Form 3160-5 (August 1999)

Oil Cons. N.M. DIV-Dist. 2 UNITED STATES DEPARTMENT OF THE INTEROF W. Grand Avenue

BUREAU OF LAND MANAGEMEATtesia, NM 88210

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. 1004-0135

Expires November 30, 2000

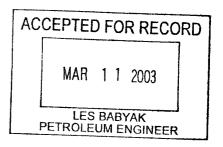
)	5. Lease Serial No. NM-12764					
	6. If Indian, Allottee or Tribe Name					
70	7. If Unit or CA/Agreement, Name and/or No.					

SUBMIT IN TR	RIPLICATE - Other inst	ructions on re	everse side	01172732 7.	If Unit or CA	A/Agreement, Name and/or No.
1. Type of Well Oil Well Gas Well	Other		156	# 38	Well Name	and No.
2. Name of Operator Southwestern Energy	y Production Compa	iny	TO PE	- ' // / // : ' //	API Well No	Dove"25" Federal #
3a. Address 2350 N. Sam Suite 300, Houston,		3b. Phone No. 281–618	o. (include areti c -4739	''/T'/ \\	0–015–31 D. Field and Po	698 ol, or Exploratory Area ry; SW Henshaw Mor
4. Location of Well (Footage, Sec Section 25, T16S, R	20F	νν - 1°	100 E	9252AC	1. County or Pace 1. County or Pace 2. County Count	aty, NM
TYPE OF SUBMISSION		····	TYPE OF	ACTION		
Notice of Intent Subsequent Report	Acidize Alter Casing Casing Repair Change Plans	Deepen Fracture Tre New Constr Plug and Ab	eat 🔲 1	Production (Start/Res Reclamation Recomplete Temporarily Abando	<u></u>	Water Shut-Off Well Integrity Other Primary and Secondary SWD
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal		Attachments

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 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.)

Primary Salt Water Disposal Site - Loco Hills SWD Secondary Salt Water Disposal Site - Soat SWD

Attachments: Water Analysis Report Facility Drawing



14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vonnie J. Cermin	Title Production / D r	rilling Analyst
Signature / Mm	Date March 07, 2003	
THIS SPACE FOR FEDERA	L OR STATE OFFICE USE	
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warr-certify that the applicant holds legal or equitable title to those rights in the subject which would entitle the applicant to conduct operations thereon.	ant or lease 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.

Pro-Kem, Inc. WATER ANALYSIS REPORT

SAMPLE

Oil Co.: Southwestern Energy Loncsome Dove 25 Fed. Lease:

Well No .:

Location: Attention: Date Sampled: 04-March-2003

Date Analyzed: 05-March-2003

Salesperson:

Lab ID Number: Mar0503.003-3

File Name: F:\ANALYSES\Mar0503.003

ANALYSIS

1. Ph 7,000 2. Specific Gravity 60/60 F. 1.038

3. CACO3 Saturation Index @ 80F 0.099

@140F

1.039 *MEQ/L MG/L. EQ. WT.

Hydrogen Sulfide 4. Carbon Dioxide 180

Dissolved Oxygen **Not Determined**

Cations

Dissolved Gasses

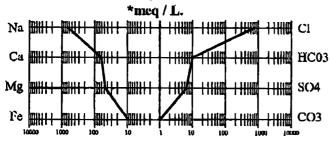
7 .	Calcium	(Ca++)		1,202	/ 20.1 =	59.80
8.	Magnesium	(Mg++)		547	/ 12.2 =	44.84
9.	Sodium	(Na+)	(Calculated)	14,814	/ 23.0 =	644.09
10.	Barium	(Ba++)		Not Determined		

A	<u> Anions</u>				
11.	Hydroxyl	(OH+)	0	/ 17.0 =	0.00
12.	Carbonate	(CO3=)	0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO3-)	586	/ 61.1 =	9.59
14.	Sulfate	(SO4=)	315	/ 48.8 =	6.45
15.	Chloride	(Cl-)	25,994	/ 35.5 =	732.23
16.	Total Dissolved Solids		43,458		
17.	Total Iron	(Fe)	162	/ 18.2 =	8.90
18.	Total Hardness a	s CaCO3	5,255		

19. Resistivity @ 75 F. (Calculated)

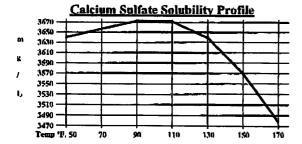
0.203 /cm.

LOGARITHMIC WATER PATTERN



PROBABLE MINERAL COMPOSITION

Ca(HCO3)2 81.04 9,59	ıg/L.
	777
CaSO4 68.07 6.45	439
CaCl2 55.50 43.76 2,	428
Mg(HCO3)2 73.17 0.00	0
MgSO4 60.19 0.00	0
MgCl2 47.62 44.84 2,	135
NaHCO3 84.00 0,00	0
NaSO4 71.03 0.00	0
	627



LONESOME DOVE "25" FEDERAL COM #1 FACILITY DRAWING

