

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 87240  
District II  
811 South First, Artesia, NM 87210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised March 25, 1999

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

WELL API NO.  
30-025-03849

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement

Name:  
Abo SWD "C"

8. Well No. 2

9. Pool name or Wildcat  
Lovington - Abo

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☐ Other Disposal Well ☐

2. Name of Operator

Rice Operating Company

3. Address of Operator

122 W. Taylor, Hobbs, NM 88240

4. Well Location

Unit Letter C: 2310 feet from the WEST line and 990 feet from the NORTH line

Section 2

Township 17S

Range 36E

NMPM

LEA County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

RKB 3863' GL 3842'

11. 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 COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☒

OTHER: ☐

12. 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 recompilation.

ABO SWD C-2 failed bradenhead test on October 1, 1999

Repair work began October 18, and was completed October 26, 1999. Attached is procedure summary, cement report, copy of temperature log, updated wellbore schematic, and production casing/packer mechanical integrity test chart. Test was witnessed by Mr. Bill Pritchard of OCD. Intermediate casing now has no pressure and no water flow. Well has been returned to disposal.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Carolyn Doran Haynes TITLE: OPERATIONS ENGINEER DATE: 11/1/99

Type or print name CAROLYN DORAN HAYNES

Telephone No. 505-393-9174

(This space for State use)

APPROVED BY Harry W. Wink TITLE: FIELD REPRESENTATIVE II DATE: NOV - 8 1999

Conditions of approval, if any:

ABO SWD SYSTEM SWD WELL C-2  
UNIT LETTER C, SEC. 2, T17S, R36E, LEA COUNTY, NEW MEXICO

Cement Circulation and Squeeze to Stop Intermediate Casing (bradenhead) Water Flow.

On October 1, 1999, NMOCD conducted an annual bradenhead test on the SWD well C-2. The production casing was 0 psi, surface casing was 0 psi and intermediate casing was 450 psi. After relieving the pressure, the test revealed a water flow from the intermediate casing. The NMOCD inspector designated the well failed the test. It was repaired as follows:

1. 10/18/1999: MIRU Pool Well Service pulling unit. Conduct on-site pre-job safety meeting.
2. ND Wellhead. NU BOP. Unseat Baker Model "DL" packer set at 8338'. POOH with 264 jts 3 1/2" J-55 NUE tbg. Visually inspect, lay down on racks and protect ends.
3. Unload and tally 2 7/8" workstring. RIH w/packer and RBP. Set RBP at approx. 6513' and packer at 6482'. Load hole and test RBP to 1000#. Held. Test casing to 500#. Held. POOH w/ packer.
4. Rig-up Haliburton for Cement Bond Log. Found TOC at 4380'. Perforate csg w/2 shots at 130° @ 4280'. POOH. Tried to circulate. 14 bbl/min at 1800#.
5. RIH w/ packer and workstring and set packer @ 4027'. Tested backside to 1000#. Held. Bullhead 2 sacks sand through tbg and SD 30 min. Established circulation through perfs and up intermediate casing at 2 bbls.min at 450#. Circulated 320 bbls to clean-up behind 5 1/2" and thru intermediate.
6. POOH w/packer and RIH w/cement retainer. Set at 4185'.
7. Rig-up Haliburton. Circulate 4 bbls red dye and 24 bbls spacer. 216 bbls Interfill C @ 11.9 ppg and 117 bbls P Plus W/2% CC @ 15 ppg. (1000 sx total) Displaced tbg w/23.5 bbls FW and shut-in intermediate csg. Returns showed red dye, but no cement. Pulled off retainer and reversed out 1 bbl cement with 35 bbls water. Pressure was holding at 1500# under retainer. POOH.
8. Rig up Rotary Wireline and run temperature survey. TOC at 410' from surface.
9. RIH w/ 4 3/4 bit. drill collars, workstring. Drill out cement, circulate hole clean, circulate sand off RBP. POOH.
10. Pick up Retrieving head. RIH and Retrieve Bridge Plug. POOH annulus and workstring.
11. RIH w/ injection packer. 3 1/2" tbg, testing tubing into hole at 1000#.
12. Displace annulus with 80 bbls packer fluid, set packer @ 3027' with 8000 psi compressed air. Annulus 40 bbls packerfluid and wait for gas to break out.
13. ND BOP and NU wellhead. Test casing to 340# for 15 minutes with chart recorder. Held. Bill Pritchard with OCD present and Okayed test. Intermediate casing 0 pressure and no water flow.
14. 10/26/1999: Put well back on disposal. Release pulling unit. Rig down.

[illegible]

## 10/20/99

RES NAME / EMP # / EXPOSURE HOURS		HRS		HRS		HRS	
BARRY LEARY/104384		MIKE RODRIGUEZ/178803					
RES UNITS (HOURS/MILES)		HOURS/MILES		HOURS/MILES		HOURS/MILES	

[illegible]

Form. Name	Type	
Form. Thickness	From	To
Packer Type	Set At	
Bottom Hole Temp.	Pressure	
Retainer Depth	Total Depth	5000+
Tools and Accessories		

Date	Called Out 10/19/99	On Location 10/19/99	Job Started 10/19/99	Job Completed 10/21/99
Time	1530	1700	2000	1130

Tools and Accessories			
Type and Size	Qty	Make	
Float Collar	5 1/2"		
Float Shoe	5 1/2"		
Centralizers	5 1/2"		
Top Plug	5 1/2"		
Packer	5 1/2"		
DV Tool	5 1/2"		
Insert Float	5 1/2"		
Guide Shoe	5 1/2"		
Other			

		Well Data			2000	1130
	New/Used	Weight	Size	Grade	From	To
Casing	USED	17#	5 1/2"		C	6000'
Liner						
Liner						
Tubing	USED	4 7#	2 7/8		0	4026'
Drill Pipe						
Open Hole						
Perforations						
Perforations						4280'
DV Tool:						
Hours On Location						

Materials			
Mud Type	_____	Density	_____ Lb/Gal
Disp. Fluid	_____	Density	_____ Lb/Gal
Prop. Type	_____	Size	_____ Lb
Prop. Type	_____	Size	_____ Lb
Acid Type	_____	Gal.	_____ %
Acid Type	_____	Gal.	_____ %
Surfactant	_____	Gal.	_____ In
NE Agent	_____	Gal.	_____ In
Fluid Loss	_____	Gal/Lb	_____ In
Gelling Agent	_____	Gal/Lb	_____ In
Fric. Red.	_____	Gal/Lb	_____ In
Breaker	_____	Gal/Lb	_____ In
Blocking Agent	_____	Gal/Lb	_____
Perfpac Balls	_____	Qty.	_____
Other	_____		
Other	_____		
Other	_____		
Other	_____		
Other	_____		

<u>Hours On Location</u>		<u>Operating Hours</u>		<u>Description of Job</u>
Date	Hours	Date	Hours	
10/19/99	4.5	10/19/99	1.0	
10/20	7.5	10/20	4.0	SEE JOB LOG
10/21	5.0	10/21	3.0	
Total	17.0	Total	8.0	

Ordered	Hydraulic Horsepower	
	Avail	Used
Treating	Average Rates in BPM	
	Disp	Overall
Feet	Cement Left in Pipe	
	Reason	

Stage	Sacks	Cement	Bulk Sks	Cement Data				
	500	INTERFILL C	0	4400 lbs	1.80	1.48	1.00	
	500	Premium Plus	0	23% Calcium Chloride	1.80	1.48	1.00	
			0		1.80	1.48	1.00	
			0					
			0					

Circulating Breakdown		Displacement		Summary		Preflush		Type:	
Lost Returns-YES		Maximum		Load & Bkdn	Gai - BBI	350		Pad:Bbl -Gai	FW
Cmt Rtrn#Bbl		Lost Returns-NC		Excess Return	Gai - BBI			Calc. Disp Bbl	
Average		Actual TOC		Calc. TOC				Actual Disp.	23.5
Shut In Instant		Frac. Gradient		Treatment:	Gai - BBI			Disp:Bbl-Gai	55L
		5 Min		Cement Slurry	Gai - BBI	335			
		15 Min		Total Volume	Gai - BBI	708			
Frac Ring #1		Frac Ring #2		Frac Ring #3				Frac Ring #4	

THE INFORMATION STATED HEREIN IS CORRECT  
CUSTOMER REPRESENTATIVE

SIGNATURE

**990' FNL & 2310' FWL, Sec 2, T17S, R36E, Lea County, New Mexico**

KB ELEV is 3863'

GL ELEV is 3842'

400'

TOC at 410' with 10/22/99 Temp Survey

13 3/8" 48# Csg @ 396'  
Cmt Circ to Surface

3300'

9 5/8" 40 and 36# Csg @ 3348'  
Cement circ to surface

4200'

10/20/99

**Perf 2 shots at 4280'**

Circulate 1000 sx and squeeze off water flow

Original TOC @ 4370' found with temp survey 1952

Confirmed with CBL 10/19/1999

Tubing: IPC TK 75: 264 jts 3 1/2" 9.2# Buttruss J-55  
4 jts 3 1/2" 9.2# NUE

5 1/2" 17# CSG  
Set @ 8530'  
w/ 1380 sx cmt

Baker Packer 45A4 Large-bore Loc-Set Packer  
Set @ 8337' with 6pt compression  
Perfs 8337'-8468' (SQUEEZED with 200 sx)  
Perfs 8442' - 8446' (4 holes)

4 3/4" Open Hole 8530' - 8879' (TD)

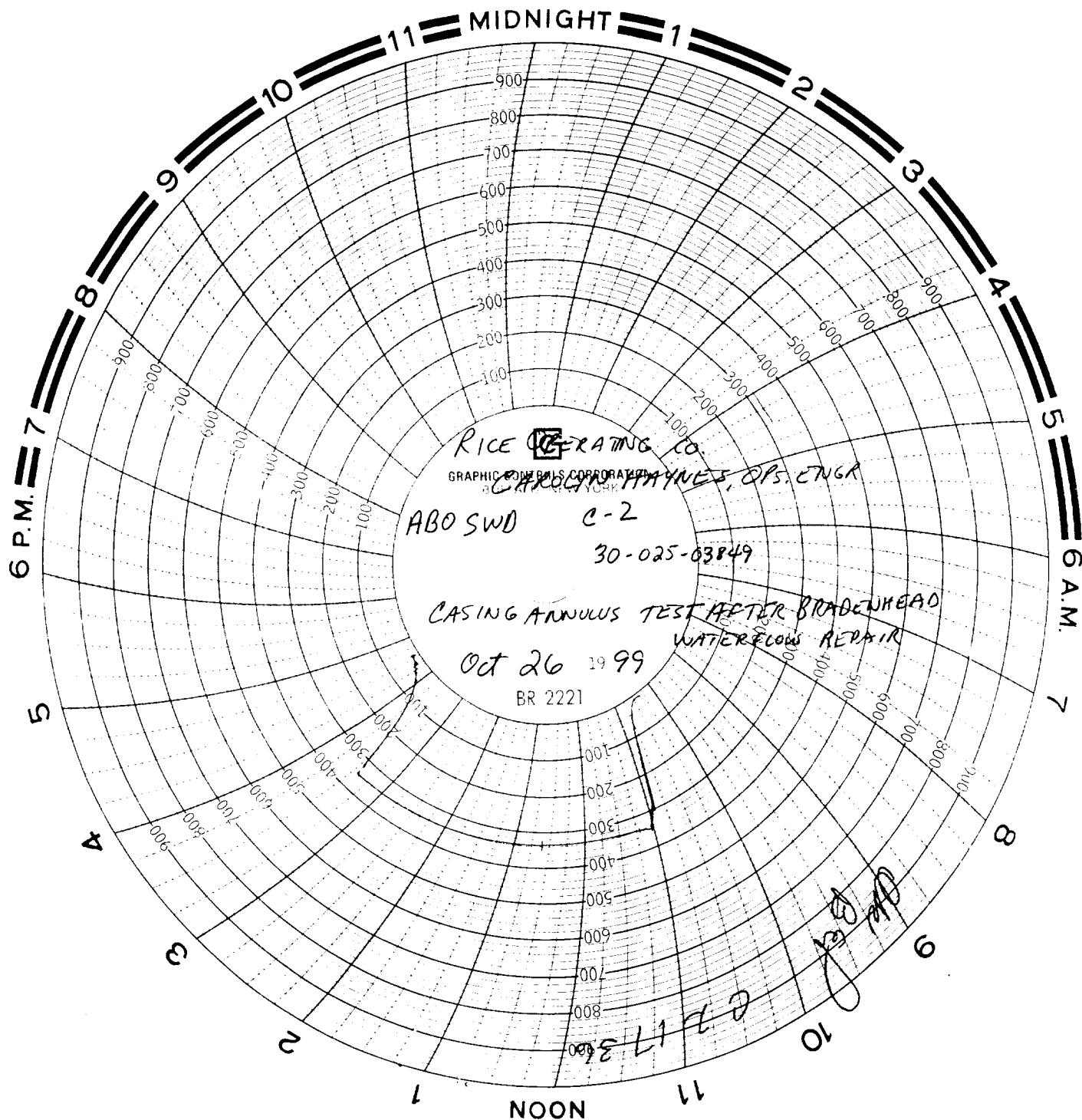
DWN  
11/1/99

BY  
CDH

**RICE OPERATING COMPANY**  
122 West Taylor  
Hobbs, New Mexico 88240

**ABO SWD WELL C-2**

990' FNL & 2310' FWL  
SEC 2, T17S, R36E  
Lea County New Mexico



## 105

TEMPERATURE Scale 5° PER INCH