				Revised March 23, 2017
RECEIVED: 04 13 2018	REVIEWER:	TYPE: SWD ABOVE THIS TABLE FOR OCCUPINS		33449210
	NEW MEXICO ( - Geological ( 1220 South St. Franc	OIL CONSERVAT & Engineering I	rion division Bureau –	
THIS CHEC	KLIST IS MANDATORY FOR ALL AD		ONS FOR EXCEPTIONS TO	
Applicant: Mewbourne O	REGULATIONS WHICH REQUIRE	PROCESSING AT THE DI		D Number: <u></u> 14744
Well Name: Bilbrey 33 F				-025-pending
Pool: SWD; DEVONIAN			Pool C	Code: 96101
1) TYPE OF APPLICA	IN IION: Check those whic pacing Uni <u>t –</u> Simultane	IDICATED BELOW th apply for [A] tous Dedication		THE TYPE OF APPLICATION
[1] Commin	only for [1] or [11]  Igling – Storage – Mease  IC	PC OLS ncrease - Enhan IPI EOI e which apply. rs, revenue owne otice	ced Oil Recove R PPR	FOR OCD ONLY  Notice Complete  Application Content
F. Surface of G. For all of	on and/or concurrent of owner the above, proof of no e required			Complete  On April 19th - Publicative and/or,
administrative ap	nereby certify that the i proval is <b>accurate</b> and <b>no action</b> will be taken o ubmitted to the Divisior	<b>complete</b> to the	e best of <mark>m</mark> y kno	wledge. I also
Note: S	tatement must be completed b	y an individual with m	anagerial and/or supe	ervisory capacity.
			April 12, 2018  Date	
Timothy R. Harrington			Dale	
Print or Type Name			002 524 5645	
			903-534-7647 Phone Number	
07-11 0015	1		rhone number	
dust R. Harrey	Va		tharrington@mewbo	ourne com
Signature			e-mail Address	

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**

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? YesXNo  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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*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
	NAME: Tim Harrington  SIGNATURE:
*	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.

# INJECTION WELL DATA SHEET

OPERATOR: Mewbourne Oil Company

WELL NAME & NUMBER: Bilbrey 33 Fed SWD #1 (30-01/5-pending)

700' FSL & 205' FEL WELL LOCATION:

UNIT LETTER FOOTAGE LOCATION

WELLBORE SCHEMATIC (See Attached)

21S TOWNSHIP WELL CONSTRUCTION DATA

SECTION

32E

Surface Casing

Casing Size: 20" @ 775'

Hole Size: 26"

Top of Cement: Surface Cement with: 1,250 sx (100% excess)

Intermediate Casing

Casing Size: 13 3/8" @ 4,715'

Top of Cement: Surface (Calculated)

Stage 1: 1,900 sx (25% excess)

Hole Size: 17 1/2"

Production Casing

Stage 1: 1,295 sx (25% excess)

Hole Size: 12 1/4"

Top of Cement: Surface

Casing Size: 9 5/8" @ 11,900'

(Calculated)

Stage 2: 1,400 sx (DV Tool @ 4,775')

Production Liner

Casing Size: 7 5/8" Top @ 11,700' Hole Size: 8 1/2"

Bottom @ 15,780'

Top of Cement: 11,700' Cement with: 825 sx (25% excess)

TD @ 16,830°

(Proposed: circulated to liner top)

Permitted SWD interval 15,780'-16,830' Injection Interval

Devonian Formation

# INJECTION WELL DATA SHEET

Tubing Size: 7" x 5 1/2" Lining Material: Duoline

NOTE: 7" injection string set in 9 5/8" casing and 5 1/2" injection string set in 7 5/8" liner

Type of Packer: 4 1/2" x 7 5/8" Packer

Packer Setting Depth: +/- 15,730'

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

## Additional Data

1. Is this a new well drilled for injection? Yes

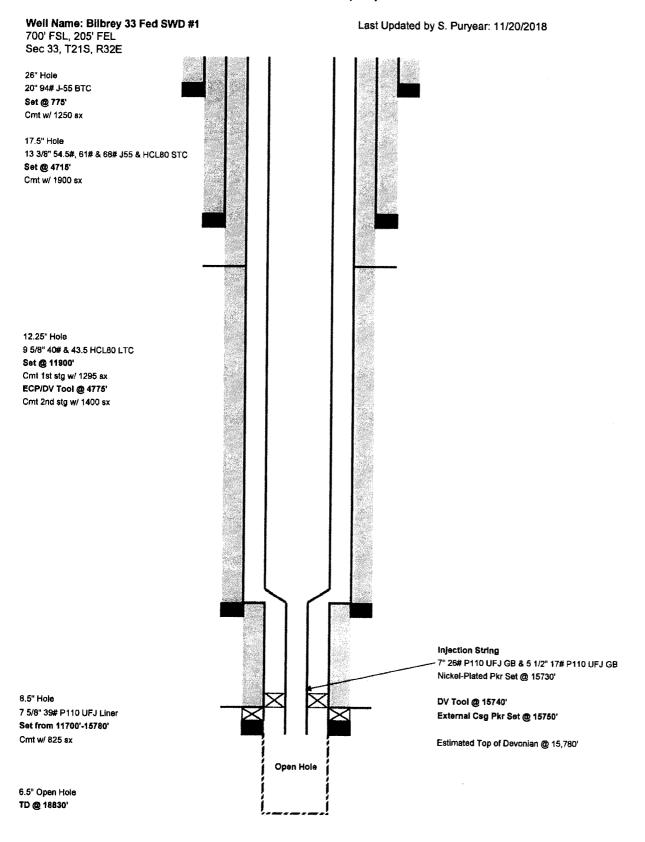
If no, for what purpose was the well originally drilled? NA

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

Overlying potentially productive zone tops - Delaware (4,800'), Bone Spring (8,800'), Wolfcamp (11,800'), Strawn (13,200') & Morrow (13,800'),

Underlying producing zone – N/A

## Mewbourne Oil Company



## **BILBREY 33 FED SWD #1**

Additional Details

- VI. There are no wells penetrating the disposal formation within the area of review.
- VII. 1. Proposed average rate of 12,000 bwpd and maximum rate of 18,000 bwpd.
  - 2. Closed system.
  - 3. Proposed average injection pressure is unknown and the maximum injection pressure is approximately 3156 psi (0.2 psi/ft x 15,780 ft).
  - 4. This well will dispose of formation water produced from nearby Mewbourne Oil operated wells. Representative water samples from the Bone Spring and Delaware 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. A Devonian water analysis is not available within the immediate area. The following data is the closest produced water analysis that is available on the USGS website.

•	35292	30000310	USGSBREIT	SOURCE Pan American Petroleum Corporation		-103.7766	API 30015108590000	Eddy	FIELD Poker Lake South	WELLNAME Poker Lake Unit #96	S 24 E 31 28	
•	ATESAMPLE 1967-04-06		FORMATION Devonian	DEPTHUPPER 16578	DEPTHLOWER 16660	<b>5G</b> 1.086	SPORAV 1.086	<b>RESIS</b> 0.067	RESIST 77	PH 6.6	TD3U3G3 120326	TDS 120326

VIII. 1. The proposed injection interval is within the Devonian formation which is a porous dolomitic limestone from 15,780' to 16,830'. It is estimated that the base of the injection interval should be approximately 870' above the top of the Ellenburger.

Other Projected Formation Tops:

Mississippian	15,100°
Woodford	15,650'
Devonian	15,780'
EST TOTAL DEPT	TH 16,830'
Simpson	17,400'
Ellenburger	17,700

- 2. The underground fresh water aquifers (unnamed) are present at shallow depths <650'. 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 are no water wells on file with the NM State Engineers Office within 1 mile of the proposed SWD well. An attempt was made to catch a sample from the three

documented fresh water wells within a 2 mile radius but we were unable secure any samples.

- 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 Bilbrey 33 Fed SWD #1

## **PLUGGING RISK ASSESSMENT**

## 5 ½" Flush Joint Injection Tubing Inside of 7 %" 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 %" 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

<sup>\*</sup>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.

Sometimes of the statement of the

Tools are listed in order of maximum catch size.

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

NOTE: Nitralioy Grappies are available upon request.

Bowen Series 150 Releasing and Circulation Overshots Maximum Catch Size 4X" to 515" Inclusive

31% 4% 48 48 47, 571 QF, ES. S.H. S.F.S. 5806 5899 C-5168 G-5171 6825 (Dressed Spiral Parts) 130 130 133 138 140 185 A-5169 8976 A-5172 8626 8-4826 B-5170 8977 8-5173 8-4827 8017 Part No. 1140 B-2199 0114 8618 1-5950 L-4505 Spiral Grappie Part No. B-4389 NJ-1071 8819 Bairai Gracola Co Part No. 1137 B-2202 6113 H-1072 Standard Guide Part No. 187 1143 B-2203 6121 B-4371 Part No. 1135 8-2201 6112 8-4369 M-1071 8619 Part No. 1137 B-2202 6113 B-4370 M-1072 8820 1140-R B-2199-R 0114-R L-5950-R L-8818-R M-4305

## 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%" 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 %" 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

<sup>\*</sup>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 Calch Size 6% to 7% inclusive

Maximum Galch Size (Speal)		55.	6%	7	15
Maximum Calch Size (Basket)		5%	6%	831	55'i
Overated O.D.		8%	7%	87a	894
Type		F.S.	S.H.	SH	S.H.
Complete Assembly	Part No.	C-3032	C-5222	9217	C-5354
(Dressed Spiral Parts)	Weight	280	243	251	260
Replacement Paris					
Top Suh	Part No.	A-3033	A-5223	<b>9</b> 218	A-5355
Bowl	Part No.	B-3034	B-5224	9219	B-5356
Packer	Part No.	A-1814	B-5225	9224	8-5357
Spiral Grapple	Part No.	N-84	B-5227	9222	B-5359
Spiral Grapple Control	Part No.	M-80	A-5228	9223	8-5300
Standard Guide	Part No.	A-1818	A-5229	9228	A-5361
Backet Partz					
Baaket Grappie	Part No.	N-84	B-5227	0222	8-5350
Basket Grappte Control	Part No.	M-89	A-5228	9223	B-538D
Mill Control Packer	Part No.	A-1814-R	B-5225-R	9224-R	9-5357-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.

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- 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.
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\*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.

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

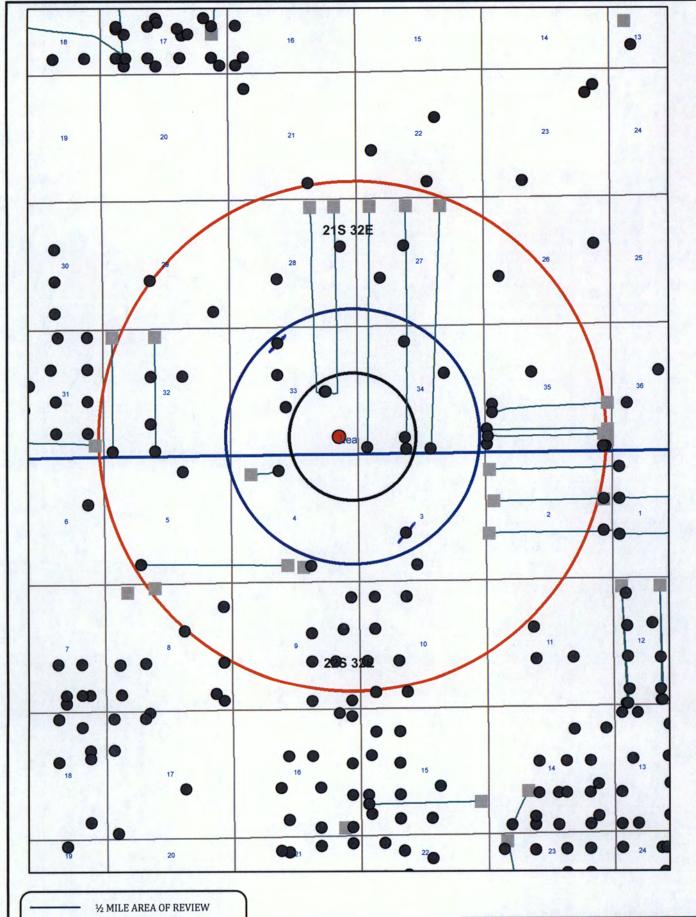
☐ AMENDED REPORT

WEIT	LOCATION	AND ACREAGE	DEDICATION PLAT
WFII		ANDAUREAUE	THE PROPERTY OF THE PARTY OF TH

1	API Number	•		<sup>2</sup> Pool Code	,		<sup>3</sup> Pool Nan	ne	
<sup>4</sup> Property Co	de			BILE	<sup>5</sup> Property N	ame EDERAL SWD			<sup>6</sup> Well Number  1
7 OGRID	NO.			MEWI	8 Operator N BOURNE OI	L COMPANY			<sup>9</sup> Elevation <b>3757</b>
					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
P	33	21S	32E		700	SOUTH	205	EAST	LEA
			11 ]	Bottom F	Iole Location	If Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>2</sup> Dedicated Acre	s 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.

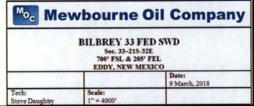
_	S 89'27'13" W 2636.92'	(D) S 89:24'20"	W 2643.95'	Œ.	)
®	16		 		17 OPERATOR CERTIFICATION
	į		1		I hereby certify that the information contained herein is true and complete
		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1 		to the best of my knowledge and belief, and that this organization either
			į	,	owns a working interest or unleased mineral interest in the land including
99	GEODETIC DATA		1	<i>i</i> .5.	the proposed bottom hole location or has a right to drill this well at this
2640.	NAD 83 GRID - NM EAST	1		194	location pursuant to a contract with an owner of such a mineral or working
	<u>SURFACE LOCATION</u> N 520756.5 – E 745430.7		! !	,	interest, or to a voluntary pooling agreement or a compulsory pooling
*		-			order heretofore entered by the division.
00'18'23"	LAT: 32.4298889" N LONG: 103.6718441" W		1 1 1	1,03	
70.1		i !	1 1 1	.00.	Signature Date
>	<u>CORNER DATA</u> NAD 83 GRID — NM EAST	1 1	!	>	
		1 1			Printed Name
1	A: FOUND BRASS CAP "1916" N 520004.5 — E 740357.7	1	1		
	B: FOUND BRASS CAP "1916"	1 1	!		E-mail Address
₿	N F000407 F 7407407	33	¦		© 18 SURVEYOR CERTIFICATION
Ĭ	C: FOUND BRASS CAP "1916"		!		I hereby certify that the well location shown on this
	N 525287.1 - E 740328.6			,	plat was plotted from field notes of actual surveys
	D: FOUND BRASS CAP "1916" N 525312.3 — E 742964.8		1	9.48	made by me or under my supervision, and that the
۰	E: FOUND BRASS CAP "1916"	1	-	2640.	same is true and correct to the best of my belief.
2.89	N 525339.7 - E 745608.0	1 1		<b>*</b>	
2642.	F: FOUND BRASS CAP "1916"	 	1	.90,	2-23-2018
¥	N 522698.8 - E 745624.2		<u> </u>	20,0	Date of Survey Signature and Seal of Proceeding Survey
.50.	G: FOUND BRASS CAP "1916" N 520058.9 - E 745639.6	 	 	.00	Signature and Seal of Processing Survey
19%		1	1	>	16/4/ 10/41
61.00	H: FOUND BRASS CAP "1916" N 520030.5 – E 742997.3	1 1	1	205'¬	(19680)
>		1	1	S.L.	12/2/
		1	 		19680
		1		700,	Certificate Number
		1	1		
$\odot$	N 89'26'08" E 2640.37'	(A) N 89'23'02*	E 2643.06'	Joh	No.: LS1801113



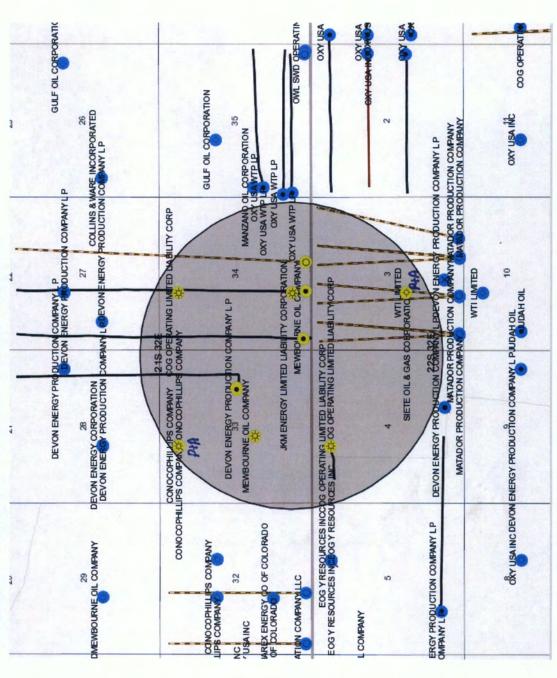
1 MILE AREA OF REVIEW

2 MILE AREA OF REVIEW

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



## MEWBOURNE OIL COMPANY BILBREY 33 FED SWD #1 – PERMIT APPLICATION OFFSET OPERATOR MAP – 1 MILE RADIUS



## **Listing of Notified Persons**

Bilbrey 33 Fed SWD #1 Application 205' FEL & 700' FSL Section 33, T21S, R32E, Lea County, NM

## Surface Owner

Bureau of Land Management 620 East Greene Street Carlsbad, New Mexico 88220

## **Mineral Owner**

Bureau of Land Management 620 East Greene Street Carlsbad, New Mexico 88220

## Offsetting Operators Within 1 Mile Radius

COG Operating LLC One Concho Center 600 W. Illinois Ave Midland, TX 79701 Section 4, 22S, 32E & Section 34, 21S, 32E

Matador Resources One Lincoln Center 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 Section 3, 22S, 32E

Devon Energy Production Company, LP 333 W. Sheridan Avenue Oklahoma City, OK 73102

Section 33, 21S, 32E

JKM Energy, LLC 26 E. Compress Road Artesia, NM 88210 Section 34, 21S, 32E

April 5, 2018

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

Re:

Bilbrey 33 Fed SWD #1 Sec 33, Twp 21S, Rge 32E Lea 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

R. Harryt

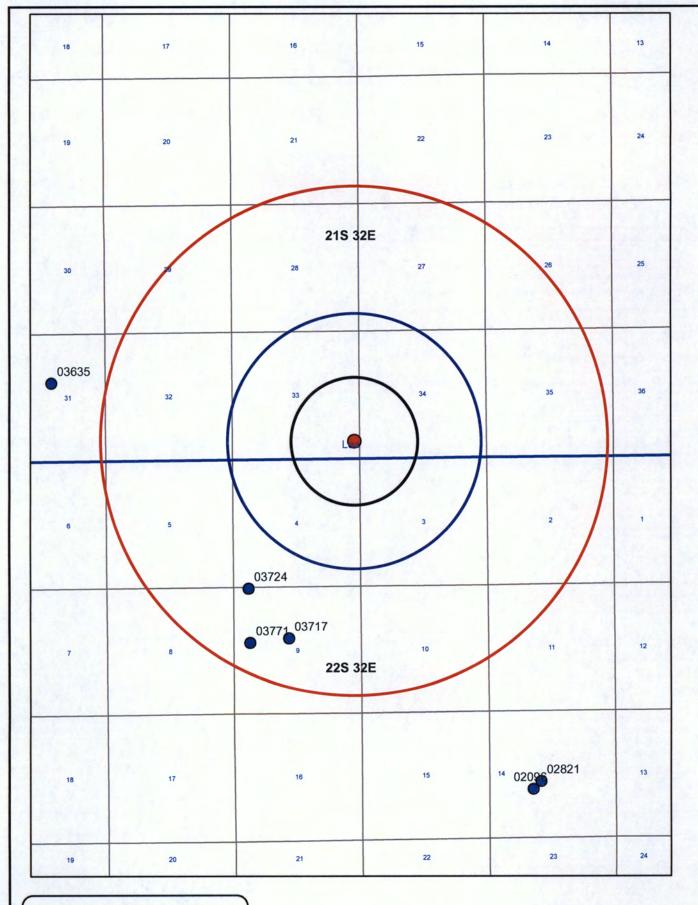
Tim Harrington

Reservoir Engineer

MEWBOURNE OIL COMPANY BILBREY 33 SWD #1 PERMIT APPLICATION LISTING OF WELLS WITHIN 1 MILE RADIUS AREA OF REVIEW

																		Date	Date	
Hole Dir	API Number	Original Operator Name	Current Operator Name	Lease Name	Well Num Sec		Twp Rge	Footages	Fiel	Field Name F	Final Status Status		TD (FT) TV	TVD (FT) Produci	Producing Formation P	Permit Date Di	Date Spud	Completion	etion Plugged	ged
>	г	$\Box$	CONOCOPHILLIPS COMPANY	BILBREY 33' FEDERAL	1	33	215	32E 660' FNL,	1980' FWL BILI	BILBREY	ABD-GW F	Jugged	14,900 14	14,900	MORROW	02/23/1990	03/0	03/05/1990 05/29	05/29/1990	
>	30025307810001		CONOCOPHILLIPS COMPANY	BILBREY '33' FEDERAL	1	33	215	32E 660' FNL, 3	660' FNL, 1980' FWL BILI	BILBREY NORTH	GAS-WO	Plugged	14,900 14	14,900	ATOKA.	08/27/1998	04/1.	04/12/1999 06/04	06/04/1999	
>	30025307810002	$\overline{}$	CONOCOPHILLIPS COMPANY	BILBREY '33' FEDERAL	1	33	215	32E 660' FNL, 1	660' FNL, 1980' FWL BILI	BILBREY	GAS-WO	Plugged	14,900 14	14,900 MOR	MORROW UPPER	01/11/2000	01/2	_	07/13/2001	
DIR	30025307810100	-	CONOCOPHILLIPS COMPANY	BILBREY 33 FEDERAL	1	33	215		660' FNL, 1980' FWL BILI	BILBREY	GAS-WO	Plugged	14,600 14	14,600	MORROW	01/30/2001	02/20	02/20/2001 10/17	10/17/2001	
>	30025307810003	CONOCOPHILLIPS COMPANY	CONOCOPHILLIPS COMPANY	BILBREY '33' FEDERAL	1	33	215	32E 660' FNL, 3	660' FNL, 1980' FWL BILI	BILBREY NORTH	D&AW	Plugged	14,900 14	14,900 BRU	BRUSHY CANYON	02/27/2012	04/0	04/03/2012 05/31	05/31/2013 5/3	31/2013
>	30025323830000	30025323830000 TEXACO EXPLORATION & PRODUCTION INC	MEWBOURNE OIL COMPANY	BILBREY '33' FEDERAL	2	33	215	32E 1980' FSL,	1980' FSL, 2310' FWL BILL	BILBREY	GAS /	Active	14,950	14,950 MOR	MORROW CLASTIC	01/10/1994	01/20	01/20/1994 04/14	04/14/1994	
HZ	30025418060000	DEVON ENERGY PRODUCTION COMPANY L P	DEVON ENERGY PRODUCTION COMPANY L P	BILBREY '33' FEDERAL COM	3H	33	215	32E 2600' FSL,	2600' FSL, 1350' FEL BILI	BILBREY BASIN	OIL	Active	18,031	10,635 BC	BONE SPRING	04/17/2014	07/2	07/26/2014 12/16/2014	1/2014	
HZ		DEVON ENERGY PRODUCTION COMPANY LP	DEVON ENERGY PRODUCTION COMPANY L P	BILBREY '33' FEDERAL COM	44	33	215		2600' FSL, 1300' FEL BILL	BILBREY BASIN	OIL	Active	18,080	10,607 BC	BONE SPRING	04/17/2014	06/2	06/23/2014 12/02	12/02/2014	
>	30025311200000	MARALO INCORPORATED	COG OPERATING LIMITED LIABILITY CORP	BILBREY '34' FEDERAL	1	34	215	32E 660' FNL,	660' FNL, 1980' FWL BILL	BILBREY	GAS /	Active	14,830	14,830 MOF	MORROW LOWER	01/07/1991	1/10	_	04/17/1991	
>	30025314700000		JKM ENERGY LIMITED LIABILITY CORPORATION BILBREY '34' FEDERAL COM	VI BILBREY '34' FEDERAL COM	1	34	215	32E 660' FSL, 1	660' FSL, 1980' FWL BILL	BILBREY	GAS /	Active	14,990	14,990 MOR	MORROW CLASTIC	11/25/1991	12/0.	12/05/1991 04/03	04/03/1992	
HZ	30025432760000		MEWBOURNE OIL COMPANY	BILBREY 34-27 B2NC FED COM	001Н	34	215	32E 185' FSL, 2	185' FSL, 2030' FWL BILL	BILBREY BASIN	OIL	Active	20,650	10,690 BC	BONE SPRING	05/13/2016	0/60		03/23/2017	
HZ	30025438720000	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	BILBREY 34-27 B2MD FED COM	001Н	34	215	32E 270' FSL,		SALT LAKE	OIL	Active	20,770	10,681 BC	BONE SPRING	06/07/2017	0/80	08/08/2017 11/30	11/30/2017	
HZ	30025439180000	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	BILBREY 34-27 B20B FED COM	11	34	215	32E 185' FSL,	185' FSL, 2240' FEL BILL	BILBREY BASIN	Permit	Permit	20,618	10,693 BC	BONE SPRING	07/31/2017				
HZ	30025445490000	MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FED	123H	3	225	32E 150' FSI, 2058' FEI		BILBREY BASIN	Permit	Permit	15,601	10,948 BC	BONE SPRING 2	2018-02-16				
HZ	30025445500000	MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FED	124H	3	225	32E 150' FSI, 1416' FEI		BILBREY BASIN	Permit	Permit	15,709	10,978 BC	BONE SPRING 2	2018-02-16				
HZ	30025445510000	30025445510000 MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FED	131H	3	225	32E 150' FSL, 525' FWI		BILBREY BASIN	Permit	Permit	16,600	10,978 BC	BONE SPRING 2	2018-02-16				
HZ	30025445560000	MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FEDERAL COM	Z03H	3	225	32E 150' FSL, 2088' FEL		WILDCAT	Permit	Permit	16,841	12,588 W	WOLFCAMP 2	2018-02-16				
HZ	30025445530000	MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FEDERAL	133H	3	225	32E 150' FSL, 2118' FEL		BILBREY BASIN	Permit	Permit	16,689	11,944 BC	BONE SPRING 2	2018-02-16				
HZ	30025445520000	MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FEDERAL COM	132H	3	225	32E 150' FSL, 1847' FWL		BILBREY BASIN	Permit	Permit		11,927 BC	,,	2018-02-16				
HZ	30025445550000	MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FEDERAL COM	202H	3	225	32E 150' FSL, 1876' FWI		WILDCAT	Permit	Permit	16,824	12,077 V	WOLFCAMP	2018-02-16				
HZ	30025445480000	MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FEDERAL COM	121H	3	225	32E 150' FSL, 585' FWL		BILBREY BASIN	Permit	Permit	15,653	10,996 BC	(5)	2018-02-26				
HZ	30025445540000	MATADOR PRODUCTION COMPANY	MATADOR PRODUCTION COMPANY	NINA CORTELL FEDERAL COM	Z01H	3	225	32E 150' FSL, 555' FWL		WILDCAT	Permit	Permit	16,816	12,066 W	WOLFCAMP	2018-02-16				
>	30025274720001	GETTY OIL COMPANY	COG OPERATING LIMITED LIABILITY CORP	BILBREY FEDERAL COM	1	4	225	32E 660' FNL,	660' FNL, 1980' FWL BILL	BILBREY	P&A	P&A	15,105	15,105	ATOKA	03/18/1985	03/2		04/01/1985	
>	30025274720000	GETTY OIL COMPANY	COG OPERATING LIMITED LIABILITY CORP	BILBREY FEDERAL COM	1	4	225	32E 660' FNL,	660' FNL, 1980' FWL BILL	BILBREY	P&A	P&A	15,105	15,105	MORROW	07/23/1981	0/80	08/02/1981 01/20	01/20/1982	
DIR	30025274720100	MARBOB ENERGY CORPORATION	COG OPERATING LIMITED LIABILITY CORP	BILBREY FEDERAL	1	4	225	32E 660' FNL,	660' FNL, 1980' FWL BIL	BILBREY	GAS	Active	15,350	15,066	MORROW	10/14/2005	12/1	12/13/2005 03/25	03/25/2006	
>	30025319860000	_	SIETE OIL & GAS CORPORATION	OTTAWA STATE	1	3	225	32E 1980' FSL, 1980' FWL		WILDCAT	D&A	P&A	8,935	3 35 8	DELAWARE	06/23/1993	0//0	07/03/1993 08/11	08/11/1993	
>	30025319860001	WTILIMITED	WTHIMITED	OTTAWA STATE	1	3	225	32E 1980' FSL, 1980' FWL		WILDCAT	Re-entry	P&A	8,935	3 286'8	DELAWARE	09/05/1993	1/60	2/01 2661/51/60	10/25/1994 10/25/19	25/1994
		1					1		-											

THERE ARE NO WELLS WITHIN THE 1 MILE RADIUS AREA OF REVIEW THAT PENETRATE THE DEVONIAN FORMATION (EST TOP 15,780')

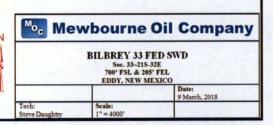


1/2 MILE AREA OF REVIEW

1 MILE AREA OF REVIEW

2 MILE AREA OF REVIEW

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



MEWBOURNE OIL COMPANY
Bilbrey 33 Fed SWD #1 Permit Application
Listing of Fresh Water Wells (NM Office of the State Engineer)

POD Number	POD Subbasin	County	SOURCE				Sec	Twp	Rng	AT	LONG	START DATE	FINISH	Depth Well	Depth Water DRILLER	DRILLER
C03717 POD1	С	LEA	SHALLOW	SE	SE	WN	9	228	32E	32.40705	-103.6804	14	14	650'		KEY, GARY
C 03724 POD1	С	LEA		NE	WN	WN	9	228	32E	32.413158	-103.6858					
C 03771 POD1	С	LEA		SE	WS	WS	9	228	32E	32.406969	-103.68562					

## **Prokem** WATER ANALYSIS REPORT

SAMPL

Oil Co.: Mewbourne Oil Lease : Bilbrey 34/27

**Dissolved Gasses** 

Well No.: B2NC Location:

Attention:

Date Sampled: 14-March-2018 Date Analyzed: 15-March-2018 Lab ID Number: Mar1618.003-2

EQ. WT.

\*MEQ/L

Salesperson:

MG/L

File Name: Mar1618.003

## **ANALYSIS**

1.	Ph	6.430
2.	Specific Gravity 60/60 F.	1.093
-		

**CACO3 Saturation Index** @ 80F 0.127 Mild @140F 1.007 Moderate

4. Hydrogen Sulfide 0 5. Carbon Dioxide 30

Dissolved Oxygen 6. **Not Determined** 

(	Cations					
7.	Calcium	(Ca++)		8,176	/ 20.1 =	406.77
8.	Magnesium	(Mg++)		1,094	/ 12.2 =	89.67
9.	Sodium	(Na+)	(Calculated)	37,575	/ 23.0 =	1,633.70
10.	Barium	(Ba++)		<b>Not Determined</b>		
-	Anions					
11.	Hydroxyl	(OH-)		0	/ 17.0 =	0.00
12.	Carbonate	(CO3=)		0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO3-)		236	/ 61.1 =	3.86
14.	Sulfate	(SO4=)		650	/ 48.8 =	13.32
15.	Chloride	(CI-)		74,983	/ 35.5 =	2,112.20
16.	Total Dissolved	Solids		122,714		
17.	Total Iron	(Fe)		28.00	/ 18.2 =	1.54

18. Manganese (Mn++) **Not Determined** 24,922

19. Total Hardness as CaCO3

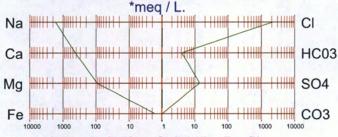
20. Resistivity @ 75 F. (Calculated)

## PROBABLE MINERAL COMPOSITION

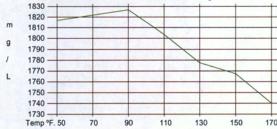
0.064 Ohm · meters

11100	VPFF IMILIATION		JOINI 0011		
COMPOUND	meq/L	X	EQ. WT.	= mg	L.
Ca(HCO3)2	3.86		81.04	3	13
CaSO4	13.32		68.07	90	07
CaCl2	389.58		55.50	21,6	22
Mg(HCO3)2	0.00		73.17		0
MgSO4	0.00		60.19		0
MgCl2	89.67		47.62	4,2	70
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	1,632.94		58.46	95,4	62
	* millieguivale	ents	per Liter		

## LOGARITHMIC WATER PATTERN



## Calcium Sulfate Solubility Profile



Tony Abernathy, Analyst

## Prokem WATER ANALYSIS REPORT

SAMPL

Oil Co.: Mewbourne Oil Lease: Bilbrey 34/27 Well No.: B2MD

Location:

Attention:

Date Sampled: 14-March-2018
Date Analyzed: 15-March-2018
Lab ID Number: Mar1618.003-3

EQ. WT.

\*MEQ/L

1.84

Salesperson:

MG/L

**Not Determined** 

File Name: Mar1618.003

## **ANALYSIS**

1.	Ph	6.400
2.	Specific Gravity 60/60 F.	1.093
0	CACCO Catamatian Index	@ 00F

4. Hydrogen Sulfide5. Carbon Dioxide030

Dissolved Oxygen

**Dissolved Gasses** 

Cations

Julions					
Calcium	(Ca++)		6,854	/ 20.1 =	341.00
Magnesium	(Mg++)		1,750	/ 12.2 =	143.44
Sodium	(Na+)	(Calculated)	39,092	/ 23.0 =	1,699.65
Barium	(Ba++)		Not Determined		
Anions					
Hydroxyl	(OH-)		0	/ 17.0 =	0.00
Carbonate	(CO3=)		0	/ 30.0 =	0.00
Bicarbonate	(HCO3-)		246	/ 61.1 =	4.03
Sulfate	(SO4=)		525	/ 48.8 =	10.76
	Calcium Magnesium Sodium Barium Anions Hydroxyl Carbonate Bicarbonate	Calcium (Ca++) Magnesium (Mg++) Sodium (Na+) Barium (Ba++) Anions Hydroxyl (OH-) Carbonate (CO3=) Bicarbonate (HCO3-)	Calcium (Ca++) Magnesium (Mg++) Sodium (Na+) (Calculated) Barium (Ba++)  Anions Hydroxyl (OH-) Carbonate (CO3=) Bicarbonate (HCO3-)	Calcium       (Ca++)       6,854         Magnesium       (Mg++)       1,750         Sodium       (Na+)       (Calculated)       39,092         Barium       (Ba++)       Not Determined         Anions       Hydroxyl       (OH-)       0         Carbonate       (CO3=)       0         Bicarbonate       (HCO3-)       246	Calcium       (Ca++)       6,854       / 20.1 =         Magnesium       (Mg++)       1,750       / 12.2 =         Sodium       (Na+)       (Calculated)       39,092       / 23.0 =         Barium       (Ba++)       Not Determined         Anions       O       / 17.0 =         Carbonate       (CO3=)       0       / 30.0 =         Bicarbonate       (HCO3-)       246       / 61.1 =

 13. Bicarbonate
 (HCO3-)
 246
 / 61.1 =
 4.03

 14. Sulfate
 (SO4=)
 525
 / 48.8 =
 10.76

 15. Chloride
 (Cl-)
 76,983
 / 35.5 =
 2,168.54

 16. Total Dissolved Solids
 125,450

17. Total Iron (Fe) 33.50 / 18.2 = 18. Manganese (Mn++) Not Determined

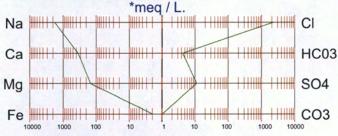
19. Total Hardness as CaCO3

Not Determined
24,322

20. Resistivity @ 75 F. (Calculated)

0.061 Ohm · meters

## LOGARITHMIC WATER PATTERN



## Calcium Sulfate Solubility Profile



## PROBABLE MINERAL COMPOSITION

PROB	ARLE MINER	AL	COMPOSIT	10	N
COMPOUND	meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	4.03		81.04		326
CaSO4	10.76		68.07		732
CaCl2	326.21		55.50		18,105
Mg(HCO3)2	0.00		73.17		0
MgSO4	0.00		60.19		0
MgCl2	143.44		47.62		6,831
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	1,698.88		58.46		99,317
	* millieguivale	ents	per Liter		

Tony Abernathy, Analyst

# **DELAWARE FORMATION WATER ANALYSIS**

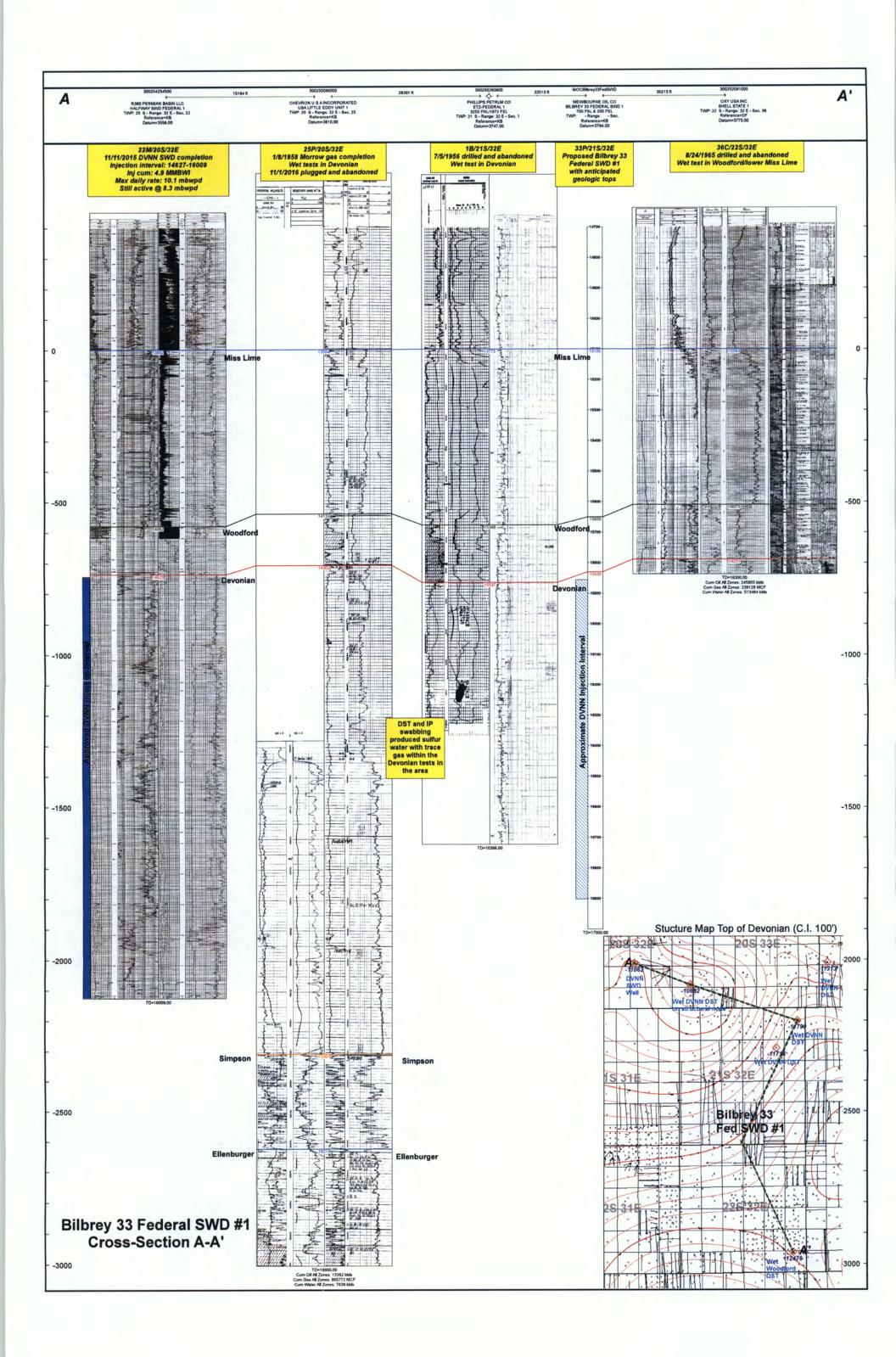
WELLNAME	API	SEC TWP RGE	VP RG	E UNIT	FORM	SAMPLE DATE	hd	SG	tds_mgL	sodium_mgL	calcium_mgL	iron mgL	magnesium_mgL	manganese_mgL	chloride mgL b	chloride mgL bicarbonate mgL	sulfate mgL	co2 mgL
SHAQTUS 26 STATE COM #001H	3001539819 35		21S 31E	D 3	DELAWARE-BRUSHY CANYON	8/17/2014 0:00	5.84		275,254	66,551.0	22,900.4	129.8	3,667.4	7.52	178,541	501		
SHAQTUS 26 STATE COM #002H	3001539896 35		21S 31E	C	DELAWARE-BRUSHY CANYON	8/17/2014 0:00	5.5		277,744	68,318.8	24,083.0	49.3	3,748.2	7.48	178,494	48.8	51	470
SHAQTUS 26 STATE COM #003H	3001539994 35	_	21S 31E	E B	DELAWARE-BRUSHY CANYON	8/17/2014 0:00	5.4		276,535	62,487.9	23,588.6	44.4	3,713.6	7.16	180,730	61	34	460
SHAQTUS 26 STATE COM #004H	3001540012 35		21S 31E	E A	DELAWARE-BRUSHY CANYON	8/17/2014 0:00	5.4		284,057	68,589.5	25,357.4	46.0	3,987.2	7.74	182,699	48.4	17	300
<b>BIG ARISTOTLE 27 STATE #001H</b>	3001540106 34		21S 31E	E B	DELAWARE-BRUSHY CANYON	8/17/2014 0:00	5.6		276,448	68,426.3	23,192.1	46.0	3,619.1	6.9	177,891	164	17	430
<b>BIG ARISTOTLE 27 STATE #002H</b>	3001540107	34	21S 31E	E A	DELAWARE-BRUSHY CANYON	8/17/2014 0:00	2.7		273,306	65,793.0	22,494.0	39.8	3,571.1	6.37	178,195	61	85	460
LUCY ALC STATE #002	3001531792 34		21S 31E	-	DELAWARE	8/29/2001 0:00	5.7	1.193			20,986.0	198.0	3,819.0		159,964	73	195	
LUCY ALC STATE #003	3001531793 34		21S 31E	E 7	DELAWARE	9/4/2001 0:00	5.63	1.178			18,124.0	175.0	2,893.0		144,967	73	145	
SHAQTUS 26 STATE COM #003H	3001539994	35	21S 31E	E B	DELAWARE-BRUSHY CANYON	10/22/2015 0:00	6.3		289,704	71,270.1	27,172.3	43.4	4,241.8		183,682		514.2	475
<b>BIG ARISTOTLE 27 STATE #001H</b>	3001540106 34		21S 31E	E B	DELAWARE-BRUSHY CANYON	11/26/2014 0:00	6.2		205,360	60,151.5	13,115.8	73.7	2,122.5	2.49	126,981	244	0	300
SHAQTUS 26 STATE COM #004H	3001540012 35 21S 31E	35 2.	15 31	E A	DELAWARE-BRUSHY CANYON	6/16/2015 0:00	5.8		296,787	74,498.9	28,358.4	37.6	4,510.9	8.5	186,101		324.6	

DATA SOURCE: GO-TECH

# **DELAWARE FORMATION WATER ANALYSIS**

UNIT FORM		SAMPLE DATE	ph S(	SG td	tds_mgL soc	sodium_mgL ca	calcium_mgL ir	on_mgl_ma	iron_mgL magnesium_mgL	manganese_mgL	chloride_mgL bicarbonate_mgL	carbonate_mgL	sulfate_mgL co2_mgL
D DELAWARE-BRUSHY CANYON 8/17/2014 0:00		4 0:00	5.84		275,254	66,551.0	22,900.4	129.8	3,667.4	7.52	178,541	501	73.2
C DELAWARE-BRUSHY CANYON 8/17/2014 0:00		14 0:00	5.5	1/2	277,744	68,318.8	24,083.0	49.3	3,748.2	7.48	178,494	48.8	51
B DELAWARE-BRUSHY CANYON 8/17/		8/17/2014 0:00	5.4		276,535	65,487.9	23,588.6	44.4	3,713.6	7.16	180,730	61	34
A DELAWARE-BRUSHY CANYON 8/17,		8/17/2014 0:00	5.4		284,057	68,589.5	25,357.4	46.0	3,987.2	7.74	182,699	48.4	17
B DELAWARE-BRUSHY CANYON 8/17		8/17/2014 0:00	5.6		276,448	68,426.3	23,192.1	46.0	3,619.1	6.9	177,891	164	17
A DELAWARE-BRUSHY CANYON 8/17		8/17/2014 0:00	5.7		273,306	65,793.0	22,494.0	39.8	3,571.1	6.37	178,195	61	85
I DELAWARE 8/29	8/29	8/29/2001 0:00	5.7	1.193			20,986.0	198.0	3,819.0		159,964	73	195
J DELAWARE 9/4	9/6	9/4/2001 0:00	5.63	1.178			18,124.0	175.0	2,893.0		144,967	73	145
B DELAWARE-BRUSHY CANYON 10/2		10/22/2015 0:00	6.3		289,704	71,270.1	27,172.3	43.4	4,241.8		183,682		514.2
B DELAWARE-BRUSHY CANYON   11/7		11/26/2014 0:00	6.2		205,360	60,151.5	13,115.8	73.7	2,122.5	2.49	126,981	244	0
A DELAWARE-BRUSHY CANYON 6/16/2015 0:00	/9 NC	16/2015 0:00	5.8		296,787	74,498.9	28,358.4	37.6	4,510.9	8.5	186,101		324.6

DATA SOURCE: GO-TECH



April 12, 2018

New Mexico Oil Conservation Division Engineering Bureau 1220 South St. Francis Dr. Santa Fe, NM 87505

Re: C-108 Application for SWD Well

Bilbrey 33 Fed SWD #1

700' FSL & 205' FEL , Unit P

Section 33, Township 21 South, Range 32 East

Lea County, New Mexico

Enclosed are an original and one copy of Mewbourne Oil Company's C-108 Application for administrative approval of its proposed Bilbrey 33 Fed SWD #1. Mewbourne plans to drill this well that is located in Sec 33, Twp 21S, Rge 32E, N.M.P.M., Lea County, New Mexico, and complete as a private salt water disposal well in the Devonian formation.

An application with exhibits has been sent to offset operators, mineral owners and the surface owner (distribution list attached) and confirmations of receipt will be e-mailed to you next week. The public notice of this application should be published in the obbs News-Sun this weekend and the Affadavit of Publication will also be forwarded to you.

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

Sincerely yours,

**MEWBOURNE OIL COMPANY** 

Tim Harrington Reservoir Engineer

tharrington@mewbourne.com

903-534-7647

## Goetze, Phillip, EMNRD

From:

Tim Harrington <tharrington@mewbourne.com>

Sent:

Monday, April 16, 2018 10:04 AM

To:

Goetze, Phillip, EMNRD; McMillan, Michael, EMNRD

Subject:

**BILBREY 33 FED SWD PERMIT APPLICATION** 

**Attachments:** 

Bilbrey 33 Fed SWD Proof of Delivery.pdf

Attached are Proofs of Delivery to the surface owner, mineral owner and offsetting operators for our Bilbrey 33 Fed SWD permit application that you should have received last Friday. Please get back with me if you have any questions.

NOTE: Our Legal Notice was printed in the Hobbs News-Sun on Saturday. I will forward you the Proof of Publication form when I receive it. Thanks.

## **Public Notice**

**Print This Notice** 

Search in this notice, CTRL+F or APPLE+F
NOTE: Some notices are extracted from PDF files and may be difficult to read.

County: Lea

Printed In: Hobbs News-Sun Printed On: 2018/04/14

Return to Found List

**New Search** 

Return To Current Search Criteria

## **Public Notice:**

LEGAL NOTICE April 14, 2018 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 Bilbrey 33 Fed SWD #1 as a private salt water disposal well. The Bilbrey 33 Fed SWD #1 is located 700' FSL and 205' FEL, Unit Letter P, Section 33, Township 21 South, Range 32 East, NMPM, Lea County, New Mexico. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation into an open-hole interval from a depth of 15,780 feet to 16,830 feet. Expected maximum injection rates are 18,000 BWPD at a maximum injection pressure of 3,156 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 30 miles West of Eunice, New Mexico. #32711

Public Notice ID: 24699275

## **Tim Harrington**

Reservoir Engineer Mewbourne Oil Company 3620 Old Bullard Road PO Box 7698 Tyler, TX 75701

W- 903-561-2900 (Ext 7647)

C - 832 - 217 - 6852

tharrington@mewbourne.com

Shipping: UPS Page 1 of 2



Transaction Date: 12 Apr 2018 Tracking Number: 1ZF698E80193083571 (1) ADDRESS INFORMATION Ship To: Ship From: Return Address: New Mexico Oil Conservation Mewbourne Oil Company Mewbourne Oil Company Kim Ripka Kim Ripka Engineering Bureau 1220 South St. Francis Dr. 3901 South Broadway 3901 South Broadway TYLER TX 75701 TYLER TX 75701 SANTA FE NM 875054225 Telephone:903-561-2900 Telephone:903-561-2900 Residential email:rmcdaniel@mewbourne email:rmcdaniel@mewbor .com .com 2 PACKAGE INFORMATION WEIGHT **DIMENSIONS / PACKAGING DECLARED VALUE REFERENCE NUMBERS** Letter **UPS Letter** (Letter billable) **3** UPS SHIPPING SERVICE AND SHIPPING OPTIONS UPS Next Day Air Service: Guaranteed By: 10:30 AM Friday, Apr 13, 2018 **Shipping Fees Subtotal:** 44.49 USD Transportation 37,33 USD **Fuel Surcharge** 3.01 USD **Residential Surcharge** 4.15 USD (4) PAYMENT INFORMATION **Bill Shipping Charges to:** Shipper's Account F698E8 **Shipping Charges:** 44.49 USD A discount has been applied to the Daily rates for this shipment **Negotiated Charges:** 30.47 USD

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

**Subtotal Shipping Charges:** 

**Total Charges:** 

30.47 USD

30.47 USD

Tracking: UPS Page 1 of 1



## **Proof of Delivery**

Close Window

Dear Customer,

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

Tracking Number:

12F698E80193083571

Service:

UPS Next Day Air®

Shipped/Billed On:

04/12/2018

Delivered On:

04/13/2018 10:11 A.M.

Delivered To:

SANTA FE, NM, US

Received By:

BARELA

Left At:

Mail Room

Thank you for giving us this opportunity to serve you.

Sincerely,

Tracking results provided by UPS: 04/13/2018 2:03 P.M. ET

Shipping: UPS Page 1 of 2

1ZF698E80196812250



Transaction Date: 12 Apr 2018 Tracking Number:

**1** ADDRESS INFORMATION

2 PACKAGE INFORMATION

Ship To: Ship From:

JKM Energy, LLC 26 E. Compress Road ARTESIA NM 882109215

Residential

Mewboume Oil Company Kim Ripka 3901 South Broadway TYLER TX 75701

TYLER TX 75701
Telephone:903-561-2900
email:rmcdanlei@mewbourne

Return Address: Mewbourne Oil Company Kim Ripka 3901 South Broadway

TYLER TX 75701
Telephone:903-561-2900
email:rmcdaniel@mewbourne

WEIGHT DIMENSIONS / PACKAGING DECLARED VALUE REFERENCE NUMBERS

Letter (Letter billable)

**3** UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service:

UPS Next Day Air

Guaranteed By:

End of Day Friday, Apr 13, 2018

Shipping Fees Subtotal:

47.16 USD

Transportation
Fuel Surcharge

35.37 USD

Residential Surcharge

3.19 USD 4.15 USD

icesiociniai sai chaige

Delivery Area Surcharge - Extended

Package 1

4.45 USD

**4** PAYMENT INFORMATION

**Bill Shipping Charges to:** 

Shipper's Account F698E8

**Shipping Charges:** 

47.16 USD

A discount has been applied to the Daily rates for this shipment

**Negotiated Charges:** 

33.88 USD

**Subtotal Shipping Charges:** 

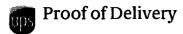
33.88 USD

**Total Charges:** 

33.88 USD

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

Tracking: UPS Page 1 of 1



Close Window

Dear Customer,

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

Tracking Number:

12F698E80196812250

Service:

UPS Next Day Air®

Shipped/Billed On:

04/12/2018

Delivered On:

04/13/2018 1:58 P.M.

Delivered To:

ARTESIA, NM, US

Left At:

Front Door

Thank you for giving us this opportunity to serve you. Sincerely,

LIBC

UPS

Tracking results provided by UPS: 04/13/2018 4:09 P.M. ET

Shipping: UPS Page 1 of 2



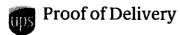
1ZF698E80195228661 Transaction Date: 12 Apr 2018 Tracking Number: 1 ADDRESS INFORMATION Ship To: Ship From: Return Address: Bureau Of Land Management Mewbourne Oil Company Kirn Ripka 3901 South Broadway 620 East Greene Street Klm Ripka CARLSBAD NM 882206292 3901 South Broadway TYLER TX 75701 **TYLER TX 75701** Telephone:903-561-2900 Telephone:903-561-2900 .com (2) PACKAGE INFORMATION **DIMENSIONS / PACKAGING DECLARED VALUE** REFERENCE NUMBERS WEIGHT **UPS Letter** Letter (Letter billable) **3** UPS SHIPPING SERVICE AND SHIPPING OPTIONS UPS Next Day Air Guaranteed By: End of Day Friday, Apr 13, 2018 Shipping Fees Subtotal: Transportation 35.37 USD **Fuel Surcharge** 2.76 USD **Delivery Area Surcharge** Package 1 2.75 USD **4** PAYMENT INFORMATION **Bill Shipping Charges to:** Shipper's Account F698E8 **Shipping Charges:** 40.88 USD A discount has been applied to the Daily rates for this shipment **Negotiated Charges:** 27.60 USD

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

Subtotal Shipping Charges:

**Total Charges:** 

27.60 USD 27.60 USD Tracking: UPS Page 1 of 1



Close Window

Dear Customer,

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

Tracking Number:

12F698E80195228561

Service:

UPS Next Day Air®

Shipped/Billed On:

04/12/2018

Delivered On:

04/13/2018 3:39 P,M,

Delivered To:

CARLSBAD, NM, US

Received By:

NORRIS

Left At:

Reception

Thank you for giving us this opportunity to serve you.

Sincerely,

ıınc .

Tracking results provided by UPS: 04/13/2018 5:44 P.M. ET

Shipping: UPS Page 1 of 2

## Shipment Receipt

**Fuel Surcharge** 

Transaction Date: 12 Apr 2018 Tracking Number: 1ZF698E80199947270 **1** ADDRESS INFORMATION Ship To: Ship From: Return Address: One Lincoln Center 5400 LBJ Freeway, Suite 1500 Kim Ripka 3901 South Broadway Kim Ripka 3901 South Broadway DALLAS TX 752401017 **TYLER TX 75701** TYLER TX 75701 Telephone:903-561-2900 Telephone:903-561-2900 email:rmcdanlel@me 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 Next Day Air
Guaranteed By: 10:30 AM Friday, Apr 13, 2018

Shipping Fees Subtotal: 25.08 USD

Transportation 23,38 USD

A discount has been applied to the Daily rates for this shipment
Negotiated Charges:

Subtotal Shipping Charges:

16.51 USD

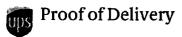
Total Charges:

16.31 USD

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

1.70 USD

Tracking: UPS Page 1 of 1



Close Window

Dear Customer,

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

Tracking Number:

1ZF698E80199947270

Service:

UPS Next Day Air®

Shipped/Billed On:

04/12/2018

Delivered On:

04/13/2018 9:45 A.M.

Delivered To:

Received By:

DALLAS, TX, US

BROWN

Left At:

Reception

Thank you for giving us this opportunity to serve you.

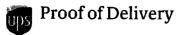
Sincerely,

UPS

Tracking results provided by UPS: 04/13/2018 2:05 P.M. ET

https://wwwapps.ups.com/WebTracking/processPOD?Requester=&tracknum=1ZF698E80... 4/13/2018

Tracking: UPS Page 1 of 1



Close Window

Dear Customer,

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

Tracking Number: 12F698E80195092085

Service: UPS Next Day Air®

Shipped/Billed On: 04/12/2018

Delivered On: 04/13/2018 10:29 A.M.

Delivered To: MIDLAND, TX, US

Received By: JAY

Left At: Mail Room

Thank you for giving us this opportunity to serve you.

Sincerely,

Tracking results provided by UPS: 04/13/2018 2:07 P.M. ET

Shipping: UPS Page 1 of 2



1ZF698E80195092085 Transaction Date: 12 Apr 2018 Tracking Number: **1** ADDRESS INFORMATION Ship To: Ship From: Return Address: COG Operating, LLC One Concho Center Kim Ripka Kirn Ripka 600 W. Illinois Ave 3901 South Broadway 3901 South Broadway MIDLAND TX 797014882 TYLER TX 75701 TYLER TX 75701 Telephone:903-561-2900 Telephone:903-561-2900

(2) PACKAGE INFORMATION

WEIGHT DIMENSIONS / PACKAGING DECLARED VALUE REFERENCE NUMBERS

Letter (Letter billable)

**3** UPS SHIPPING SERVICE AND SHIPPING OPTIONS

Service:

UPS Next Day Air

Guaranteed By:

10:30 AM Friday, Apr 13, 2018

Shipping Fees Subtotal:

37.93 USD

Transportation

35.37 USD

**Fuel Surcharge** 

2.56 USD

4 PAYMENT INFORMATION

Bill Shipping Charges to:

**Shipping Charges:** 

Shipper's Account F698E8

A discount has been applied to the Daily rates for this shipment **Negotiated Charges:** 

24.65 USD

37.93 USD

Subtotal Shipping Charges:

24.65 USD

**Total Charges:** 

24.65 USD

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

Shipping: UPS Page 1 of 2



Transaction Date: 12 Apr 2018 Tracking Number: 12F698E80195867097

**1** ADDRESS INFORMATION

Ship To:

Ship From:

Return Address:

Devon Energy Production Company, LP 333 W. Sheridan Avenue OKLAHOMA CITY OK 731025010 Mewbourne Oil Company Kim Ripka 3901 South Broadway TYLER TX 75701 Telephone:903-561-2900 Mewbourne Oil Company Kim Ripka 3901 South Broadway TYLER TX 75701 Telephone:903-561-2900 emaikrmcdaniel@mewbourn .com

.com

PACKAGE INFORMATION

WEIGHT DIMENSIONS / PACKAGING DECLARED VALUE REFERENCE NUMBERS

Letter
(Letter billable)

**3 UPS SHIPPING SERVICE AND SHIPPING OPTIONS** 

Service:

UPS Next Day Air

Guaranteed By:

10:30 AM Friday, Apr 13, 2018

Shipping Fees Subtotal:

29.88 USD

Transportation

27.86 USD

**Fuel Surcharge** 

2.02 USD

4 PAYMENT INFORMATION

**Bill Shipping Charges to:** 

Shipper's Account F698E8

**Shipping Charges:** 

29.88 USD

A discount has been applied to the Daily rates for this shipment

**Negotiated Charges:** 

19.42 USD

Subtotal Shipping Charges:

19.42 USD

**Total Charges:** 

19.42 USD

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

Tracking: UPS Page 1 of 1



# **Proof of Delivery**

Close Window

Dear Customer,

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

Tracking Number:

1ZF698E80195867097

Service:

UPS Next Day Air®

Shipped/Billed On:

04/12/2018

Defivered On:

04/13/2018 3:54 P.M.

Delivered To:

OKLAHOMA CITY, OK, US

Received By:

WELLS

Left At:

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS: 04/13/2018 5:44 P.M. ET

# McMillan, Michael, EMNRD

From:

Tim Harrington <tharrington@mewbourne.com>

Sent:

Thursday, April 19, 2018 3:49 PM

To:

Goetze, Phillip, EMNRD; McMillan, Michael, EMNRD

Subject:

FW: PUBLIC NOTICE - BILBREY 33 FED SWD #1

**Attachments:** 

MOC Bilbrey 33 Fed SWD Affidavit of Publication.pdf

Attached is an Affidavit of Publication for our Bilbrey 33 Fed SWD #1 application. Please get back with me if you have any questions. Thanks.

# **Tim Harrington**

Reservoir Engineer Mewbourne Oil Company 3620 Old Bullard Road PO Box 7698 Tyler, TX 75701

W- 903-561-2900 (Ext 7647) C - 832-217-6852 tharrington@mewbourne.com

From: Amity Hipp-Ter1 [mailto:ter1@hobbsnews.com]

**Sent:** Thursday, April 19, 2018 4:44 PM

To: Tim Harrington

Subject: Re: PUBLIC NOTICE - BILBREY 33 FED SWD #1

Tim,

Attached is the affidavit and tear sheet.

Amity

# **Affidavit of Publication**

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated April 14, 2018 and ending with the issue dated April 14, 2018.

Publisher

Sworn and subscribed to before me this 14th day of April 2018.

Business Manager

My commission expires

vanuary 29, 2019

OFFICIAL SEAL
GUSSIE BLACK
Notary Fublic
State of New Mexico

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

# LEGALS

LEGAL NOTICE April 14, 2018

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 Bibrey 33 Fed SWD #1 as a private salt water disposal well.

The Bilbrey 33 Fed SWD#1 is located 700' FSL and 205' FEL, Unit Letter R. Section 33. Township 21. South, Range 32 East, NMPM, Lea County, New Mexico. This well will dispose of water produced from nearby=oil and gas wells into the Devonian formation into an open-hole interval from, a depth of 15.780 feet to 16.830 feet. Expected maximum injection rates are 18.000 BWPD at a maximum injection pressure of 3,156 psi.

Interested parties must the objections or requests for hearing with the Oil Conservation Divison 1220 South St. Francis Drive, Santa Fe, New Maxico 87505, within 15 days. The name and address of the contact party for the applicant is Tim Harrington, Mewbourne Oil Company, 3620 Oid Bullard Hoad, Tyler. Texas 76701 (903)-534-7647. The well is located approximately 30 miles West of Eunice, New Mexico.

01102551

00210178

DREW GREENE MEWBOURNE OIL COMPANY P.O. BOX 7698 TYLER, TX 75711

# MEWBOURNE OIL COMPANY BILBREY 33 FED SWD #1 SWD PERMIT APPLICATION

# **LIST OF ATTACHMENTS:**

**Administrative Checklist** 

Form C-108

Bilbrey 33 Fed SWD #1 well schematic

Bilbrey 33 Fed SWD #1 survey plat

Well Plat

Tabulation of wells within 1 mile radius

Fresh Water well map

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

Producing Well Water Analysis – 2<sup>nd</sup> Bone Spring Formation

Producing Well Water Anaylsis - Delaware Formation

Offset Operator Map

**Listing of Notified Persons** 

**Hydrologic Affirmation** 

**Geological Cross Section** 

FORM C-10	)8 Technical ∣	Review Summary	[Prepared	by reviewer and includ	ed with application; V16.2]			
/ / <del>**********************************</del>				<b>-</b>	. 1 6			
DATE RECORD: First Rec: 04/13/18 Admin Complete: 4/19/18 or Suspended: Appl. Wanted Changes to include design Add. Request/Reply: ORDER TYPE: WFX/PMX/SWD Number: 1859 Order Date: 01/15/19 Legacy Permits/Orders: 12/13/18								
Well No Well Name(s):	Bilbray 37	3 Federal SUD			•			
API: 30-0 25- Pending	()		New or Old	(EDA): Now WICC	lass II Primacy 03/07/1982)			
		or Unit _P_ Sec _33						
General Location: East of County	line: 9 mi So	F Hobbs Hahmey POOKSW	0. Devonia	$\sim$	Pool No.: 9610			
BLM 100K Map:	Operator: Mew	course Oil Company	OGRIC	14744 Conta	ct: Tim Harrisalma / MOC.			
COMPLIANCE RULE 5.9: Total Wel		' (1			λ΄			
WELL FILE REVIEWED Ourrent		^	/		all			
WELL DIAGRAMS: NEW: Proposed	or RE-ENTER:	: Before Conv. O After C	J onv.	.ogs in Imaging:				
Planned Rehab Work to Well:	•	s-but minor)						
Well Construction Details	Sizes (in)	Setting Depths (ft)		Cement	Cement Top and			
Planned or Existing _Surface		775	Stage Tool	Sx pr Cf	Determination Method  Circulate to Sur			
Planned_or ExistingInterm	17/2/133/8	4715	-	1900	Circulate to surface			
Planned_vor ExistingInterm/Prod	12/4/95/8	11900	DV9475		Circulate to surpro			
Planned_or Existing Prod/ciner	1/2/75/6	11,400 to 15,780		825	CBL			
Planned_or Existing <b>Liner</b>								
Planned or Existing OH PERF	61/2	15780 to 16830	Inj Length しめる	Completion	/Operation Details:			
Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Drilled TD	PBTD			
Adjacent Unit: Litho. Struc. Por.	renta de la companya	Mississippian	15100	NEW TD 16830	_ NEW PBTD			
Confining Unit: Lifto Struc. For	1550	Woodford	15650	NEW Open Hoje	or NEW Perfs			
Proposed Inj Interval TOP:		Devorior		Tubing Size	7 in. Inter Coated? Yes			
Proposed Inj Interval BOTTOM:	/683O			Proposed Packer De	epth 13700 It			
Confining Unit: Litho Struc. Por	16830	russelman		· ·	15680 (100-ft limit)			
	Adjacent Unit: Litho. Struc. Por. Montage Proposed Max. Surface Press. 3156 psi  AOR: Hydrologic and Geologic Information Proposed Max. Surface Press. 3156 (0.2 psi per ft)							
			·	Admin. Inj. Press	3156 (0.2 psi per ft)			
POTASH: R-111-P & Noticed VillaBLM Sec Ord WIPP Noticed Salt/Salado E 1345 ONW: Cliff House fm SRESH WATER: Aquife Rustler Tolor Max Depth 4650 HYDRO AFFIRM STATEMENT, By Qualified Person W								
FRESH WATER: Aquife	Tanta Rosa	Max Depth <63C	HYDRO	AFFIRM STATEMEN	NT By Qualified Person			
		wax bepth to No.						
Disposal Fluid: Formation Source(s	, ,	_ <sub>1</sub>			nly or Commercial			
Disposal Interval: Inject Rate (Avg/								
HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&AOther Mulica 2-Mi Radius Pool Map O								
AOR Wells: 1/2-M Radius Map and Well List? 165 No. Penetrating Wells: [AOR Horizontals: AOR SWDs:]								
Penetrating Wells: No. Active Wells Num Repairs? on which well(s)? Diagrams? Diagrams?								
Penetrating Wells: No. P&A Wells_	<del>`</del>				Diagrams?			
NOTICE: Newspaper Date 04 14 18 Mineral Owner BLM Surface Owner BLM N. Date 04 12 18								
RULE 26.7(A): Identified Tracts? Yes Affected Persons: COG   Matadar   Davon JKM cheracy N. Date 04/12/18								
Order Conditions: Issues: He potential / cont of liner to TOL only expanded notion no IS assessment								
Additional COAs: CBL for 1	iner   Mudlog	with picks not	ice if Cr	nt not circulate	od/BH pressure			

# Goetze, Phillip, EMNRD

From: Tim Harrington < tharrington@mewbourne.com>

Sent: Thursday, December 13, 2018 8:46 AM

**To:** Goetze, Phillip, EMNRD

Subject:[EXT] BILBREY 33 FED SWD #1 PERMIT APPLICATIONAttachments:BILBREY 33 FED SWD REVISED & NEW EXHIBITS.PDF

# Phillip:

As a follow-up to our recent conversations, attached is a PDF containing the following:

- 1. Revised Injection Well Data Sheets for C-108
- 2. Revised well schematic
- 3. Plugging Risk Assessment (NEW)

We have submitted our BLM drilling permit and have attached a well schematic that highlights that we plan to run a 7" x 5.5" injection string. Please confirm that this documentation would be considered adequate BLM notification.

Please get back with me if you have any further questions or require additional data. Thanks.

# **Tim Harrington**

Reservoir Engineer Mewbourne Oil Company 3620 Old Bullard Road PO Box 7698 Tyler, TX 75701

W- 903-561-2900 (Ext 7647) C - 832-217-6852 tharrington@mewbourne.com

# Goetze, Phillip, EMNRD

From: Rutley, James < jrutley@blm.gov>

Sent: Wednesday, November 28, 2018 11:15 AM

**To:** Goetze, Phillip, EMNRD

Cc: Kautz, Paul, EMNRD; Brown, Maxey G, EMNRD; McMillan, Michael, EMNRD; Jones,

William V, EMNRD

**Subject:** [EXT] Bilbrey 33 SWD 1; 700' FSL & 205' FEL, Sec 33 T21S R32E.

Good Morning Phillip,

I hope you had a nice Thanksgiving with your family. I sure did spending the holiday with family in Virginia/DC area.

We met with Mewbourne in February 2018 to discuss their original location approximately mid section line in Section 33 of 21S 32E. We told them that the location would impact the development area that was designated for Sections 33 and 28 in 21S 32E. Conoco who is the lessee in Section 33 has been reluctant to propose their development area for the two sections because the W2 of Section 28 is unleased. We are hoping that after the RMP is authorized, that these unleased lands will be put up for future lease sale.

We encouraged Mewbourne to relocate their SWD closer to the southern section line of Section 33. The drill islands along the southern section line of Section 33 are still in the nominated state (not to scale) which means they have room for modifications to avoid surface resource conflicts. Ideally, these nominated drill islands' well bores are approximately 400 feet from the section lines north and south. Mewbourne asked for a variance to be just north of the easternmost drill island to stay out of the way of Conoco's multiple well/horizon development. Mewbourne asked if the well bore could be approximately 300 feet north of the nominated drill island. This variance is within our objectives for the drill islands. Mewbourne and Conoco will likely be sharing some part of the easternmost pad for their respective wells.

Please feel free to contact me if you have any concerns or comments. Have a great week!

Thanks

Jim

James & Rutley

Geologist (Potash Specialist)

Carlsbad Field Office

Bureau of Land Management

(575) 234-5904

Warning: This message is intended only for use of the individual or entity to which it is addressed, and may contain information that is privileged or confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return letter/fax/email.

Township 21 South Range 32 East of the New Mexico Principal Meridian, New Mexico

County: Lea - 025

BLM Field Office: Carlsbad

CAVEAT STREMENT THE WORLD OF USE OF THE WORLD OF USE OF US 12 13 25 24 98 4 23 26 9000 7 0000 000 5 15 22 27 DOME 1 inch = 30 chains 1 : 23,760 â 1202902 Dic 16 33 28 7 1202002 Dec 1, ឧ 58 32 7.278 2000 74.5m 18 9 સ SBCGES DICARMA SERVE BOOM No. A. 278 DAC OG Pet Soot

BUREAU OF LAND MANAGEMENT STATUS OF PUBLIC DOMAIN LAND AND MINERALS

MTP

T215 R32E

Entire Township included TO Wdl NM I Pot Res 6 (311/1926) Revised Pot Area (1/16/1951, OS/11/1965 Besignated Pot Area 50.10/71975 G of Public Lands NM 0560202 (G No 30-06-01)

DUE TO WIPP SITE LOCATION IN T225 R31E CONTACT DOE PRIOR TO LEASING

MOTE. The setul kinchest deputed are in the Boreach LESCOD referre format.

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T 21S R 32E NMPM



# December 13, 2018

New Mexico Oil Conservation Division Engineering Bureau 1220 South St. Francis Dr. Santa Fe, NM 87505

Re:

C-108 Application for SWD Well

Bilbrey 33 Fed SWD #1 700' FSL & 205' FEL, Unit P

Section 33, Township 21 South, Range 32 East

Lea County, New Mexico

#### Dear Mr. Goetze:

Enclosed are the following revised or supplemental attachments for Mewbourne Oil Company's C-108 Application for administrative approval of its proposed Bilbrey 33 Fed SWD #1.

- 1. Revised Injection Well Data Sheet (C-108)
- 2. Revised well schematic
- 3. Plugging Risk Assessment (NEW)

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

Sincerely yours,

**MEWBOURNE OIL COMPANY** 

Tim Harrington Reservoir Engineer

tharrington@mewbourne.com

903-534-7647

OPERATOR: Mewbourne Oil Company

WELL NAME & NUMBER: Bilbrey 33 Fed SWD #1 (30-015-pending) WELL LOCATION: \_

700' FSL & 205' FEL

SECTION UNIT LETTER FOOTAGE LOCATION

32E

**218** 

TOWNSHIP

WELL CONSTRUCTION DATA

WELLBORE SCHEMATIC (See Attached)

Surface Casing

Casing Size: 20" @ 775' Hole Size: 26"

Top of Cement: Surface Cement with: 1,250 sx (100% excess)

Intermediate Casing

Casing Size: 13 3/8" @ 4,715' Hole Size: 17 1/2"

Top of Cement: Surface Stage 1: 1,900 sx (25% excess)

(Calculated)

Production Casing

Casing Size: 9 5/8" @ 11,900' Hole Size: 12 1/4"

Top of Cement: Surface Stage 1: 1,295 sx (25% excess)

(Calculated)

Stage 2: **1,400 sx** (DV Tool @ 4,775')

Casing Size: 7 5/8" Top @ 11,700" Hole Size: 8 1/2"

Production Liner

Bottom @ 15,780'

Top of Cement: 11,700' Cement with: 825 sx (25% excess)

(Proposed: circulated to liner top)

TD @ 16,830'

Permitted SWD interval 15,780'-16,830' Devonian Formation Injection Interval

# INJECTION WELL DATA SHEET

Tubing Size: 7" x 5 1/2" Lining Material: Duoline

NOTE: 7" injection string set in 9 5/8" casing and 5 1/2" injection string set in 7 5/8" liner

Type of Packer: 4 1/2" x 7 5/8" Packer

Packer Setting Depth: +/- 15,730'

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

# Additional Data

Is this a new well drilled for injection? Yes

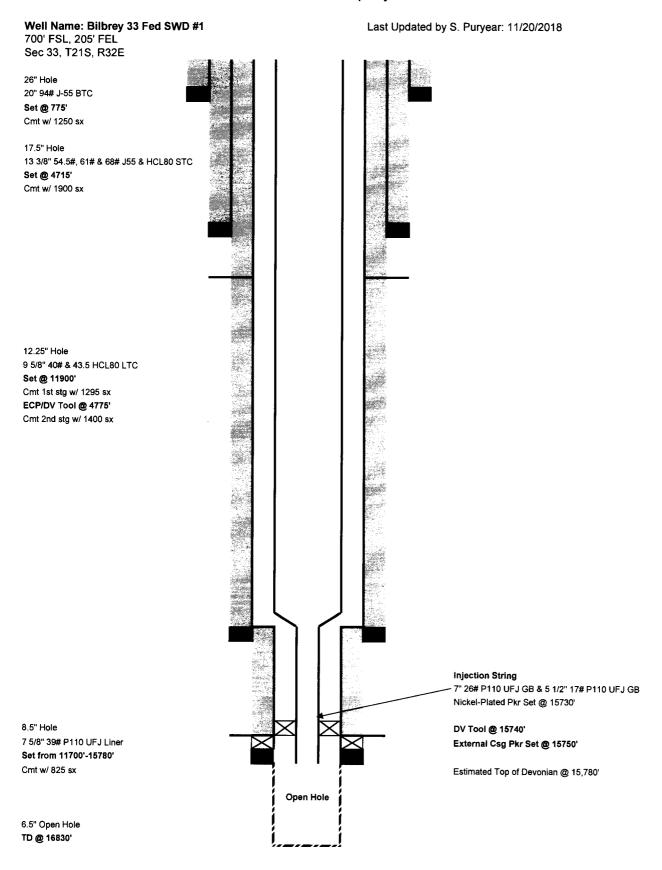
If no, for what purpose was the well originally drilled? NA

- 2. Name of the Injection Formation: Devonian Open Hole Completion
- . Name of Field or Pool (if applicable): 96101 SWD; Devonian
- 4. Has the well ever been perforated in any other zone(s)? No.
- Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: S.

Overlying potentially productive zone tops - Delaware (4,800'), Bone Spring (8,800'), Wolfcamp (11,800'), Strawn (13,200') & Morrow (13,800'),

Underlying producing zone – N/A

# Mewbourne Oil Company



# MEWBOURNE OIL COMPANY Bilbrey 33 Fed SWD #1

# **PLUGGING RISK ASSESSMENT**

# 5 1/2" Flush Joint Injection Tubing Inside of 7 1/8" 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 %" 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

<sup>\*</sup>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 Gueranois

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 Maximum Catch Size 48" to 5%" inclusive

Maximum Datch Size (Spiral)		4%	<b>A</b> ≥ <sub>1</sub>	44	<b>1</b>	5	5	5%
Maximum Culch Size (Baskel)		31%₄	4%	4%	4%	4×	4%	47;
Overshet O.D.		5₩	5%	5%	5%	5%	<del>0%</del>	55,
Туре		F.S.	S.H.	S.H.	S.F.S.	S.H.	F.S.	5 H
Complete Assembly	Part No.	5898	5698	C-5188	8975	C-5171	C-4825	8525
(Oreszed Spiral Parts)	Weight	130	130	133	138	140	192	165
Replacement Parts								
iop Sub	Part No.	5897	5599	A-5169	8976	A-5172	B-4820	\$826
lowl	Part No.	5898	5700	B-5170	8977	B-5173	B-4827	8617
ecker .	Part No.	169	1140	B-2199	5114	L-5950	L-4505	8818
Spiral Grappie	Part No.	165	1135	B-2201	6112	B-4389	M-1071	8819
Spiral Grappia Control	Pert No.	185	1137	8-2202	6113	B-4370	M-1072	8820
Standard Guide	Part No.	187	1143	B-2203	6121	B-4371	Ŀ1074	882*
lunkel Parts								
lankel Grappie	Part No.	165	1135	B-2201	6112	B-4369	M-1071	8819
laskel Grappie Costrol	Part No.	185	1137	8-2202	8113	B-4370	M-1072	8820
Hill Control Packer	Part No.	169-R	1140-R	B-2199-R	8114-R	L-5950-R	M-4505	⊌-8618-F

#### 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 %" 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 %" 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

<sup>\*</sup>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 8% to 7% inclusive

Maximum Catch Size (Spiral)		55)	5≦	7	7%
Maximum Galch Size (Basket)		5%	6%	ę.,	851
Overskol O.D.		8%	7%	3½	89%
Туре		F.S.	5.H.	8 ⊢	S.H.
Complete Assembly	Part No.	C-3032	C-5222	9217	C-5354
(Oressed Spiral Parts)	Weight	280	243	251	280
Replacement Parts					
Top Sub	Part No.	A-3033	A-5223	9218	A-5355
Bowl	Part No.	B-3034	B-5224	9219	B-535B
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	8-5360
Standard Guide	Part No.	A-1818	A-5229	9225	A-5361
Backet Parts					
Basket Grapple	Part No.	N-84	B-5227	9222	8-5359
Basket Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Mill Control Packer	Part No.	A-1814-R	8-5225-R	9224-R	8-5357-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.
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# 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.

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