

12/6/06 DATE IN	SUSPENSE	CATHAVACH ENGINEER	12/8/06 LOGGED IN	TYPE IPI	APP NO. 2TDS0634231139
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



275

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

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

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

Print or Type Name

Signature

Title

Date

e-mail Address


Chesapeake

Natural Gas.

Natural Advantages.

2010 Rankin Hwy
Midland, Texas 79701
Phone: (432) 687-2992
Fax: (432) 687-4112

FAX COVER SHEET

DATE: 12-6-06
TO: ~~Will Jones~~ DAVID Catonish
FAX#: 505-476-3416

9 Pages with Cover

FROM: Shay Sticklin
SUBJECT: Littfield Fed SWD #1
Can you please approve this
today?

The information transmitted is considered privileged and confidential, and is intended only for the use of the individual or entity named. If the reader of this message is not the intended recipient or the employee or agent responsible to deliver it to the intended recipient, you should be aware that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone, and return the original message to us at the above address via the U.S. Postal Service. Thank you.

Submit 3 Copies To Appropriate District
OfficeDistrict I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV1220 S. St. Francis Dr., Santa Fe, NM
87505State of New Mexico
Energy, Minerals and Natural ResourcesOIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

May 27, 2004

WELL API NO.	30-015-10259
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Littlefield Federal SWD	
8. Well Number	1
9. OGRID Number	147179
10. Pool name or Wildcat	Delaware
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3515 GR	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐OTHER: ☐

OTHER: Violation #0206

☒

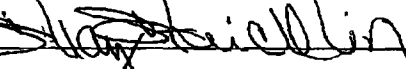
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

In reference to violation #0206 62, Chesapeake has performed a Step Rate Test on this well and has attached a copy for your review. This well is currently permitted for 916# of surface pressure. Chesapeake, respectfully, request an increase in permitted surface pressure to 2000# with a maximum rate of 5000 BWPD. The test indicates there is no fracture occurring down-hole at pressures in excess of 3000# at the surface. The surface pressure Chesapeake sees is a result of friction as the well is equipped with 2-3/8" lined tubing.

SWD-485

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☒.

SIGNATURE



TITLE Regulatory Assistant

DATE 12/04/2006

Type or print name Shay Stricklin
For State Use Only

E-mail address: sstricklin@chkenergy.com

Telephone No. (432)687-2992

APPROVED BY: _____

TITLE _____

DATE _____

Conditions of Approval (if any): _____

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Littlefield Federal SWD #1

9. API Well No.

30-015-10259

10. Field and Pool, or Exploratory Area
Delaware11. County or Parish, State
Eddy
NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other2. Name of Operator
Chesapeake Operating Inc.3a. Address
P.O. Box 11050 Midland TX 79702-80503b. Phone No. (include area code)
(432)687-2992

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660 North, 1980 East, Sec 11, T24S, R31E

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" 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 checked="" type="checkbox"/> Other Violation #0206
	<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 recompleat 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

In reference to violation #0206 62, Chesapeake has performed a Step Rate Test on this well and has attached a copy for your review. This well is currently permitted for 916# of surface pressure. Chesapeake, respectfully, request an increase in permitted surface pressure to 2000# with a maximum rate of 5000 BWPD. The test indicates there is no fracture occurring down-hole at pressures in excess of 3000# at the surface. The surface pressure Chesapeake sees is a result of friction as the well is equipped with 2-3/8" lined tubing.

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

Shay Stricklin

Title Regulatory Assistant

Signature

Date 11/02/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title

Date

Office

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)

Slap Rate Test



Cardinal Survey Company

October 26, 2006

Chesapeake Operating Inc.
Well: Littlefield Federal #1 SWD
Field: Sand Dunes
Eddy County, NM
SC 54957

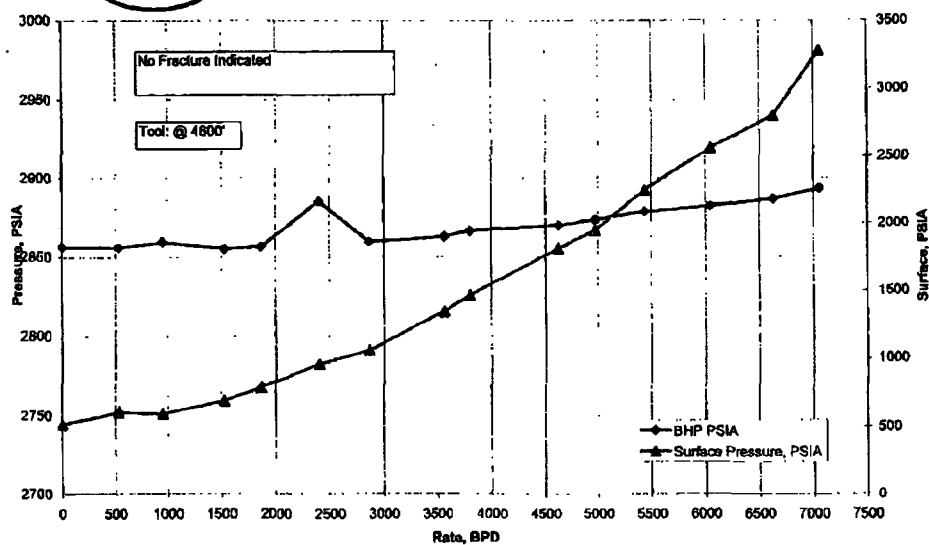
No Fracture Indicated

Downhole PSI Tool Ser. No. 76149
Surface PSI Gauge Ser. No. 10332
Tool @ 4800

Start Time	End Time	Rate BPD	Comments
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Chesapeake Operating Inc. Littlefield Federal # 1 SWD
Step Rate Test 10-27-06



Step Rate Test

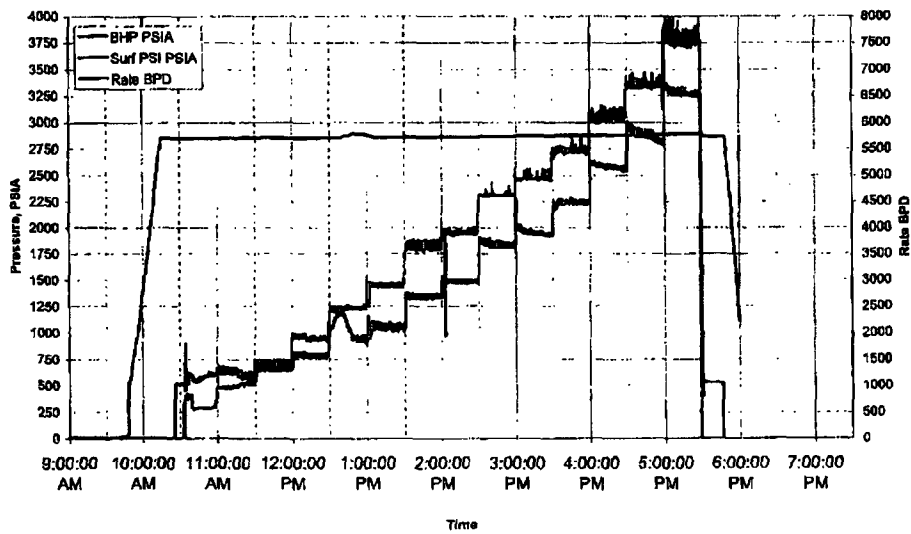
Chesapeake Operating Inc.
 Littlefield Federal #1 SWD
 Field: Sand Dune
 Eddy County, NM



	S Time	E Time	D Time	Last Rate	Step	B. H. Pressure	Surf	Cum	Delta	Avg.
			Mh	BPD	6PD	PSIA	PSIA	BBL	BBL	BPD
1	10:15 AM	10:30 AM	15	0	0	2858.2	517.3	0	0	0
2	10:30 AM	11:00 AM	30	500	500	2855.8	808.2	11.1	11.1	533
3	11:00 AM	11:30 AM	30	1000	600	2859.3	598.3	31	19.9	955
4	11:30 AM	12:00 PM	30	1500	500	2855	691.1	60	31.8	1526
5	12:00 PM	12:30 PM	30	2000	500	2856.4	790.1	96.9	38.9	1867
6	12:30 PM	1:00 PM	30	2500	500	2885.4	981.1	149	50.1	2405
7	1:00 PM	1:30 PM	30	3000	500	2859.6	1063.3	208.7	59.7	2868
8	1:30 PM	2:00 PM	30	3500	500	2862.9	1349	283	74.3	3586
9	2:00 PM	2:30 PM	30	4000	500	2868.3	1485.6	362.2	78.2	3802
10	2:30 PM	3:00 PM	30	4500	500	2870	1810.3	458.5	98.3	4622
11	3:00 PM	3:30 PM	30	5000	500	2873.5	1943.3	562.1	103.6	4973
12	3:30 PM	4:00 PM	30	5500	500	2878.5	2243.6	675.4	113.3	5438
13	4:00 PM	4:30 PM	30	6000	500	2882.3	2557.7	801.4	126	6048
14	4:30 PM	5:00 PM	30	6500	500	2886.6	2787.9	939.5	130.1	6629
15	5:00 PM	5:30 PM	30	7000	500	2893.5	3279.4	1098.5	147	7056
16	5:30 PM	5:45 PM	15	0	-7000	2865.5	527.3	1098.5	0	0

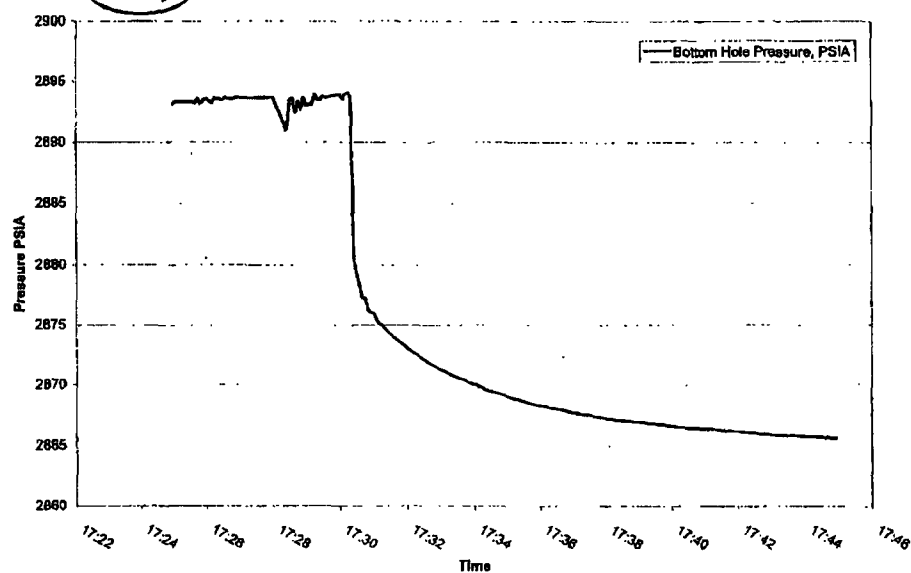


Chesapeake Operating Inc. Littlefield Federal # 1 SWD
Step Rate Test 10-27-06





Chesapeake Operating Inc. Littlefield Federal # 1 SWD
Fall Off Test 10-27-06



CURRENT WELLBORE SCHEMATIC CHESAPEAKE OPERATING INC.



WELL : LITTLEFIELD FEDERAL #1 SWD
 LOCATION : 800' FNL & 1980' FEL, SEC. 11-T24S-R31E
 COUNTY : EDDY STATE : NM
 FIELD : SAND DUNES
 ELEVATION : 3,515' GL 3,525' KB

API #: 30-015-10389
 SPUD DATE: 2/28/84
 COMPL. DATE: 3/04/84
 RE-ENTRY: 7/14/82
 CHK #: 890467

Well History

2005: Spud
 2004: Completion, required permit to abandon.
 2003: Re-entry, required permit to abandon.
 2002: Re-entry, required permit to abandon.
 2001: Re-entry, required permit to abandon.
 2000: Re-entry, required permit to abandon.
 1999: Re-entry, required permit to abandon.
 1998: Re-entry, required permit to abandon.
 1997: Re-entry, required permit to abandon.
 1996: Re-entry, required permit to abandon.
 1995: Re-entry, required permit to abandon.
 1994: Re-entry, required permit to abandon.
 1993: Re-entry, required permit to abandon.
 1992: Re-entry, required permit to abandon.
 1991: Re-entry, required permit to abandon.
 1990: Re-entry, required permit to abandon.
 1989: Re-entry, required permit to abandon.
 1988: Re-entry, required permit to abandon.
 1987: Re-entry, required permit to abandon.
 1986: Re-entry, required permit to abandon.
 1985: Re-entry, required permit to abandon.
 1984: Re-entry, required permit to abandon.
 1983: Re-entry, required permit to abandon.
 1982: Re-entry, required permit to abandon.
 1981: Re-entry, required permit to abandon.
 1980: Re-entry, required permit to abandon.

8-5/8" JAIL J-55 3rd Case @ 355'
 Cnt w/ 150' ht, cts 20' ht.

Sp. holes @ 1,800-64', cts w/ 500' ht.
 Cnt 50' ht.

TOC @ 1,087' (Temp Sp.)

Sp. holes @ 2,200-304', cts w/ 600' ht.

TOC @ 2,284' (Temp Sp.)

The Drake
 1-1/2" 13-3/16" Spool-In T90
 4-5/8" Lbs. Sp. w/ 11'-4-3/8"

Self Canyon (Olefin) ports @ 4 500'-420', 420'-354', w/ 2 jup (Total 120 holes)
 4-1/2" JAIL J-55 @ 445'
 Cnt w/ 150' ht.

Drillstem w/ 1,000' ht & 8,000'
 Complete as appropriate

TD @ 6,500'

PREPARED BY: Renee Thomas

DATE: 10/21/06

UPDATED BY:

DATE:

