Form 3160-5 (August 2007)

# UNITED STATES

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OMB NO.	. 1004-0135
Expires: Ju	aly 31, 2010

	BUREAU OF LAND MANAGEMENT					Expires: July 31, 2010			
					5. Lease Serial No. NMNM0540701A				
SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.				6. If Indian, Allottee or Tribe Name					
SUBMIT IN TRIPLICATE - Other instructions on reverse side.			7. If Unit or CA/Agreement, Name and/or No.						
1. Type of Well					8. Well Name and No.				
Oil Well Gas Well 🗷 Oth	ner: INJECTION		,		TOP GUN FEDERAL SWD 1				
2. Name of Operator Contact: JACKIE LATHAN MEWBOURNE OIL COMPANY E-Mail: jlathan@mewbourne.com					9. API Well No. 30-015- <del>30175</del> <b>31075</b>				
, 3a. Address PO BOX 5270 HOBBS, NM 88241	(include area code) 3-5905	ode)  10. Field and Pool, or Exploratory  SALT-WATER DISPOSAL  SWO, Devontan							
4. Location of Well (Footage, Sec., T	Location of Well (Footage, Sec., T., R., M., or Survey Description)					11. County or Parish, and State			
Sec 18 T23S R27E Mer NMP	NENE 660FNL 660FEL				EDDY COUNTY, NM				
		;	SWD-150	61					
12. CHECK APPI	ROPRIATE BOX(ES) TO I	NDICATE	NATURE OF 1	NOTICE, RI	EPORT, OR OTHE	R DATA			
TYPE OF SUBMISSION									
D NI-dia City	Acidize	☐ Dee	pen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off			
☐ Notice of Intent	☐ Alter Casing	☐ Frac	ture Treat	☐ Reclam	ation	■ Well Integrity			
Subsequent Report	☐ Casing Repair	□ Nev	Construction	☐ Recomp	olete ·	<b>⊠</b> Other			
☐ Final Abandonment Notice			☐ Tempor	arily Abandon					
	☐ Convert to Injection	Plug	Back	☐ Water I	Disposal	•			
If the proposal is to deepen directions Attach the Bond under which the won following completion of the involved testing has been completed. Final At determined that the site is ready for f SICP 200#. MIRU acid pump. back & recovered 500 BW. Sano swab test needed). Pumps BPW.	rk will be performed or provide the operations. If the operation result pandonment Notices shall be filed of inal inspection.)  Opened csg & well began to amples show no presence of	e Bond No. or ts in a multiplonly after all: flowing @ : f hydrocarb	a file with BLM/BIA e completion or reco requirements, included BPM. POOH to cons (approved b	A. Required sub completion in a cling reclamation of 12914'. Floy Paul Swa	bsequent reports shall be new interval, a Form 316 n, have been completed, owed well rtz w/BLM,	filed within 30 days 0-4 shall be filed once			
See attached Geological sum	mary & Mud log.		VATIOR		Accept	ed for record - NMOC			
	ММ	OIL CO	NSERVATION DISTRICT	· ·					
Bond on file: NM1693 nationw	2016		SEE ATTACHED FOR CONDITIONS OF APPROVAL						
	•	REC	CEIVED						
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #341 For MEWBOURN Committed to AFMSS for	E OIL COM	PANY, sent to th	e Carlsbad	-				
Name (Printed/Typed) ERIN MCI	Title ENGINI								
·									
Signature (Electronic Submission) Date 06/06/2016  THIS SPACE FOR FEDERAL OR STATE OFFICE USE									
——————————————————————————————————————	THIS SPACE FOR	- FEDERA							
_Approved_By Lau	1-12 Swan	D-	Title Eng	Tech		Date 06/07/16			
Conditions of approval, if any, are attached certify that the applicant holds legal or equi which would entitle the applicant to condu	iitable title to those rights in the su	warrant or bject lease	Office Ca	Tech					

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



#### Geological Summary: Top Gun SWD #1

The Devonian formation in the Top Gun Federal SWD #1 consists of mainly limestone, dolomite, and a trace of shale. While drilling the Top Gun SWD #1, we encountered no hydrocarbon shows of any kind throughout the entire Devonian formation.

The Devonian formation does not produce from any well in a fifteen mile radius around the Top Gun SWD #1. There are approximately sixteen wells that have penetrated the Devonian formation in this area, and fifteen of those wells ran a drill stem test in the Devonian. All of these DSTs recovered significant amounts of water with no shows of oil or gas. The Mobil-Fed 12 #1 (API 3001520151), which is located 1.6 miles to the northwest of the Top Gun SWD #1, recovered 3250' of Sulphur water from its Devonian DST. This well is structurally 270' updip from the Top Gun SWD #1. With the Top Gun SWD #1 being downdip from the Mobil-Fed 12 #1, we would expect any type of a test to be non-productive.

When the Devonian formation does produce, it tends to be productive because of a closed deep structural feature. By looking at a structure map on the top of the Devonian, you can see there is no such structural feature present around the Top Gun that would trap hydrocarbons in the Devonian.

In conclusion, the Devonian formation around the Top Gun SWD #1 is not productive. There have been numerous DSTs in this area that have all recovered significant Sulphur water and no hydrocarbons. These wet DSTs are due to the fact that there is no structural feature in the Devonian formation that would create a hydrocarbon trap.

Sincerely,

Nathan Cless

Geologist

Mewbourne Oil Company

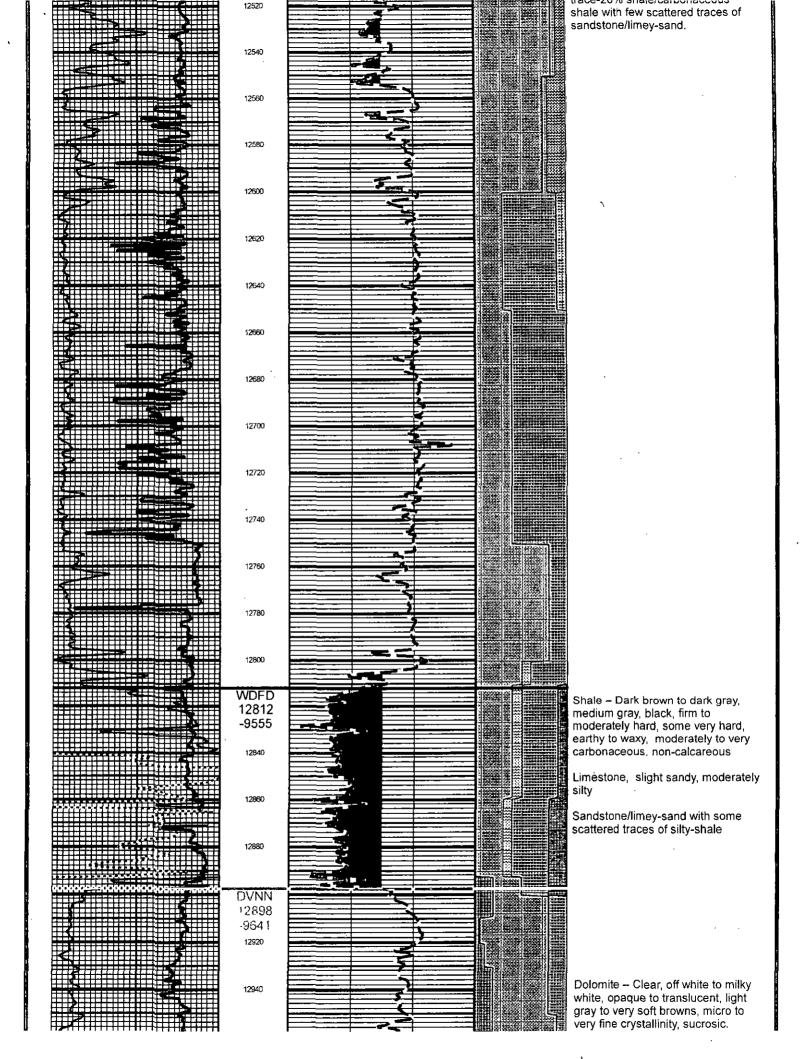
# Top Gun Federal SWD #1

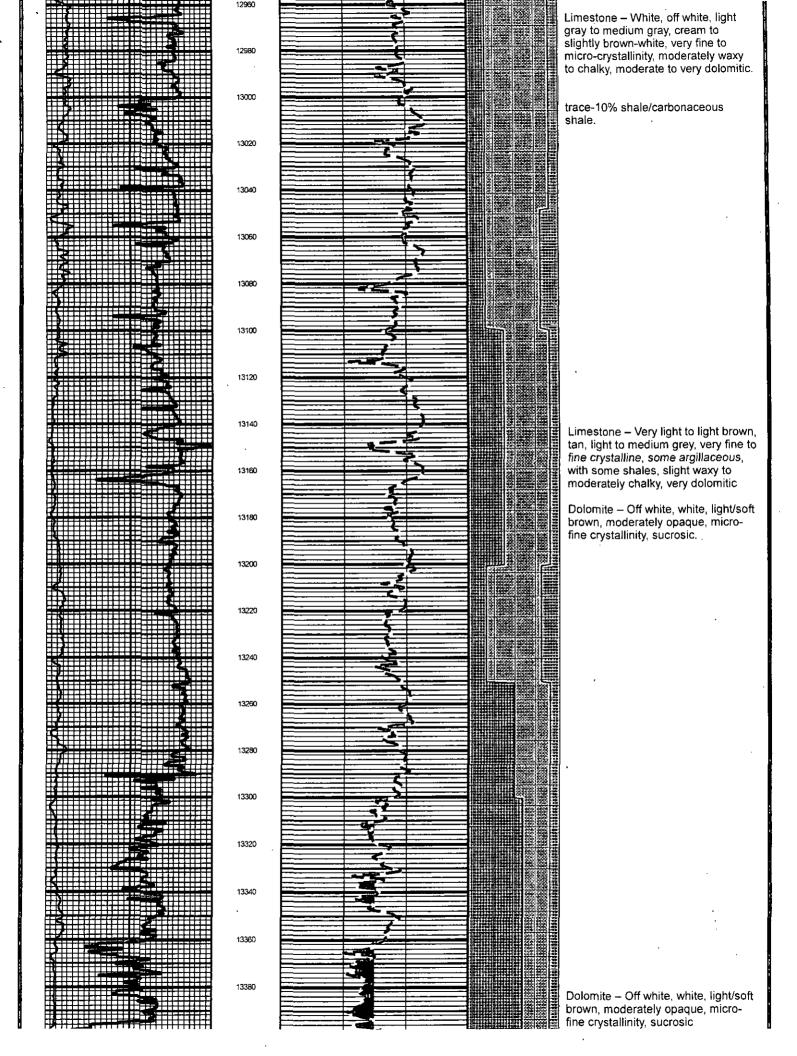
300153107500

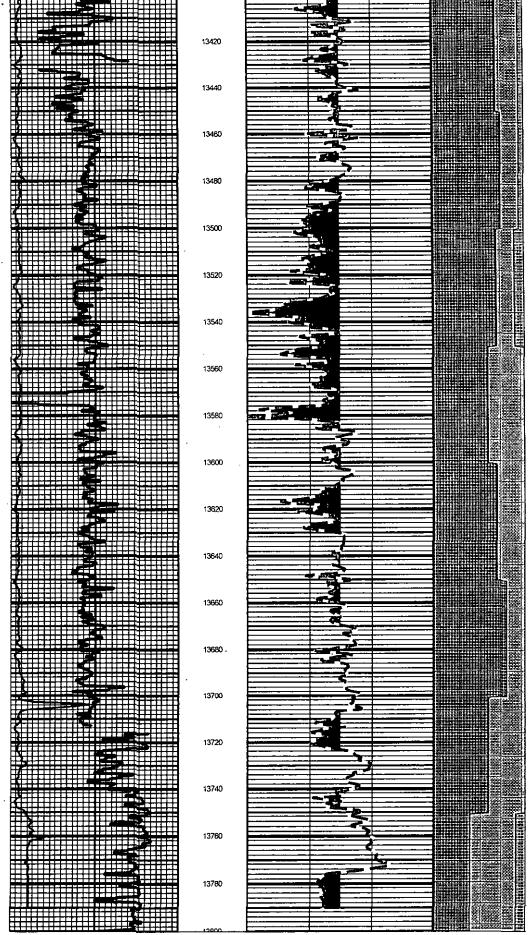
MEWBOURNE OIL CO **TOP GUN FEDERAL SWD 1** 660 FNL 660 FEL TWP: 23 S - Range: 27 E - Sec. 18 Ground=3230.00 Reference=KB Datum=3257.00

Correlation	Depth	Porosity		Lithology	
ROP	MD	TNPH			
100· ft/hr 0		30 — — — —	-10	0.000 100	
GR		>10%		Dolomite	
0 GAPI 150		<del>,</del>			
GR				Limestone	
150 GAPI 300					
				Sandstone	
				Shale	
				Carbn Shale	
				Chert	
		,			
				Siltstone	
				ELABOR PARAMETERS AND	
	12.00				
	12420				
		, , , , , , , , , , , , , , , , , , ,			
	12440				
	MSSPL				Limestone – Off white, white, lig
	12452 -9195	- 4			gray, light brown, pinkish-white to cream, very fine to micro-crysta
	'	37			some waxy to moderate chalky,
	12480				some dark chert.
	į	- 3			Shale – Medium gray, dark gray black, slightly calcareous to
	12500				non-calcareous, moderately silt traces of carbonaceous shale.
					etropo 20% chala/parhengeones

Limestone - Off white, white, light gray, light brown, pinkish-white to cream, very fine to micro-crystallinity, some waxy to moderate chalky, some dark chert.



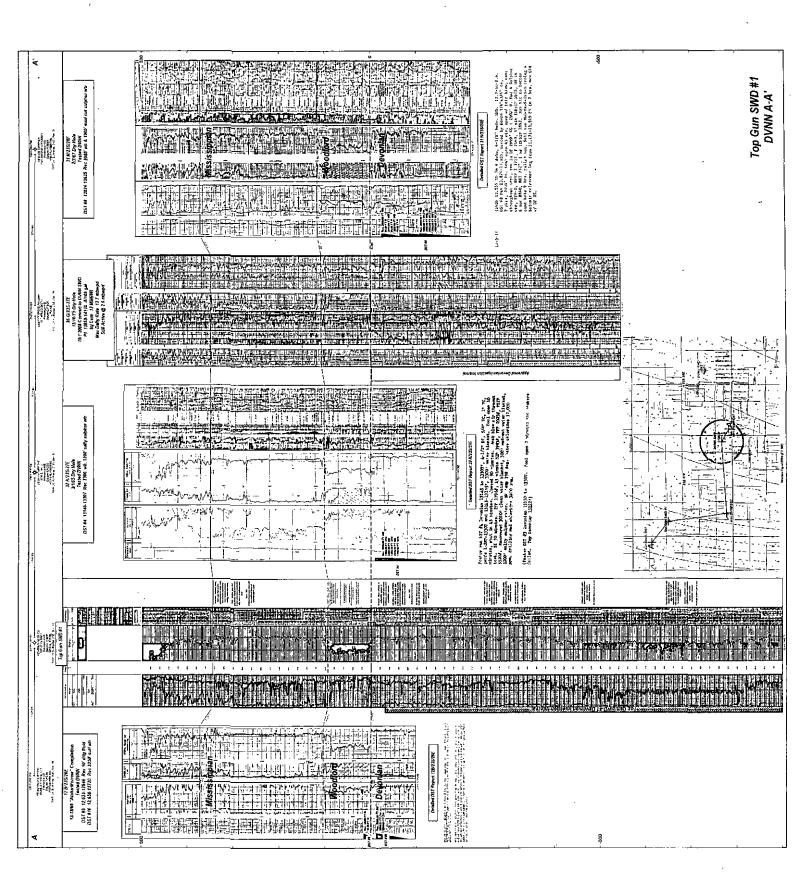




Limestone – Very light to light brown, tan, light to medium grey, very fine to fine crystalline, some argillaceous, with some shales, slight waxy to moderately chalky, very dolomitic

Dolomite – Off white, white, light/soft brown, moderately opaque, microfine crystallinity, sucrosic.

TD=13800.00



### **Order of Authorized Officer**

## Top Gun - 01, API 3001531075 T23S-R27E, Sec 18, 660FNL & 660FEL June 07, 2016

- 1. Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 12800 to top of cement taken with 0psig casing pressure. The CBL may be attached to a pswartz@blm.gov email.
- 2. Approval is granted for disposal of water produced from the lease, communitization, or unit agreement of this well only. Disposal fluid from another operator, lease, communitization, or unit agreement require BLM surface right-of-way agreement approvals and if applicable, authorization from the surface owner.
- 3. Disposal of water from another operator requires that the well be designated as a commercial well and BLM surface right-of-way agreement approvals.
- 4. If the well is to receive off-lease water or commercial disposal, the operator shall provide proof of surface right-of-way approval prior to injection.

#### Well with a Packer - Operations

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with a minimum 200 psig differential between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). Verify all annular casing vents are plumbed to surface and those valves open to the surface during this pressure test. An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
- 3) Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 4) Make arrangements 24 hours before the test for BLM to witness. In Eddy County 575-361-2822. In Lea County phone 575-393-3612. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number
- 5) The setting depths and descriptions of tubing internal protection, tubing on/off equipment just above the packer, and profile nipple are to be included in the subsequent sundry.
- 6) Compliance with a NMOCD Administrative Order is required.
  - a) Approved injection pressure compliance is required.

- b) If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
- c) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 7) A request for increased wellhead pressures is to be accompanied by a step rate test. PRIOR to a Step Rate Test BLM CFO is requiring a Notice of Intent.
- 8) Stimulation injection pressures are not to exceed BLM's permitted wellhead pressure or the well's frac pressure established by a BLM approved step rate test for Class II water injection wells.
- 9) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 10) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of a full annular fluid level at any time.
- 11) Maintain the annulus full of packer fluid at atmospheric pressure. Installation of equipment that will display continuous open to the air packer fluid level above the casing vent is required for this disposal well.
- 12) Notify the BLM's authorized officer ("Paul R. Swartz" < pswartz@blm.gov>, cell phone 575-200-7902) to arrange for approval of the annular monitoring system.
- 13) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 14) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.
- 15) Gain of annular fluid pressure requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0psia. Notify the BLM's authorized officer ("Paul R. Swartz" pswartz@blm.gov>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 16) Class II (production water disposal) wells will not be permitted Stimulation Pressures or "Injectivity Tests" that exceed the NMOCD/BLM generic frac pressure which is: .2 x ft depth to the topmost injection or 50psig below the frac point as clearly indicated by a BLM accepted "Step Rate Test".
- 17) A request for increased wellhead pressures is to be accompanied by a "Step Rate Test:" that is to clearly indicate any requested wellhead pressure is +50psig below frac pressure for the wellbore's disposal formation. PRIOR to a Step Rate Test BLM CFO is requiring a Notice of Intent.
- 18) The subsequent report is to include all stimulation injection pressures. Report maximum/minimum injection rate (BPM) and max/min stimulation injection pressures (psig).

19) Submit a (BLM Form 3160-5 subsequent report (daily reports) via BLM's Well Information System; <a href="https://www.blm.gov/wispermits/wis/SP">https://www.blm.gov/wispermits/wis/SP</a> describing (dated daily) all wellbore maintenance and workover activity including the Mechanical Integrity Test chart document.