Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NM 010063

6. If Indian, Allottee or Tribe Name

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

1. Type of Well ☐ Oil Well ☒ Gas Well Other

8. Well Name and No.
REDFERN 5E

2. Name of Operator
CONOCO INC.

9. API Well No.
3004524403

3a. Address
P.O. BOX 2197 DU 3066
HOUSTON, TX 77252

3b. Phone No. *(include area code)*
281.293.1005

10. Field and Pool, or Exploratory Area
BASIN DAKOTA

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1850FEL 790FSL
O-9-28-11

11. County or Parish, and State
SAN JUAN NM

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

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

3. 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 files 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.)

Conoco proposes to repair the Bradenhead in this well using the attached procedure.

Electronic Submission #3682 verified by the BLM Well Information System for CONOCO INC. Sent to the Farmington Field Office
Committed to AFMSS for processing by Maurice Johnson on 04/17/2001

Name *(Printed/Typed)* **DEBORAH MARBERRY** Title **SUBMITTING CONTACT**

Signature Date **04/17/2001**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Title Date 4/18/01

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

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

REDFERN 5E
CHECK FOR CASING LEAK / REPAIR BRADENHEAD PROCEDURE
API 30-045-24403
AFE#

WELL INFORMATION:

Current Status: Producing, Dakota

Last Action To Well: Failed Bradenhead test

Location: 790' FSL & 1850' FEL, Sec. 9-T28N, R11W, San Juan County, NM

TD: 6,283'
PBTD: 6,165' – 6246'(Fill) 6246'(Cement Plug)
GLE: 5,510'
KBE: 5,523'
TOC: Surface casing 310 sx, cemented to surface,production casing DV tool @ 4284', 1st stg 225 sx, 2nd stg 745 sx TOC 5075' by cement bond w/nuclear log run 11-19-80. Reports indicate good circulation while cementing,but nothing about cement to surface.
DV Tool 4284'
Casing Specifications:

Pipe	Depth (ft)	Drift ID (inches)	Collapse 80% (psi)	Burst 80% (psi)	Capacity (bbl/ft)
8-5/8",24#,K-55	510	8.097	1096	2360	.0636
4-1/2" 11.6#,K-55(100 jts)	84-4200	3.965	2648	3504	.0155
4-1/2",10.5#,K-55(69 jts)	0-42,4200-6276	3.927	3208	3832	.0159

Tubing Specifications:

Pipe	Depth (ft)	Drift ID (inches)	Collapse 80% (psi)	Burst 80% (psi)	Capacity (bbl/ft)

2-3/8", 4.7, J-55, EUE 8rd,193 jts	6055	1.901	6480	5416	.00387

RESERVOIR INFORMATION:

Current Perforations: (All these added in 1997)5992'-94',6008'-13',6016'-18',6033'-35',6045'-47',6064'-95',6117'-26',6154'-56'(all these in original completion1980)6009',11',13',17',69',71',73',77',79',81',85',87',89',93',6119'

NOTE: ALL PERFS ARE 1 SPF

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PROCEDURE

1. Hold Safety Meeting. MIRU workover rig.Shut-in well and bleed off any pressure.

2. ND tree and NU BOP's .POOH w/tbg. **NOTE: Look for scale on tbg. IF THERE IS SCALE MIGHT WANT TO RUN A SCRAPER BEFORE NEXT STEP.**

TEST PRODUCTION CASING

3. Pick up RBP and multi set packer and RIH on tubing string. Set RBP +/- 20' above top perf and set pkr +/-20 above' and test RBP to 1000 psi. Release pkr and load hole with KCL and test csg to 500 psi. If the casing does not test release packer and move up hole and test above and below packer until leak is isolated. If necessary move RBP up hole to minimize casing exposed to squeeze pressures. Call engineering in Houston to discuss squeeze and where to set composite bridge plug and inform cementing company of depth and interval size. **Also notify NMOCD, BLM or State 24 hrs before squeezing.** If no leak is found, proceed to step 5.

SQUEEZE CEMENT IF LEAK IS FOUND

4. Rig up cementing company and squeeze as per their procedure. Pump dye water ahead of squeeze. Wait on cement. Proceed to step 5.

RUN CBL-GR-CCL

5. Run log from 5200' to surface with 500 psi on casing. Fax log to Houston (continuous fax 281-293-6362)and discuss path forward. Based upon results we could have to shoot shallow holes and establish injection through squeeze holes and try to get returns out of bradenhead, if there is no circulation ther a block squeeze will be needed. This will need to be confirmed by the NMOCD **AFTER** the log has been evaluated and the path forward is determined.

6. RIH w/4-1/2" EZ drill bridge plug and set @ +/- 1500'. Load hole and test plug to 1000 psi.

7. RU Bluejet and shoot 2 holes at 565'. RD Bluejet.

8. Establish circulation through perfs with KCL.

9. RU cementing company and pump cement per their procedure. **Also notify NMOCD,BLM or State 24 hrs before squeezing.** (The goal is to get cement to surface.) Pump dye water ahead of squeeze. Wait on cement.

TEST SQUEEZE

10. PU 3-7/8" bit, bit sub, and 6 DC and tbg and drill out and stop before drilling EZ drill bridge plug. Pressure test casing to 500 psi. If test good proceed ahead and drill out FAS-DRILL plug and clean out to PBTD,**(NOTE: if fill is at 6165' and is hard, don't drill out to cement plug, very little pay covered by the fill.)** if not call Houston and discuss. **If squeeze was done before, test before drilling plug out.**. If test fails call Houston engineers and discuss next plar of action.

LAND TUBING

11. RIH with SN and mule shoe on bottom of 2-3/8" tubing string and unload well and land tubing @ 6055'. **DO NOT CRIMP TUBING. DO NOT OVER TORQUE.** RIH w/gauge ring on sand line and tag seating nipple. POOH. Swab well if needed. Do not swab over one day with rig. RDMO.

12. Put well on production.

Marc Durkee – West Team
Cc: Central Records,Three Copies to Projec: Leads (Farmington)

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CHECK FOR CASING LEAK / REPAIR BRADENHEAD PROCEDURE
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Non-Controllables

Rig & Rentals:	(14 Days)	$ 42,000
Rig up/Rig Down		$ 5,000
Water		$ 3,000
Rental Tools(packer,RBP)		$ 5,000
N2 & assoc costs		$ 6,000
Bluejet(perforating)		$ 5,000
Bluejet(CBL)		$ 5,000
Bluejet(FAS-DRILL plug)		$ 2,000
Cementing		$ 10,000
Consultant ($525/day)		$ 7,900
Misc		$ 9,100
Sub-Total	**$100,000**	

Total **$100,000**