

Initial Application Part I

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

Revised March 23, 2017

RECEIVED: 3/05/2019	REVIEWER:	TYPE: SWD	APP NO: PMAM19064 54670
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: Mewbourne Oil CompanyOGRID Number: 14744Well Name: Silver Bullet 16 SWD #1API: 30-015-pendingPool: SWD; DEVONIANPool Code: 96101

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

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

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

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

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

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

☐ WFX☐ PMX☒ SWD☐ IPI☐ EOR☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required

FOR OCD ONLY

☐

Notice Complete

☐Application
Content
Complete

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

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

Timothy R. Harrington

Print or Type Name

Timothy R. Harrington

Signature

February 28, 2019

Date

903-534-7647

Phone Number

tharrington@mewbourne.com

e-mail Address



February 28, 2019

New Mexico Oil Conservation Division
Engineering Bureau
Attn: Mr. Phillip Goetze
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: C-108 Application for SWD Well
Silver Bullet 16 SWD #1
1980' FSL & 275' FEL, Unit I
Section 16, Township 26 South, Range 29 East
Eddy County, New Mexico

Dear Mr. Goetze:

Attached is a C-108 Application for administrative approval of Mewbourne Oil's proposed Silver Bullet 16 SWD #1 located in Sec 16, Twp 26S, Rge 29E, N.M.P.M., Eddy County, New Mexico. This well will be completed open hole in the Devonian formation and will be operated as a private salt water disposal well.

Similar application exhibits were sent to offset operators, mineral owners, offsetting lessees and the surface owner (distribution list attached) and confirmations of receipt will be e-mailed to you later this week. The public notice of this application was published in the Carlsbad Current-Argus on February 20th and an Affidavit of Publication is enclosed.

Should you have any questions, please contact us at (903) 534-7647.

Sincerely yours,

MEWBOURNE OIL COMPANY

A handwritten signature in dark ink, appearing to read 'Tim R. Harrington', is written over a light blue rectangular background.

Tim Harrington
Reservoir Engineer
tharrington@mewbourne.com

MEWBOURNE OIL COMPANY
SILVER BULLET 16 SWD #1
SWD PERMIT APPLICATION

LIST OF ATTACHMENTS:

Administrative Checklist

Form C-108

Silver Bullet 16 SWD #1 well schematic

Silver Bullet 16 SWD #1 survey plat

Well Plat

Tabulation of wells within 1 mile radius (NOTE: no wells currently penetrate the Devonian)

Fresh Water well map

Tabulation of nearby fresh water wells – (Source: NM Office of the State Engineer)

Fresh Water Well Water Analysis – SW/4 Sec 2, Twp 26S, 29E – submitted in Solaris Eddy State SWD application

Producing Well Water Analysis – Avalon, Wolfcamp, & 2nd Bone Spring

Offset Operator Map

Listing of Notified Persons

Affidavit of Publication – Carlsbad Current-Argus

Hydrologic Affirmation

Seismicity Statement

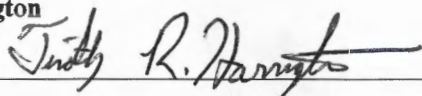
Historical Seismicity and Devonian SWD Offset Map

Fault Map and Distance to Offsetting Devonian SWD Wells

Geological Cross Section

Plugging Assessment

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: **Mewbourne Oil Company**
ADDRESS: **3620 Old Bullard Road**
Tyler, TX 79701
CONTACT PARTY: **Tim Harrington** PHONE: **903-534-7647**
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: **Tim Harrington** TITLE: **Reservoir Engineer**
SIGNATURE:  DATE: 2/28/2019
E-MAIL ADDRESS: **tharrington@mewbourne.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: Mewbourne Oil Company

WELL NAME & NUMBER: Silver Bullet 16 SWD #1

WELL LOCATION: 1980' FSL & 270' FEL

FOOTAGE LOCATION	UNIT LETTER	16	SECTION	26S	TOWNSHIP	29E	RANGE
<u>WELL CONSTRUCTION DATA</u>							
<u>Surface Casing</u>							
Hole Size: 26"							
							Casing Size: 20" (94 & 106.5 #) @ 550'
Cement with: 1055 sx (100% excess)							Top of Cement: Surface
<u>Intermediate Casing</u>							
Hole Size: 17 1/2"							Casing Size: 13 3/8" (61 & 68#) @ 2,875'
Stage 1: 1360 sx (25% excess)							Top of Cement: Surface (Calculated)
<u>Production Casing</u>							
Hole Size: 12 1/4"							Casing Size: 9 5/8" (40 & 43.5#) @ 9,925'
Stage 1: 1475 sx							Top of Cement: Surface (Calculated)
Stage 2: 700 sx							DV Tool @ 2,925'
							Top of Cement: Surface (Calculated)
<u>Production Liner</u>							
Hole Size: 8 1/2"							Casing Size: 7 5/8" (39#)
							Top @ 9,725'
							Bottom @ 15,350'
Cement with: 450 sx (25% excess)							Top of Cement: 9,725'
							(Proposed: circulated to liner top)

WELLBORE SCHEMATIC (See Attached)

TD @ 16,650'

Permitted Injection Interval 15,350' - 16650'

INJECTION WELL DATA SHEET

Tubing Size: 7" x 5 1/2" Lining Material: **Duoline**
 7", P110 UFJ GB to approximately 9,800'
 5 1/2", P110 UFJ GB to 15,270'

Type of Packer: 3 1/2" x 7 5/8" Model R Packer (Inconel)

Packer Setting Depth: +/- 15,270'

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

Additional Data

1. Is this a new well drilled for injection? **Yes**
 If no, for what purpose was the well originally drilled? **NA**
2. Name of the Injection Formation: **Devonian - Open Hole Completion**
3. Name of Field or Pool (if applicable): **96101 SWD; Devonian**
4. Has the well ever been perforated in any other zone(s)? **No.**
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
 Overlying potentially productive zone tops – **Delaware (2,950'), Bone Spring (6,650'), Wolfcamp (9,825'), & Morrow (12,125')**
 Underlying producing zone – **N/A**

SILVER BULLET 16 SWD #1
Additional Details

- VI.** There are no wells penetrating the disposal formation within the area of review.
- VII.**
1. Proposed average rate of 30,000 bwpd and maximum rate of 50,000 bwpd.
 2. Non-commercial SWD (closed system).
 3. Proposed average injection pressure is unknown and the maximum injection pressure is approximately 3,070 psi (0.2 psi/ft x 15,350 ft).
 4. This well is being permitted as a private SWD, therefore all the injected fluid will be formation water from Mewbourne Oil Company operated wells currently producing or planned in the area. Representative water samples from the Avalon, Wolfcamp and Bone Spring formations are attached.
 5. We will be injecting into the Devonian formation. Devonian formation water is known to be compatible with the formation water of the Delaware, Bone Spring and Wolfcamp. No Devonian water analysis are available within the immediate area. The following data is the closest produced water analysis that is available on the USGS

IDUSGS	IDORIG	IDDB	SOURCE	LATITUDE	LONGITUDE	API	COUNTY	FIELD	WELLNAME	TOWNRANGE	
35292	30000310	USGSBREIT	Pan American Petroleum Corporation	32.183	-103.7766	30015108590000	Eddy	Poker Lake South	Poker Lake Unit #36	S 24 E 31 28	
DATESAMPLE	METHOD	FORMATION	DEPTHUPPER	DEPTHLOWER	SG	SPORAV	RESIS	RESIST	PH	TDSUSGS	TDS
1967-04-06	Separator	Devonian	16578	16660	1.086	1.086	0.067	77	6.6	120326	120326

- VIII.**
1. The proposed injection interval is within the Devonian formation which is a porous dolomitic limestone from 15,350' to 16,650'. It is estimated that the base of the injection interval should be approximately 750' above the top of the Ellenburger.

Other Projected Formation Tops:

Mississippian	15,050'
Woodford	15,250'
Devonian	15,350'
EST TOTAL DEPTH	16,650'
Montoya	16,900'
Simpson	17,200'
Ellenburger	17,400'

2. The underground fresh water aquifers (unnamed) are present at shallow depths <110' (per review of well records on the NM Office of the State Engineers website). There are no known fresh water intervals underlying the injecting formation.
- IX.** The proposed stimulation is an open-hole acid treatment of 30,000 gallons of 15% HCL.
- IX.** A gamma-ray / neutron log will be run from TD to surface upon the drilling and completion of proposed well.

- X.** There was one well on file with the NM State Engineers Office within 1 mile of the proposed SWD well and several wells within 2 miles, but we could not find the wells or were unable to secure a sample. A fresh water sample taken from a well located in Section 2, Twp 26S, Rge 29E, and submitted by Solaris in their Eddy State SWD application is attached.
- XI.** Mewbourne Oil Company has examined geologic and engineering data and has found that there is no evidence of faulting between the proposed disposal zone and any underground sources of drinking water. A signed affidavit is attached.
- XII.** See attached Proof of Notice

Mewbourne Oil Company

Well Name: Silver Bullet 16 SWD #1
Spud: 2019

Last Updated by S. Puryear: 03/01/2019

20" 94 & 106.5# J-55 BTC
Set @ 550'
Cmt w/ 1055 sx

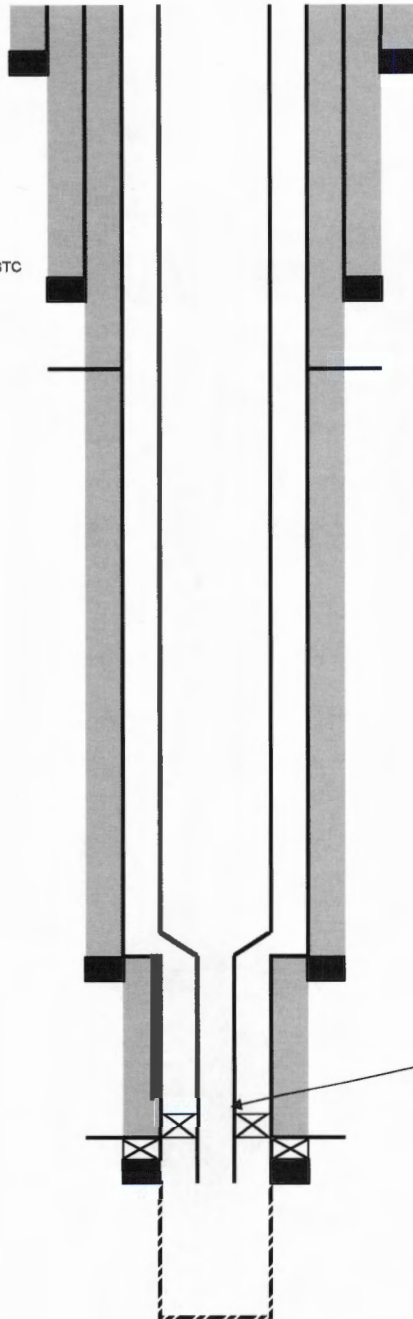
13 3/8" 54.5#, 61# & 68# J55 & HCL80 STC
Set @ 2875'
Cmt w/ 1360 sx

ECP/DV Tool @ 2925'
Cmt 2nd stg w/ 700 sx

9 5/8" 40# & 43.5 HCL80 LTC
Set @ 9925'
Cmt 1st stg w/ 1475 sx

7 5/8" 39# P-110 UFJ Liner
Set from 9725'-15,350'
Cmt w/ 450 sx

6 1/2" Open Hole
TD @ 16,650'



Injection String
7" P110 UFJ GB & 5 1/2" P110 UFJ GB
Inconel Pkr Set @ 15,270'

DV Tool @ 15,280'
External Csg Pkr Set @ 15,320'

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		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name SILVER BULLET 16 SWD			⁶ Well Number 1
⁷ GRID NO.		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 2929'

¹⁰ Surface Location

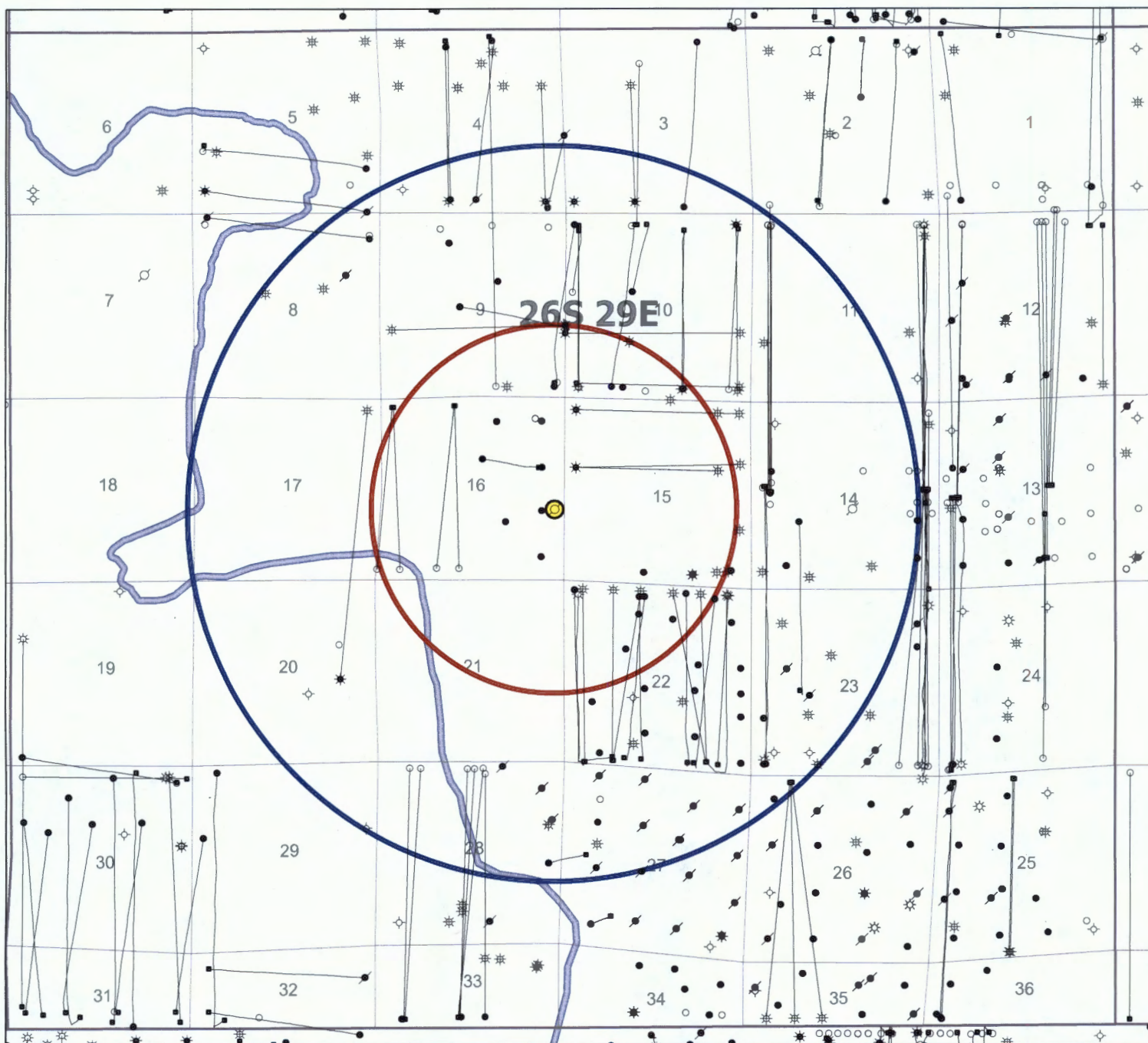
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
I	16	26S	29E		1980	SOUTH	275	EAST	EDDY

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 interest have been consolidated or a non-standard unit has been approved by the division.

© N 89°16'25" E 2652.15' D N 89°50'50" E 2667.46' E 16 CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1940" N: 376837.6 - E: 645175.0 B: FOUND BRASS CAP "1940" N: 379288.7 - E: 645345.4 C: FOUND BRASS CAP "1940" N: 381957.6 - E: 645352.8 D: FOUND BRASS CAP "1940" N: 381991.3 - E: 648004.2 E: FOUND BRASS CAP "1940" N: 381998.4 - E: 650671.1 F: FOUND BRASS CAP "1940" N: 376782.4 - E: 650623.1 G: FOUND BRASS CAP "1940" N: 376806.3 - E: 647898.7 GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 378764.7 - E: 650366.3 LAT: 32.0408159° N LONG: 103.9814589° W 275' S.L. 1980' N 00°09'32" E 2669.54' N 03°58'37" E 2457.53' N 89°20'32" W 2724.47' G N 89°29'45" W 2725.08' F		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. Signature _____ Date _____ Printed Name _____ 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. 02-01-2019 Date of Survey Signature and Seal of Professional Surveyor _____ 19680 Certificate Number LS19010148
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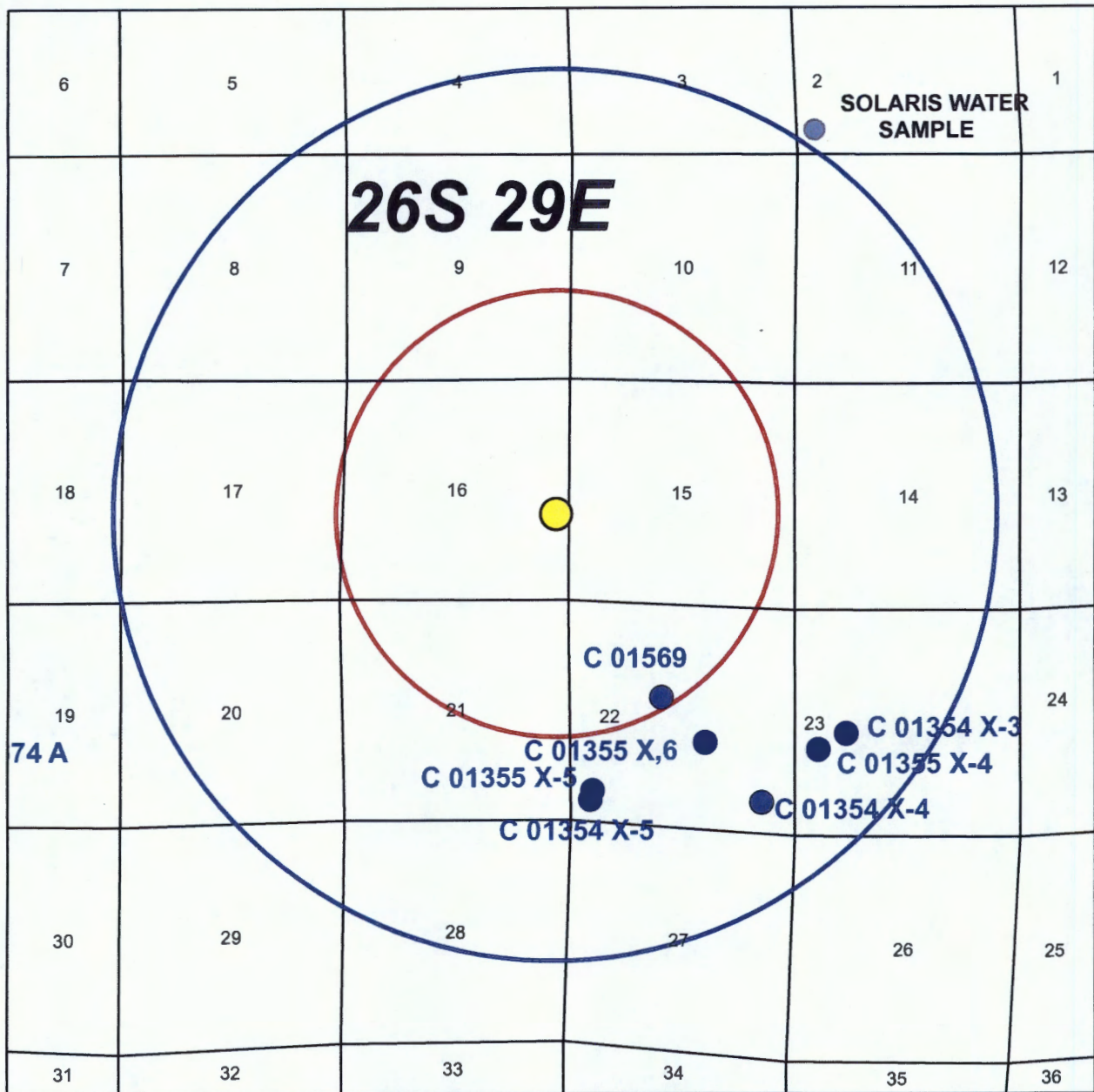
ONE MILE AOR

TWO MILE AOR

 Mewbourne Oil Company		
SILVER BULLET 16 SWD #001 EDDY CO. NEW MEXICO		
Author: Tim Harrington		Date: 5 February, 2019
Tech: sd	Scale: 1" = 4238'	Silver Bullet 16 SWD #1 map Exhibit 3.gmp

MEWBOURNE OIL COMPANY
PECOS RIVER SWD #1 APPLICATION
TABULATION OF WELLS WITHIN 1 MILE AREA OF REVIEW

Direction	API	Lease Name	Well Num	Operator Name	Current Operator	Sec	Typ	Range	Footage	Field Name	Status	IP Formation
V	30015256170000	DELTA FEE	1	TKO PRODUCTION CORPORATION	LEGACY RESERVES OPERATING LP	2	225	27E	660 FSL 660 FEL CONGRESS SECTION	CARLSBAD EAST	Active	WOLFCAMP
V	30015256980000	CHASE 2 STATE COM	1	SANTA FE ENERGY COMPANY	DEVON ENERGY PRODUCTION COMPANY L P	2	225	27E	990 FSL 1380 FWL CONGRESS SECTION	CARLSBAD EAST	Active	WOLFCAMP
V	30015328030000	CHASE 2 STATE COM	3	DEVON ENERGY OPERATING COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	2	225	27E	1310 FSL 1310 FWL CONGRESS SECTION	CARLSBAD EAST	SI	MORROW
V	30015328030001	CHASE 2 STATE COM	3	DEVON ENERGY OPERATING COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	2	225	27E	1310 FSL 1310 FWL CONGRESS SECTION	CARLSBAD EAST	Active	STRAWN
V	30015240270000	HILLGER	1	MENDENHALL R A ASSOC LIMITED	MENDENHALL R A ASSOC LIMITED	30	225	27E	1650 FSL 2240 FEL CONGRESS SECTION	ESPERANZA	P&A	MORROW
V	30015328100000	BUTTERFINGER FEDERAL COM	1	MARBOR ENERGY CORPORATION	COG OPERATING LIMITED LIABILITY CORP	30	225	27E	660 FSL 660 FEL CONGRESS SECTION	CARLSBAD SOUTH	Active	MORROW
V	30015331700000	BUTTERFINGER FEE COM	2	MARBOR ENERGY CORPORATION	COG OPERATING LIMITED LIABILITY CORP	30	225	27E	1380 FSL 660 FEL CONGRESS SECTION	CARLSBAD SOUTH	P&A	MORROW
V	30015331700001	BUTTERFINGER FEE COM	2	MARBOR ENERGY CORPORATION	COG OPERATING LIMITED LIABILITY CORP	30	225	27E	1380 FSL 660 FEL CONGRESS SECTION	TANISILL DAM	P&A	ATOKA
V	30015331700002	BUTTERFINGER FEE COM	2	MARBOR ENERGY CORPORATION	COG OPERATING LIMITED LIABILITY CORP	30	225	27E	1380 FSL 660 FEL CONGRESS SECTION	CARLSBAD SOUTH	P&A	STRAWN
V	30015331700003	BUTTERFINGER FEE COM	2	MARBOR ENERGY CORPORATION	COG OPERATING LIMITED LIABILITY CORP	30	225	27E	1380 FSL 660 FEL CONGRESS SECTION	CARLSBAD SOUTH	Active	Upper Penn
V	30015345140000	EDDY FEE	1	MARBOR ENERGY CORPORATION	COG OPERATING LIMITED LIABILITY CORP	30	225	27E	2310 FSL 1650 FEL CONGRESS SECTION	ESPERANZA	Active	DELAWARE
V	30015345620000	SKITTLES FEDERAL	2	MARBOR ENERGY CORPORATION	COG OPERATING LIMITED LIABILITY CORP	30	225	27E	1650 FSL 330 FEL CONGRESS SECTION	ESPERANZA	SI	DELAWARE
V	30015218850000	UNION FEDERAL	1	EASTLAND OIL COMPANY THE	MARBOR ENERGY CORPORATION	11	225	27E	1380 FSL 660 FWL CONGRESS SECTION	ESPERANZA	P&A	DELAWARE
V	30015218850000	UNION FEDERAL	2	MARBOR ENERGY CORPORATION	MARBOR ENERGY CORPORATION	11	225	27E	1380 FSL 330 FWL CONGRESS SECTION	ESPERANZA	P&A	DELAWARE
V	30015219100000	BASS	1	WESTERN OIL LIMITED	COG OPERATING LIMITED LIABILITY CORP	11	225	27E	1380 FSL 660 FEL CONGRESS SECTION	CARLSBAD EAST	Active	WOLFCAMP
V	30015259980000	CHASE 11 FEDERAL COM	1	SANTA FE ENERGY COMPANY	DEVON ENERGY PRODUCTION COMPANY L P	11	225	27E	1380 FSL 1750 FWL CONGRESS SECTION	CARLSBAD EAST	Active	WOLFCAMP LOWER
V	30015333500000	CHASE 11 FEDERAL COM	2	DEVON ENERGY PRODUCTION COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	11	225	27E	660 FSL 1460 FWL CONGRESS SECTION	CARLSBAD EAST	Active	MORROW
V	30015339540000	TELLTALE 11 FEDERAL COM	1	DEVON ENERGY PRODUCTION COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	11	225	27E	1340 FSL 1110 FWL CONGRESS SECTION	CARLSBAD EAST	Active	MORROW CLASTIC
V	30015344400000	PECOS RIVER 11	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	11	225	27E	1415 FSL 1380 FEL CONGRESS SECTION	CARLSBAD EAST	A	MORROW
V	30015248400001	DELTA FEE C	1	TKO PRODUCTION CORPORATION	LEGACY RESERVES OPERATING LP	12	225	27E	990 FSL 1380 FWL CONGRESS SECTION	CARLSBAD EAST	Active	WOLFCAMP
V	30015339470000	DELTA M 12 FEE	2	DEVON ENERGY PRODUCTION COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	12	225	27E	660 FSL 660 FWL CONGRESS SECTION	OTIS	Active	ATOKA
V	30015339470000	DELTA M 12 FEE	2	DEVON ENERGY PRODUCTION COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	12	225	27E	660 FSL 660 FWL CONGRESS SECTION	OTIS	Active	MORROW
V	300153470000	INDIAN DRAW 12 FEE COM	3	DEVON ENERGY PRODUCTION COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	12	225	27E	670 FSL 1370 FWL CONGRESS SECTION	CARLSBAD EAST	Active	MORROW LOWER
V	30015340760000	INDIAN DRAW 13 FEE	2	DEVON ENERGY PRODUCTION COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	12	225	27E	700 FSL 1660 FWL CONGRESS SECTION	OTIS	Active	MORROW
V	30015219100000	E J WALTERSCHEID	1	EASTLAND OIL COMPANY THE	EASTLAND OIL COMPANY THE	13	225	27E	330 FSL 950 FWL CONGRESS SECTION	ESPERANZA	P&A	WOLFCAMP
V	30015211700000	WALTERSCHEID	1	TKO PRODUCTION CORPORATION	MEWBOURNE OIL COMPANY	14	225	27E	1507 FSL 635 FWL CONGRESS SECTION	CARLSBAD EAST	Active	WOLFCAMP
V	30015211700000	DELTA FEE B	1	TKO PRODUCTION CORPORATION	MARATHON OIL COMPANY	14	225	27E	990 FSL 1380 FEL CONGRESS SECTION	CARLSBAD EAST	P&A	WOLFCAMP
V	30015211700000	DELTA FEE B	1	TKO PRODUCTION CORPORATION	MARATHON OIL COMPANY	14	225	27E	330 FSL 640 FEL CONGRESS SECTION	WILDCAT	P&A	WOLFCAMP
V	30015289910000	OTIS 14	1	ENERSTAR RESOURCES	ENERSTAR RESOURCES	34	225	27E	1380 FSL 660 FEL CONGRESS SECTION	CARLSBAD EAST	P&A	MORROW
V	30015376070000	OTIS 14	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	34	225	27E	1380 FSL 660 FEL CONGRESS SECTION	CARLSBAD EAST	Active	WOLFCAMP
V	30015376070001	OTIS 14	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	34	225	27E	1380 FSL 660 FEL CONGRESS SECTION	CARLSBAD EAST	Active	WOLFCAMP
V	30015376070002	OTIS 14	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	34	225	27E	1380 FSL 660 FEL CONGRESS SECTION	CARLSBAD EAST	Active	ATOKA
V	30015335090000	PECOS RIVER 14	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	34	225	27E	850 FSL 1650 FWL CONGRESS SECTION	OTIS	Active	MORROW
V	30015344280000	OTIS 14	2	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	34	225	27E	660 FSL 780 FEL CONGRESS SECTION	OTIS	Active	MORROW



Silver Bullet 16 SWD #1



1 MILE AOR



2 MILE AOR

Water Well information provided by
the N.M. Office of the State Engineer

 Mewbourne Oil Company		
SILVER BULLET 16 SWD # 1 APPLICATION AREA WATER WELL MAP EDDY, NEW MEXICO		
Author:		Date:
ad		6 February, 2019

MEWBOURNE OIL COMPANY

Silver Bullet 16 SWD #1 Application

Listing of Fresh Water Wells (NM Office of the State Engineer)

POD Number	POD Subba	County	q64	q16	q4	Sec	Tws	Rng	Lat	Long
C01354 X-3	CUB	EDDY	NE	NW	SW	23	26S	29E	32.026417	-103.958778
C01354 X-4	CUB	EDDY		SE	SE	22	26S	29E	32.021972	-103.965289
C01354 X-5	CUB	EDDY	SW	SW	SW	22	26S	29E	32.022222	-103.978528
C01354 X-6	CUB	EDDY		NW	SE	22	26S	29E	32.025887	-103.96965
C01355 X,6	CUB	EDDY		NW	SE	22	26S	29E	32.025887	-103.96965
C01355 X-3	CUB	EDDY		NW	SW	23	26S	29E	32.025382	-103.96093
C01355 X-4	CUB	EDDY		SE	SE	22	26S	29E	32.021972	-103.965289
C01355 X-5	CUB	EDDY		SW	SW	22	26S	29E	32.022818	-103.978346
C01569	C	EDDY	SE	SE	NW	22	26S	29E	32.028837	-103.972995
SP 00674 A	CUB	EDDY	NW	SW	SW	19	26S	29E	32.023673	-104.031038

Fresh

WATER

Sample

SW/4, Sec 2

Analytical Report

Lab Order 1608954

Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Reposada SWD #1

Project: Solaris Reposada SWD

Collection Date: 8/12/2016 11:15:00 AM

Lab ID: 1608954-001

Matrix: AQUEOUS

Received Date: 8/16/2016 12:48:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664A							
N-Hexane Extractable Material	ND	9.7		mg/L	1	8/22/2016 9:06:00 AM	27097
EPA METHOD 300.0: ANIONS							
Chloride	350	50	*	mg/L	100	8/17/2016 8:48:56 PM	R36593
SM2540C MOD: TOTAL DISSOLVED SOLIDS							
Total Dissolved Solids	1220	20.0	*	mg/L	1	8/20/2016 3:13:00 PM	27053

EXHIBIT G

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not in Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608954

29-Aug-16

Client: Permits West

Project: Solaris Resposada SWD

Sample ID: MB-27097	SampType: MBLK	TestCode: EPA Method 1664A								
Client ID: PBW	Batch ID: 27097	RunNo: 36688								
Prep Date: 8/22/2016	Analysis Date: 8/22/2016	SeqNo: 1136744 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10								

Sample ID: LCS-27097	SampType: LCS	TestCode: EPA Method 1664A								
Client ID: LCSW	Batch ID: 27097	RunNo: 36688								
Prep Date: 8/22/2016	Analysis Date: 8/22/2016	SeqNo: 1136745 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	40	10	40.00	.0	101	78	114			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 4

EXHIBIT G

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608954

29-Aug-16

Client: Permits West

Project: Solaris Resposada SWD

Sample ID: MB	SampType: mbik	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R36593	RunNo: 36593								
Prep Date:	Analysis Date: 8/17/2016	SeqNo: 1133301 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R36593	RunNo: 36593								
Prep Date:	Analysis Date: 8/17/2016	SeqNo: 1133302 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.3	90	110			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 3 of 4

EXHIBIT G

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608954

29-Aug-16

Client: Permits West

Project: Solaris Resposada SWD

Sample ID: MB-27053	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: PBW	Batch ID: 27053	RunNo: 36649
Prep Date: 8/18/2016	Analysis Date: 8/20/2016	SeqNo: 1135048 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val. %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	ND	20.0

Sample ID: LCS-27053	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: LCSW	Batch ID: 27053	RunNo: 36649
Prep Date: 8/18/2016	Analysis Date: 8/20/2016	SeqNo: 1135049 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val. %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	1030	20.0 1000 0 103 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix.
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 4

EXHIBIT G

MEWBOURNE OIL COMPANY

SILVER BULLET 16 SWD #1 PERMIT APPLICATION

TABULATION OF PRODUCED WATER ANALYSIS

Avalon Shale

Brushy Draw 1 Fed #1H

NOV 2 2011

Water analysis from 11/01/11: SG @ 1.165, Temp 70EF, pH 6.58, Na 74713, Ca 3600, Mg 480, Fe 10, CL 122000, SO₄ 250, HCO₃ 454 (all in Mg/L).

Second Bone Spring Formation

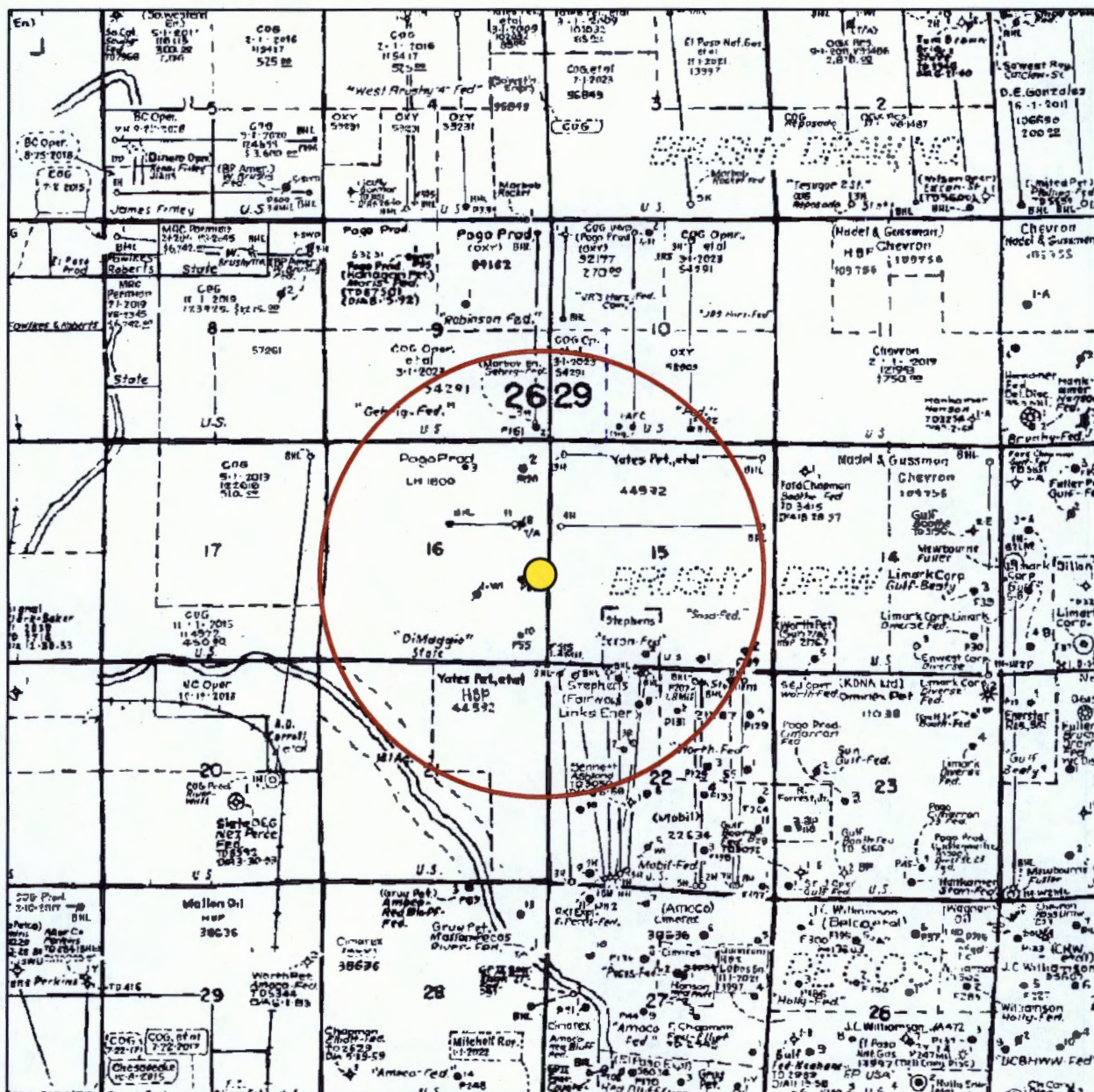
Zuma 3 B201AP – 42-301-32591

JUN 10 2016

Water analysis from 04/22/16: SG @ 1.063, Temp 60°, pH 6.30, Na 6900, Ca 8860, Mg 12037, Fe 14.0, CL 61700, SO₄ 25, HCO₃ 464 (all in Mg/L).

Wolfcamp Formation

Company	Lease	Well #	Frac Date	Sample Date	Days Since	pH	Temp Deg	H2S	Lab Chloride	Lab Total Iron	Lab TDS	Lab pH	Lab Specific Gravity 60°
Mewbourne Oil	FULLER 14/23 W2LM FED COM	2H	4/9/2018	9/7/2018	516	6.06	75	1.17	55,161	22.08	91,699	6.06	1.064
Mewbourne Oil	Fuller 14/23 W1IP Fed Com	1H	5/7/2018	11/15/2018	192	6.5	136	0.6	56,000	23.88	91,316	6.5	1.070
Mewbourne Oil	Fuller 14/11 W1HA Fed Com	2H	5/8/2018	11/15/2018	193	6.41	156	0.3	60,000	23.08	97,729	7.74	1.070
Mewbourne Oil	FULLER 14/23 W2IP Fed Com	4H	5/16/2018	11/30/2018	198	6.08	69.2	1.71	56,000	28.76	91,847	6.08	1.07
Mewbourne Oil	FULLER 14/23 W2HA Fed Com	3H	6/12/2018	11/30/2018	171	6.29	101.6	1.71	57,000	71.81	93,420	6.29	1.07



Silver Bullet 16 SWD #1



1 MILE AOR



Mewbourne Oil Company

SILVER BULLET 16 SWD #1 APPLICATION
SEC. 16, 26S-29E
EDDY, NEW MEXICO

Author:
sd

Date:
5 February, 2019

Listing of Notified Persons

Silver Bullet 16 SWD #1 Application
1980' FSL & 270' FEL
Section 16, T26S, R29E, Eddy County, NM

Surface Owner

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87504

Offsetting Operators Or Leasehold Owners Within 1 Mile

Section 09, 26S, 29E

EOG Y Resources, Inc.
104 S. 4TH Street
Artesia, NM 88201

COG Operating LLC
600 W. Illinois Ave
Midland, TX 79710

OXY USA Inc.
5 Greenway Plaza
Houston, TX 77046

Section 10, 26S, 29E

COG Operating LLC
600 W. Illinois Ave
Midland, TX 79710

OXY USA Inc.
5 Greenway Plaza
Houston, TX 77210

XTO Energy, Inc
6401 Holiday Hill Road
Building 5
Midland, TX 79707

Section 15, 26S, 29E

EOG Y Resources, Inc.
104 S. 4TH Street
Artesia, NM 88201

Stephens & Johnson Operating Company
811 Sixth Street
Suite 300
Wichita Falls, TX 76301

Section 16, 26S, 29E

COG Production, LLC
600 W. Illinois Ave
Midland, TX 79701

OXY USA Inc.
5 Greenway Plaza
Houston, TX 77046

Section 17, 26S, 29E

COG Operating LLC
600 W. Illinois Ave
Midland, TX 79710

Section 21, 26S, 29E

Marathon Oil Permian LLC
5555 San Felipe St.
Houston, TX 77056

EOG Y Resources, Inc.
104 S. 4TH Street
Artesia, NM 88201

Section 22, 26S, 29E

RKI Exploration & Production, LLC
3500 One Williams Center
Tulsa, OK 74172

Stephens & Johnson Operating Company
811 Sixth Street
Suite 300
Wichita Falls, TX 76301

XTO Energy, Inc
6401 Holiday Hill Road
Building 5
Midland, TX 79707

 Shipment Receipt

Transaction Date: 01 Mar 2019 Tracking Number: 1ZF698E80297309201

① ADDRESS INFORMATION

Ship To: CDE Operating LLC 800 W. 15th Ave MIDLAND TX 79701-4852	Ship From: Henderson Oil Company Elizabeth Shumaker 2901 S. Broadway TYLER TX 75701 Telephone: 9373612000	Return Address: Henderson Oil Company Elizabeth Shumaker 2901 S. Broadway TYLER TX 75701 Telephone: 9373612000
--	---	--

② PACKAGE INFORMATION

WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. Letter (Letter billable)	UPS Letter		

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service: Guaranteed By: Shipping Fees Subtotal: Transportation Fuel Surcharge	UPS 2nd Day Air End of Day Tuesday, Mar 5, 2019 21.34 USD 19.00 USD 1.44 USD
--	--

④ PAYMENT INFORMATION

Bill Shipping Charges to: Shipper's Account #0889

Shipping Charges:	21.34 USD
Subtotal Shipping Charges:	21.34 USD
Daily rates were applied to this shipment	
Total Charged:	21.34 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide (IG). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

https://www.campusship.ups.com/ship/create?ActionOriginPair=default___PrintWindowPage&key=receiptWindow&type=html&loc=en_US&inst=A&d... 1/1

 Shipment Receipt

Transaction Date: 01 Mar 2019 Tracking Number: 1ZF698E80297888989

① ADDRESS INFORMATION

Ship To: 2001 Y. Boulevard, Inc. 101 S. 4th Street ARTESIA NM 88213-1123	Ship From: Henderson Oil Company Elizabeth Shumaker 2901 S. Broadway TYLER TX 75701 Telephone: 9373612000	Return Address: Henderson Oil Company Elizabeth Shumaker 2901 S. Broadway TYLER TX 75701 Telephone: 9373612000
--	---	--

② PACKAGE INFORMATION

WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. Letter (Letter billable)	UPS Letter		

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service: Guaranteed By: Shipping Fees Subtotal: Transportation Fuel Surcharge Delivery Area Surcharge - Extended Package 1	UPS 2nd Day Air End of Day Tuesday, Mar 5, 2019 24.50 USD 19.00 USD 1.40 USD 3.00 USD
---	--

④ PAYMENT INFORMATION

Bill Shipping Charges to: Shipper's Account #0889

Shipping Charges:	24.50 USD
Subtotal Shipping Charges:	24.50 USD
Daily rates were applied to this shipment	
Total Charged:	24.50 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide (IG). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

https://www.campusship.ups.com/ship/create?ActionOriginPair=default___PrintWindowPage&key=receiptWindow&type=html&loc=en_US&inst=A&d... 1/1

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number
1ZF698E80297309201

Weight
0.00 LBS

Service
UPS 2nd Day Air®

Shipped / Billed On
03/01/2019

Delivered On
03/05/2019 4:05 P.M.

Delivered To
MIDLAND, TX, US

Received By
MMM

Left At
Front Desk

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,
UPS

Tracking results provided by UPS: 03/05/2019 5:07 P.M. EST

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number
1ZF698E80297888989

Weight
0.00 LBS

Service
UPS 2nd Day Air®

Shipped / Billed On
03/01/2019

Delivered On
03/05/2019 2:33 P.M.

Delivered To
ARTESIA, NM, US

Received By
VASQUEZ

Left At
Front Desk

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,
UPS

Tracking results provided by UPS: 03/05/2019 4:40 P.M. EST

 Shipment Receipt

Transaction Date: 01 Mar 2019

Tracking Number:

1Z7698E80295334660

① ADDRESS INFORMATION			
Ship To: Stephens & Johnson Operating Co 611 5th Street Suite 200 WICHITA FALLS TX 76701-2599	Ship From: Hankins & Company Elizabeth Shumaker 2901 S. Broadway TYLER TX 75701 Telephone: 936.561.1299	Return Address: Hankins & Company Elizabeth Shumaker 2901 S. Broadway TYLER TX 75701 Telephone: 936.561.1299	

② PACKAGE INFORMATION			
WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. Letter (Letter billable)	UPS Letter		

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS	
Service:	UPS 2nd Day Air
Shipping Fees Subtotal:	26.46 USD
Transportation	15.08 USD
Fuel Surcharge	1.38 USD

④ PAYMENT INFORMATION	
Bill Shipping Charges to:	Shipper's Account #58828
Shipping Charges:	26.46 USD
Subtotal Shipping Charges:	26.46 USD
Daily rates were applied to this shipment	
Total Charged:	26.46 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide (IG). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

https://www.campusship.ups.com/ship/create?ActionOriginPair=default__PrintWindowPage&key=receiptWindow&type=html&doc=en_US&inst=A&d... 1/1

 Shipment Receipt

Transaction Date: 01 Mar 2019

Tracking Number:

1Z7698E80296798257

① ADDRESS INFORMATION			
Ship To: CSC USA, Inc. 1 Commerce Plaza HOUSTON TX 77060-6528	Ship From: Hankins & Company Elizabeth Shumaker 2901 S. Broadway TYLER TX 75701 Telephone: 936.561.1299	Return Address: Hankins & Company Elizabeth Shumaker 2901 S. Broadway TYLER TX 75701 Telephone: 936.561.1299	

② PACKAGE INFORMATION			
WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. Letter (Letter billable)	UPS Letter		

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS	
Service:	UPS 2nd Day Air
Shipping Fees Subtotal:	26.46 USD
Transportation	15.08 USD
Fuel Surcharge	1.38 USD

④ PAYMENT INFORMATION	
Bill Shipping Charges to:	Shipper's Account #58828
Shipping Charges:	26.46 USD
Subtotal Shipping Charges:	26.46 USD
Daily rates were applied to this shipment	
Total Charged:	26.46 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide (IG). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z7698E80295334660

Weight

0.00 LBS

Service

UPS 2nd Day Air®

Shipped / Billed On

03/01/2019

Delivered On

03/04/2019 9:58 A.M.

Delivered To

WICHITA FALLS, TX, US

Received By

JANIE

Left At

Front Desk

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 03/05/2019 4:39 P.M. EST

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z7698E80296798257

Weight

0.00 LBS

Service

UPS 2nd Day Air®

Shipped / Billed On

03/01/2019

Delivered On

03/04/2019 11:57 A.M.

Delivered To

HOUSTON, TX, US

Received By

PAYNE

Left At

Mail Room

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 03/05/2019 4:38 P.M. EST

https://www.campusship.ups.com/ship/create?ActionOriginPair=default__PrintWindowPage&key=receiptWindow&type=html&doc=en_US&inst=A&d... 1/1

 Shipment Receipt

Transaction Date: 01 Mar 2019

Tracking Number:

1ZF698E80297320046

① ADDRESS INFORMATION

Ship To: Ship From: Return Address:
 855 Exploration & Production, Houston, TX Company
 3500 One Williams Center Houston, TX Company
 TULSA OK 74178-125 2801 S. Broadway 2801 S. Broadway
 TULSA TX 74103 TULSA TX 74103 TULSA TX 74103
 Telephone: 918.581.2900 Telephone: 918.581.2900 Telephone: 918.581.2900

② PACKAGE INFORMATION

WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. Letter (Letter billable)	UPS Letter		

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service: UPS 2nd Day Air
 Guaranteed By: End of Day Tuesday, Mar 5, 2019
 Shipping Fees Subtotal: 25.45 USD
 Transportation: 18.00 USD
 Fuel Surcharge: 1.38 USD

④ PAYMENT INFORMATION

Bill Shipping Charges to:

Shipper's Account F08859

Shipping Charges:	25.45 USD
Subtotal Shipping Charges:	25.45 USD
Daily rates were applied to this shipment	
Total Charged:	25.45 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide (00). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7852 for international services.

https://www.upsuship.ups.com/cship/create?ActionOrigin=Pal=default___PrintWindowPage&key=scriptWindow&type=html&loc=en_US&intr=A&... 1/1

 Shipment Receipt

Transaction Date: 01 Mar 2019

Tracking Number:

1ZF698E80299136037

① ADDRESS INFORMATION

Ship To: Ship From: Return Address:
 Henshaw Oil Services LLC Houston, TX Company
 3303 Van Hise Street Houston, TX Company
 HOUSTON TX 77060-7700 2801 S. Broadway 2801 S. Broadway
 HOUSTON TX 77060 TULSA TX 74103 TULSA TX 74103
 Telephone: 918.581.2900 Telephone: 918.581.2900 Telephone: 918.581.2900

② PACKAGE INFORMATION

WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. Letter (Letter billable)	UPS Letter		

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service: UPS 2nd Day Air
 Shipping Fees Subtotal: 25.45 USD
 Transportation: 18.00 USD
 Fuel Surcharge: 1.38 USD

④ PAYMENT INFORMATION

Bill Shipping Charges to:

Shipper's Account F08859

Shipping Charges:	25.45 USD
Subtotal Shipping Charges:	25.45 USD
Daily rates were applied to this shipment	
Total Charged:	25.45 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide (00). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7852 for international services.

https://www.upsuship.ups.com/cship/create?ActionOrigin=Pal=default___PrintWindowPage&key=scriptWindow&type=html&loc=en_US&intr=A&... 1/1

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80297320046

Weight

0.00 LBS

Service

UPS 2nd Day Air®

Shipped / Billed On

03/01/2019

Delivered On

03/05/2019 10:45 A.M.

Delivered To

TULSA, OK, US

Received By

NOLAN

Left At

Other - released

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 03/05/2019 4:37 P.M. EST

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80299136037

Weight

0.00 LBS

Service

UPS 2nd Day Air®

Shipped / Billed On

03/01/2019

Delivered On

03/04/2019 1:57 P.M.

Delivered To

HOUSTON, TX, US

Received By

VARGAS

Left At

Mail Room

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 03/05/2019 4:37 P.M. EST

 Shipment Receipt

Transaction Date: 01 Mar 2019

Tracking Number:

1ZF698E80296762222

① ADDRESS INFORMATION

Ship To: New Mexico State Land Office
210 OLD SANTA FE TRAIL
SANTA FE NM 87501-1708

Ship From: Henderson CR Company
Elizabeth Shoreline
2902 S. Broadway
TYLER TX 75701
Telephone: 9375612999

Return Address: Henderson CR Company
Elizabeth Shoreline
2902 S. Broadway
TYLER TX 75701
Telephone: 9375612999

② PACKAGE INFORMATION

WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. Letter (Letter billable)	UPS Letter		

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service: UPS 2nd Day Air
Guaranteed By: End of Day Tuesday, Mar 5, 2019
Shipping Fees Subtotal: 24.87 USD
Transportation: 22.44 USD
Fuel Surcharge: 1.83 USD

④ PAYMENT INFORMATION

Bill Shipping Charges to: Shipper's Account 19883

Shipping Charges:	24.87 USD
Subtotal Shipping Charges:	24.87 USD
Daily rates were applied to this shipment	
Total Charged:	24.87 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide (00). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

https://www.campusship.ups.com/cship/create?ActionOriginPair=default___PrintWindowPage&key=receiptWindow&type=html&loc=en_US&instr=Add... 1/1

 Shipment Receipt

Transaction Date: 01 Mar 2019

Tracking Number:

1ZF698E80296394611

① ADDRESS INFORMATION

Ship To: STD Supply, Inc.
6401 HOLDSWAY HILL ROAD
BELLINGHAM 3
MIDLAND TX 79701-2117

Ship From: Henderson CR Company
Elizabeth Shoreline
2902 S. Broadway
TYLER TX 75701
Telephone: 9375612999

Return Address: Henderson CR Company
Elizabeth Shoreline
2902 S. Broadway
TYLER TX 75701
Telephone: 9375612999

② PACKAGE INFORMATION

WEIGHT	DIMENSIONS / PACKAGING	DECLARED VALUE	REFERENCE NUMBERS
1. Letter (Letter billable)	UPS Letter		

③ UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service: UPS 2nd Day Air
Guaranteed By: End of Day Tuesday, Mar 5, 2019
Shipping Fees Subtotal: 21.34 USD
Transportation: 18.90 USD
Fuel Surcharge: 1.64 USD

④ PAYMENT INFORMATION

Bill Shipping Charges to: Shipper's Account 19883

Shipping Charges:	21.34 USD
Subtotal Shipping Charges:	21.34 USD
Daily rates were applied to this shipment	
Total Charged:	21.34 USD

Note: This document is not an invoice. Your final invoice may vary from the displayed reference rates.

* For delivery and guarantee information, see the UPS Service Guide (00). To speak to a customer service representative, call 1-800-PICK-UPS for domestic services and 1-800-782-7892 for international services.

https://www.campusship.ups.com/cship/create?ActionOriginPair=default___PrintWindowPage&key=receiptWindow&type=html&loc=en_US&instr=Add... 1/1

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80296762222

Weight

0.00 LBS

Service

UPS 2nd Day Air®

Shipped / Billed On

03/01/2019

Delivered On

03/05/2019 10:04 A.M.

Delivered To

SANTA FE, NM, US

Received By

ROMERO

Left At

Mail Room

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 03/05/2019 4:36 P.M. EST

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80296394611

Weight

0.00 LBS

Service

UPS 2nd Day Air®

Shipped / Billed On

03/01/2019

Delivered On

03/05/2019 11:07 A.M.

Delivered To

MIDLAND, TX, US

Received By

EDEEN

Left At

Office

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 03/05/2019 4:35 P.M. EST

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

**Ad No.
0001277723**

MEWBOURNE OIL COMPANY
3901 S BROADWAY AVE

TYLER TX 75701

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:

02/20/19

Kevin Yang
Legal Clerk

Subscribed and sworn before me this
27th of February 2019.

Kazoua Yang
State of WI, County of Brown
NOTARY PUBLIC

11/9/21
My Commission Expires



Ad#:0001277723
P O : 0001277723
of Affidavits :0.00

NOTICE

Mewbourne Oil Company has filed a form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to drill and complete the Silver Bullet 16 SWD #1 as a salt water disposal well.

The Silver Bullet 16 SWD #1 is located 1980' FSL and 275' FEL, Unit Letter I, Section 16, Township 26 South, Range 29 East, NMPM, Eddy County, New Mexico. The well will dispose of water produced from nearby operated oil and gas wells into the Devonian formation into an open-hole interval from a depth of 15,350 feet to 16,650 feet. Expected maximum injection rates are 50,000 BWPd at a maximum injection pressure of 3,070 psi.

Interested parties 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. The name and address of the contact party for the applicant is Tim Harrington, Mewbourne Oil Company, 3620 Old Bullard Road, Tyler, Texas 75701, (903)-534-7647. The well is located approximately 13.7 miles Southeast of Malaga, New Mexico.

Pub: February 20, 2019 #1277723



February 28, 2019

Engineering and Geological Services Bureau, Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Attn: Mr. Phillip Goetze

Re: Silver Bullet 16 SWD #1
Sec 16, Twp 26S, Rge 29E
Eddy County, NM

Mr. Goetze,

In accordance with item XII on Mewbourne Oil Company's C-108 filed for the captioned salt water disposal well, Mewbourne Oil Company has examined geologic and engineering data and has found that there is no evidence of faulting or any other hydrologic connection between the proposed disposal zone and any underground sources of drinking water.

Should you have any questions, please email me at tharrington@mewbourne.com or call me at (903) 534-7647.

Sincerely yours,

MEWBOURNE OIL COMPANY

Tim Harrington
Reservoir Engineer
tharrington@mewbourne.com

Mewbourne Oil Company
Silver Bullet 16 SWD #1
C-108 Attachment
February 28, 2019

STATEMENTS REGARDING SEISMICITY AND WELL SPACING

Historically, the area nearby our proposed Silver Bullet 16 SWD #1 has not seen seismic activity. There have been two seismic events (per USGS database) in this area in 1974 and 2012, and they are located 21 miles northwest (magnitude 3.9) and 17 miles northeast (magnitude 3.1) respectively away from our proposed SWD. The TexNet database was also consulted and no nearby seismic events have been documented in Texas.

Mewbourne Oil Company does not own 2D or 3D seismic data near our proposed SWD therefore our fault interpretation is based on subsurface mapping and data obtained from public technical sources. Based off our subsurface mapping of the deep formations, Mewbourne has not interpreted any faults in the immediate area. Our map does include a Precambrian fault documented by Ruppel, et al. (2005), that is located approximately 3.2 miles SW of our proposed SWD.

A very recent technical paper written by Snee and Zoback , "State of Stress in the Permian, Basin, Texas and New Mexico: Implications for induced seismicity", that was published in the February 2018 edition of The Leading Edge, evaluates the strike-slip probability, using probabilistic FSP analysis, of known Permian Basin faults. This study predicts that the Precambrian fault located on our map has less than a 10% probability of being critically stressed so as to create an induced seismicity event. The main reason for this low probability is due to the relationship of the strike of this fault to the regional Shmax orientation (approx. N 35 deg – N 40 deg E) in this area.

Our Silver Bullet 16 SWD #1 is located over 1.5 miles away from any active, permitted or pending Devonian SWD application (see map), to meet current OCD and industry recommended practices.

Operator	Well Name	Status	Distance from Silver Bullet (miles)
Solaris Midstream	Ross Draw SWD #1	Pending Application	1.58
Mewbourne Oil	Fuller 14 Federal SWD #1	Active SWD	1.60

Timothy R. Harrington

Reservoir Engineer
tharrington@mewbourne.com
903-534-7647

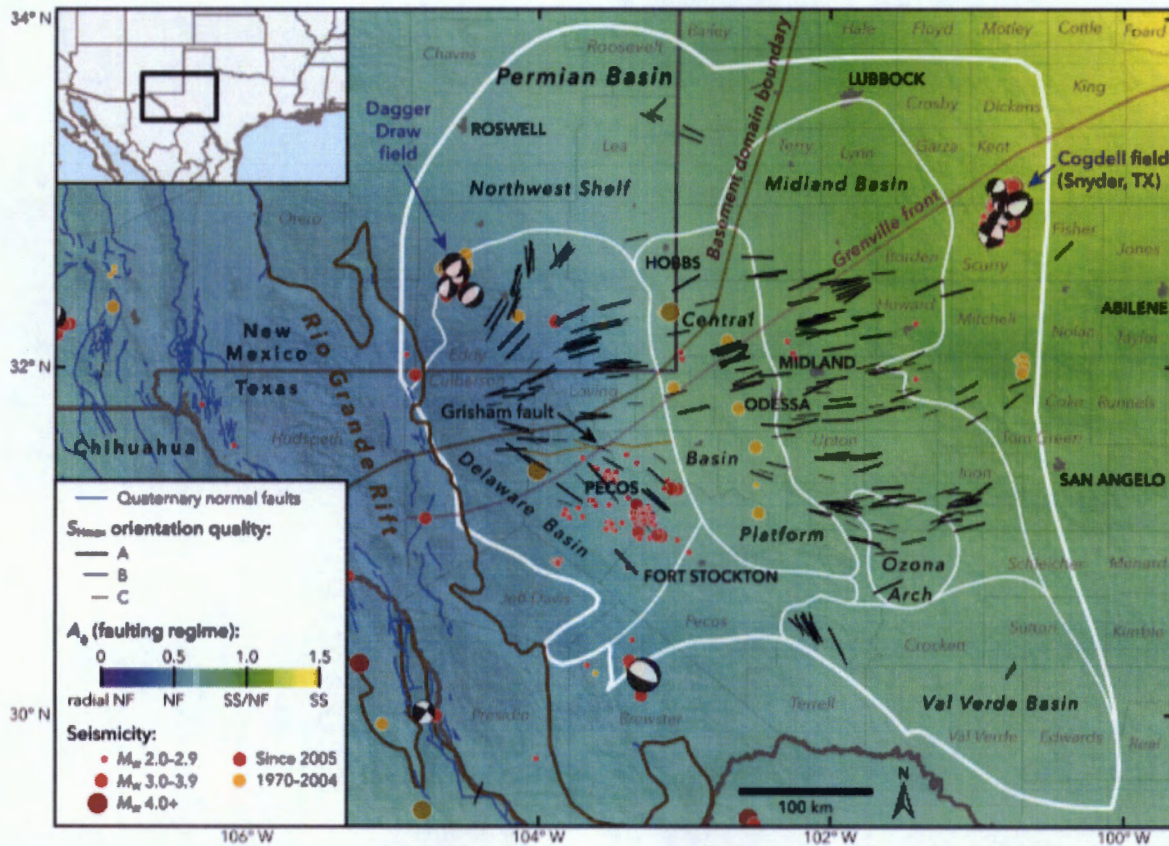


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of S_{max} , with line length scaled by data quality. The colored background is an interpolation of measured relative principal stress magnitudes (faulting regime) expressed using the A_1 parameter (see text for details) of Simpson (1997). Blue lines are fault traces known to have experienced normal-sense offset within the past 1.6 Ma, from the USGS Quaternary Faults and Folds Database (Crone and Wheeler, 2000). The boundary between the Shawnee and Mazatzal basement domains is from Lund et al. (2015), and the Precambrian Grenville Front is from Thomas (2006). The Permian Basin boundary is from the U.S. Energy Information Administration, and the subbasin boundaries are from the Texas Bureau of Economic Geology Permian Basin Geological Synthesis Project. Earthquakes are from the USGS National Earthquake Information Center, the TexNet Seismic Monitoring Program, and Gan and Frohlich (2013). Focal mechanisms are from Saint Louis University (Herrmann et al., 2011).

Mewbourne Oil Company
Silver Bullet 16 SWD #1
C-108 Attachment
February 28, 2019

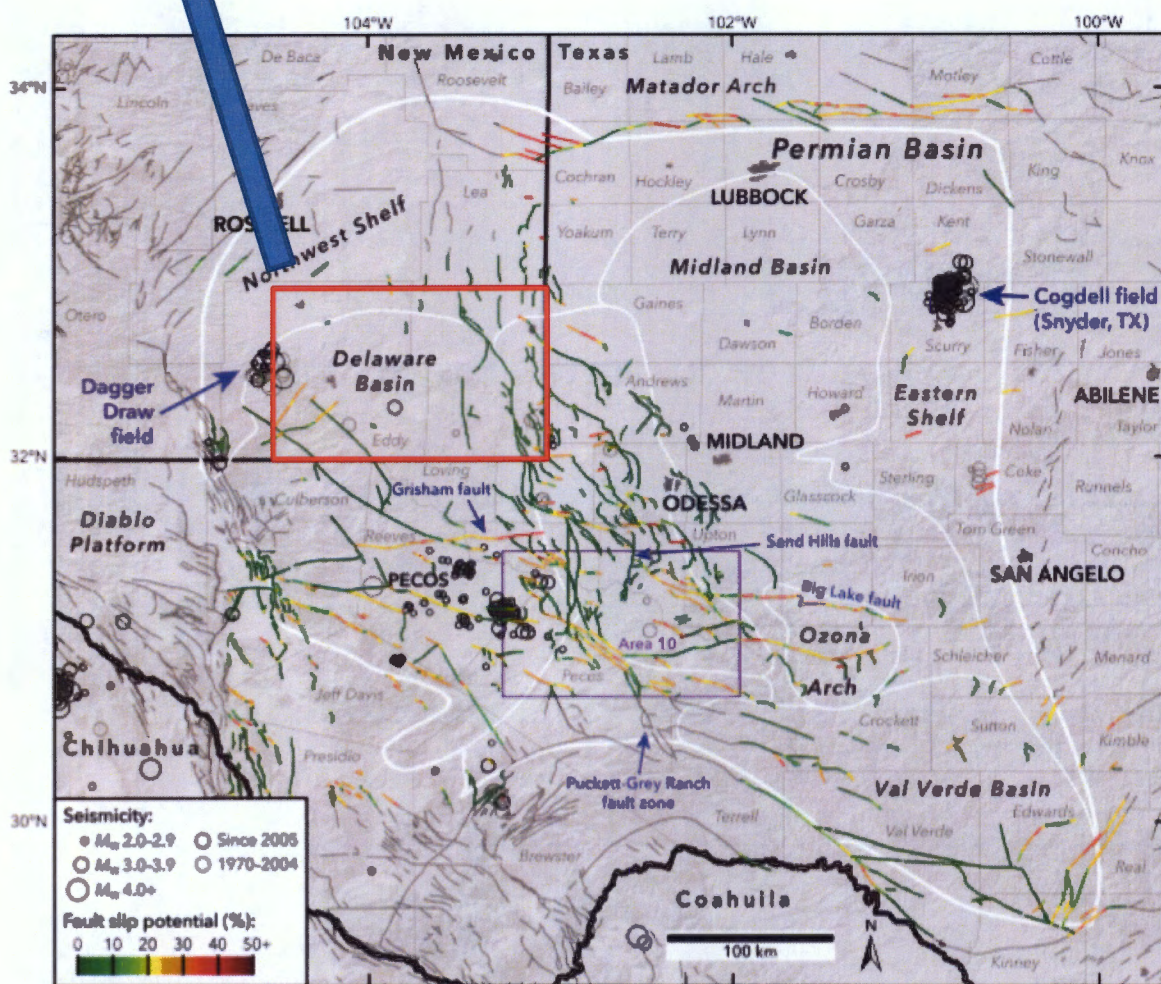
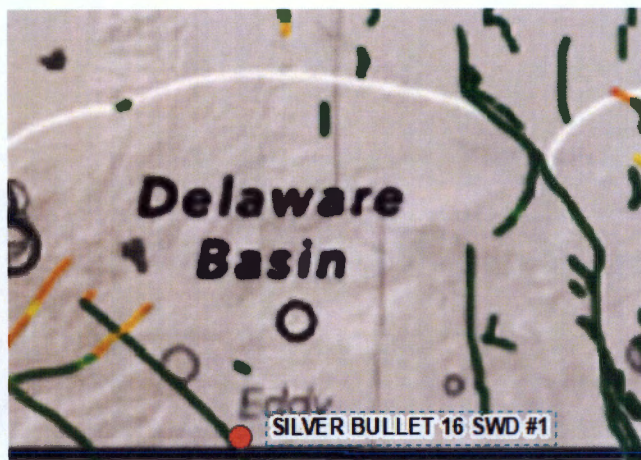
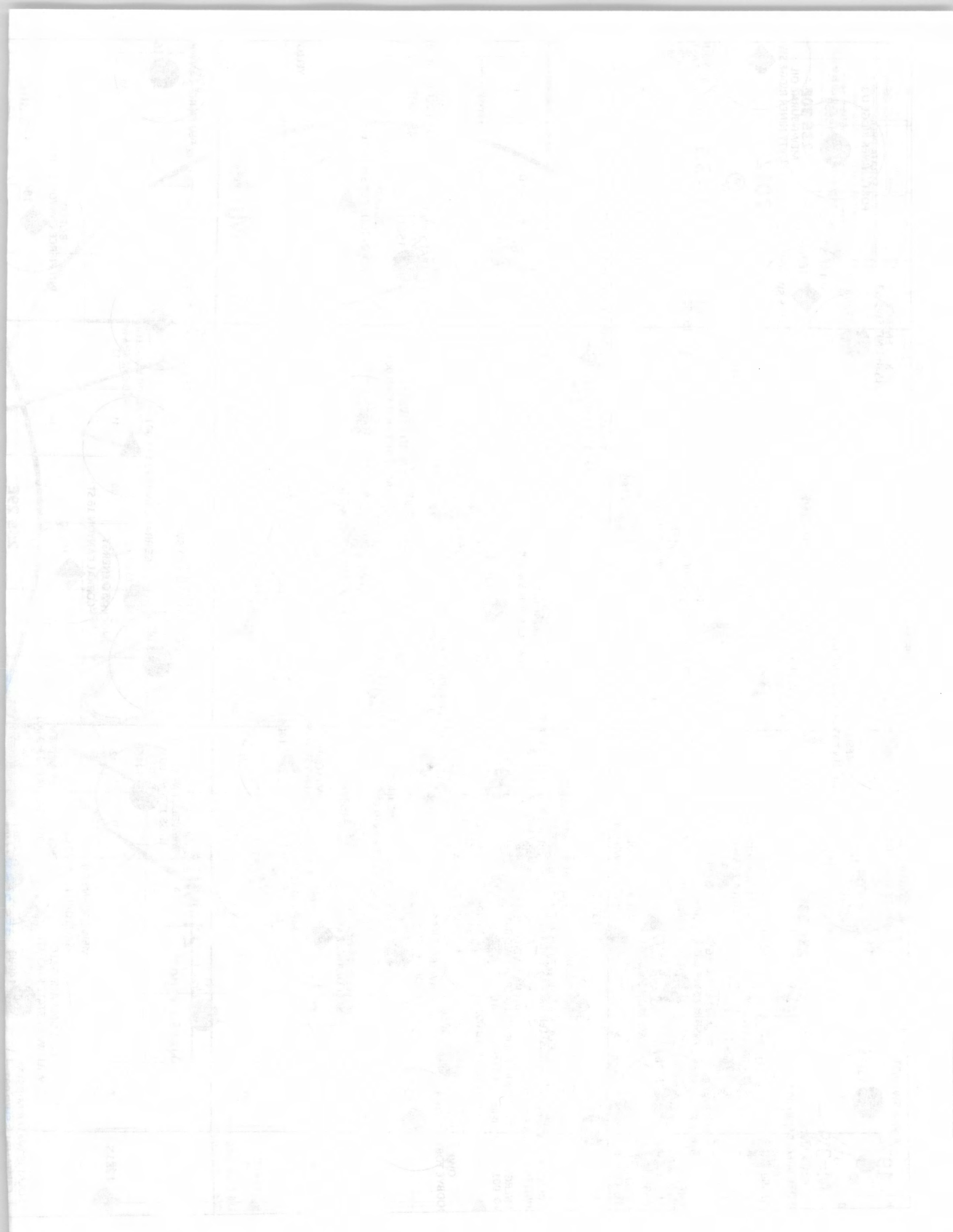


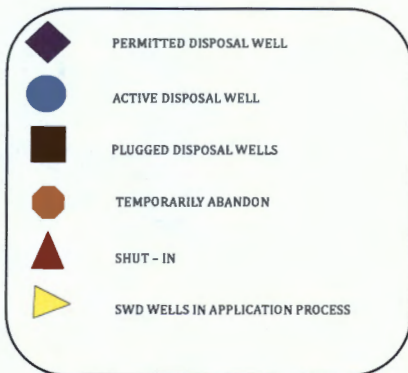
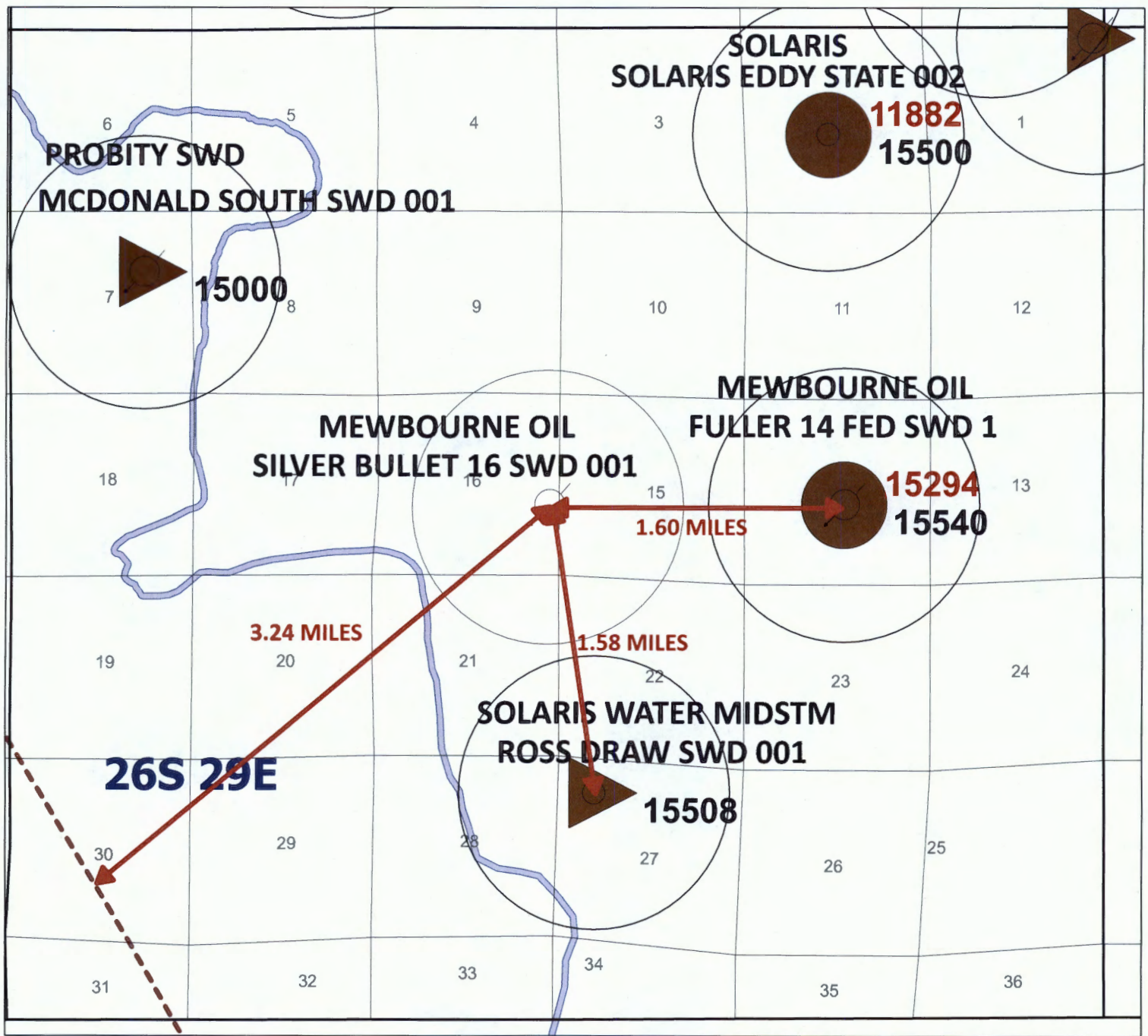
Figure 3. Results of our probabilistic FSP analysis across the Permian Basin. Data sources are as in Figures 1 and 2.

Mewbourne Oil Company
Silver Bullet 16 SWD #1
C-108 Attachment
February 28, 2019

References

Jens-Erik Lund Snee and Mark D. Zoback, 2018, State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity: The Leading Edge, February 2018.





DEVONIAN SWD WELLS



TECTONIC BASEMENT FAULTS



(BUREAU OF ECONOMIC GEOLOGY)

MOC Mewbourne Oil Company		
SILVER BULLET 16 SWD #001 EDDY CO. NEW MEXICO		
Author: Tim Harrington	Date: 5 February, 2019	
Tech: sd	Scale: 1" = 4238'	Silver Bullet 16 SWD #1 map Exhibit 1.gmp

MEWBOURNE OIL COMPANY
Silver Bullet 16 SWD #1

PLUGGING RISK ASSESSMENT

5 ½" Flush Joint Injection Tubing Inside of 7 ⅝" Casing

Specs

5 ½" 17# P110 Flush Joint Tubing	OD (in)	ID (in)	Drift (in)	LINED ID (in)	FLARE DRIFT (in)
Coupling	N/A	N/A	N/A	N/A	N/A
Body	5.500	4.892	4.767	4.520	4.275
7 ⅝" 39# P110 Casing	OD (in)	ID (in)	Drift (in)	Wall Thickness (in)	5 ½" Flush Jt. Clearance (in)
	7.625	6.625	6.500	0.500	0.562

*All fishing procedures are subject to well conditions. Determinations are made onsite on a case by case scenario.

Overshot Fishing Procedure

A 6.625" O.D. Bowen Series 150 overshot (Assembly 8625) with a spiral grapple will be utilized to perform this overshot operation. ***NOTE: (The 6.625" O.D. will be turned down to 6.500" O.D. prior to commencing operation).** Details on the overshot are noted below.

Series 150 Overshots

Tools are listed in order of maximum catch size.

The following table shows only a partial listing of available NOV Dowhole Bowen® overshots.

NOTE: Nitralloy Grapples are available upon request.

Bowen Series 150 Releasing and Circulation Overshots

Minimum Catch Size 4½" to 5½" inclusive

Maximum Catch Size (Spiral)		4½"	4¾"	5"	5¼"	5½"	5¾"
Maximum Catch Size (Basket)		3¾"	4½"	4¾"	5"	5¼"	5¾"
Overshot O.D.		5¾"	5¾"	5¾"	5¾"	5¾"	5¾"
Type		F.B.	S.H.	S.H.	S.F.B.	S.H.	F.B.
Complete Assembly	Part No.	5898	5898	C-5186	8875	C-5171	C-4825
(Dressed Spiral Parts)	Weight	130	130	133	138	140	182
Replacement Parts							
Top Rod	Part No.	5897	5898	A-5188	8878	A-5172	B-4828
Body	Part No.	5898	5700	B-5170	8877	B-5173	B-4827
Pusher	Part No.	188	1140	B-2188	8114	L-5850	L-4505
Spiral Grapple	Part No.	185	1135	B-2201	8112	B-4388	M-1071
Spiral Grapple Control	Part No.	188	1137	B-2202	8113	B-4370	M-1072
Standard Guide	Part No.	187	1143	B-2203	8121	B-4371	L-1074
Basket Parts							
Basket Grapple	Part No.	185	1135	B-2201	8112	B-4388	M-1071
Basket Grapple Control	Part No.	188	1137	B-2202	8113	B-4370	M-1072
Roll Control Pusher	Part No.	188-R	1140-R	B-2188-R	8114-R	L-5850-R	M-4505

In the Event of a Connection Break

1. If dressing is needed, trip in hole with a mill and mill connection to allow for (above listed) turned-down overshot to be latched onto the body of the tubing. If no milling is required, trip in hole with (above listed) turned-down overshot and latch onto fish.
2. Once latched onto fish, pick up string weight and straight pull to release Model R packer.
3. Once packer is released, trip out of hole with fish.

In the Event of a Body Break

1. If dressing is needed, trip in hole with a mill and mill tubing to allow for (above listed) turned-down overshot to be latched onto the body of the tubing. If no milling is required, trip in hole with (above listed) turned-down overshot and latch onto fish.
2. Once latched onto fish, pick up string weight and straight pull to release Model R packer.
3. Once packer is released, trip out of hole with fish.

*NOTE: (Wash pipe with a mill may be substituted for dressing off a break instead of a standard mill to ensure pipe stabilization and to ensure that the casing is not damaged due to milling.)

In the Event a Mill Cannot be Used

If an inadequate fishing neck is looking up and a mill cannot be used to dress the fish, a cutting tool may be utilized to cut off the damaged portion of tubing and a spear used to retrieve the cut-off piece. Once the cut-off piece is retrieved, the (above listed) turned-down overshot may be utilized to retrieve the fish and release the packer.

Spear Fishing Procedure

In the event the (above listed) turned-down overshot cannot be used or the fishing neck is inadequate, a spear may be used to spear into the fish. In the case of insert lined pipe, a smaller spear will be utilized to go inside the insert liner and pull out the lining. Once the lining has been removed, trip out of hole with insert liner. Pick up the proper sized spear for the pipe ID. Trip in hole with tubing spear, spear the fish, pick up string weight and straight pull to release the packer. Trip out of hole with fish and packer assembly.

7" Flush Joint Injection Tubing Inside of 9 5/8" Casing

Specs

7" 26# HCP110 Flush Joint Tubing	OD (in)	ID (in)	Drift (in)	LINED ID (in)	FLARE DRIFT (in)
Coupling	N/A	N/A	N/A	N/A	N/A
Body	7.000	6.276	6.151	6.080	5.815
9 5/8" 43.5# HCL80 Casing	OD (in)	ID (in)	Drift (in)	Wall Thickness (in)	7" Flush Jt. Clearance (in)
	9.625	8.755	8.599	0.435	0.877

*All fishing procedures are subject to well conditions. Determinations are made onsite on a case by case scenario.

Overshot Fishing Procedure

A Bowen Series 150 overshot (Assembly 9217) with a spiral grapple will be utilized to perform this overshot operation. Details on the overshot are noted below.

Bowen Series 150 Releasing and Circulation Overshots

Maximum Catch Size 6 5/8" to 7 1/4" Inclusive

Maximum Catch Size (Spiral)		6½"	6¾"	7"	7¼"
Maximum Catch Size (Basket)		5¾"	6"	6¾"	6¾"
Overshot O.D.		8¾"	7¾"	8¾"	8¾"
Type		F.S.	S.H.	S.H.	S.H.
Complete Assembly	Part No.	C-3032	C-5222	9217	C-5354
(Dressed Spiral Parts)	Weight	280	243	251	260

Replacement Parts

Top Sub	Part No.	A-3033	A-5223	9218	A-5355
Bowl	Part No.	B-3034	B-5224	9219	B-5356
Packer	Part No.	A-1814	B-5225	9224	B-5357
Spiral Grapple	Part No.	N-84	B-5227	9222	B-5359
Spiral Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Standard Guide	Part No.	A-1818	A-5229	9226	A-5361

Basket Parts

Basket Grapple	Part No.	N-84	B-5227	9222	B-5359
Basket Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Mill Control Packer	Part No.	A-1814-R	B-5225-R	9224-R	B-5357-R

In the Event of a Connection Break

1. If dressing is needed, trip in hole with a mill and mill connection to allow for (above listed) overshot to be latched onto the body of the tubing. If no milling is required, trip in hole with (above listed) overshot and latch onto fish.
2. Once latched onto fish, pick up string weight and straight pull to release Model R packer.
3. Once packer is released, trip out of hole with fish.

In the Event of a Body Break

1. If dressing is needed, trip in hole with a mill and mill tubing to allow for (above listed) overshot to be latched onto the body of the tubing. If no milling is required, trip in hole with (above listed) overshot and latch onto fish.
2. Once latched onto fish, pick up string weight and straight pull to release Model R packer.
3. Once packer is released, trip out of hole with fish.

*NOTE: (Wash pipe with a mill may be substituted for dressing off a break instead of a standard mill to ensure pipe stabilization and to ensure that the casing is not damaged due to milling.)

In the Event a Mill Cannot be Used

If an inadequate fishing neck is looking up and a mill cannot be used to dress the fish, a cutting tool may be utilized to cut off the damaged portion of tubing and a spear used to retrieve the cut-off piece. Once the cut-off piece is retrieved, the (above listed) overshot may be utilized to retrieve the fish and release the packer.

Spear Fishing Procedure

In the event the (above listed) overshot cannot be used or the fishing neck is inadequate, a spear may be used to spear into the fish. In the case of insert lined pipe, a smaller spear will be utilized to go inside the insert liner and pull out the lining. Once the lining has been removed, trip out of hole with insert liner. Pick up the proper sized spear for the pipe ID. Trip in hole with tubing spear, spear the fish, pick up string weight and straight pull to release the packer. Trip out of hole with fish and packer assembly.

Abandonment Procedure in-the-Event that Injection Tubing Cannot be Fished

The operator will need to ensure that geological formations are properly isolated to prevent future fluid communication. The operator will first insure that the injection tubing I.D. is open and clear. Once injection tubing I.D. is confirmed to be open and clear, run in hole with a wireline set profile plug and set plug inside of the packer assembly. This plug would allow for cement to fill both the I.D. of the injection tubing and the tubing-to-casing annulus to provide isolation between the different geological formations. Next, run in hole with wireline conveyed perforating guns and shoot perforations at the deepest depth that the injection tubing is still in the wellbore. Trip in hole with a workstring and latch onto the injection tubing with an overshot, spear, cement retainer or any other tool that would ensure a work string-to-injection tubing seal and allow the operator to pump cement down the remaining injection tubing. Rig up cement truck and cement the annulus between the injection tubing and casing to surface.

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Tuesday, March 5, 2019 3:10 PM
To: 'Tim Harrington'
Subject: Silver Bullet 16 SWD Well No. 1

Tim:

I need proof of mailing either from the Post Office or FedEx that shows the dates.

I will suspend your application until I get it

Mike

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