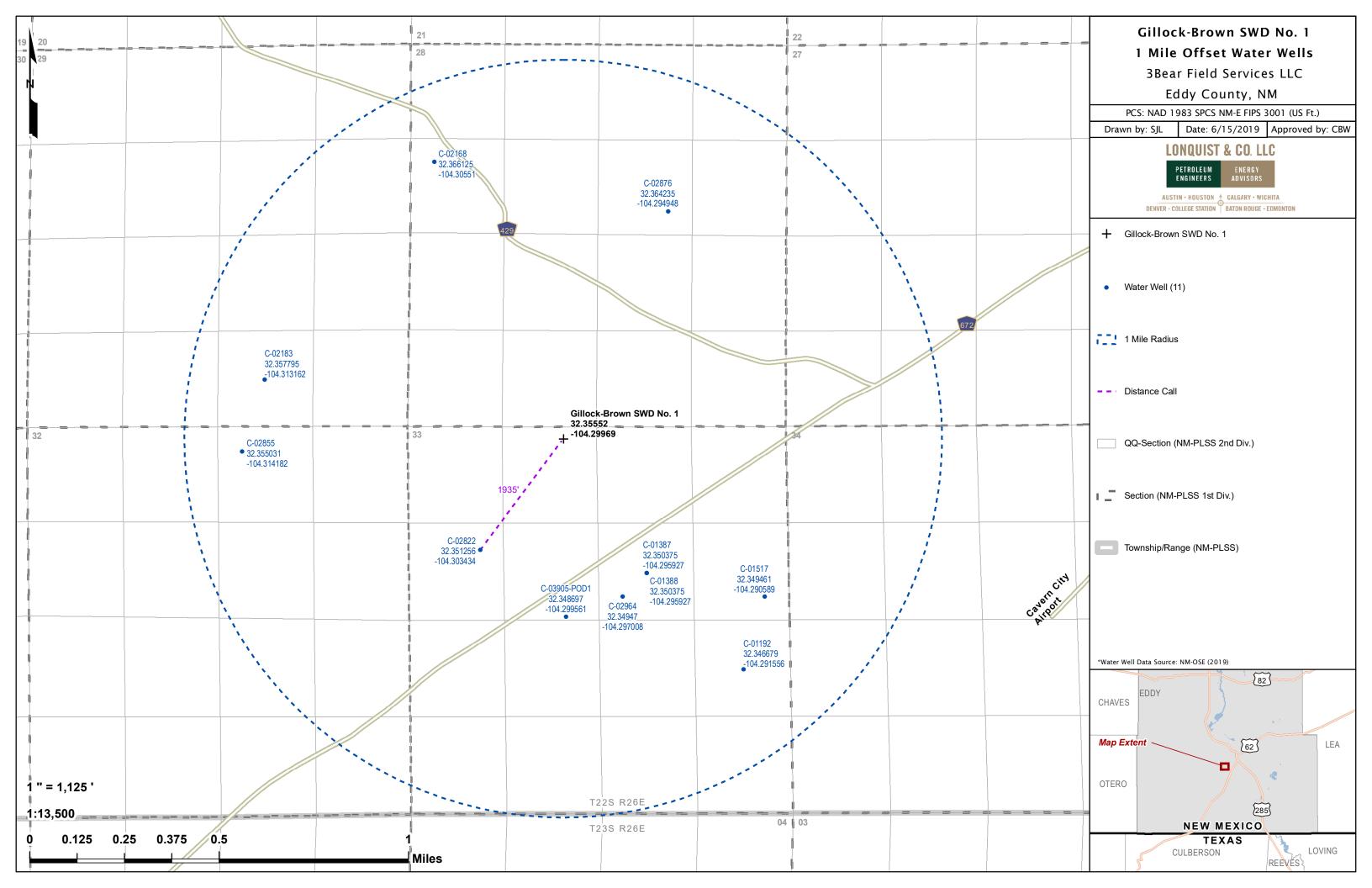
API (30-015)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	SPUD DATE	FIELD
21377	PRE-ONGARD WELL #001	0	Р	PRE-ONGARD WELL OPERATOR	190	32.3644104000	-104.309852600	9/28/1974	
21429	PRE-ONGARD WELL #001	0	Р	PRE-ONGARD WELL OPERATOR	11720	32.3644104000	-104.309875500	12/4/1974	
25243	HAPPY VALLEY FEDERAL COM #001	G	Р	E G L RESOURCES INC	11840	32.36570360	-104.29554750	3/2/1993	[74200] CARLSBAD, WOLFCAMP, SOUTH (GAS); [78070] HAPPY VALLEY, STRAWN (GAS)
25387	PRE-ONGARD WELL #001	0	С	PRE-ONGARD WELL OPERATOR	0	32.3505491527	-104.308824172	-	
25395	HAPPY VALLEY B FEDERAL COM #001	G	Α	WPX Energy Permian, LLC	11692	32.36002730	-104.30027770	12/16/1985	[78060] HAPPY VALLEY, MORROW (GAS)
25575	J.A. TOMAINO FEDERAL #001	G	Α	WPX Energy Permian, LLC	11751	32.36142730	-104.28749850	5/25/1986	[78060] HAPPY VALLEY, MORROW (GAS)
26156	PRE-ONGARD WELL #001	0	Р	PRE-ONGARD WELL OPERATOR	11650	32.3586922000	-104.313125600	8/10/1989	
26847	SHEEP DRAW FEDERAL COM #001	G	Α	WPX Energy Permian, LLC	11735	32.35416790	-104.29710390	12/7/1992	[78060] HAPPY VALLEY, MORROW (GAS); [85200] SHEEP DRAW, STRAWN (GAS)
27015	SHEEP DRAW FEDERAL #002	0	Р	WPX Energy Permian, LLC	4990	32.35326000	-104.29922490	9/14/1992	[29665] HAPPY VALLEY, DELAWARE
27032	RAM EWE FEDERAL COM #001	G	Р	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	11750	32.3465881000	-104.295867900	5/2/1993	[73960] CARLSBAD, MORROW, SOUTH (GAS); [96171] CARLSBAD, WOLFCAMP, SOUTHEAST (GAS)
27341	SHEEP DRAW FEDERAL #003	0	Α	WPX Energy Permian, LLC	5000	32.35054020	-104.30026250	3/22/1993	[29665] HAPPY VALLEY, DELAWARE
27488	SHEEP DRAW 28 FEDERAL #001	0	Р	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	5002	32.3568878000	-104.299247700	7/26/1993	[29665] HAPPY VALLEY, DELAWARE
27557	BIG HORN STATE #001	0	С	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	0	32.3578904408	-104.296096423	-	,
27558	BARBADOS STATE #001	S	A	WPX Energy Permian, LLC	5040	32.34654620	-104.30876920	12/21/1995	[96100] SWD, DELAWARE
27559	EV STATE COM #002	0	Т	CHISHOLM ENERGY OPERATING, LLC	11800	32.3502083000	-104.308807400	10/17/1996	[73800] CARLSBAD, ATOKA, SOUTH (GAS); [78055] HAPPY VALLEY, ATOKA (GAS); [78060] HAPPY VALLEY, MORROW (GAS)
27632	DALL FEDERAL COM #001	0	P	WPX Energy Permian, LLC	5050	32.34657670	-104.30021670	9/7/1993	[29665] HAPPY VALLEY, DELAWARE
27634	SHEEP DRAW FEDERAL #005	0	A	WPX Energy Permian, LLC	5040	32.34963610	-104.30452730	8/23/1993	[29665] HAPPY VALLEY, DELAWARE
27642	DALL FEDERAL #002	0	P	WPX Energy Permian, LLC	5030	32.34656910	-104.30448910	7/5/1995	[29665] HAPPY VALLEY, DELAWARE
27669	SHEEP DRAW FEDERAL #008	0	A	WPX Energy Permian, LLC	5040	32.35053630	-104.29595950	9/22/1993	[29665] HAPPY VALLEY, DELAWARE
27687	SHEEP DRAW FEDERAL #006	0	Α		4987	32.3527145000	-104.29393930	5/28/1995	[29665] HAPPY VALLEY, DELAWARE
27688	SHEEP DRAW 28 FEDERAL #002	0	P	WPX Energy Permian, LLC	4987	•		3/2/1996	
			P	WPX Energy Permian, LLC		32.35779950	-104.30458070		[29665] HAPPY VALLEY, DELAWARE
27736	RAM EWE FEDERAL #002	0	P .	WPX Energy Permian, LLC	3300	32.34243010	-104.29909520	8/30/1997	[29665] HAPPY VALLEY, DELAWARE
27737	RAM EWE FEDERAL #003	0	A	WPX Energy Permian, LLC	3055	32.34386440	-104.29581450	10/27/1996	[29665] HAPPY VALLEY, DELAWARE
27738	RAM EWE FEDERAL #004	0	P	WPX Energy Permian, LLC	5025	32.34730150	-104.29673000	8/14/1995	[29665] HAPPY VALLEY, DELAWARE
27751	EV STATE #003	0	Т	CHISHOLM ENERGY OPERATING, LLC	5010	32.35274120	-104.30776980	11/25/1995	[29665] HAPPY VALLEY, DELAWARE
28507	EV STATE #005	0	С	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	0	32.3438240796	-104.308743830	-	
28553	AOUDAD FEDERAL #001	0	Р	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	3025	32.3544388000	-104.292831400	4/13/1996	[29665] HAPPY VALLEY, DELAWARE
28554	AOUDAD FEDERAL #002	0	Р	WPX Energy Permian, LLC	4990	32.35053250	-104.29274750	7/17/1995	[29665] HAPPY VALLEY, DELAWARE
28567	DALL FEDERAL #003	0	Α	WPX Energy Permian, LLC	5070	32.34384540	-104.30445860	11/10/1995	[29665] HAPPY VALLEY, DELAWARE
28568	RAM EWE FEDERAL #005	0	Р	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	3050	32.3468704000	-104.292671200	2/23/1996	[29665] HAPPY VALLEY, DELAWARE
28569	RAM EWE FEDERAL #006	0	С	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	0	32.3438828973	-104.292621579	-	
28701	SHEEP DRAW FEDERAL #004	0	Α	WPX Energy Permian, LLC	4990	32.35326000	-104.29708860	7/31/1995	[29665] HAPPY VALLEY, DELAWARE
28848	HAPPY VALLEY 29 #044	0	Р	WPX Energy Permian, LLC	4500	32.35689160	-104.30780030	4/22/1996	[29665] HAPPY VALLEY, DELAWARE
28849	EV STATE #004	0	T	CHISHOLM ENERGY OPERATING, LLC	4400	32.3532486000	-104.312057500	3/31/1996	[29665] HAPPY VALLEY, DELAWARE
29130	MIDWEST L FEDERAL #002	0	Α	OXY USA INC	5100	32.35144420	-104.28849790	12/27/1996	[29665] HAPPY VALLEY, DELAWARE
29131	MIDWEST L FEDERAL #003	0	С	POGO PRODUCING CO	0	32.34702544	-104.28839357	-	
29136	MIDWEST L FEDERAL #005	0	С	POGO PRODUCING CO	0	32.35417405	-104.28854819	1	
29185	EV STATE #006	0	Р	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	3098	32.3514366000	-104.312034600	11/4/1996	[29665] HAPPY VALLEY, DELAWARE
29232	HAPPY VALLEY 29 #034	0	Р	WPX Energy Permian, LLC	4857	32.35778810	-104.31216430	7/7/1997	[29665] HAPPY VALLEY, DELAWARE
29393	HACKBERRY 29 FEDERAL #001	0	Р	DEVON ENERGY PRODUCTION CO.	4990	32.36051940	-104.30883030	9/19/1997	[29665] HAPPY VALLEY, DELAWARE
29394	HACKBERRY 29 FEDERAL #002	0	С	DEVON ENERGY PRODUCTION CO.	0	32.36205880	-104.31414727	-	
29395	HACKBERRY 29 FEDERAL #003	0	С	DEVON ENERGY PRODUCTION CO.	0	32.36434738	-104.30965536	-	
29505	MIDWEST L FEDERAL #006	0	С	POGO PRODUCING CO	0	32.35270709	-104.28462729	-	
29531	SHEEP DRAW 28 FEDERAL #012	0	С	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	0	32.3660999369	-104.303370856	-	
29532	SHEEP DRAW 28 FEDERAL #013	0	Р	WPX Energy Permian, LLC	4950	32.36107250	-104.30561830	7/1/1997	[29665] HAPPY VALLEY, DELAWARE
29699	JET FEDERAL #001	0	С	POGO PRODUCING CO	0	32.35419132	-104.28465939	-	-
29991	HACKBERRY 29 FEDERAL #004	0	С	DEVON ENERGY PRODUCTION CO.	0	32.36485304	-104.31196718	-	
32364	MIDWEST L FEDERAL #005Q	0	Α	OXY USA INC	5130	32.35416410	-104.28855130	11/9/2002	[29665] HAPPY VALLEY, DELAWARE
32373	MIDWEST L FEDERAL #003Q	0	С	POGO PRODUCING CO	0	32.34730030	-104.28839951	-	
32394	RAM EWE FEDERAL #006A	0	C	DOMINION OKLAHOMA TEXAS EXPL. & PROD INC	0	32.3427571035	-104.291946322	-	
33880	MIDWEST FEDERAL COM #002	G	C	CHI OPERATING INC	0	32.35145773	-104.28741544	-	[73960] CARLSBAD, MORROW, SOUTH (GAS)
35012	MILAGRO 28 FEDERAL COM #001	G	A	MEWBOURNE OIL CO	11710	32.3665047000	-104.303413400	6/22/2006	[78060] HAPPY VALLEY, MORROW (GAS)
35368	MCKITTRICK DRAW 28 STATE COM #001	G	A	MEWBOURNE OIL CO	11710	32.3584518000	-104.294998200	9/2/2007	[78060] HAPPY VALLEY, MORROW (GAS); [85200] SHEEP DRAW, STRAWN (GAS)
36268	SHEPHERD DRAW 33 FEDERAL COM #001	G	A	MEWBOURNE OIL CO	11730	32.3528709000	-104.303047200	6/19/2008	[78060] HAPPY VALLEY, MORROW (GAS)
36269	MILAGRO 28 FEDERAL COM #002C	G	<u></u>	MEWBOURNE OIL CO	0	32.36522918300	-104.29202849600	-	[78060] HAPPY VALLEY, MORROW (GAS)
43605		0	NI NI		0	32.36522918300	-104.29202849600		
	SARAGOSSA FEDERAL 4 #002H	0	N C	WPX Energy Permian, LLC	-			-	[98056] WC-015 G-04 S232628M, BONE SPRING
44056	HAPPY VALLEY 27 FEDERAL COM #001H		<u> </u>	WPX Energy Permian, LLC	0	32.3563190000	-104.285928300	-	[96605] HAPPY VALLEY, BONE SPRING, SE
45835	BODACIOUS 5 32 FEDERAL COM 3BS #004H	0	N	CHISHOLM ENERGY OPERATING, LLC	0	32.32696510	-104.31281990	-	[98056] WC-015 G-04 S232628M, BONE SPRING
45836	BODACIOUS 5 32 FEDERAL COM WCA #005H	G	N	CHISHOLM ENERGY OPERATING, LLC	0	32.32696500	-104.31291680	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)
45837	BODACIOUS 5 32 FEDERAL COM WCB #006H	G	N	CHISHOLM ENERGY OPERATING, LLC	0	32.32696490	-104.31301400	-	[98220] PURPLE SAGE, WOLFCAMP (GAS)





Gillock-Brown SWD No. 1 1 Mile Offset Operators and Lessees List

S/T/R	QQ UNIT LETTER(S)	OPERATOR	MINERAL LESSEE	MINERAL OWNER	SURFACE OWNER	ADDRESS 1	ADDRESS 2
29/22S/26E	B,F,G	-	MEWBOURNE OIL CO	-	-	500 W TEXAS ST #1020	MIDLAND, TX 79701
	H,I,J	-	MEWBOURNE OIL CO	-	-	500 W TEXAS ST #1020	MIDLAND, TX 79701
			CHISHOLM ENERGY AGENT INC	-	-	801 CHERRY ST STE 1200 UNIT 20	FORT WORTH, TX 76102
	A	-	JETSTREAM NEW MEXICO LLC	-	-	PO BOX 471396	FORT WORTH, TX 76147
	K,O	-	CHISHOLM ENERGY OPERATING LLC	-	-	801 CHERRY STREET	FORT WORTH, TX 76102
	N	-	-	WELLS FARGO BANK N.A. (NORMA B. WILEY IRREVOCABLE TRUST B)	-	PO BOX 1959	MIDLAND, TX 79702
	Р	-	-	KIMBERLEY ANN CALVERT	-	1360 LEMMERS RD	CASPER, WY 82601
28/22S/26E	A,B,C,D,E,F,G,H	MEWBOURNE OIL CO	-		-	PO BOX 5270	HOBBS, NM 88241
	I,J,K,L,M,N,O,P	MEWBOURNE OIL CO	-		-	PO BOX 5270	HOBBS, NM 88241
		WPX ENERGY PERMIAN LLC	-		-	3500 ONE WILLIAMS CENTER	TULSA, OK 74172
27/22S/26E	D,E,F,K,L,M,N	WPX ENERGY PERMIAN LLC	-	-	-	3500 ONE WILLIAMS CENTER	TULSA, OK 74172
34/22S/26E	C,D,E,F,K,L,M	OXY USA INC	-		-	PO BOX 4294	HOUSTON, TX 77210
33/22S/26E	A,B,C,D,E,F,G,H	MEWBOURNE OIL CO	-	-	-	PO BOX 5270	HOBBS, NM 88241
		WPX ENERGY PERMIAN LLC	-	-	-	3500 ONE WILLIAMS CENTER	TULSA, OK 74172
	M,O	WPX ENERGY PERMIAN LLC	-	-	-	3500 ONE WILLIAMS CENTER	TULSA, OK 74172
	K,L	-	WPX ENERGY PERMIAN LLC	-	-	3500 ONE WILLIAMS CENTER	TULSA, OK 74172
			Operating Rights on BLM Lease NMNM 088115:				
			CHISHOLM ENERGY AGENT INC	-	-	801 CHERRY ST STE 1200 UNIT 20	FORT WORTH, TX 76102
			DOMINION OK TX EXPL & PROD INC	-	-	14000 QUAIL SPGS PKY #600	OKLAHOMA CITY, OK 73134
			MEWBOURNE OIL CO	-	-	500 W TEXAS ST #1020	MIDLAND, TX 79701
	I,J,N,P	-	WPX ENERGY PERMIAN LLC	-	-	3500 ONE WILLIAMS CENTER	TULSA, OK 74172
			OCCIDENTAL PERMIAN LP	-	-	5 E GREENWAY PLAZA #110	HOUSTON, TX 77046
			PETRUS MGT	-	-	12201 MERRIT DR #900	DALLAS, TX 75251
			OXY USA INC	-	-	PO BOX 27570	HOUSTON, TX 77227
			Operating Rights on BLM Lease NMNM 0 331649A:				
			PENROC OIL CORP	-	-	1515 W CALLE SUR ST STE 174	HOBBS, NM 88240
			DESERT PRODUCTION INC	-	-	PO BOX 351	MIDLAND, TX 79702
			CHISHOLM ENERGY AGENT INC	-	-	801 CHERRY ST STE 1200 UNIT 20	FORT WORTH, TX 76102
			POGO RESOURCES LLC	-	-	4809 COLE AVE STE 106	DALLAS, TX 75205
			MEWBOURNE OIL CO	-	-	500 W TEXAS ST #1020	MIDLAND, TX 79701
			MERIT ENE MGT PARTNERS I LP	-	-	13727 NOEL RD #500	DALLAS, TX 75240
			MERIT ENE MGT PARTNERS II LP	-	-	13727 NOEL RD #500	DALLAS, TX 75240
			MERIT ENERGY PTNRS III LP	-	-	13727 NOEL RD #500	DALLAS, TX 75240
			MERIT ENERGY PTNRS	-	-	13727 NOEL RD #500	DALLAS, TX 75240
			MERIT ENERGY PTNRS VII LP	-	-	13727 NOEL RD #500	DALLAS, TX 75240
			DOMINION OK TX EXPL & PROD INC	-	-	14000 QUAIL SPGS PKY #600	OKLAHOMA CITY, OK 73134
			CHEVRON USA INC	-	-	6301 DEAUVILLE	MIDLAND, TX 79706
			PXP PRODUCING CO LLC	-	-	717 TEXAS ST STE 2100	HOUSTON, TX 77002
32/22S/26E	A,B,G,H,J,O,P	CHISHOLM ENERGY OPERATING LLC	-			801 CHERRY STREET	FORT WORTH, TX 76102
	I	CHISHOLM ENERGY OPERATING LLC	-		-	801 CHERRY STREET	FORT WORTH, TX 76102
		WPX ENERGY PERMIAN LLC			-	3500 ONE WILLIAMS CENTER	TULSA, OK 74172
	C,F	-	CHISHOLM ENERGY OPERATING LLC		-	801 CHERRY ST STE 1200 UNIT 20	FORT WORTH, TX 76102
4/23S/26E	B,C	WPX ENERGY PERMIAN LLC	-	-	-	3500 ONE WILLIAMS CENTER	TULSA, OK 74172
Surface Location	-	-	-		GILLOCK, WILLIAM F JR & BROWN, BONNIE M K/S	159 GILLOCK ROAD	CARLSBAD, NM 88220



						a Joulin	Gillock-Brown CW/D No 1									
						Produced	Produced Water Samples									
Well Name	API Sec	Section Township	Range	Range Unit County	ty Formation	ph tds_mgL	mgL sodium_mgl		calcium_mgL ire	iron_mgL m	magnesium_mgL	manganese_mgL	chloride_mgL bic	bicarbonate_mgL	sulfate_mgL	co2_mgL
CRAWFORD #001	3001501121	9 245	27E	к Еррү	/ DELAWARE		95055						58570	95	187	
ST HAMILTON #001	3001501126	15 245	27E	M EDDY	/ DELAWARE		301812						189600	192	2040	
DOC HOLLIDAY 32 STATE COM #001	3001541145	32 245	27E	D EDDY	BONE SPRING 2ND SAND	6.7	193316.3	59944.7	8287.7	63.6	1065.9	1.03	3 120600	170.8	17	350
PREACHER 19 FEDERAL #003H	3001541887	19 245	27E	O EDDY	BONE SPRING 2ND SAND	6.5	193786.1	67996.2	3049.5	20	455.6	9	119000	130	34	300
PREACHER 19 FEDERAL #003H	3001541887	19 245	27E	O EDDY		. 7	177819.6	60298.5	5557.4	49.5	721.3		108940.6	396	0	470
JOSEY WALES 16 STATE COM #003H	3001541090	16 245	27E	O EDDY	BONE SPRING 2ND SAND	6.47	179419.7	56191	7263	34	206	7 0.8	3 112857	146.4	573	350
DOC HOLLIDAY 32 STATE COM #001	3001541145	32 245	27E	D EDDY	BONE SPRING 2ND SAND	6.3	205799.3	64141.4	9202.6	68.4	1164.7	7 1.1	128748.7	122	21	430
PREACHER 19 FEDERAL #003H	3001541887	19 245	27E	O EDDY	BONE SPRING 2ND SAND	2.8	203717.6	70834.8	3255.7	51	483.4		0 125604.7	144	34	360
JOSEY WALES 16 STATE COM #003H	3001541090	16 245	27E	O EDDY	BONE SPRING 2ND SAND	9.7	176588.8	56605.8	7257.2	41.9	919.6		109722	146	0	430
DOC HOLLIDAY 32 STATE COM #001	3001541145	32 245	27E	D EDDY	BONE SPRING 2ND SAND	7.3	197760.1	61580.1	8480.7	68.7	1113.9	11.11	123849.8	146	0	430
DOC HOLLIDAY 32 STATE COM #001	3001541145	32 245	27E	D EDDY	BONE SPRING 2ND SAND	7.3	127681.6	43933.7	2003.8	31.4	394.2	2	20077	195.2	0	20
PREACHER 19 FEDERAL #003H	3001541887	19 245	27E	O EDDY	BONE SPRING 2ND SAND	7.4	312558	120501	1427.3	43.3	362.7		000981 0	201.4	3947	180
PREACHER 19 FEDERAL #003H	3001541887	19 245	27E	о Ерру	BONE SPRING 2ND SAND	7.4	312550	120501	1427.3	43.3	362.7		000981 0	201.4	0	180
JOSEY WALES 16 STATE COM #003H	3001541090	16 245	27E	O EDDY	BONE SPRING 2ND SAND	6.5	179141.4	59469	7527.1	41	943.9		109122.7	73.2	0	250
DOC HOLLIDAY 32 STATE COM #001	3001541145	32 245	27E	D EDDY	BONE SPRING 2ND SAND	. 7	203230.2	65823.6	9280.1	59.4	1154	1.17	7 124268.5	48.8	0	300
HABANERO 17 FEDERAL COM #001H	3001536108	17 245	27E	A EDDY	/ WOLFCAMP	6.5	108205	35110.8	4480.2	28.5	627.9	9 0.61	1 65927.2	146	0	300
WHITE CITY PENN GAS COM UNIT 1 #001	3001500408	29 245	36E	A EDDY	WOLFCAMP	7		0009	066	0	130	0	10000	645	1320	
SERRANO 29 FEDERAL #001H	3001537763	29 245	27E	н ЕББҮ	/ WOLFCAMP	6.9	102136.2	30415.1	5311.5	40.2	643.7	7 1.47	7 62812.7	183	0	320
SERRANO 29 FEDERAL #001H	3001537763	29 245	27E	н ЕDDY	/ WOLFCAMP	6.5	100994.9	28702.1	5341.9	46.2	619.5	5 1.46	5 63450.1	268	0	320
LEE J FED #001	3001505973	18 245	36E	J EDDY	/ WOLFCAMP	8.1							9100		0082	
BRADLEY FEDERAL #006	3001500386	11 245	36E	I EDDY	/ SAN ANDRES	8.5	10492						2070	618	413	
BRADLEY #007	3001500385	11 245	39Z	O EDDY	/ SAN ANDRES	80.00	6811						2948	429	887	
FED D #002	3001500389	12 245	36E	P EDDY	/ ATOKA		60623									
R.S. STATE #001	3001501132	27 245	27E	N EDDY	/ PENNSYLVANIAN		48387						26570	1505	2263	
O'NEILL FEDERAL #001	3001520301	11 245	36E	L EDDY	MORROW	5.7	123887	49189.7	2808	351			81000	368.28	81	



Water Right Summary



WR File Number: C 01192 Subbasin: C Cross Reference:-

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: ANTONIO MEDRANO

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 462577 72121 1964-04-21 PMT LOG C 01192 T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number Well Tag Source 6416 4 Sec Tws Rng X Y Other Location Desc

C 01192 Shallow 2 4 33 22S 26E 566664 3579084*

An () after northing value indicates UTM location was derived from PLSS - see Help

6/25/19 8:46 AM Page 1 of 1 WR SUMMARY - C 01192



Water Right Summary



WR File Number: C 01517 Subbasin: C Cross Reference:-

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: EXP EXPIRED

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: ARMANDO D LAREZ

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 463463 72121 1973-10-24 EXP EXP C 01517 T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number Well Tag Source 6416 4 Sec Tws Rng X Y Other Location Desc

C 01517 4 4 2 33 22S 26E 566753 3579393*

An () after northing value indicates UTM location was derived from PLSS - see Help

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Water Right Summary



WR File Number: C 02855 Subbasin: CUB Cross Reference:-

Primary Purpose: PLS NON 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 0 Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: THUNDER RUN LAND & CATTLE CO

Contact: GEORGE HARVICK

Documents on File

				Sta	tus		From/		
Т	rn#	Doc	File/Act	1	2	Transaction Desc.	То	Acres	Diversion Consumptive
images 5	54320	COWNF	2014-08-21	CHG	PRC	C 02855	Т	0	0
3	75906	COWNF	2007-01-11	CHG	PRC	C 02855	Т	0	0
3	08474	COWNF	2004-06-24	CHG	PRC	C 02855	Т	0	0
2	16074	DCL 20	001-10-22	DCL	PRC	C 02855	Т	0	3

Current Points of Diversion

(NAD83 UTM in meters)

564529 3579996*

POD Number Well Tag Source 6416 4 SecTws Rng X Y Other Location Desc

1 1 2 32 22S 26E

C 02855

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QQQ

Source

Acres Diversion CU Use Priority Source Description

O 3 PLS GW

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Water Right Summary



WR File Number: C 02876 Subbasin: C Cross Reference:-

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: CITY OF CARLSBAD
Contact: LOUIS CAMERO

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 466679 72121 2001-12-17 PMT LOG C 02876 T

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source 6416 4 Sec Tws Rng
 X
 Y
 Other Location Desc

 C 02876
 Artesian 4 3 2 28 22S 26E
 566332 3581028*

An () after northing value indicates UTM location was derived from PLSS - see Help

QQQ

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Water Right Summary



WR File Number: C 02964 Subbasin: C Cross Reference:-

Primary Purpose: DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: LYNN THOMPSON

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

<u>get</u> <u>466794 72121 2003-04-15</u> PMT LOG C 02964 T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number Well Tag Source 6416 4 Sec Tws Rng X Y Other Location Desc

C 02964 3 3 2 33 22S 26E 566149 3579390*

An () after northing value indicates UTM location was derived from PLSS - see Help

6/25/19 8:47 AM Page 1 of 1 WR SUMMARY - C 02964



Water Right Summary



WR File Number: C 03905 Subbasin: C Cross Reference:-

Primary Purpose: SAN 72-12-1 SANITARY IN CONJUNCTION WITH A COMMERCIAL USE

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 1 Cause/Case: -

Owner: TRI STAR SERVICES LLC

Contact: MARIA PARRAS

Documents on File

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

1 get 574595 72121 2015-08-24 PMT APR C 03905 POD1 T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 6416 4 Sec Tws Rng
 X
 Y
 Other Location Desc

 C 03905 POD1
 4 4 1 33 22S 26E
 565909 3579302
 MCKINTRICK RD 1/2

MCKINTRICK RD 1/2 MILE EAST

6/25/19 8:48 AM Page 1 of 1 WR SUMMARY - C 03905



Water Right Summary



WR File Number: C 02822 Subbasin: C Cross Reference:-

Primary Purpose: MUL 72-12-1 MULTIPLE DOMESTIC HOUSEHOLDS

Primary Status: EXP EXPIRED

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: TOMMY HARDESTY

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 466510 72121 2001-05-03 EXP EXP C 02822 T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number Well Tag Source 6416 4 Sec Tws Rng X Y Other Location Desc

C 02822 2 3 1 33 22S 26E 565543 3579584*

An () after northing value indicates UTM location was derived from PLSS - see Help

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Water Right Summary



WR File Number: C 02168 Subbasin: C Cross Reference:-

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: RONALD D. FREDERICK

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

© get | 468945 | 72121 | 1988-07-29 | PMT LOG C 02168 | T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number Well Tag Source 6416 4 Sec Tws Rng X Y Other Location Desc

C 02168 Shallow 1 3 1 28 22S 26E 565337 3581231*

An () after northing value indicates UTM location was derived from PLSS - see Help

6/25/19 8:49 AM Page 1 of 1 WR SUMMARY - C 02168



Water Right Summary



WR File Number: C 02183 Subbasin: C Cross Reference:-

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: JESSE F. RAYROUX

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

© get 469008 72121 1989-10-13 PMT APR C 02183 T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number Well Tag Source 6416 4 Sec Tws Rng X Y Other Location Desc

C 02183 3 4 29 22\$ 26E 564623 3580303*

An () after northing value indicates UTM location was derived from PLSS - see Help

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6/25/19 8:49 AM Page 1 of 1 WR SUMMARY - C 02183



Water Right Summary



WR File Number: C 01388 Subbasin: C Cross Reference:-

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: LA CARTER

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 463286 72121 1968-07-30 PMT APR C 01388 T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number Well Tag Source 6416 4 Sec Tws Rng X Y Other Location Desc

C 01388 3 2 33 22S 26E 566250 3579491*

An () after northing value indicates UTM location was derived from PLSS - see Help

6/25/19 9:00 AM Page 1 of 1 WR SUMMARY - C 01388



Water Right Summary



WR File Number: C 01192 Subbasin: C Cross Reference:-

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: ANTONIO MEDRANO

Documents on File

Status From/

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 462577 72121 1964-04-21 PMT LOG C 01192 T

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number Well Tag Source 6416 4 Sec Tws Rng X Y Other Location Desc

C 01192 Shallow 2 4 33 22S 26E 566664 3579084*

An () after northing value indicates UTM location was derived from PLSS - see Help

6/25/19 8:45 AM Page 1 of 1 WR SUMMARY - C 01192

CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No. 0001291085

LONQUIST &CO 1001 MCKINNEY, SUITE 1650

HOUSTON TX 77002

I, a legal clerk 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:

07/11/19

Legal Cherky

Subscribed and sworn before me this 11th of July 2019.

State of W, County of Brown NOTARY PUBLIC

My Commission Expires

3Bear Field Services, LLC, 1512 Larimer St, Suite 540, Denver, CO 80202, is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well Gillock-Brown SWD No. 1. The proposed well will be located at 182' FNL & 2,172' FWL in Section 33, Township 22S, Range 26E in Eddy County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian-Silurian Formation (determined by offset log analysis) through an open hole completion between an applied for top of 12,225' feet to a maximum depth of 13,345' feet. The maximum surface injection pressure will not exceed 2,445 psi with a maximum rate of 25,000 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-

Run: July 11, 2019 Legal ad #1291085



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 NM OIL CONSERVATION

Oil Conservation Division

ARTESIA DISTRICE AMENDED REPORT

1220 South St. Francis Dr.

AUG 27 2018

Santa Fe, NM 87505

DECEIVED

A DDI 1	CATIC	N FOD	DEDMIT T	∧ nou i i	DE ENTED I	DEEDEN	DI LICDACI		D A ZONE		
AFFLI	CATIC		Operator Name a 3BEAR FIELD S 1512 LARIMER	ind Address ERVICES, LLC ST., SUITE 540	RE-ENTER, I	<u>DEEPEN,</u>		² OGRID Num 320495	372, 603		
4. Prope	erty Ce de.	- A A A A	DENVER, CO 8		Property Name		3	0.0/5.	45319		
	erty Sd	1395		GILLÓ	Property Name OCK-BROWN SW	D			1		
	T - · · ·	<u> </u>			face Location	<u> </u>					
UL - Lot C	Section 33	Township 22S	Range 26E	Lot Idn	Feet from 696	N/S Line NORTH	Feet From 1568	E/W Line WEST	County EDDY		
UL - Lot	Section	Township	Range	Lot Idn	Bottom Hole L	OCATION N/S Line	Feet From	E/W Line	County		
	<u> </u>			9. Poo	l Information						
				Pool Na SWD; DEVC	ame NIAN-SILURIAN	٧			Pool Code 97869		
				Additional	l Well Informati	ion					
N	-		^{12.} Well Type S		13. Cable/Rotary R		⁴ Lease Type P	15. G1	round Level Elevation 3297		
™ M YE	ultiple S		17. Proposed Depth 13,345'	SIL	18. Formation URO-DEVONIAN	_	19. Contractor NABORS		^{20.} Spud Date 11/01/2018		
Depth to Grou		 . !	Distar	nce from nearest fre		`	Distance	to nearest surfactions (SHEEP DRANGE)	e water		
XWe will b	e using a c	closed-loop	system in lieu of	-	ing and Cement	Program	_				
Type	Hole	e Size	Casing Size	Casing Weig	tht/ft Set	ting Depth	Sacks of C	Cement	Estimated TOC		
SURF	17.	5"	13.375"	48#	1	600	570		0		
INTER	-	2.25"	9.625"	40#		8500	1810		0		
LINER	8.7	75"	7.625"	39#		12225	280		8200		
					gram: Additiona ELLBORE DIAG		S				
					*						
			1		vout Prevention	evention Program					
	Туре		SEE ATTA	Vorking Pressure		Test Pressure		Manufacturer			
	<u> </u>		J GEE TITT	CINICIVI							
best of my kn	owledge an	d belief.	n given above is tr			OIL	CONSERVAT	TION DIVIS	SION		
19.15.14.9 (B) NMAC [(A) NMAC LA A	Approved	y ay	mond I	v. Sodi	o Buy		
Printed name	: JENN	IFER ELR	OD		Title:	Gieo	10912+	1			
Title: SR.		ATORY TE			Approved	i Date: 多つ	29-18 E	xpiration Date:	8-29-20		
E-mail Addre		od@chishol	menergy.com						C 12.0		
Date: 08/27	7/2018		Phone: 817-9	953-3728	Condition	Conditions of Approval Attached APProved C-108					

NM OIL CONSERVATION ARTESIA DISTRICT

AUG 27 2018

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

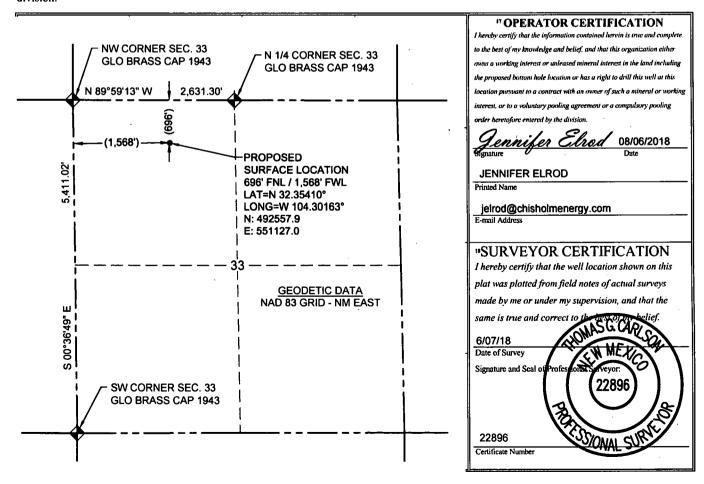
Form C-102

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	15-4	5219		* Pool Code 97869		" Pool Name SWD; DEVONIAN-SILURIAN				
Property	Code		•		⁵ Property Na	me		6 W	ell Number	
i <i>Sa</i> aa	95 I			G	ILLOCK - BROW	IN SWD			1 .	
⁷ OGRID	No.				⁴ Operator Na	те		,	Elevation	
320495	·372	,03		3BE	AR FIELD SER	VICES, LLC			3297'	
					" Surface Lo	ocation				
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County	
С	33	228	26E		696	NORTH	1,568	WEST	EDDY	
			" Bott	om Hole	Location If I	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 Acre	s ¹³ Joint o	r Infill 14 Co	nsolidation C	ode 15 Orde	er 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.



Ref 8-29-18.

JDC Drilling Company, LLC

RIG NO. 7

Annular Preventer 13-5/8 5,000 PSI WP

Ram Preventers 13-5/8" 10,000 PSI WP Double Ram 13-5/8" 10,000 PSI WP Single Ram

Test the pipe rams, blind rams, floor valves (IBOP and/or upper Kelly valve), choke lines and manifold to 250 psi/5,000 psi with a test plug and a test pump.

Test the annular to 250 psi/2,500 psi with same as above.

Submit 1 Copy To Appropriate District Office	State of New Mexico	Form C-103
<u>Eistrict 1</u> – (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283		30-015-45219
811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE S FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
87505		
(DO NOT USE THIS FORM FOR PROP	FICES AND REPORTS ON WELLS OSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A LICATION FOR PERMIT" (FORM NAMEOUS GONSER)	
1. Type of Well: Oil Well	Gas Well A Other SWD	8. Well Number 1
2. Name of Operator 3BEAR FIELD SERVICE	DES, LLC JAN 1 6 201	9. OGRID Number 372603
3. Address of Operator	RECEIVED	10. Pool name or Wildcat
4 Well Leasting		SWD; DEVONIAN-SILURIAN
4. Well Location Unit Letter C	: 182 feet from the NORTH line and	2172 feet from the WEST line
Section 33	Township 22S Range 26E	NMPM EDDY County
Section 33	11. Elevation (Show whether DR, RKB, RT, GR,	
	3285	
12. Check	Appropriate Box to Indicate Nature of Noti	ice, Report or Other Data
NOTICE OF I	NTENTION TO: S	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		_
TEMPORARILY ABANDON L	=	DRILLING OPNS. P AND A
PULL OR ALTER CASING DOWNHOLE COMMINGLE		MENT JOB L
CLOSED-LOOP SYSTEM		
OTHER:	OTHER:	
13. Describe proposed or com	npleted operations. (Clearly state all pertinent details	s, and give pertinent dates, including estimated date
	work). SEE RULE 19.15.7.14 NMAC. For Multiple	e Completions: Attach wellbore diagram of
proposed completion or re **LOCATION CHANC	•	
LOCATION CHANC	JE -	
FROM: 696 FNL/1568		
TO: 182 FNL/2172 FW		
C-102 Attached		
0.		at he house
VIIAALA	into: Will can	
runer		• 🖋
11.11.1	INA IN ADDITION	
www c	ote: Well can	
		
Spud Date:	Rig Release Date:	
I hereby certify that the informatio	on above is true and complete to the best of my know	vledge and belief.
SIGNATURE Gennifer	Elrod TITLE SR. REGULATOR)	Y TECH DATE 01/15/2019
0 0		icholmeneray.com DLIONE. 917-053-2729
Type or print name <u>JENNIFER E</u> For State Use Only	ELROD E-mail address: jelrod@ch	isholmenergy.com PHONE: 817-953-3728
		A M 1C
APPROVED BY: Saymond	Windowy TITLE GOODGIST	DATE 2-7-19,
Conditions of Approval (if any):	<i>(</i>	

NM OIL CONSERVATION ARTESIA DISTRICT

JAN 16 2019

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

District II 811 S. First St., Arresia, NM 88210 Phone: (\$75) 748-1283 Fax: (\$75) 748-9720 District III 1000 Rio Brazos Road, Artes: 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-102

Energy, Minerals & Natural Resources Department RECEIVED Revised August 1, 2011 **OIL CONSERVATION DIVISION**

District Office

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

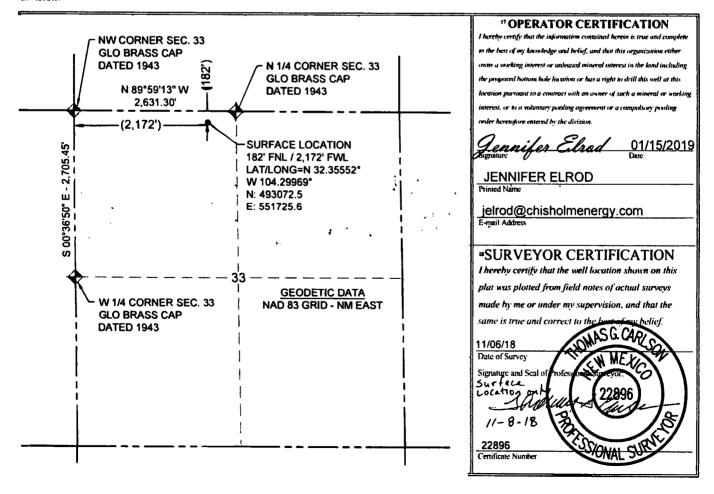
AMENDED REPORT SHL CHANGE

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	² Pool Code	3 Pool Name	RIAN
30-015-45219	97869	SWD; DEVONIAN-SILUI	
Property Code 322295	·	erty Name BROWN SWD	* Well Number
⁷ OGRID No.		ator Name	* Elevation
372603		SERVICES, LLC	3285'
	" Surfa	ce Location	··· ·

						, 			
UL or let no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
NW 1/4 C	33	225	26E		182	NORTH	2,172	WEST	EDDY
		ā.	" Bot	tom Hole	Location If I	Different From	Surface		
UL or lot po.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	13 Joint o	r lefill 4 C	onsolidation C	ode 15 Orde	r No.			<u>.</u>	
	ı			1					

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.



RW 2-7-19

AUSTIN - HOUSTON - WICHITA - DENVER - CALGARY

DETERMINATION AND NOTICE OF AFFECTED PARTIES – NEW MEXICO

If an operator or mineral lessee has legal acreage or leases within one mile of the proposed salt water disposal well, their contact information is collected for notification purposes. Legal acreage of offset operators is gathered from the New Mexico Oil Conservation District's Permitting website. Minerals leased from the federal government are determined by referencing the Bureau of Land Management's Land and Mineral System Reports database. Minerals leased from the state government are determined by referencing the New Mexico State Land Office's Data Access database. Contact information for the affected parties is then extracted from the reports that were filed with the appropriate regulatory agency. Should any private minerals that are not public information fall within the one-mile radius, a title search was performed to discover the current lessee of those minerals or identifying the mineral owner of the acreage.

Notices were sent for the Gillock-Brown SWD No. 1 application by mailing them a copy of Form C-108 on 7/11/2019. The individual tracking numbers are attached in the following pages of this application. Receipt of each application will be monitored and presented to the Oil Conservation Division upon request.

Tyler Moehlman

Petroleum Engineer

3Bear Field Services, LLC Project:

Gillock-Brown SWD No. 1



9314 8699 0430 0061 0943 87

RETURN RECEIPT (ELECTRONIC)

բոխդիկիոգՈՈւիՈՈւթյայիներիթեուկյիկիկիլի

Total Postage: \$6.55

MEWBOURNE OIL CO 500 W TEXAS ST #1020 MIDLAND, TX 79701



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CHISHOLM ENERGY AGENT INC 801 CHERRY ST STE 1200 UNIT 20 FORT WORTH, TX 76102



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JETSTREAM NEW MEXICO LLC PO BOX 471396 FORT WORTH, TX 76147



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Total Postage: \$6.55

CHISHOLM ENERGY OPERATING LLC 801 CHERRY STREET FORT WORTH, TX 76102



9314 8699 0430 0061 0944 24

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Total Postage: \$6.55

WELLS FARGO BANK N.A. NORMA B WILEY TRUST B PO BOX 1959 MIDLAND, TX 79702



9314 8699 0430 0061 0944 31

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լիկլիկակվույլինի ինկովորնուկնի կլիննի

Total Postage: \$6.55

KIMBERLEY ANN CALVERT 1360 LEMMERS RD CASPER, WY 82601



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րկիրնիիՈնիՍկինիսկոնիիսիՍիսկորբյուինիկիկ

Total Postage: \$6.55

WPX ENERGY PERMIAN LLC 3500 ONE WILLIAMS CENTER TULSA, OK 74172



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-գիհՈվիդիկերի գրիկին անգույն վերեկումին

Total Postage: \$6.55

OXY USA INC PO BOX 4294 HOUSTON, TX 77210



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յուրՄիօլիիիննուՄիիլՈՈւրՄոյրկոլիվիիրիին

Total Postage: \$6.55

MEWBOURNE OIL CO PO BOX 5270 HOBBS, NM 88241



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Total Postage: \$6.55

DOMINION OK TX EXPL & PROD INC 14000 QUAIL SPGS PKY #600 OKLAHOMA CITY, OK 73134



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ույիթայիկիկյիլերկիրդիկիկինիներբակի

Total Postage: \$6.55

OCCIDENTAL PERMIAN LP 5 E GREENWAY PLAZA #110 HOUSTON, TX 77046



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Total Postage: \$6.55

PETRUS MGT 12201 MERRIT DR #900 DALLAS, TX 75251



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- Ունագիկանի իրելի իրելի անկին հանգիսի հայուկ

Total Postage: \$6.55

OXY USA INC PO BOX 27570 HOUSTON, TX 77227



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PENROC OIL CORP 1515 W CALLE SUR ST STE 174 HOBBS, NM 88240



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Total Postage: \$6.55

DESERT PRODUCTION INC PO BOX 351 MIDLAND, TX 79702



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Total Postage: \$6.55

POGO RESOURCES LLC 4809 COLE AVE STE 106 DALLAS, TX 75205



9314 8699 0430 0061 0945 47

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Total Postage: \$6.55

MERIT ENE MGT PARTNERS I, II, III, VII 13727 NOEL RD #500 DALLAS, TX 75240



9314 8699 0430 0061 0945 54

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Արգիլեիներիիիկինիկեններինընկություններ

Total Postage: \$6.55

MERIT ENERGY PTNRS 13727 NOEL RD #500 DALLAS, TX 75240



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րվիննիկներվիիիցությունըովիուկնինիկիկի

Total Postage: \$6.55

CHEVRON USA INC 6301 DEAUVILLE MIDLAND, TX 79706



9314 8699 0430 0061 0945 78

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մեկիդդիմկումկինկիկիկիկուկիկորկերի

Total Postage: \$6.55

PXP PRODUCING CO LLC 717 TEXAS ST STE 2100 HOUSTON, TX 77002



9314 8699 0430 0061 0945 85

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գլլինգիժիմինիկիիիկիններըիցինինին

Total Postage: \$6.55

GILLOCK, WILLIAM F JR & BROWN, BONNIE M K/S 159 GILLOCK ROAD CARLSBAD, NM 88220

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.	Application qualifies for administrative approval? Pressure Maintenance X Disposal Storage X Yes No
II.	OPERATOR: 3Bear Field Services, LLC
	ADDRESS: 415 W. Wall St., Suite 1212
	CONTACT PARTY: Kevin Burns PHONE: 432-686-2973
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: Steve Pattee TITLE: Consulting Engineer – Agent for 3Bear Field Service
	SIGNATURE:
*	E-MAIL ADDRESS: ramona@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: 3Bear Field Services, LLC

WELL NAME & NUMBER: Gillock-Brown SWD No. 1

WELL LOCATION:

182' FNL & 2,172' FWL FOOTAGE LOCATION

WELLBORE SCHEMATIC

 $\frac{C}{\text{UNIT LETTER}}$

 $\frac{33}{\text{SECTION}}$

 $\frac{22S}{\text{TOWNSHIP}}$

<u>26E</u> RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.500"

Cemented with 570 sacks.

Top of Cement: surface

Casing Size: 13.375".

or m3

Method Determined: circulation

Intermediate Casing

Cemented with 1,810 sacks.

Hole Size: 12,250"

Top of Cement: surface

or ft3

Casing Size: 9.625"

Method Determined: circulation

Liner

Casing Size: 7.625"

Cemented with 280 sacks.

Hole Size: 8.750"

Top of Cement: 8,200' Total Depth: 13,345?

Method Determined: circulation

Injection Interval

12.225 feet to 13.345 feet

(Open Hole)

Side 2

INJECTION WELL DATA SHEET

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12,175	
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5" 20 lb/ft HCL-80, BTC from 0"	,
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Lubing Size: 55	į
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Lining Material: Duoline

Type of Packer: 7-5/8" X 5-1/2" Permanent Packer with High Temperature Elastomer and Full Inconel 925 Trim

Packer Setting Depth: 12,175

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

Additional Data

Yes If no, for what purpose was the well originally drilled? Is this a new well drilled for injection?

 $^{\circ}$

Name of the Injection Formation: Devonian, Fusselman, તં

Name of Field or Pool (if applicable): SWD; Devonian-Silurian (Pool Code: 97869)

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. 4

No. new drill.

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

Bone Spring: 4,950'

Wolfcamp: 8,500'

Strawn: 10,075'

Morrow: 11,000

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 NM OIL CONSERVATION

Oil Conservation Division

ARTESIA DISTRICE AMENDED REPORT

1220 South St. Francis Dr.

AUG 27 2018

Santa Fe, NM 87505

							RECE		
<u>APPLI</u>	CATIC	:	Operator Name a BEAR FIELD S IS12 LARIMER	and Address ERVICES, LLC ST., SUITE 540	RE-ENTER, D	<u>EEPEN,</u>		² OGRID Number 320495	772 603
^q . Prop	erty Goda		DENVER, CO 8	J. [Property Name		্র	0.015.4	152/9
	Sad	<u> </u>	· .	GILLO	CK-BROWN SWD			<u>``ĭ</u>	i No.
	,	I			face Location	<u>.</u>			
UL - Lot C	Section 33	Township 22S	Range 26E	Lot Idn		N/S Line NORTH	Feet From 1568	E/W Line WEST	County EDDY
				* Proposed	Bottom Hole Lo				
UL - Lot	Section	Township	Range	Lot Idn	T	N/S Line	Feet From	E/W Line	County
			·	9. Poo	l Information				
				Pool No SWD; DEVC	ame NIAN-SILURIAN				Pool Code 97869
				Additional	l Well Informatio	n			
N			^{12.} Well Type S		13. Cable/Rotary R	14	Lease Type P		nd Level Elevation 3297
YE			17. Proposed Depth 13,345'		URO-DEVONIAN		9 Contractor NABORS	1	Spud Date 1/01/2018
Depth to Grou	ind water 87'		Distar	nce from nearest fre	esh water well	ater well Distance to nearest surface water 760' (SHEEP DRAW)			ater
Type	<u> </u>	e Size	21. Casing Size	•	ing and Cement P	rogram	Sacks of C	ement	Estimated TOC
SURF	17.		13.375"	48#	16		570	CHICIE	0
INTER	12	2.25"	9.625"	40#		500	1810		0
LINER	8.7	75"	7.625"	39#	1:	2225	280		8200
			Casin	g/Cement Pro	gram: Additional	Comments	s	· · · · · · · · · · · · · · · · · · ·	
<u> </u>			PLEASE SEE	ATTACHED W	ELLBORE DIAGR	AM			
			22.	Proposed Blow	vout Prevention P	rogram			
	Туре		v	Vorking Pressure		Test Press	sure	Man	ufacturer
			SEE ATTA	CHMENT					
best of my kn	owledge an	id belief.		ue and complete to		OIL (CONSERVAT	ION DIVISI	ON
19.15.14.9 (B) NMAC [A if applications of the complete of the compl	ble.	(A) NMAC 🔀 a	Approved	Jay	mond H	r: Soda	w
Printed name:	JENN	IFER ELRO)D		Title:	Cido.	10912+	1	
Γitle: SR.	REGULA	ATORY TE	СН		Approved I	Date: 8-2	29-18 Ex	piration Date: 8	7-29-20
E-mail Addre	ss: jelro	od@chishol	nenergy.com						
Date: 08/27/2018 Phone: 817-953-3728					Conditions	of Approval A	Attached APP	roved	C-108

NM OIL CONSERVATION ARTESIA DISTRICT

AUG 27 2018

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

Energy, Minerals & Natural Resources Department RECEIVED Revised August 1, 2011

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

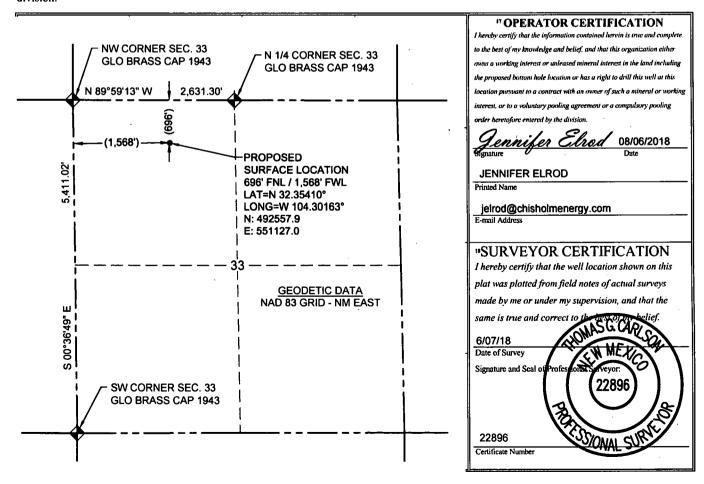
Submit one copy to appropriate

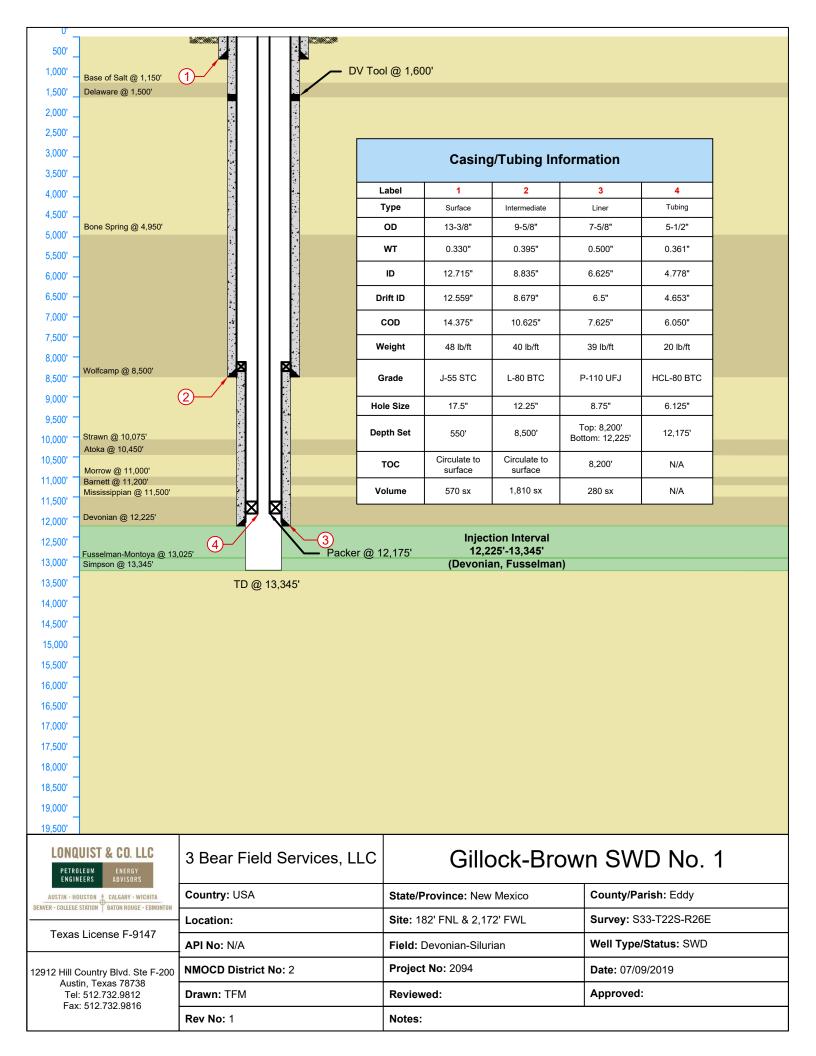
District Office

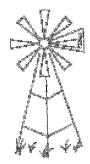
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	15-4	5219		² Pool Code 97869	•	3 Pool Name SWD; DEVONIAN-SILURIAN				
	Property Code 5 Property Name 6 Well Number							Vell Number		
1 3222	95 I				GILLOCK - BRO	WN SWD			1 .	
⁷ OGRID	No.	0			4 Operator N	Name .			Elevation	
320495	-312	603		38	BEAR FIELD SEF	RVICES, LLC			3297'	
	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	
С	33	228	26E		696	NORTH	1,568	WEST	EDDY	
			" Bo	ttom Ho	le 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	
							1			
12 Dedicated Acre	es ¹³ Joint o	r Infill 14 Co	onsolidation	Code 15 Or	rder 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.







ZEIGLER GEOLOGIC CONSULTING, LLC 13170 Central Ave. SE, Suite B #137 Albuquerque, NM 87123 zeiglergeo@gmail.com; zeiglergeo.com (505) 263.5448 (575) 207.7826

For: 3Bear Energy, LLC

415 W. Wall St., Suite 1212

Midland, TX 79701

August 7, 2018

Re: Gillock-Brown SWD #1, Eddy County, New Mexico

With regards to the Gillock-Brown SWD #1 well, located in unit letter C, section 33, T22S, R26E (NM Prime Meridian) in Eddy County, the nearest documented basement-penetrating fault is located approximately 26 miles southwest of the well's location. Available geologic and engineering data has been examined and suggest no evidence of faults in proximity to the well, nor hydrological connection between the proposed injection zone and any freshwater aquifers utilized for domestic, municipal or livestock water resources.

Sincerely,

Kut Zigh

Kate Zeigler, Ph.D., CPG (AIPG #11803)

Geologist



Gillock-Brown SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information			
Lease Name Gillock-Brown SWD			
Well No.	1		
Location	S-33 T-22S R-26E		
Footage Location	182' FNL & 2,172' FWL		

2.

a. Wellbore Description

Casing Information						
Туре	Surface	Intermediate	Liner			
OD	13.375"	9.625"	7.625"			
WT	0.330"	0.395"	0.500"			
ID	12.715"	8.835"	6.625"			
Drift ID	12.559"	8.679"	6.500"			
COD	14.375"	10.625"	7.625"			
Weight	48 lb/ft	40 lb/ft	39 lb/ft			
Grade	J-55 STC	HCL-80 BTC	P-110 UFJ			
Hole Size	17.5"	12.25"	8.75"			
Depth Set	550'	8,500'	8,200'-12,225'			

b. Cementing Program

Cement Information						
Casing String	Surface	Intermediate	Liner			
Lead Cement	Class C	Class C	Class H			
Lead Cement Volume	-	Stage 1: 1,145 sks Stage 2: 375 sks	100 sks			
Lead Cement Density	-	Stage 1: 12.7 ppg Stage 2: 12.9 ppg	12.7 ppg			
Tail Cement	Class C	Class C	Class H			
Tail Cement Volume	570 sks	Stage 1: 145 sks Stage 2: 375 sks	180 sks			
Tail Cement Density	14.8 ppg	Stage 1: 14.8 ppg Stage 2: 14.8 ppg	14.5 ppg			
Total Sacks	570 sks	1,810 sks	280 sks			
тос	Surface	Stage 1: 1,600' Stage 2: Surface	8,200′			
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface			

3. Tubing Description

Tubing Information			
OD	5.5"		
WT	0.361"		
ID	4.778"		
Drift ID	4.653"		
COD	6.050"		
Weight	20 lb/ft		
Grade	HCL-80 BTC		
Depth Set	0-12,175'		

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5-1/2" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

B. Completion Information

1. Injection Formation: Devonian, Fusselman

2. Gross Injection Interval: 12,225'-13,345'

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
Bone Spring	4,950'
Wolfcamp	8,500'
Strawn	10,075'
Morrow	11,000′

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: 20,000 BPD Maximum Volume: 25,000 BPD

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

Average Injection Pressure: 1,834 PSI (surface pressure) Maximum Injection Pressure: 2,445 PSI (surface pressure)

- 4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Artesia formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Artesia, Bone Spring, Delaware, Grayburn/San Andreas, Morrow, Pennsylvanian, and Strawn formations.
- 5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

Devonian Formation Lithology:

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.

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

A. Injection Zone: Devonian-Silurian Formation

Formation	Depth
Base of Salt	1,150′
Delaware	1,500′
Bone Spring	4,950′
Wolfcamp	8,500′
Strawn	10,075′
Atoka	10,450′
Morrow	11,000′
Barnett	11,200′
Mississippian Lime	11,500′
Devonian	12,225'
Fusselman	13,025′

B. Underground Sources of Drinking Water

Eleven (11) water wells exist within the proposed well. Water wells have an average depth of 142 feet. Across the one-mile radius, fresh water wells are usually drilled between 100' and 505' in depth. The Rustler is known to exist in this general area and may also be another USDW and will be protected by setting surface casing at 550' before the Salado salt to prevent contamination of the aquifer.

IX. Proposed Stimulation Program

No stimulation program planned.

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

Attached is a map of the eleven (11) water wells that exists within one-mile of the well location. Samples from the well are being obtained by Cardinal Laboratories and will be reported to the Oil Conservation Division as soon as a report is received. Water right summaries are attached for all wells.