Initial

Application Part I

Received: 11/14/2019

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

MEWBOURNE OIL COMPANY FREEDOM 36 STATE SWD #1 SWD PERMIT APPLICATION November 12, 2019

LIST OF ATTACHMENTS:

Proof of SWD application fee payment

Administrative Checklist

Form C-108

Freedom 36 State SWD #1 well schematic

Freedom 36 State SWD #1 survey plat

Well Plat

Tabulation of wells within 1-mile radius (NOTE: one well penetrates the Devonian)

- Well schematic for the Fannie Lou Federal #1 (Devonian penetration)
- Pertinent completion documents for the Fannie Lou Federal #1

Fresh Water well map

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

Fresh Water Well Water Analysis

Producing Well Water Analysis – Wolfcamp, & Bone Spring

Offset Operator Map (Midland Map)

Offset Operator Map (Enerdeq)

Offsetting Federal and New Mexico State Minerals Map

Listing of Notified Persons

Affidavit of Publication – Carlsbad Current-Argus

Hydrologic Affirmation

Seismicity Statement

Historical Seismicity, Fault Map and Devonian SWD Offset Map

Distance to Offsetting Devonian SWD Well Map

Geological Cross Section

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Plugging Assessment

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

Receipt of Fee Application Payment



PO Number: UT48U-191112-C-1080

Payment Date: Payment Amount:	11/12/2019 7:20:46 AM \$500.00
Payment Type:	Credit Card
Application Type:	Application for a fluid injection well permit.
Fee Amount:	\$500.00
Application Status:	Pending Document Delivery
OGRID:	14744
First Name:	Faralyn
Last Name:	King
Email:	fking@mewbourne.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.

> Oil Conservation Division * 1220 South St. Francis Drive * Santa Fe, New Mexico 87505 (505) 476-3441 * ocd.fees@state.nm.us * www.emnrd.state.nm.us/OCD

UT48U-191112-C-1080

RECEIVED: 11/14/19 REVIEWER: BLL	pBL1933054/15
NEW MEXICO OIL CON - Geological & Engin 1220 South St. Francis Drive	neering Bureau –
	LICATION CHECKLIST
REGULATIONS WHICH REQUIRE PROCESSI	
Applicant: Mewboure Oil Company	OGRID Number: 14744
Well Name: Freedom 36 State SWD #1	API: 30-015-pending
Pool: SWD; DEVONIAN	Pool Code: 96101
SUBMIT ACCURATE AND COMPLETE INFORMATION INDICATE	REQUIRED TO PROCESS THE TYPE OF APPLICATION ED BELOW
 TYPE OF APPLICATION: Check those which apply A. Location – Spacing Unit – Simultaneous Dec NSL NSP(PROJECT AREA) B. Check one only for [1] or [1] [1] Commingling – Storage – Measuremen DHC CTB PLC PC [1] Injection – Disposal – Pressure Increase 	dication NSP(PRORATION UNIT) SD SWD-2332 It OLS OLM
 2) NOTIFICATION REQUIRED TO: Check those which A. Offset operators or lease holders 	EOR PPR FOR OCD ONLY
 B. Royalty, overriding royalty owners, rever C. Application requires published notice D. Notification and/or concurrent approvo E. Notification and/or concurrent approvo F. Surface owner 	al by SLO
G. For all of the above, proof of notification H. No notice required	n or publication is attached, and/or,
3) CERTIFICATION: I hereby certify that the information administrative approval is accurate and complete understand that no action will be taken on this constitutions are submitted to the Division.	ete to the best of my knowledge. I also
Note: Statement must be completed by an indivi	idual with managerial and/or supervisory capacity.

Timothy R. Harrington

Print or Type Name

R. Hunington

November 12, 2019 Date

903-534-7647

Phone Number

tharrington@mewbourne.com

Signature

e-mail Address

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

		APPLICATION H	FOR AUTHORIZATION TO INJ	IECT	
I.	PURPOSE: Application qualifies	Secondary Recovery s for administrative approval?	Pressure Maintenance	XDisposal No	Storage
II.	OPERATOR:	Mewbourne Oil Company			
	ADDRESS:	3620 Old Bullard Road Tyler, TX 79701			
	CONTACT PARTY	: Tim Harrington	PHONE:	903-534-7647	
III.		plete the data required on the r tional sheets may be attached i	everse side of this form for each we f necessary.	Il proposed for injection.	
IV.	Is this an expansion of If yes, give the Divis	of an existing project?	Yes X_No		
V.			hin two miles of any proposed inject ircle identifies the well's area of rev		mile radius circle
VI.	Such data shall inclu		cord within the area of review which type, construction, date drilled, loca ing detail.		
VII.	Attach data on the pr	roposed operation, including:			
	 Whether the syst Proposed average 	em is open or closed; e and maximum injection press ppropriate analysis of injection	volume of fluids to be injected; ure; fluid and compatibility with the re	ceiving formation if other	than reinjected
	5. If injection is for	disposal purposes into a zone	not productive of oil or gas at or wi n water (may be measured or inferr		
*VIII.	depth. Give the geol	logic name, and depth to bottor	one including appropriate lithologic n of all underground sources of drin l or less) overlying the proposed in	nking water (aquifers cont	aining waters with

IX. Describe the proposed stimulation program, if any.

known to be immediately underlying the injection interval.

- *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 SIGNATURE:

TITLE: Reservoir Engineer

DATE: ___11/12/2019

- 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

	BER: Freedom 36 State SWD #1	Р	26	205	20 E
WELL LOCATION:	1285' FSL & 925' FEL FOOTAGE LOCATION	UNIT LETTER	<u>36</u> SECTION	20S TOWNSHIP	28E RANGE
	I OUTAGE LOCATION	UNIT LETTER	SECTION		MANUL
<u>WELL</u>	<u>BORE SCHEMATIC</u> (See Attached)	<u>WELL CO</u>	NSTRUCTION DAT		
			Surface Ca	asing	
	· · · · · · · · · · · · · · · · · · ·	Hole Size: 26"		Casing Size: 20" (94 #	¢) @ 330'
		Cement with: 545 sx (100%	⁄o excess)	Top of Cement: Surfa	ace
			Intermediate	Casing	
		Hole Size: 17 1/2"		Casing Size: 13 3/8" (54.5#) @ 1,350'
		Stage 1: 695 sx (25% exce	ss)	Top of Cement: Surfa (Calculated)	ace
			Intermediate	Casing	
		Hole Size: 12 1/4"		Casing Size: 9 5/8" (3	6#) @ 3,015'
		Stage 1: 375 sx		Top of Cement: Surfa (Calculated)	ace
		Stage 2: 350 sx		DV Tool @1,400' Top of Cement: Surf	ace (Calculated)
			Production (Casing	
		Hole Size: 8 ¹ / ₂ "		Casing Size: 7 5/8" (3	3.7#) @ 12,625'
		Stage 1: 385 sx		Top of Cement: Surfa (Calculated)	ace
		Stage 2: 550 sx		DV Tool @ 9,100 Top of Cement: 1,42 (Calculated)	0'
		ESTIMA	ATED TOP OF DE 12,625' TD @ 13,650'	VONIAN =	
		Permitted	Injection Interval 12	<u>,625'-13,650'</u>	

Side 1

INJECTION WELL DATA SHEET

Tubing Size: 5 ½", P110 UFJ GB to 12,545'

Lining Material: **Duoline**

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

Packer Setting Depth: +/- 12,545'

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 (3,010'), Bone Spring (5,580'), Wolfcamp (9,130'), & Morrow (10,010')

Underlying producing zone - N/A

FREEDOM 36 STATE SWD #1 Additional Details

- **VI.** There is one well that penetrated the proposed disposal formation within the 1-mile area of review. A well schematic and copies of pertinent completion documents area attached.
- VII. 1. Proposed average rate of 20,000 bwpd and maximum rate of 30,000 bwpd.

2. Non-commercial SWD (closed system).

3. Proposed average injection pressure is approximately 2,000 psi and the maximum injection pressure is approximately 2,525 psi (0.2 psi/ft x 12,625 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 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 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

1	IDUSGS 35292	IDORIG 30000310	IDDB USGSBREIT	SOURCE Pan American Petroleum Corporation		LONGITUDE -103.7766	AP1 30015108590000	COUNTY Eddy	FIELD Poker Lake South	WELLNAME Poker Lake Unit #36	TOWNRANGE S 24 E 31 28	
	DATESAMPLE 1967-04-06			DEPTHUPPER 16578	DEPTHLOWER 16660	SG 1.086	SPGRAV 1.086	RESIS 0.067	RESIST 77	PH 6.6	TD3U363 120326	TDS 120326

VIII. 1. The proposed injection interval is within the Devonian formation which is a porous dolomitic limestone from 12,625' to 13,650'. It is estimated that the base of the injection interval should be approximately 650' above the top of the Ellenburger.

Other Projected Formation Tops:

Mississippian	12,100'
Woodford	12,600'
Devonian	12,625'
EST TOTAL DEPTH	13,650'
Montoya	13,700'
Montoya Simpson	13,700' 14,000' 14,300'

2. The underground fresh water aquifers (unnamed) are present at shallow depths (per review of well records, within 2 miles of the proposed SWD, on the NM Office of the State Engineers website) with the deepest water being encountered at a depth of 186', the shallowest water at a depth of 8' and the average water depth at 52'. 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 were numerous fresh water wells on record with the NM State Engineers Office that are within 2 miles of the proposed SWD. A fresh water sample taken from a well located in the SE/4, NW/4 of Section 36, Twp 20S, Rge 28E, and the analysis 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

Last Updated by T. Harrington: 11/3/2019

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

		W	ELL L	OCATIO	N AND ACR	EAGE DEDIC	ATION PLA	Т		
¹ API Number 2Pool Co				2Pool Code			³ Pool Na	me		
1 5					⁵ Property N EDOM 36	ame STATE SWD				⁵ Well Number 1
70GRID 1	NO.		^{8 Operator Name} ^{9 Elevation} MEWBOURNE OIL COMPANY 3228'							
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/W	est line	County
Р	36	20S	28E		1285	SOUTH	925	EA	ST	EDDY
			11]	Bottom H	ole Location	If Different Fre	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
¹² Dedicated Acres	3 ¹³ Joint	or Infill 14 C	Consolidation	Code 15 C	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.





Mewbourne Oil Company FREEDOM 36 ST. SWD #1 Ste. 36-205-28E 128 Feb. 495-28E 128 Feb. 495-28E 128 Feb. 495-28E 128 Feb. 495-28E EDDV, NEW NEXICO International Content of Conten 1 MILE AOR

2 MILE AOR





Where

Ship From Mewbourne Oil Company, Kimberly Ripka 3901 South Broadway, Tyler, TX 75701 rmcdaniel@mewbourne.com, 903-561-2900 Ship To New Mexico Oil Conservation Div., Phillip Goetze-Engineernig Bureau 1220 South St. Francis Drive, SANTA FE, NM 87505 (505) 476-3440

What

Package 1 - 1ZF698E80195716688

Weight	
0.5 lbs	

Dimensions UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Friday November 15, 2019, 10:30 AM

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1

UPS Next Day Air	
Fuel Surcharge	

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Subtotals

Shipping Fees	N
Combined Charges	
Contract Rate	

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment. Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

Dear Customer,

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

Tracking Number 1ZF698E80195716688

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On 11/14/2019

Delivered On

11/15/2019 10:02 A.M.

Delivered To

SANTA FE, NM, US

Received By

MARTINEZ

Left At

Receiver

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: 11/15/2019 12:32 P.M. EST



New Mexico State Land Office, Melissa Armijo

310 Old Santa Fe Trail, SANTA FE, NM 87501

Ship To

505-827-5760

Where

Ship From Mewbourne Oil Company, Kimberly Ripka 3901 South Broadway, Tyler, TX 75701 rmcdaniel@mewbourne.com, 903-561-2900

What

Package 1 - 12F698E80193242729

Weight 0.5 lbs

Dimensions UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Friday November 15, 2019 , 10:30 AM

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1

UPS Next Day Air	
Fuel Surcharge	

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Subtotals

Shipping Fees	
Combined Charges	
Contract Rate	Add Der menstertingen som off

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment. Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

Dear Customer,

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

Tracking Number 1ZF698E80193242729

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On 11/14/2019

Delivered On

11/15/2019 10:14 A.M.

Delivered To SANTA FE, NM, US

Received By

ARMIJO

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: 11/15/2019 2:13 P.M. EST



Where

Ship From Mewbourne Oil Company, Kimberly Ripka 3901 South Broadway, Tyler, TX 75701 rmcdaniel@mewbourne.com, 903-561-2900 Ship To Bureau of Land Management 620 East Greene Street, CARLSBAD, NM 88220

What

Package 1 - 12F698E80190905698

Weight Dimensions 0.5 lbs UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Friday November 15, 2019, End of Day

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1

UPS Next Day Air	
Delivery Area Surcharge	2.22
Fuel Surcharge	10 - E

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Subtotals

Shipping Fees		2
Combined Charges	-	
Contract Rate		

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment. Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

Dear Customer,

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

Tracking Number 1ZF698E80190905698

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

11/14/2019

Delivered On

11/15/2019 11:35 A.M.

CARLSBAD, NM, US

Received By

WILLIAMS

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: 11/15/2019 2:11 P.M. EST



Where

Ship From

Mewbourne Oil Company, Kimberly Ripka 3901 South Broadway, Tyler, TX 75701 rmcdaniel@mewbourne.com, 903-561-2900 Ship To MRC PERMIAN COMPANY, MR. GREGG KRUG ONE LINCOLN CENTRE, 5400 LBJ FREEWAY, SUITE 1500, DALLAS, TX 75240

What

Package 1 - 12F698E80190135118

WeightDimensions0.5 lbsUPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Friday November 15, 2019 , 10:30 AM

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1

UPS Next Day Air	
Fuel Surcharge	

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Subtotals

Shipping Fees	
Combined Charges	
Contract Rate	

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment. Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

Dear Customer,

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

Tracking Number

1ZF698E80190135118

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

11/14/2019

Delivered On

11/15/2019 10:16 A.M.

Delivered To

DALLAS, TX, US

Received By

BURNS

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: 11/15/2019 11:42 A.M. EST



Where

Ship From Mewbourne Oil Company, Kimberly Ripka 3901 South Broadway, Tyler, TX 75701 rmcdaniel@mewbourne.com, 903-561-2900 Ship To EOG Resources, Inc. 5509 Champions Dr., MIDLAND, TX 79706

What

Package 1 - 1ZF698E80192806934

Weight Dimensions 0.5 lbs UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Friday November 15, 2019, 10:30 AM

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1

UPS Next Day Air Fuel Surcharge

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Subtotals

Shipping Fees	
Combined Charges	
Contract Rate	

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment. Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

Dear Customer,

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

Tracking Number

1ZF698E80192806934

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

11/14/2019

Delivered On

11/15/2019 9:51 A.M.

Delivered To

MIDLAND, TX, US

Received By

SOTO

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: 11/15/2019 11:45 A.M. EST



November 14, 2019

Colgate Operating, LLC

306 West Wall, Suite 500, MIDLAND, TX 79701

Ship To

Where

Ship From Mewbourne Oil Company, Kimberly Ripka 3901 South Broadway, Tyler, TX 75701 rmcdaniel@mewbourne.com, 903-561-2900

What

Package 1 - 1ZF698E80190248103

Weight 0.5 lbs

Dimensions UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Friday November 15, 2019 , 10:30 AM

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1

UPS Next Day Air Fuel Surcharge

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Subtotals

Shipping Fees		
Combined Charges		
Contract Rate		

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment. Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.



Dear Customer,

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

Tracking Number

1ZF698E80190248103

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

11/14/2019

Delivered On

11/15/2019 11:08 A.M.

Ship To

MIDLAND, TX, US

Received By

OFFICE

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: 11/15/2019 12:18 P.M. EST



November 14, 2019

Where

Ship From Mewbourne Oil Company, Kimberly Ripka 3901 South Broadway, Tyler, TX 75701 mcdaniel@mewbourne.com, 903-561-2900

Ship To XTO Permian Operating, LLC 6401 Holiday Hill Road, Bldg 5, MIDLAND, TX 79707

What

Package 1 - 1ZF698E80191223744

WeightDimensions0.5 lbsUPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Friday November 15, 2019 , 10:30 AM

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1

UPS Next Day Air	(e
Fuel Surcharge	· .

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Subtotals

Shipping Fees	
Combined Charges	
Contract Rate	12 21

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment. Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

Dear Customer,

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

Tracking Number

1ZF698E80191223744

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

11/14/2019

Delivered On

11/15/2019 10:23 A.M.

Delivered To

MIDLAND, TX, US

Received By

PENA

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: 11/15/2019 11:46 A.M. EST



Where

Ship From

Mewbourne Oil Company, Kimberly Ripka 3901 South Broadway, Tyler, TX 75701 rmcdaniel@mewbourne.com, 903-561-2900 Ship To Fasken Oil and Ranch LTD 6101 Holiday Hill Road, MIDLAND, TX 79707

What

Package 1 - 1ZF698E80198279879

Weight Dimensions 0.5 lbs UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Friday November 15, 2019 , 10:30 AM

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1

UPS Next Day Air	1 5
Fuel Surcharge	

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Subtotals

Shipping Fees	
Combined Charges	
Contract Rate	1.51 -

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment. Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

Dear Customer,

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

Tracking Number 1ZF698E80198279879

121 0902001902/9

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On 11/14/2019

Delivered On

11/15/2019 10:18 A.M.

Delivered To

MIDLAND, TX, US

Received By

MORENO

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: 11/15/2019 11:49 A.M. EST

Harvey E. Yates Co., Inc. Fannie Lou Federal #1 30-015-21617 1980 FNL, 1980 FEL Sec 31, Twp 205, Rge 29E Eddy County, NM

Spud 8/27/1975 Plugged 12/12/1996



Scout Ticket

30015216170000



General Information 1 FANNIE LOU FEDERAL	a			
Data Source:	PI		Country:	UNITED STATES
API/UWI:	30015216170000		IC:	300157001075
State/Prov:	NEW MEXICO		County:	EDDY
Field:	SCANLON		Operator:	YATES HARVEY E CO INC
Current Status:	Р		Current Operator:	YATES HARVEY E CO INC
Reg. Well Status/Date:	PR Mar 31, 1993			
Initial Class:	NEW FIELD WILDCAT (WF)	Final Well Class:	NEW FIELD WILDCAT-DISCOVERY ()
Final Status:	ABD-GW		Target Objective:	
Permit:	on Aug 17, 1975		Hole Direction:	VERTICAL
First Report Date:	Apr 15, 1976		Abandonment Date:	Dec 12, 1996
Projected TD:	11,750 FT		Projected Formation:	MORROW
Basin:	PERMIAN BASIN		Formation at TD:	DEVONIAN
			PRODFit Form at TD:	
Play Name:			Play Type:	
IP Summary:				
-	1,295 MCFD Water:	Condensate:	Top Form: PRODFit Top Form:	402MRRW Base Form: 402MRF PRODFit Base Form:
Location Section, Twp., Range: Spot Code: Footage NS EW Origin:	31 20S 29E 1980 FNL 1980 FEL	CONGRESS SECTION		Data Source: PI
Principal Meridian:	NEW MEXICO			
Lat/Long:	+32.5316181 -104.1116	777	Lat/Long Source: II	H Datum: NAD27
Dates and Depths Data Source:	PI			
		Spud Date Code:		
Spud:	Aug 27, 1975	-		
TD:	12,810 FT	TD Date:		
			11 000 FT	
TVD:		PlugBack Depth:	11,889 FT	
Formation Code TD:	309DVNN	Formation Name T	DEVONIAN	
Formation Code TD: PRODFit Form Code TD:	309DVNN	Formation Name T PRODFit Form Na	TD: DEVONIAN me TD:	
Formation Code TD: PRODFit Form Code TD: Ref. Elevation:	309DVNN 3,254 FT KB	Formation Name T PRODFit Form Na KB. Elevation:	DEVONIAN	
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Scout Ticket

Mon Nov 04, 2019

Oil Gr Cond (ion of Tes	t:	11,473 - Hours	11,849 GRC	SS			Method: Choke: GOR: Cond Ratio:		FLOWING 10/64		
	Data											
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our	Data	16515										BH
ſest	Source	Point		Choke			R	ate	Pr	essure		Pressure
001	PI	1		08/64			1,1	32 MCFD		2,941 PSIG		
001	PI	2		09/64			1,1	93 MCFD		2,415 PSIG		
001	PI	3		10/64			1,2	95 MCFD		2,104 PSIG		
)01 Gae	_श Analys	4		11/64			1,1	86 MCFD		1,602 PSIG		
	Data	515		Hydrogen			PRODFit T	op PRODE	Ten	PRODFit H	Rase PROD	Fit Base
	Source (Gravity	Temp	Hydrogen Sulfide			Form Code		ame	Form Code		
	pr 7	0.6 API_DEG S				Тор			PRODFit	PRODFit	PRODFit	PRODFit
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Scout Ticket

1

Test	Data		тр			FCP		SITP		SICP
001	Source FTP PI 75 PSIG				FCF		5111		SICI	
			75 1010							
Peno	rations									
Test	Data Source	Interval	Count	Туре	Status	Shots/ Ft	Prod Method	Top Form Code	Top Form Name	
001	PI	11473 - 11479	4	гурс	A		PERF	402MRRW	MORROW	
001	PI	11531 - 11535	4		A		PERF	402MRRW	MORROW	
001	PI	11543 - 11547	4		A		PERF	402MRRW	MORROW	
001	PI	11769 - 11779	4		A		PERF	402MRRW	MORROW	
001	PI	11841 - 11849	4		A		PERF	402MRRW	MORROW	
	ments									
Treatme										
Interva		11.4	73 - 11,84	0						
Fluid:	1;		GAL	7		ACID		Type:	А	
Additiv	v.a.•	400	UAL			ACID		Type.	А	
Prop A						Amount:	2			
	0	511 7 0'				Amount				
Form. Break Down Pressure: Average Injection Rate:						Instant Sh	ut-in Pressure:			
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	Break Down Press	sure:								
Averag	ge Injection Rate:					Instant Sh	ut-in Pressure:			
Stages:		Ren	narks:							
	Stem Tests									
DST: 00)1						Data Source:	PI	-	
Show:							Formation: PRODFit Base Fo	DELAWAR	E	
	Fit Top Form Cod						PRIMH Kase Kr			
	Fit Top Form Nan	ne:								
Interva	41:		-				PRODFit Base Fo	orm Name:		
		5336 - 5695	5				PRODFit Base Fo BHT:			
1	: Тор:		5				PRODFit Base Fo BHT: Bottom:	orm Name: 122 FAR		
DST: 00	-	5336 - 5695	5				PRODFit Base Fo BHT: Bottom: Data Source:	orm Name: 122 FAR PI		
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Scout Ticket

	Coour Hono			101011 1000 04, 2010
	Choke: Top:		Bottom:	
	DST: 005		Data Source:	PI
	Show:		Formation:	MORROW
	PRODFit Top Form Code:		PRODFit Base Form Code:	
	PRODFit Top Form Name:		PRODFit Base Form Name:	
	Interval:	11305 - 11470	BHT:	175 FAR
	Choke: Top:		Bottom:	
	DST: 006		Data Source:	PI
	Show:		Formation:	MORROW
	PRODFit Top Form Code:		PRODFit Base Form Code:	
	PRODFit Top Form Name:		PRODFit Base Form Name:	
	Interval:	11510 - 11640	BHT:	175 FAR
	Choke: Top:		Bottom:	
	DST: 007		Data Source:	PI
	Show:		Formation:	MORROW
	PRODFit Top Form Code:		PRODFit Base Form Code:	
	PRODFit Top Form Name:		PRODFit Base Form Name:	
	Interval:	11736 - 11906	BHT:	185 FAR
	Choke: Top:		Bottom:	
	DST: 008		Data Source:	PI
	Show:		Formation:	DEVONIAN
1	PRODFit Top Form Code:		PRODFit Base Form Code:	
	PRODFIt Top Form Name:		PRODFit Base Form Name:	
	Interval:	12750 - 12810	BHT:	204 FAR
	Choke: Top:		Bottom:	
- 1				

Pipe Recovery

Test	Data Source	Recovery		Туре	Type Desc	Rec Method
001	PI	529	FT	XM		PIPE
002	PI	190	\mathbf{FT}	SGCM		PIPE
003	PI	470	FT	М		PIPE
004	PI	465	FT	Μ		PIPE
005	PI	365	FT	Μ		PIPE
006	PI	650	FT	Μ		PIPE
007	PI	155	FT	Μ		PIPE
008	PI	8,985	FT	PW		PIPE

Materials to Surface

Test	Observation	Data Source	Fluid	To Surface	Amount	
002	2	PI	GAS	25 MIN	36 MCFD	

Pressure and Time

Test	Data Source	Hydro Init	Hydro Final	Init Flow Init	Init Flow Final	Final Flow Init	Final Flow Final	Sbutin Init	Shutin Final	Open Time Init	Open Time Final	Shutin Time Init	Shutin Time Fina
001	PI	2465	2465			199	279	2465	1916		180	90	180
002	PI	5497	5476			86	150	1665	4157		90	90	240
003	PI	5538	5538			257	300	515	515		90	105	240
004	PI	5748	5748			262	305	393	349		60	60	120
005	PI	5954	5954			258	322	386	601		90	90	180
006	PI	5948	5837			286	265	530	2120		120	90	180
007	PI	6202	6182			193	193	6202	1136		180	120	240
008	PI	6129	6042			5549	5549	5549	5561		68	90	120

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Scout Ticket

Cores CORE ID:	001												
Formatio		453DLWR DI	ELAWARE					Data Sourc	e: PI				
	Top Form:						PRODF	it Base Forn					
Interval:	-	3224-3287						Re	c: 63 FT				
Core Typ	e:	CONV						Show Typ	e:				
CORE ID:	002												
Formatio	n:	453DLWR DE	ELAWARE					Data Sourc	e: PI				
PRODFit	Top Form:						PRODF	it Base Forn	n:				
Interval:		3287-3347							c: 60 FT				
Core Typ	e:	CONV						Show Typ	e:				
Casing,	Liner, Tub	oing											
Casing	Data Source	Size		Base Depth		Cement		PRODFit 7 Formation	Fop Code		DFit Base ation Co		
CASING	PI	13 3/8 IN		695	ĒΤ	750	SACK	I OI MARION	Cour	1 011	anon co.		
CASING	PI	4 1/2 IN			FT	900	SACK						
CASING	PI	9 5/8 IN		3,207			SACK						
	Tournal												
Mud R	g Journal ecords												
indd i t	000100												
Data Source	ce	Depth Unit			ht Unit								
PI		11,905 FT		ç	9.8 PPG								
Format	ions												
Form Code	Top Source	Interpreter	Form Name				Top Depth	Top TVD	Base Depth	Base TVD	Desc	Lithology	Age
453DLWR		Anter proter	DELAWARE	3			3,260	112	Depta	112	LOG	LittlotoBj	453
452BSPG	PI		BONE SPRIN				5,826				LOG		452
452BSPG3			BONE SPRIN	NG 3 /SD/			8,788				LOG		452
451WFMP	PI		WOLFCAMF)			9,190				LOG		451
404STRN	PI		STRAWN				10,410				LOG		404
403ATOK	PI		ATOKA				10,651				LOG		403
402MRRW			MORROW				11,284		11,710		LOG		402
354BRNT	PI		BARNETT /S	SH/			12,030		11,710		LOG		354
359MSSP	PI		MISSISSIPPI				12,050				LOG		359
339W33P													
			WOODFORE				12,630				LOG		319
319WDFSI			WOODFORE)/SH/			12,650				SPL		319
309DVNN			DEVONIAN				12,721				LOG		309
309DVNN	PI		DEVONIAN				12,721				SPL		309
Logs													
]	Data	Terre	Den Den th	Berr Dir d		andres Cir		DIM					
-	Source		Cop Depth	Base Depth		gging Co. 153789		BHT	sin	ce circ.			
	PI	NPL											
	PI PI	NE DN				153789 153789							
	F1	DN				133789							
	s Energyda ted through 1997		ve										
Data	Dwights												
Source	Number												
PI	300157001075												

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Harvey E. Yates Co., Inc. Fannie Lou Federal No. l Eddy County, New Mexico

- 10-22-75 12,345' drilling, lime & shale, visc. 38, mud wt. 9.5, water loss 7, filter cake 1/32. Bit #14 is 7 7/8" J44 in @ 11,900' made 445' in 76 hrs. Had 1/4 hr. BOP, 1/2 hr. checking Kelly, 23 1/4 hr. drilling, Running 40,000# wt., 44 RPM, 2000# pump pressure, 125 SPM. Made 140'/24 hrs.
- 10-23-75 12,418' drilling, lime, shale & chert. Visc. 37., mud wt. 9.4, water loss 7, filter cake 1/32. Totco @ 12,342' is 1 1/4°. Bit #14 is 7 7/8" J44 in @ 11,900' out @ 12,342', made 442' in 75 1/4 hrs. Bit #15 is 7 7/8" J55 in @ 12,342' made 76' in 15 1/4 hrs. Had 7 3/4 hr. washing to btm. and reaming, 15 1/4 hr. drilling. Made 76'/24 hrs. Running 40,000# wt., 44 PRM, 2000# pump pressure, 125 SPM.
- 10-24-75 12,550' drilling, lime & shale, visc. 37, mud wt. 9.4, water loss
 7, filter cake 1/32. Bit #15 is 7 7/8" J55 R in @ 12,342' made
 208' in 39 hrs. 1/4 hr. BOP, 23 3/4 hr. drilling. Running 40,000#
 wt., 44 RPM, 2000# pump pressure, 125 SPM. Made 132'/24 hrs.
- 10-25-75 l2,635' drilling, lime and shale. Visc. 37, mud wt. 9.3, water loss 7, filter cake 1/32. Bit #15 is J55R in @ 12,342' made293'/62 3/4 hrs. 1/4 hr. BOP, 23 3/4 hr. drilling, 85'/24 hrs. 40,000# wt., 44 RPM, 2000pp, 125 SPM.
- 10-26-75 l2,664' drilling, lime and shale. Visc. 37, mud wt. 9.2, water loss 8, filter cake 1/32. Bit #15 is 7 7/8" J55R in @ l2,342' out @ l2,645' made 303/64 l/4 hrs., Bit #16 is 7 7/8" J55 in @ l2,645' made l9'/ll hrs. l/4 hr. BOP, 9 l/4 hr. trip, l3 l/2 hr. drilling, 29'/24 hrs. 40,000wt, 40 RPM, 2000pp, l25 SPM.
- 10-27-75 12,720' drilling, shale. Visc. 36, mud wt. 9, water loss 7, filter cake 1/32. Bit #16 is 7 7/8" J55 in @ 12,645' 75'/34 3/4 hrs. 1/4 hr. BCP, 23 3/4 hr. drilling 56'/24 hrs. 40,000wt, 44 RPM, 2000pp, 125 SPM.
- 10-28-75 DST #8, 12,810' shale & dolomite. Visc. 36, mud wt. 9.1, water loss 6.5, Totco @ 12,810 is 4°. Bit #16 is 7 7/8" J55 in @ 12,645', out @ 12,810', 165'/41 3/4 hrs. Had 1/4 hr. BOP, 7 hr. drilling, 4 hr. circ., 4 hr. trip out, 6 1/4 hr. in w/test tool. 2 1/2 hr. DST #8 from 12,750' to 12,810'. Tool opened @ 4:25 a.m. with strong blow in 30 mins. No gas. 90'/24 hrs.

Harvey E. Yates Co., Inc. Fannie Lou Federal No. 1 Eddy County, New Mexico

10-29-75 12,810' Circ. to set cmt. plug. 1 1/2 hr. DST #8, 8 1/2 hr. trip out to lay down tool, 1 hr. hooking up to reverse out, 4 1/2 hr. trip in hole open ended to 10,750', 9 hr. circ. & mxg. mud.

10-30-75 Plugged back to 12,280'. Visc. 36, wt. 9, water loss 6.5, 1 hr. plugging hole from 12,550' to 12,750' 1st plug - 75 sx. Class H 1/4# flocele, 4/10 of 1% HR-4 2nd plug, 12,270' to 12,470' 75 sx. Class H. 8:00 a.m. 10-29-75 Completed. 12 hr. WOC & WOO. 3 hr. TIH and tag plug. @ 12,280', 8 hr. LD DP & DC's. RU to run 4 1/2" csg.

10-31-75 Plug back to 12,280'. 2 hr. LD DC's, 9 hr. run 4 1/2" csg.
 3 hr. circ. 1 hr. cmtg. 9 hr. WOC. Ran 373 jts. 13.5# and 11.6#
 N-80 ST&C 4 1/2" csg. 11,927'. Set @ 11,924' RTM. Cmtd.
 w/900 sx. Class H w/5% KCL and 3/4 of 1% CFR-2. Plug down
 @ 10:15 p.m. 10-30-75.

11-1-75 Rig released 11:00 a.m. 10-31-75. Run temp. survey.

11-2-75 to 11-6-75 WO completion unit.

11-7-75 to 11-10-75 WO completion unit.

11-11-75 RU. WO tbg. Too late to unload. A.M. Unloaded tbg. & prep to run.

- 11-12-75 Unloaded & tallied 381 jts. of 11,890.13' of 2 3/8" OD N-80 tbg. Ran 350 jts. of tbg. in hole and SDON.
- 11-13-75 Finished running tbg. in hole. Tagged PBTC w/ll,889'. RU Western Co. Displaced hole w/3% KCL water. Spotted X 300 gals. acetic acid from 1158' to 11,408'. POH. Tested BOP to 2500 psig. RU Schlumberger. Ran GR-Collar log from PBTD to 9800'. Ran gauge ring, 13.5# per ft. X 4 1/2" csg. from surface to 1185'. SDON.
- 11-14-75 Perforated Morrow formation @ 11,473', 11,479' (4 shots)
 11,531' 11,535' (4 shots), 11,543' 11,547' (4 shots),
 11,769' to 11,779' (4 shots), 11,841' to 11,849' (4 shots)
 Total 20 shots, Ran Baker Packer and RBP. 300 jts. tbg.
 SDON.
 A.M. Continued to run tbg. & pkr. Prep to acidize.
- 11-15-75 Released BP @ 11,868'. Sptd. 100 gal. acid @ 11,850', across perfs. 11,841' - 849'. Set pkr. @ 11,812' fromation broke @ 4000#. Treated 1/2 bbl./min ISDP 3600#, 5" SDP 2150#. Released pressure and pkr. PU BP and released @ 11,810'. Pumped 100 gal. acetic across perfs. 11,769' to 11,779'. Set pkr. @ 11,688'. Treated formation @ 3/10 bbls/min. @ 4100 psig. Increased rate to 1/2 bbl/min. @ 4400 psig. ISDP 3800 5" SDP 2550. Released pressure & pkr. PU RBP and released

dcat		" NM	d Reproduction Prohibitse
		"· 30-0	15-21617
eral		SERAL 12-	2-13 NM
		WAP	
Sec		20-080	
		ELEY	La
	WF	FIN WFD	
FDRMATION	DATUM	FORMATION	DATUM
		-	
		1	
■ 12.810 ¹	(1.774)	Pmo 11,889	
	FORMAT CN	C. eral Sec with class: wer WF FORMATION DATUM	dcat rc NM C. sn 30-0: eral sena, 12-2 Sec scoop ril sena, 12-2 wap sena, 12-2 Sec scoop erat sena, 12-2 wap sena, 12-2 sec scoop erat sena, 12-2

The second se		No			TCAL DT
And the second	OPR'S CLEV	32351 (0	en 2.29	750' R.T
CONTR Moranco			12		

	F.R. 8-11-75 (Morrow)
9-2-75	Drlg 2545' 1m
9-8-75	Drlg 3715 Cored (Delaware) 3224-87', rec 63', no descr
	Cored (Delaware) 3287-3347's rec oo , no devela
9- 1 6-75	Drlg 7095' 1m & sh DST (Delaware) 5336-5695', open 3 hrs, rec 529' sli salty DF, 1 hr 30 min ISIF 2465#, FP 199-279#, 3 hr FSIF 1916#, HP 2465-2465#, BHT 122 deg
9-22-75 9-29-75	Drlg 9070' TD 10,470'; On DST

12-2-13 MM

......

EDDY		Wildcat	:	NM
YATES, HARV	ΈΥΕ. CO.,	INC. 1	Fannie Lou	Federa l
•		Sec 31,	T20S, R29E	Page #2

Drlg 11,174' lm, sh & cht 10-6-75 DST (Strawn) 10,348-470', open 1 hr 30 mins, GTS in 25 mins @ 36 MCFCFD, rec 190' sli GCM, 1 hr 30 min ISIP 1665#, F2 86-150#, 4 hr FSIP 4157#, HP 5497-5476#, BHT 165 deg DST (Strawn) 10,562-685', opum 1 hr 30 mins, rec 470' DM, 1 hr 45 min ISIP 515#, FP 257~ 300#, 4 hr FSIP 515#, HP 5538-5538#, BHT 172 deg DST (Atoka) 10,888~11,015°, open I hr, rac 465' DM, 1 hr ISIP 393#, MP 262-305#, 2 hr FSTP 349#, HP 5748-5748#, Bury 174 deg TD 11,640'; On DST 11,510-640' 10-13-75 DST (Morrow) 11,305~470', open 1 hr 30 mino, ------

12-2-13 NM

•2: 15.4.8	
10-13-75	Continued
	rec 365' DF, 1 hr 30 min ISIP 386#, FP 258-
	322#, 3 hr FSTP 601#, HP 5954~5954#, BHT
	175 deg
10-20-75	Dr1g 12,038'
_	DST (Morrow) 11,510-640', open 2 hrs, rec
	650' M, NS, 1 hr 30 min ISIP 530#, FP 286-
	265#, 3 h: FSIP 2120#, HF 5948-5837#, EHI
	175 deg
	DST (Morrow) 11,736-906', open 3 hrs, rec
	155' DM, 2 hr $\{SI\Gamma 665^{\#}, FP 193-193^{\#}, 4 hr$
	FSIP 1136#, HP 6202-6182#, BHT 185 deg
10-27-75	Drlg 12,746' dolo
11-3-75	TD 12,810'; PBD 11,922'; WOCU
TT-D-12	
	DST (Devonian) 12,750-810', open 1 hr 8 mine,
	rec 1500' WB + 564' DM + 1316' muddy wtr +
	8985 FW, I hr 30 min 181P 5549#, FP 5549~
	5549#, 2 hr FSIP 5561#, HP 6129-6042#, EHI
	20% deg
	12-2-13 NM

.*				NC 22	0.0.0	*CC1~	(012	4 10-51
Form 9-310 (Rev. 5-68)		NI .DS	TATES		IN DUPLICA	F B	orm appro-	ved. au No. 42-R355.5.
w /	DEPARTME			ERIOR	(See ot ucr li structions o reverse side	n		AND SERIAL NO.
8/		LOGICAL			.0	NM-196		
WELL CON	APLETION OR	RECOMP	LETION R	EPORT.	NO LOG*	6. IF INDIAN,	ALLOTTEE	OR TRIPE NAME
1a. TYPE OF WELL	a OIL WELL	GAS WELL		other	-15 A	7. UNIT AGEE	EMENT NA	ME
b. TYPE OF COMP	LETION:		niết. 🗂 🖊	E .	3 SURVER	S. FARM OB 1	PART NAM	E
WELL XX	OVER DEEP-	DACK	CESVR.	Ther	CICAL MEXIL	Eannie		Federal
2. NAME OF OPERATO	Yates Co., In	c. v	8	in all	OLOGNEW.	9. WELL NO.	Loui	
3. ADDRESS OF OPER	TOR			Deall	SIA M	E D FIELD AN	1	WHIDGAT
Suite 1000	, Security Na (Report location clea	tional Bai	nk Blag.,	State require	EC.EIV	E D HELD AND	dcat	There
4. LOCATION OF WELL At surface	1980' FNL & 1	980' FEL			107	11. SEC., T., P		LOCK AND SUBVEY
≜t top prod. inte	ATOR (Report location clear 1980' FNL & 1 rval reported below				DEC 1 19/	5 Sec. 3	I, T-20	D-S, R-29-E
At total depth						12. COUNTY O		13. STATE
		l l	14. PERMIT NO. 30-015-21	API 📲	ARTESIA, DEFIC	I IZ. COUNTI O	- I	New Mexico
15. DATE SPUDDED	16. DATE T.D. REACHE	D 17. DATE CO	MPL. (Ready to	prod.) 18.	ELEVATIONS (DF. REE		19. ELEV.	CABINGHEAD
8-27-75	10-28-75		-19-75		3235' GL	BOTABY TOOL		237
20. TOTAL DEPTH, MD 4	and the second sec	к т.р., мр а тур 1 ,889 ¹	22. IF MULT HOW MA	NY ⁰	23. INTERVALS			None
12,810'	VAL(8), OF THIS COMP	LETION TOP, BO	TTOM, NAME (M	D AND TVD)*			25. W.	AS DIRECTIONAL
	11,849' - Mo							No
26. TIPE ELECTRIC A	No other Loca BIN					1		WELL COBED YES
Schlumberg	jer Comp. Neut	ron-Form.	Density;	SDLL w/	Rxo; GR- Col	lar	Delaw	are 3224'-3347'
29.		CASING	RECORD (Repo	ort all strings E SIZE	set in well)	G RECOBD	1 4	MOUNT PULLED
CABING SIZE	WEIGHT, LB./FT.	бертн вет (695	MD)	17	750 sx. Cl	ass C - 2%	Ca¢1	None
<u>13 3/8"</u> 9 5/8"	4836	3207		12 1/4	975 sx. HL	W & 200 sx	<u>s "¢"</u>	2% CaC None
4 1/2"	13.5-11.6-13	.5 11924			900 sx. C1	ass "H"		None
29.	LINE	R RECORD		1	30.	TUBING RECO	RD	
8123	TOP (MD) BOT		CKS CEMENT*	BCREEN (MD		DEPTH BET (M		CKER BET (MD)
NONE					2 3/8"	11,370		11,370'
31. PERFORATION REC	OBD (Interval, size an	i number)		82.	ACID, SHOT, FRA	CTURE, CEMENT	SQUEEZ	E. ETC.
11473' to 1147	79' - 0.43" d ²	a 4 ho	les	DEPTH INT	EBVAL (MD)	AMOUNT AND KIN		
	35' - 0.43" d [.] 47' - 0.43" d [.]	ia. – 4 ho ia. – 4 ho	les	11473'	to 11849'	400 gals	10%	<u>acetic & _</u> 2% <u>MS acid</u>
11760' to 117	79' - 0.43" d [.]	ia. – 4 ho	les			0000 gars	. / 1/	
11841' to 1184	49' - 0.43" d [.]	ia. – 4 ho	les=20 ho					
33. Multipoin	nt & one point	back pre	SSURE PROD	mping—size a	est attached	I WFTT.	STATUS (F	Producing or
11-21-75		Flowing					Shut i	n
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAB-MCF.	WATER-BBL	048	-OIL BATIO
11-25-75		CALCULATED	OIL-BBL.	GA81	MCF. WATE	RBBL.	OIL GRAVI	TT-API (CORB.)
9			0	197	75.82 (AdF)	0		
34. DISPOSITION OF G	AB (Sold, used for fuel,	vented, etc.)				TEST WITNES	SED BI	12
35. LIST OF ATTACE	Vented	nt & one i	point back	pressur	re test attac	hed. Note	: Sch	Tumberger
12. 12.		Democrity		CONDING /	G JIONNSLOH D.) NU. U NU		Jou rrom re-
36. I hereby certify	there ine foregoing an		mation is comp					11-26-75
SIGNED	teck I far	de p	TITLE	Consult	tant	DATE	<u>-11-</u> 2	26-75

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Strawn104101047010470DST's No. 1 thru 7 filed 11/24/75 w/ Form 9-331Delaware 50.5200Morrow112841171050.11047050.150.1Morrow11284117101041054.054.0	TRUE VERT. DEPT
Strawn1041010470dolomite w/shale partings. No shows. DST's No. 1 thru 7 filed 11/24/75 w/ Form 9-331Delaware Sd. Bone Spr. Strawn3260 Bone Spr. StrawnMorrow1128411710 1272112810Form 9-331Bone Spr. Strawn5826 3rd SandMorrow11272112810Form 9-331Bone Spr. Strawn10410 AtokaMorrow11272112810Form 9-331Bone Spr. StrawnMorrow1272112810Morrow11284 Base MorrowMorrow12630Mississippian12160 Woodford	
Strawn 10410 10470 DST 3 M0. Fem 0 + 1000 mm 0 + 10000 mm 0 + 1000 mm 0 + 10000 mm 0 + 10000 + 10000 mm 0 + 10000 mm 0 + 10000 mm 0 + 10000 + 10000	
Morrow 11284 11710 Wolfcamp 9190 Devonian 12721 12810 Strawn 10410 Atoka 10651 Top Morrow 11284 Base Morrow 11710 Top Barnett 12030 Mississippian 12160 Woodford 12630	
Devonian 12721 12810 Devonian 12721 12810 Atoka 10651 Top Morrow 11284 Base Morrow 11710 Top Barnett 12030 Mississippian 12160 Woodford 12630	
Atoka 10651 Top Morrow 11284 Base Morrow 11710 Top Barnett 12030 Mississippian 12160 Woodford 12630	
Base Morrow 11710 Top Barnett 12030 Mississippian 12160 Woodford 12630	
Top Barnett 12030 Mississippian 12160 Woodford 12630	
Mississippian 12160 Woodford 12630	
Woodford 12630	
	1

			N	M OIL CONS COMMISSION
Form 3160-5 June 1990)	DEPARTME	TED STATES NT OF THE INTERIOR LAND MANAGEMENT	ses E	Drawer DD NM 88210 Artebia, FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.
Do not usejthi	s form for proposals to d	AND REPORTS ON WELL rill or to deepen or reentry to PR PERMIT—" for such propo	a different reservoir.	3
	SUBMI	T IN TRIPLICATE		7. If Unit or CA, Agreement Designation
1. Type of Well	Das Vell Dother		DEC 27 .94	8. Well Name and No.
2. Name of Operator Harvey E.	Yates Company	V	C. C. D.	Fannie Lou Federal #1 9. API Well No.
4. Location of Well (F Unit G.	one No. 1933, Roswell, N.M Sootage, Sec., T., R., M., or Survey J 1980' FNL & 1980' 1 T20S, R29E	Description)	2,9 ° _ 102 ° 1	30-015-21617 10. Field and Pool, or Exploratory Area Scanlon Bone Spring 11. County or Parish, State Eddy Co., NM
12 CHEC	CK APPROPRIATE BOX	(s) TO INDICATE NATURE	OF NOTICE, REPO	
	OF SUBMISSION		TYPE OF ACTION	
X sut	ntice of Intent bsequent Report nal Abandonment Notice or Completed Operations (Clearly state	Abandonment Recompletion Hugging Back Casing Repair Altering Casing Other all pertinent details, and give pertinent dates.	including estimated date of start	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) ing any proposed work. If well is directionally drilled,
give subsurfac 1/5/94 1/6/94	RU Completion Uni Strap out of hole	t & BOP From 10,000 - 3000'; s		
1/7/94		n to 11,290' to 7000# ;	above slips; no	problems
1/8/94	Ran GR to 11,3000 RIH w/tbt, ND BO SI well for evalu)'; Set CIBP @ 11,284 ?, NU WH; RD Comp Uni Lation	L	New PBTD @ 11,234'; CCEPTED FOR RECCHO Y. Jaia (FC) 2 + 1994
1)0	hat the foregoing is true and correct Vicki	e Teel Tite Production	·	ARLSBAD, NEW F
Signed (This space for Fe	ederal or State office use)	And the second	alland da a shin 12 d. Sa	
Approved by	proval, if any:	Title		Date

*See Instruction on Reverse Side

	2		CONS CONNISSION
		, 01	L CONS COMMISSION
		Drawe	DD FORM APPROVED
arm 3160-5	UNITED STATES	Arte	18., NM 68210 No. 1004-0135
nac 1990)	DEPARTMENT OF THE INTERIOR		Expires: March 31, 1993
	BUREAU OF LAND MANAGEMENT		5. Lease Designation and Serial No.
	THE AND DEVOUTE ON WE	118	NM-19672
SUNI	RY NOTICES AND REPORTS ON WE	to a different reservoir	6. If Indian, Allotte or Tribe Name
Do not use this form for	proposals to drill or to deepen or reentry	To a miler chi i caci von	
Use "APF	LICATION FOR PERMIT " for such p		7. If Unit or CA, Agreement Designation
	SUBMIT IN TRIPLICATE		- /. It out of CA, Agreeting Strig
Type of Well			
Oil Well X Gas We	i Other		
Nume of Operator			8. Well Nume and No.
Harvey E. Yates Co	mpany V		FANNIE LOU FEDERAL #1
Harvey E. Tuttes etc.	F 2		9. API Well No.
Address and Telephone No.			30-015-21617
DO Dev 1003 R	oswell, NM 88202 1-505-623-660	1	10. Field and Pool, or Exploratory Area
P.O. Box 1995, R	swen, runt oot at the	1	SCANLON MORROW
Location of Well (Footage, Sec., T., R	M or Survey Description)		11. County or Perish, State
G, 1980' FN & EL	, ML UF MILETY PROPERTY	Sec. 11.	EDDY CO., NM
SW/NE SEC. 31, T-208,	R-29E	- Kali (a la da	
3W/NE SEC. 31, 1-200,		Figure	
CHECK APPROPRI	ATE BOX(s) TO INDICATE NATUR	E OF NOTICE, REPORT, O	DR OTHER DATA
TYPE OF SUBMISSIO	NI	TYPE OF ACTION	
		Change in P	l any
Notice of Intent	Abandownent Recompletion	New Constr	niction
	Plugging Back	Non Routin	e Fracturing
X Subsequent Report	X Casing Repair	Water Shut-	Off
	Altering Casing		to Injection
Final Abandoment	CASING LEAK FIXED	& TESTED Dispose Wa	
	& TEST STRAWN & UP	PERPAY (Note: Report rooted	te af maitple completion on Well
		Completion or Rec	ampletion Report and Log Form.)
and the second of Completed Operation	(Clearly state all partment details, and give pertirent dates, being	iting estimated date of starting any proposed work.	if well is directionally defined,
	AAAA TROTT AADINAT MATTANA PARTA I	J INMARY CONTRACTORES AND A	
	AND DDAVE CIPC HELVELUN 4 1/2	AUD Chomon Chom	SOT OF HOLE.
PERF 4 SQZ HOLE	AND BROKE CIRC BET (10) S @ 6250' (110LE @ 6201'). SET 110W	CORDANER @ 0100.	ALAD 9 AND 2.5#/GAL SALT.
2. 5-26-95 CMT 4 1/2"	S @ 6250' (110LE @ 6201'). SET 110W ANNULUS w/ 300 SKS 110WCO LITE (& 650 SKS CL "II" W7.570 II	OP 15 MIN HELD OK.
4. 6-2-95 RAN CBL. T	L OUT CMT RETAINER AND CEMEN OC @ 3350'. 6-3-95 PERF STRAWN IC	J410-10453 (CA). 0-0-95 ACID	
SWAB TO TEST.		SOLULI (FOR OF WOLFCAM)	P) PLUS 50' CEMENT.
5. 6-8-95 SET CIBP @	10375' + 50' CMT. ALSO SET CIBP @	2000 GALS 15% SRA. SWAT	TO TEST.
6. 6-9-95 PERF DELA	WARE 5671-5690.5' (OA). ACIDIZE W/	PENDING EVALUATION.	
7. WELL SWABBED.	CUTTING SLIGHT SHOW OF OIL. S C. W/ OXYGEN SCAVENGER & CORR	OSION INHIBITOR TO PRC	TECT CASING & TBG.
8. 6-15-95 HOLE CIR	C. w/ OXYGEN SCAVENGER & CORR VAL FOR FENCED PIT ON LOCATIO	N NORTH OF WELL HEAD	TO BE USED FOR ADDITIONAL
REQUEST APPRO	VAL FOR FENCED FIT ON LOCATIO		
OPERATION OR P	LUGGING.	20	
2 7	a serie and critical		
14. I hereby certify that the foregoing			
1.10	RAY F. NOKES THE	PROD. MGR/ENG.	Date 6/26/95
Signed Layt.			
(This space for Federal or State	office use)		K. 6. 1
			Date 1 12
Approved by	Title		J. Jara
Conditions of approval, if my:			0 6
		or senary of the United States any false. fictiliser	or fraudulent statements
This 18 U.S.C. Section 1981, makes is a crist	i for any person knowingly and willfully to make to any department	Int selection 1 of the contrast speece and amount process	
or representations as to any matter within it	jariniktion.		
	* See Intruction o	a flig Reverse Side	

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				AVATION DIV
			LCONNE	T. M UB210-2834 FORM APPROVED
			BIT S. INIG	NM 88210-2854
Form 3160-5	UNITED STATES	DIOD	AHILO	FORM APPROVED Budget Bureau No. 1004-0135
	EPARTMENT OF THE INTE UREAU OF LAND MANAGE		-14	Expires: March 31, 1993
~		10	100	5. Lease Designation and Serial No.
SUNDR	Y NOTICES AND REPORTS	ON WELLS	NURSE I	NM-19672 6. If Indian, Allotic or Tribe Name
Do not use this form for pr	oposals to drill or to deepen or ICATION FOR PERMIT for	reentry to a differencies	EVOLE: U	6. I main, Anous of The Natio
Use "APPL	SUBMIT IN TRIPLIC.		1. 1. S. M	7. If Unit or CA, Agreement Designation
1. Type of Well		and the second se		
Oil Well X Gas Well	Other		e eð .	
2. Name of Operator		×	×	8. Well Name and No.
Harvey E. Yates Com	pany			FANNIE LOU FEDERAL #1
				9. API Well No. 30-015-21617
3. Address and Telephone No.	well, NM 88202 1-505-62	3-6601		10. Field and Pool, or Exploratory Area
• P.O. BOX 1995 , RUST	Wen, 14141 00202 1-000-01			SCANLON MORROW
4. Location of Well (Footage, Sec., T., R., M	i, or Survey Description)			11. County or Parish, State EDDY CO., NM
G, 1980' FN & EL	20 .			EDDI CO., NM
SW/NE SEC. 31, T-20S, R-				
12. CHECK APPROPRIAT	E BOX(s) TO INDICATE N	ATURE OF NOTICE, I	REPORT, OR	OTHER DATA
TYPE OF SUBMISSION		TYPE OF AC	TION	
X Notice of Intent	Abandonment		Change in Pla	
	Recompletion		New Construct Non-Routine 1	
Subsequent Report	Plugging Back Casing Repair		Water Shut-Of	T.
Final Abandoment	Altering Casing		Conversion to	-
	X Other P&A		Dispose Water	of makipie completion on Well
10 C			Completion or Recom	pletion Report and Log Ferm.)
13. Describe Proposed of Completed Operations (C	learly state all pertionni details, and give pertions:	dates, including estimated date of starting	my proposal work. If 1	wil is directionally drilled,
give subsurface locations and meaning	red and true vartical depths for all markers and sor	ne partinent to this work.)		
	SURFACE PIPE @ 695'	23051		
INTE	CRMEDIATE CASING @			
	T PERFS 5671-90. 5' DE	LAWARE.		
1. SET CIBP @ 5650)FF @ 3200'. IF SUCCE	SCEUT THEN PHILL	4 1/2" CSG	SPOT CMT
2. ATTEMPT CUTC	IFF @ 3200'. IF SUCCES	D TACHUL IFNOT	SUCCESSE	UL MAKE HIGHER CUT
PLUG 50' IN ANI	SPOTTING CMT PLUG	ACROSS BOTH CI	TS	TAG PLUG .
AND PULL CSG.	SURE CMT PLUG IS IN H	ACROSS BOTH CO	7' INTERVA	Δ.
(NOTE: MAKE S	OKE CIVIT PLUG IS IN I	MT PLUC FROM 7	50 TO 650'	(ACROSS SURFACE SHOE.
3. AFTER PULLING	ACE PLUG. CUT OFF V	H AND INSTALL DI	EV HOLE N	ARKER TAG PLUG).
4. PUMP 50' SURF	AND CLEAN LOCATIO	N		
	JOE LARA (BLM-CARLSBA			8
CALL BLM CARLS	BAD 24 HOURS PRIOR	TO COMMENCEM	ENT @ 1-50	5-887-6544
	1 0			
14. I hereby certify that the foregoing is	true and correct			
signed Lay 7.	RAY F. NOKES THE	PROD. MGR./ El	NG. D	ste <u>7/1/96</u>
(This space for Federal or State of	Πce we)			
A	a an an Titl	e e e e e e e e e e e e e e e e e e e	D	de <u>8/1/96</u>
Approved by Conditions of spproval, if any:				
	ATTACHED -			•
	•			(A.

									15
						3			c15'
Form 3160-5		UNITED		D				DRM APPI	
(June 1990)		EPARTMENT O JREAU OF LAN			N.M. Oil	Cons. D	VISIOD Fm	res: Marci	u, 1004-0135 h 31, 1993
	BU	JREAU OF LAIN	JWANAGEWIEN	• 1	ופי היוט	STERAL	E. J. Levis I New Service		and all No.
	SUNDR	Y NOTICES ANI	REPORTS ON	WELLS	Artesia, N	M 38210.	0001	NM-19	672
Do not use this	is form for pr	oposals to drill or	to deepen or reen	try to a diff	Artesia, N lerent reserve	oir oir	6. Il Indian, Allo	tte or Trib	e Name
	Use "APPL	ICATION FOR P	ERMIT" for su	ch proposal	5				
		SUBMIT IN	TRIPLICAT	£			7. If Unit or CA,	Agreemen	t Designation
1. Type of Well						• • • •			
Oil Well 🚺	X Gas Well	Other							
2. Name of Operator						14° 15°	8. Well Name an		FEDERAL # 1
Harvey E. Ya	'ates Comp	any						LOUT	EDERALWI
							9, APL Well No.	30-015-2	21617
3. Address and Telephone N	No.	-11 NINE 00303	1 505 673 666	11		2 a 1	10. Field and Po		
P.O. Box 199	93 , Kosw	ell, NM 88202	1-303-023-000	<i>,</i>	- 33		· · ·	•	MORROW
	0 T D M -	- Numuri Description)					11. County or P		
4 Location of Well (Footage G, 1980' FN &		r aurrey inscription,					E	DDY C	0., NM
SW/NE SEC. 3		29E							
								1	
12. CHECK APP	PROPRIAT	E BOX(s) TO IN	DICATE NATI	JRE OF N	OTICE, RE	PORT, OR	OTHER D	ATA	
TYPE OF SUE	BMISSION				PE OF ACT				
Notice of Intent	it .	Abandonment			-	Change in Pla			
	. 1	Recompletion			H	Non-Routine			
X Subsequent Rep	eport	Plugging Back Casing Repair			F	Water Shut-()			
Final Abandem	ment	Altering Casing				Conversion to	Injection		
		X Other P&	4		_ [Dispose Water			
					-	5 (BV) (SW)	of multiple completion		
							pletion Report and I		
13. Describe Proposed of Comp	plated Operations (Cli	rarly state all pertinent details	, and give periment dates, in	chaling estimated (nare of starting solv be	oliosea ana.r. 11 ann	In directionary of the		
give subsurface to	locations and measure	and true vertical depths for SURFACE PI							
	INITE	RMEDIATE (17'					- /
		T PERFS 5671							Post FD-2
					D			1	1-31-97
1. 12-10-96	6 SET CIB	P @ 5650' PLU	15 25 5A5 CM			501			
2. 12-11-96	6 CUTOFI	F 4 1/2" CSG @	3200°, SPOT	43 379 1		2301			PXA
3. 12-12-96	6 TAG PLU	JG @ 3110'. P	UMP 45 SXS C	.NII (a), /:	$\mathbf{D}^{\prime}, \mathbf{LAG} (\mathbf{a})$		/ 11/NL 17 BA	ADK	CD
PUMP 2	20 SXS SU	RFACE PLUG	@ 60', CUT (JFF WH	AND INST	ALL DKI		ANN	LN.
BACKF	FILL PITS	AND CLEAN	LOCATION.						
			ONTOCATION		ADTNED AD	PPOVAL F		T.	
SURFAC	CE EQUIPMI	ENT TO BE LEFT	ON LOCATION		ANIMENAI	INCIALI	S CR CREDI		
								C 22	174
P&A COMPI	'LETE: 12-1.	2-90						3	- (g) - 11
	/	1						00 /	- 201 202
	12 11	\cap						27% 272	
14. I hereby certify the	the foregoing is tru	e and serres					• • • • •	12.	
	10								
Signed Las	7 7. 1	RAY F. N	OKES Tille	PROD	MGR./ ENG	i. K	Dute 1/8/97		
(This space for Fed	ederal or State offic	e use)		e naturational	EUM EHBR	VEER			
1	(ORIG. SG	D.) DAVID R. (~ 월 11년년	د است این ^۲ ۳۱ (مانور ا		JAN	113	1997
Approved by			Title)ale		
Conditions of upp	proval, if any:								

Approved as to physics of the well book. Liables period bond is retained until purface resonation is completed.

MEWBOURNE OIL COMPANY

FREEDOM 36 STATE SWD #1 - PERMIT APPLICATION FRESH WATER WELL TABULATION

11/4/2019

POD Number	POD Subbasin	County	Source	q64	q16	q4	Sec	Tws	Rng	х	Y	Start Date	Finish Date	Log File Date	Depth Well	Depth Water
CP 01589 POD1	CP	ED	Shallow	NW	NE	NW	35	20S	28E	579674	3600121	03/15/2016	03/16/2016	04/05/2016	109	70
C 03269 POD1	CUB	ED		SW	SE	NW	36	205	28E	581268	3599609					
CP 00924 POD1	CP	LE	Shallow	SW	SW	NE	30	20S	29E	583259	3601235					
CP 00936 POD1	CP	ED		SW	SE	NE	30	20S	29E	583661	3601238					
C 02992	C	ED	Shallow	SW	SW	NE	01	21S	27E	580594	3597311	09/01/2003	11/11/2003	11/17/2003	250	186
C 03350	c	ED	Shallow	NW		NE	01	215	27E	580896	3597476	11/01/2007	11/08/2007	02/17/2009	76	8
C 03525 POD1	CUB	ED	Shallow	NW	NW	NW	01	21S	27E	579702	3598362	11/30/2011	11/30/2011	12/12/2011	31	20
C 03525 POD3	CUB	ED	Shallow	NW	NW	NW	01	21S	27E	579728	3598332	12/01/2011	12/01/2011	12/12/2011	30	
C 03525 POD4	CUB	ED	Shallow	NW	NW	NW	01	21S	27E	579728	3598362	12/02/2011	12/02/2011	12/12/2011	29	
C 03689 POD1	С	ED	Shallow	NW	NW	NE	01	21S	27E	580490	3598014	10/31/2013	11/01/2013	11/08/2013	95	10
C 03268 POD1	CUB	ED		SE	NE	SE	01	21S	27E	581201	3596915					
C 03660 POD1	С	ED		SE	SW	NE	01	21S	27E	580850	3597291					
C 03704 POD1	С	ED		SW	SE	NW	01	21S	27E	580147	3597242					
C 00469	CUB	ED			NW	SE	02	21S	27E	579078	3596994	08/06/1953	09/07/1953	08/11/1958	767	
C 03525 POD2	CUB	ED	Shallow	NE	NE	NE	02	21S	27E	579676	3598362	11/30/2011	11/30/2011	12/12/2011	29	20
CP 00633	CP	ED		SE	NIVA	NE	26	21S	28E	588908	3591350					
				JE		NE	20	213	200	500300	3391350					6
														AVG		52

NOTE: source New Mexico Office of the State Engineer

water analysis attached

Imperative Water Analysis Report

SYSTEM IDENTIFICATION WATER CHEMISTRY CATIONS ANIONS Company: Mewbourne Oil NM 900.00 Calcium(as Ca) 592.40 Chloride(as Cl) Location: Freedom 36 SWD 1 **INDERATIVE** Magnesium(as Mg) 155.10 Sulfate(as SO₄) 1293 Sample Source: Wellhead Barium(as Ba) 0.00 Dissolved CO₂(as CO₂) 10.00 ICAL PARTNERS Account Rep: Danny Gonzales Strontium(as Sr) 4.85 Bicarbonate(as HCO₃) 85.54 Sodium(as Na) 226.42 H₂S (as H₂S) 12.00 Boron(as B) 9.82 Potassium(as K) 66.98 0.915 Lithium(as Li) 0.00 Iron(as Fe) W-16546 Sample ID#: 0.00 Manganese(as Mn) Sample Date: 11-07-2019 PARAMETERS 8.21 Report Date: 11-13-2019 Temperature(^{OF}) 77.00 Sample pH 3458 Sp.Gr.(g/mL) 1.00 Conductivity 3390 Resistivity 289.16 T.D.S.

SCALE AND CORROSION POTENTIAL

Temp.	Press.	C	alcite	Anl	nydrite	Gy	psum	В	arite	Ce	lestite	Sic	derite	Mack	awenite	CO ₂	pCO ₂
(^o F)	(atm)	Ca	aCO3	C	aSO4	CaSO	4*2H20	В	aSO4	S	rSO4	Fe	cO3		FeS	(mpy)	(atm)
70.00	1.000	8.35	0.556	0.394	-274.92	0.673	-114.64	0.00	-0.00488	0.363	-6.11	0.00	-0.0229	0.00	>-0.001	0.00371	< 0.001
130.00	10.000	3,92	0.141	0.560	-142.60	0.737	-78.99	0.00	-0.0156	0.395	-5.34	0.00	-0.0294	0.00	-0.00206	0.0171	0.00468
142.00	19.000	3.32	0.105	0.635	-105.87	0.782	-61.38	0.00	-0.0193	0.396	-5.30	0.00	-0.0309	0.00	-0.00287	0.0173	0.00888
154.00	28.000	2.85	0.0794	0.735	-67.84	0.826	-46.07	0.00	-0.0237	0.397	-5.29	0.00	-0.0320	0.00	-0.00391	0.0193	0.0131
166.00	37.000	2.47	0.0599	0.865	-29.91	0.869	-32.85	0.00	-0.0289	0.396	-5.30	0.00	-0.0327	0.00	-0.00523	0.00416	0.0173
178.00	46.000	2.16	0.0453	1.04	6.88	0.910	-21.44	0.00	-0.0351	0.394	-5.34	0.00	-0.0332	0.00	-0.00687	0.0102	0.0215
190.00	55.000	1.91	0.0340	1.26	41.65	0.949	-11.69	0.00	-0.0424	0.391	-5.40	0.00	-0.0334	0.00	-0.00886	0.00817	0.0257
202.00	64.000	1.70	0.0254	1.55	73.77	0.984	-3.45	0.00	-0.0511	0.387	-5.48	0.00	-0.0333	0.00	-0.0112	0.00918	0.0299
214.00	73.000	1.52	0.0183	1.92	102.44	1.01	1.86	0.00	-0.0620	0.378	-5.69	0.00	-0.0334	0.00	-0.0142	0.0134	0.0341
226.00	82.000	1.37	0.0129	2.42	128.56	1.04	7.48	0.00	-0.0743	0.372	-5.84	0.00	-0.0331	0.00	-0.0174	0.0182	0.0383
238.00	91.000	1.25	0.00834	3.07	151.26	1.06	11.89	0.00	-0.0888	0.364	-6.03	0.00	-0.0326	0.00	-0.0211	0.0239	0.0426
250.00	100.000	1.14	0.00465	3.93	170.66	1.08	15.27	0.00	-0.106	0.356	-6.24	0.00	-0.0321	0.00	-0.0253	0.0294	0.0468
			Lbs per		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per		
		xSAT	1000	XSAT	1000	xSAT	1000	xSAT	1000	XSAT	1000	xSAT	1000	xSAT	1000		
			Barrels		Barrels		Barrels		Barrels		Barrels		Barrels		Barrels		

Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. Ca Ca Co_3 K_{sp} . pCO₂ (atm) is the partial pressure of CO₂ in the gas phase. Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.





MEWBOURNE OIL COMPANY

FREEDOM 36 STATE SWD #1 PERMIT APPLICATION

TABULATION OF PRODUCED WATER ANALYSIS

3rd Bone Spring Formation

	Roscoe 6 B3AD Fed Com #1H	
Formation:	Bone Spring	
Section	6	
Township	215	
Range	27E	
Sample #	W-6358	
Date Caught	3/14/2019	
Process Date	3/15/2019	
Analysis		
pH	5.8	
Temp	118.1	
Specific Gravity	1.1	
CO2	700.0	
Calcium	4,909.0	
Magnesium	799.1	
Sodium	47,178.0	
Barium	1.69	
Manganese	0.78	
Strontium	536.6	
Potassium	1,401	
Bicarbonate	61	
Sulfate	259	
Chlorides	86,000	
Iron	22.6	
TDS	138,049	

Derringer 18 B3DA Fed #2H – 18, 20S, 29E

4/18/2016: Water analysis: SG @ 1.152, Temp 60°F, pH 5.44, Na 56,741, Ca 11,070, Mg 8,848, Fe 41, CL 133,150, SO₄ 325, HCO₃ 122 (all in Mg/L).

2nd Bone Spring Formation

Derringer 18 Fed Com #2H – 18, 20S, 29E

4/10/2013: Water analysis: Water analysis from 04/10/13: SG @ 1.170, Temp 70°, pH 6.79, Na 67,801, Ca 8,000, Mg 4,800, Fe 0.3, CL 132,000, SO₄ 350, HCO₃ 73 (all in Mg/L)

Wolfcamp Formation

-					Sample	Days Since	nii -		ub Chloride •	Lab Total Iron	Lub TDS 💌	COLON T	Lab Specific
Date -	Company 👻	Lease	of wells -	Frat: Dutte •	and the Restation of Street, or other	Erac •	19/1	17251	and and a standard standard as a standard standard as a standard standard standard standard standard standard st	and the second states of the	and the second second second second	Contraction of the	ECHANO SCOT
W-1472	Mewbourne Oil NM	Styx 17 W2PA Fee Com	1H	3/31/2017	4/11/2018	376	6.01	8	62,669	25.29	104,530	6.01	1.073
W-3755	Mewbourne Oil NM	Styx 17 W2PA Fee Com	1H	3/31/2017	9/7/2018	525	5.16	17.1	61,267	247.46	101,474	5.16	1.071
		Loving Townsite 21 WOPA Fee	2H	5/15/2017	9/7/2018	450	7.16	17.1	68,675	11.22	112,445	7.16	1.078
		Slider 18 WODM Fed Com	1H	7/6/2017	9/7/2018	428	6.59	8.55	67,574	2.71	110.832	6.59	1.077
		Viper 29 32 WOLM Fed Com	1H	2/20/2016	11/9/2018	993	6.58	0.34	\$0,000	25.61	128,781	6.58	1.09
		White Snake 20/21 WOBC Fee	2H	6/13/2018	11/9/2018	149	6.59	0.34	81,000	12.25	130,470	6.59	1.09
		White Snake 20/21 W28C Fee	18	6/13/2018	11/9/2018	149	6.34	0.34	69,000	57.84	111.954	6.34	1.08
		Speedwagon 27 W2DM	1H	3/11/2016	11/12/2018	976	6.13	1.71	70.000	13.94	113.697	6.13	1.08
		Loving Townsite 21 W2PA Fee	114	5/15/2017	11/12/2018	546	6.69	3.42	69,000	72.99	111,798	6.69	1.05
		Speedwagon 27 W2PA	lh	1/24/2018	11/12/2018	292	6.45	1.71	71,000	101.5	115.051	6.13	1.08
		Speedwagon 27 WOPA	2H	1/24/2018	11/12/2018	292	6.78	1.71	77,000	39.9	124,062	5.57	1.09

ALL SAMPLES FROM MEWBOURNE OPERATED WELLS IN TOWNSHIP 23S, RANGE 27E & 23S, RANGE 28E







Listing of Notified Persons

Freedom 36 State SWD #1 Application 1285' FSL &' 925' FEL, Unit P Section 36, T20S, R28E, Eddy County, NM

Surface Owner

New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501

Federal or New Mexico State Minerals Within 1 Mile

Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220

New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501

Offsetting Operators Or Leasehold Owners Within 1 Mile

Section 25, 20S, 28E

Colgate Operating, LLC 306 West Wall, Suite 500 Midland, TX 79701

Mewbourne Oil Company

E/2, Section 35, 20S, 28E

Fasken Oil & Ranch LTD 6101 Holiday Hill Road Midland, TX 79707

E/2, Section 36, 20S, 28E

Mewbourne Oil Company

W/2, Section 36, 20S, 28E

EOG Resources 5509 Champions Dr. Midland, TX 79706

Section 30, 20S, 29E

MRC Permian Company 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Mewbourne Oil Company

Section 31, 205, 29E

MRC Permian Company 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Mewbourne Oil Company

Section 1, 21S, 27E

Mewbourne Oil Company

Sections 5&6, 21S, 28E

XTO Permian Operating LLC. 6401 Holiday Hill Road, Building 5 Midland, TX 79707

1

Affidavit of Publication

Ad No.

0003874407

MEWBOURNE OIL COMPAN Y 3901 S BROADWAY AVE

TYLER, TX 75701

I, legal clerk - ELP-CA Current-Argus, a newspaper published weekly in the county of Luna, 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:

November 1, 2019

Despondent further states this newspaper is duly qualified to publish legal notice or advertisements within the meaning of Sec. Chapter 167, Laws of 1937.

Legal Clerk

Subscribed and sworn before me this November 5, 2019:

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State of WI, County of Brown NOTARY PUBLIC

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Ad # 0003874407 PO #: Freedom 36 # of Affidavits : 1

NOTICE Mewbourne Oil Company has tilled a form C-108 (Application for Author/zation to Inject) with the New Mexico Oil Conserva-tion Division seeking administra-tive approval to drill and com-plete the Freedom 36 State SWD #1 as a sait water disposal well. The Freedom 36 State SWD #1 is located 1285' FSL and 925' FEL Unit Letter P, Section 36, Township 20 South, Range 28 East, NMPM, Eddy County, New Moxico. The well will dispose of water produced from nearby op-parated oil and gas wells into the Devonian formation into an open-hole interval from a depth of 12,625 feet to 13,650 feet. Expected maximum injection rates are 30,000 BWPD at a max-imum injection pressure of 2,525 psi.

imum injection pressure of 2,525 psi, Interested parties must tile ob-jections or requests for hearing with the Oil Conservation Divi-sion, 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 Gompany, 3620 Old Bullard Road, Tyler, Taxas 75701, (903)-534-7647. The webourne Oil contact approximately 10 miles northeast of Carlsbad, New Mexico. Mexico. #3874407 11/1/2019 Current Agrus

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November 11, 2019

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

Re: Freedom 36 State SWD #1 Sec 36, Twp 20S, Rge 28E 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

Tinth R. Daingter

Tim Harrington Reservoir Engineer tharrington@mewbourne.com

STATEMENTS REGARDING SEISMICITY AND WELL SPACING

Historically, the area nearby our proposed Freedom 36 State SWD #1 has not seen a significant amount of seismic activity. The closest recorded seismic event (per USGS database) in this area occurred in 1979 (magnitude 3.9) and was located 15 miles south of our proposed SWD (see attached map).

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. Our publicly sourced faults data is from a 2005 paper by Ruppel etal. (map attached). Based off our subsurface mapping of the deep formations, Mewbourne has not interpreted any faults in the immediate area. The closest known mapped "deep" fault, that is documented in public data, is approximately 16.7 miles southwest 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 a 15-25% chance of being critically stressed so as to create an induced seismicity event. Injection into the Freedom 36 State SWD will have no impact on the stress of this fault since the proposed SWD is located almost 17 miles away.

The Freedom 36 State SWD #1 is located greater than 2.3 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 Freedom 36 SWD (miles)
Mewbourne Oil Company	Derringer Fed SWD #1	Active	2.97
San Mateo Stebbins Water Mgmt	Jim Pat SWD #4	Permit	2.31
Devon Energy Production Co., LP	Burton Flat Deep SWD #1	Active	2.67

Timothy R. Harrington

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



Precambrian Structure Map In the Permian Basin (Ruppel etal.)



Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of S______, 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*, 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 USCS Quaternary Faults and Fold's Database (Crone and Wheeler, 2000). The boundary between the Shawuee 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 USCS National Earthquake Information Center, the TexNet Seisnic Monitoring Program, and Can and Frohlich (2013). Focal mechanisms are from Saint Louis University (Herrmann et al., 2011).



Figure 2. Map of study areas chosen for FSP analysis on the basis of broadly similar stress conditions. Text annotations indicate representative S_{trea} orientation and relative principal stress magnitudes (*A*₄ parameter) for each study area based on the data presented in Figure 1. Gray lines in the background indicate fault traces compiled from Ewing et al. (1990), Green and Jones (1997), Ruppel et al. (2005), and the USGS Quatemary Faults and Folds Database (Crone and Wheeler, 2000), to which we apply FSP analysis.



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

References

Ewing, T.E., R.T. Budnik, J.T. Ames, and D.M. Ridner, 1990, Tectonic Map of Texas: Bureau of Economic Geology, University of Texas at Austin.

Green, G.N., and G.E. Jones, 1997, The digital geologic map of New Mexico in ARC/INFO format: U.S. Geological Survey Open-File Report.

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.

Ruppel, S.C., R.H. Jones, C.L. Breton, and J.A. Kane, 2005 Preparation of maps depicting geothermal gradient and Precambrian structure in the Permian Basin: Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin, Austin, TX.

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Earthquake Locations provided by USGS

Fault Locations sourced from the University of Texas Bureau of Economic Geology

Moc M	lewbourne	Oil Company
	FREEDOM 36 S Sec. 36-20S- 1285' FSI, & 92 EDDY, NEW M	29E 5' FEL
		Date: 31 October, 2019
Tech:	Scale: 1" - 12000'	





MEWBOURNE OIL COMPANY Freedom 36 State SWD #1

PLUGGING RISK ASSESSMENT

5 ½" Flush Joint Injection Tubing Inside of 7 5%" 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 ‰" 33.7# P110 Casing	OD (in)	ID (in)	Drift (in)	Wall Thickness (in)	5 ½" Flush Jt. Clearance (in)
	-7.625	6.765	6.640	0:430	0.6325

*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. 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: Nitralioy Grapples are available upon request.

Bowen Series 150 Releasing and Circulation Overshots Maximum Gatch Size 4%"to 5%" Inclusive

allevel time is a short give where any state of a	THE TUPER P.C.							
Maximum Galch Size (Spiral)		45	49	4%	4%	5	- 5	55
Maximum Calch Size (Baokel)		31%	455	4%	4%	4%	4%	4%
Overabot 0.0.		59%	5%	5%	5%	5%	8%	651
Type		ES.	S.H.	5.H.	S.F.6.	S.H.	ES.	S.H.
Complete Assembly	Part No.	5898	5898	G-5188	8875	C-5171	C-4825	8625
(Dressed Spiral Parts)	Weight	130	130	133	138	140	192	185
Replacement Parts								
Top Sub	Part No.	5897	5099	A-5169	8978	A-5172	8-4820	6626
Bowl	Part No.	5898	5700	B-5170	8977	B-5173	B-4827	8617
Packer	Part No.	109	1140	B-2199	8114	L-5950	L-4505	6616
Spiral Grapple	Part No.	185	1135	B-2201	8112	B-4389	M-1071	8619
Spiral Grupple Control	Part No.	180	1137	B-2202	6113	B-4370	M-1072	8620
Slanderd Guide	Part No.	187	1143	B-2203	8121	B-4371	L-1074	8621
Baakai Parte								
Bastat Grappie	Part No.	165	1135	B-2201	6112	B-4369	M-1071	8619
Baakel Grappie Control	Part No.	188	1137	B-2202	6113	B-4370	M-1072	8620
Mill Control Pecker	Part No.	109-R	1140-R	B-2199-R	8114-R	L-5950-R	M-4505	L-8618-R

In the Event of a Connection Break

- 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) turneddown 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.

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 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.

MEWBOURNE OIL COMPANY TABULATION OF WELLS WITHIN 1 MILE AREA OF REVIEW FREEDOM 36 STATE SWD #1 - C-108 APPLICATION 11/4/2019

r API	Lease Name	Mall Num	Operator Name	Current Operator	Section	Township R	Innan	Eastan	Current Status	Einal Status	IP Prod Form	Deillar Td	TVD (ft) Form at TD Name	Prod Zone	Proj Depth	Proi Form	Permit Date	Courd Date	Comp Date	Plugged Dat
30015248900000	LEE FEDERAL	C C	LIBERTY OIL & GAS CORP	LIBERTY OIL & GAS CORP			8E	B60 FSL 660 FWL	P&A	D&A	IF FIGU FORM	5040	5040 DELAWARE MOUNT	Prod Zone	6600	BONE SPRING	1984-07-18	1984-07-28	1984-09-14	9/1/1984
30015248910000	LEE FEDERAL	6	LIBERTY OIL & GAS CORPORATION	STRATA PROD COMPANY	_		8E	1875 FSL 1765 FWL	P&A	P&A OIL	DELAWARE	6619	6619 BONE SPRING	DELAWARE	6600	BONE SPRING	1984-07-18	1984-07-28	1984-09-14	4/15/2000
30015248910000	LEE FEDERAL	5Y	LIBERTY OIL & GAS CORPORATION	COLGATE OPERATING LLC	_		8E	990 FSL 712 FWL	ACTIVE GAS	GAS	DELAWARE	6410	6410 BONE SPRING	BONE SPRING	6600	BONE SPRING	1984-09-05	1984-09-15	1984-11-20	4/13/2000
30015244210000	LEE FEDERAL	3	LIBERTY OIL & GAS LOUISIANA	LIBERTY OIL & GAS LOUISIANA			8E	1975 FSL 1765 FEL	P&A	D&A	DECAWARE	1295	1295 YATES	BOINE SPRING	1400	YATES	1983-02-15	1983-02-25	1986-03-17	1986-03-17
30015324490000	FREEDOM 25 FEDERAL COM	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY			8E	990 FSL 1510 FEL	ACTIVE GAS		MORROW	11775	11775 BARNETT /SH/	MORROW	11900	MORROW	2002-09-17	2002-10-01	2002-12-09	1560-03-11
30015399170000	LEE FEDERAL	20H	CIMAREX ENERGY CO OF COLO	CIMAREX ENERGY CO OF COLO			8E	660 FSL 330 FEL	ACTIVE GAS	GAS	BONE SPRING	12126	7634 BONE SPRING	BONE SPRING	12214	BONE SPRING	2012-02-06	2014-05-25	2014-08-27	
30015024580000	STATE	1	ETZ GEORGE	ETZ GEORGE			8E	661 FNL 1981 FWL	P&A	D&A	Done of hinto	787	787 UNKNOWN	DOINE ST MINU	12214	DONE STANG	1935-03-18	1935-03-28	1935-05-07	1935-05-07
30015238740000	STATE 'LS'COM	1	AMOCO PRODUCTION COMPANY	MANZANO OIL CORP			BE	660 FNL 1980 FEL	P&A		STRAWN	11860	11860 MORROW	STRAWN	11950	MORROW	1981-09-03	1981-09-13	1982-03-02	
30015238740001	GREENHILL STATE	1	MANZANO OIL CORPORATION	MANZANO OIL CORPORATION	_		8E	660 FNL 1980 FEL	P&A		BONE SPRING 1	11860	11860 MORROW	BONE SPRING 1	7800	BONE SPRING	1987-10-12	1987-10-22	1988-01-25	1/15/1996
30015270050000	A E '36' STATE	1	COLLINS & WARE INCORPORATED	COLLINS & WARE INC			8E	2180 FNL 660 FWL	P&A	DRY W PIPE	DOITE DI MITO I	11696	11696 MORROW	DOITE STRING 1	11800	MORROW	1992-05-26	1992-06-05	1993-07-29	9/1/1993
30015321110000	LIBERTY '36' STATE COM	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	-		8E	660 FNL 990 FEL	P&A	D&A		1685	1685 RUSTLER ANHY		11900	MORROW	2001-11-28	2001-12-31	2002-01-07	1/8/2002
30015321560000	LIBERTY '36' STATE COM	17	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	_		8E	660 FNL 1300 FEL	ACTIVE GAS	GAS	MORROW	11815	11815 BARNETT /SH/	MORROW	11900	MORROW	2002-01-10	2002-01-15	2002-03-28	1/0/2002
30015329300000	FREEDOM 36 STATE COM	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	_	a second s	8E	1650 FSL 990 FEL	ACTIVE GAS	GAS	MORROW	11930	11930 BARNETT /SH/	MORROW	11900	MORROW	2003-08-07	2003-10-08	2003-12-24	-
30015334710000	PATRIOT 30 FEDERAL COM	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	_		9F	1650 FSL 1650 FWL	P&A		MORROW	11890	11890 BARNETT /SH/	MORROW	11900	MORROW	2004-07-02	2004-10-11	2004-12-20	-
30015334710001	PATRIOT 30 FEDERAL COM	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	_	1	9E	1650 FSL 1650 FWL	P&A	OIL	BONE SPRING	11890	11890 BARNETT /SH/	BONE SPRING	11900	BONE SPRING	2004-10-06	2009-12-06	2010-01-06	10/11/2004
30015223240000	STEBBENS FEDERAL N	1	YATES HARVEY E CO INC	YATES HARVEY E CO INC			9E	660 FSL 2970 FEL	P&A	D&A		3615	3615 DELAWARE		3500	DELAWARE	1977-10-22	1977-11-01	1977-11-10	11/10/197
30015036710000	MARTIN-BATES	1	GETTY OIL CO	GETTY OIL CO	_		9E	660 FSL 1980 FWL	P&A	D&A		342	342 UNKNOWN		5500	DECATIONE	1928-11-23	1928-12-03	1929-01-30	1929-01-30
30015036720000	MARTIN-BATES	3	GETTY OIL CO	GETTY OIL CO	_		9E	210 FSL 2430 FWL	P&A	D&A	·	1096	1096 UNKNOWN		-		1929-02-04	1929-02-14	1929-04-20	1929-04-20
30015036730000	LILLIE M YATES	1	YATES & NIX	YATES & NIX	_		9E	1650 FNL 990 FEL	P&A	D&A		950	950 UNKNOWN			UNKNOWN	1948-04-30	1948-05-10	1948-06-01	1948-06-01
30015200710000	YATES PET CORP	1	YATES HARVEY & COMPANY INC	YATES HARVEY & COMPANY INC			9E	330 FNL 2310 FEL	P&A	P&A	(*	3500	3500 UNKNOWN			UNKNOWN	1967-06-26	1967-07-06	1967-07-17	10/7/1967
30015210110000	FLAG-REDFERN	1	YATES HARVEY & COMPANY INC	YATES HARVEY & COMPANY INC	_		9E	660 FNL 1980 FWL	P&A	D&A	1	860	860 YATES		900	YATES	1973-11-17	1973-11-27	1974-03-20	3/15/1974
10010110120000	CANCER LOU FILLERAL		VATTS HARVEY & COTHE	VALES HARVEY C CO MIC		205	-	1000 810 1000 651	- HLA	PLACAS	MORECOW	1,78101	12810 DEVCHORN	MOREOW	11750	Mathew	1075-08-17	1077.00 27	1974 09 20	12/12/19
30015325460000	FREEDOM 31 FEDERAL COM	1	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	31	205 2	9E	1800 FNL 660 FWL	ACTIVE GAS	GAS	MORROW	11900	11900 BARNETT /SH/	MORROW	12100	MORROW	2002-10-16	2003-01-28	2003-03-16	
30015327940000	FREEDOM 31 FEDERAL COM	2	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY			9E	885 FSL 1425 FWL	PLUGGED	GAS	MORROW	11980	11980 BARNETT /SH/	MORROW	12050	MORROW	2003-05-06	2003-05-28	2003-07-20	-
30015327940001	FREEDOM 31 FEDERAL COM	2	MEWBOURNE OIL COMPANY	MEWBOURNE OIL COMPANY	_		9E	885 FSL 1425 FWL	ACTIVE GAS	GAS	STRAWN	11980	11980 BARNETT /SH/	STRAWN	11300	STRAWN	2003-05-19	2003-05-29	2003-12-24	
30015249210000	GOVERNMENT 'D'	WD-4	MOBIL PRODUCING TX & NM INC	MATADOR PRODUCTION CO			7E	1554 FNL 1980 FEL	ACTIVE SWD	SWD		5712	5712 DELAWARE		6000	BONE SPRING	1984-07-28	1984-08-07	1986-11-26	-
30015201750000	BIG EDDY UNIT-FEDER	13	PAN AMERICAN	PAN AMERICAN	_		8E	1565 FNL 1980 FWL	P&A	D&A		12150	12150 BARNETT /SH/		0000	UNKNOWN	1968-09-18	1968-09-28	1968-12-04	1968-12-04

THERE IS ONE WELL WITHIN THE 1 MILE AREA OF REVIEW THAT PENETRATED THE DEVONIAN FORMATION - (HIGHLIGHTED IN GREEN)

ESTIMATED TOP OF DEVONIAN = 12,625'