

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Carlsbad Field Office
GOD Artesia

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. 063622
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
TENNESSEE FEDERAL 002

2. Name of Operator
WS OIL AND GAS OPERATING, LLC Pennant Oil Company

9. API Well No.
30-015-10161

3a. Address
C. Dosta Dr. Suite 5100
MIDLAND, TX 79704

3b. Phone No. (include area code)
432-242-4965

10. Field and Pool or Exploratory Area
29490: HACKBERRY:YATES-7RVRS,NORTH

4. Location of Well (Footage, Sec., T., R., M. or Survey Description)
330 FSL 330 FWL, UL M SEC 21 T19S R31E

11. Country or Parish, State
EDDY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

PROCEDURE TO DEEPEN WELL 150'
OBJECTIVE: OPEN AND PRODUCE FROM YATES 2,3 AND 4 ZONES.

- INSPECT LOCATION AND ANCHORS.
- BLEED OFF EXISTING PRESSURE. MIRU WORKOVER RIG. INSTALL PROPER BLOWOUT EQUIPMENT.
- UNHANG WELL. POOH WITH PUMP AND RODS. VISUALLY INSPECT RODS AND SHOP PUMP.
- NIPPLE DOWN WELLHEAD. NIPPLE UP BOP. TAG FOR FILL.
- POOH LAYING DOWN 2-3/8" TUBING.
- PU 4-1/2" BIT AND 5-1/2" CASING SCRAPPER AND CLEAN OUT TO PBTD @ 2186'. CIRCULATE CLEAN.
- POOH WITH BIT AND SCRAPPER.
- PU BOTTOMHOLE DRILL STRING ASSEMBLY.
- TAG PBTD. DRILL DOWN TO 2364' (TD 2214')
- CIRCULATE WELL CLEAN. POOH WITH DRILL STRING.
- RIH WTH 5-1/2" RBP AND PACKER. SET RBP @ 2195'. PUH WITH PKR AND SET @ 2050'
- ACIDIZE PERFS 2127' - 2186'. SWION FOR ACID TO SPEND.
- FLOWBACK ACID. POOH WITH RBP AND PACKER.
- RIH SET PACKER AT 2200'. ACIDIZE NEW OH WITH ACID AND DIVERTER.
- FLOWBACK ACID. POOH. RETURN TO PRODUCTION.

GC 6-14-18
Accepted for record - NMOCD

RECEIVED

JUN 13 2018

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

CARIE STOKER
Signature *Carie Stoker*

Title REGULATORY AFFAIRS COORDINATOR

Date 03/21/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *ACC - J. SHEPARD*

Title *RE* Date *5/21/18*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Office *CFO*

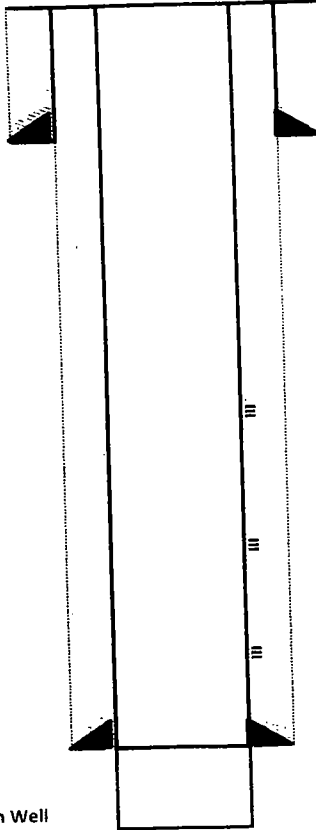
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)
ENTERED by Charles Nimmer
INTO AFSS on 5/15/16

**WS OIL & GAS OPERATING
WELLBORE DIAGRAM**

Lease/Well No.: **Tennessee Fed 002** ELEVATION, GL: 3,489 ft
 Location: 330' FSL & 330' FWL
 UL: M, SEC: 21, T: 19-8, R:31-E FIELD: Hackberry
 EDDY County, NM
 LEASE No.: Spudded: 12/3/1962
 API No.: **30-015-10161** Drig Stopped: 12/18/1962
 Completed:
 LAT:
 LONG:

11" HOLE
 Surface Csg:
 8-5/8"
 Csg Set @ 623'
 Cmt'd w/ 75 sx



TOC = 288'
 Calc'd (75% SF)
 623'

TOC Est'd @ 1,753'
 Calculated (75% SF)

TOPS	DEPTH, ft
SALT - Base	
YATES	2,364

7-7/8" HOLE

PERFS:
 2127 - 2135'

Zone	SPF - # Holes	Date
Y - Zone 1	42' 2+ spf - 84 holes	01/05/63

2140 - 2162'

TOTALS: 42' -- 84 holes

2177 - 2186'

Production Csg:
 5 1/2"
 Csg Set @ 2,214'
 Cmt'd w/ 100 sx

2,214' TD
 2,186' PBTD

Proposal to Deepen Well
 150' Open Hole
 4-1/2" bit

2364' TD

Legend:
 Black - Existing Well
 Red - Proposed drill