

Form 3160-5  
(March 2012)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

**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.*

HOBBS  
MAR 12 2014  
RECEIVED

5. Lease Serial No.  
0496248

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.  
BARNES FEDERAL #1

2. Name of Operator

LEGACY RESERVES OPERATING LP

9. API Well No.  
30-025-21759

3a. Address

P.O. BOX 10848  
MIDLAND, TX 79702

3b. Phone No. (include area code)

432-689-5200

10. Field and Pool or Exploratory Area  
BOUGH; SAN ANDRES (GAS)

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

330' FNL & 1650' FEL, UNIT LETTER B, SEC 24, T9S, R35E

11. County or Parish, State  
LEA COUNTY, NM

12. CHECK THE 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 <u>ADD SAN ANDRES</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>PERFS, FRAC</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	<u>STIMULATE &amp; RTP</u>

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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat 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.)

7/17/13- MIRU LUCKY WELL SERVICE

7/18/13- RIH W/ 7 3/4" BIT, 8 5/8" SCRAPER, PICKING UP 3 1/2" WORKSTRING, TAG AT 4850'. TEST CASING TO 500 PSI AND FOUND LEAK LEAK AT SURFACE. DUG UP SURFACE AND REPAIRED SURFACE LEAK, RETESTED CASING TO 500 PSI, HELD GOOD. POH. RIG UP WIRELINE AND PERFORATE 4708'-4760' W/ 1 SPF 53 HOLES. RIH W/ 8 5/8" PACKER TO 4608'. SDFN.

7/19/13- CIRCULATE HOLE W/ 380 BBL 2% KCL. SET PACKER @ 4608', TEST CASING ANNULUS TO 500 PSI, HELD GOOD. INSTALL FRAC STACK.

7/25,14- FRAC W/ 13,314 GALLONS 20# LINER GEL, 31,332 GALLONS OF BXL AND 2016 GALLONS 15% HCL ACID W/ 41,096# 16/30 OTTAWA AND 9464# 16/30 SLC.

8/1/13- RDMO, TURN WELL OVER TO PRODUCTION.

ACCEPTED FOR RECORD  
MAR 8 2014  
*J. Lewis*  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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

BLAIN LEWIS

Title SENIOR ENGINEER

Signature

*Blain Lewis*

Date 01/16/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Petroleum Engineer

Title

Date

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 States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

MAR 18 2014



**Barnes Federal #1**

Originally: Federal "B" #2

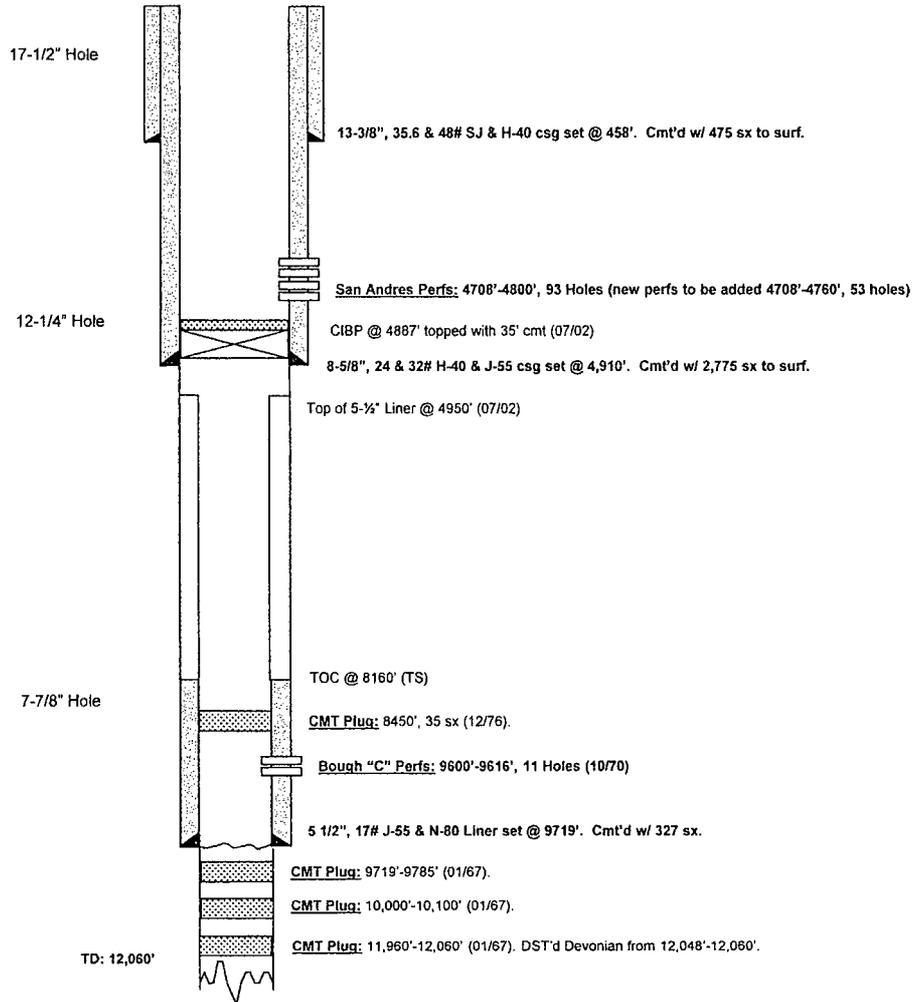
Proposed Wellbore Diagram

LOCATION: 33D' FNL & 165D' FEL, Sec. 24, T9S, R35E

FIELD: Bough; San Andres  
COUNTY: Lea  
STATE: New Mexico

GL: 4102'  
KB: 4113'  
SPUD DATE: 04/09/1966

LATEST UPDATE: 06/06/2013  
BY: B. LEWIS  
API No: 30-025-02663



**Legacy Reserves**  
**DAILY OPERATIONS REPORT - (All Days)**

**1/1/2013 thru 12/13/2013**

Printed Dec 13, 2013 Page 1

**BARNES FEDERAL # 1**

LEA Co., NM

BOLO ID: 300288.01

Zone: SAN ANDRES Field: BOUGH

AFE # 213082 - \$168,600.00

**Add San Andres Pay and Return to Production**

Jul 17, 2013 Wednesday (Day 1)

MIRU Lucky well service.

Daily Cost: \$20,300

Cum. Cost: \$20,300

Jul 18, 2013 Thursday (Day 2)

RIH w/ 7 3/4 bit, 8 5/8 casing scraper picking up 3 1/2" workstring, tag at 4850'. Test casing to 500 psi and found leak at surface, dug up surface and repaired surface leak, retested casing to 500 psi, held good. POH. Rig up wireline and perforate 4708'-4760' w/1 SPF 53 holes. RIH w/ 8 5/8 packer to 4608'. SDFN.

Daily Cost: \$23,500

Cum. Cost: \$43,800

Jul 19, 2013 Friday (Day 3)

Circulate hole w/380 bbl 2% KCL. Set packer 4608', test casing anulus to 500#, held good. Install frac stack. SDFN.

Daily Cost: \$10,500

Cum. Cost: \$54,300

Jul 22, 2013 Monday (Day 4)

SITP 0#. Rig up Swab. Fluid level 1400' to 4100', Made 14 runs, recovered 67 bbl water. SDFN.

Daily Cost: \$7,200

Cum. Cost: \$61,500

Jul 23, 2013 Tuesday (Day 5)

SITP 0#, Rig up Swab. Fluid level 2800'4100', made 9 runs, recovered 36 BBL water. SDFN.

Daily Cost: \$7,200

Cum. Cost: \$68,700

Jul 24, 2013 Wednesday (Day 6)

SITP 0#. Rig up Swab. Fluid level 2800'-4100', made 6 runs, recovered 33 BBL water. SDFN.

Daily Cost: \$8,200

Cum. Cost: \$76,900

Jul 25, 2013 Thursday (Day 7)

SITP 0#. Rig up Rising Star. Frac w/13,314 gallons 20# Liner gel, 31,332 gallons of BXL and 2016 gal 15% HCL acid w/41,096# 16/30 Ottawa and 9464# 16/30 SLC Pumped at avg rate 32 BPM at avg 3933#, ISIP 1765#, 5 min 1561#, 10 min 1502#, 15 min 1472#. Load to recover 885 BBL.

Daily Cost: \$63,200

Cum. Cost: \$140,100

Jul 26, 2013 Friday (Day 8)

SITP 600#. Flow back 45 BBL. Release packer, test casing, did not hold. POH at 3609', 2605', 1607', 589', 270', 44', 32'. Hole above 32'. SDFN.

Daily Cost: \$8,700

Cum. Cost: \$148,800

Jul 29, 2013 Monday (Day 9)

SITP 0#. Finish POH w/packer. RIH w/Bailer and tag at 4850'. No Fill. POH laying down 3 1/2 workstring. SDFN.

Daily Cost: \$11,700

Cum. Cost: \$160,500

Jul 30, 2013 Tuesday (Day 10)

**Legacy Reserves**  
**DAILY OPERATIONS REPORT - (All Days)**

**1/1/2013 thru 12/13/2013**

Printed Dec 13, 2013 Page 2

**BARNES FEDERAL # 1**

LEA Co., NM

BOLO ID: 300288.01

Zone: SAN ANDRES Field: BOUGH

RIH w/8 5/8 packer. Set packer at 100'. Rig down pulling unit. Dig out around wellhead and find surface leak. Weld up hole in 8 5/8, cover up hole. SDFN.

Daily Cost: \$18,200

Cum. Cost: \$178,700

Jul 31, 2013 Wednesday (Day 11)

Release 8 5/8 packer and POH. Prepare to run 2 3/8 production tubing RIH w/2 3/8 Bull plugged mud anchor, 2 3/8 perforated sub, 2 3/8 seating nipple at 4673' and 149 joints 2 3/8 J-55 tubing. Flange up wellhead. SDFN.

Daily Cost: \$26,700

Cum. Cost: \$205,400

Aug 1, 2013 Thursday (Day 12)

RIH w/gas anchor, Pump, 5 K-bars, 110 - 3/4, 70 - 7/8, 6'x7/8 sub, 16' x 1 1/4 polish rod, 8' x 1 1/2" Liner. Load w/ 2 1/2 BBL. Test 500#. RDMO. Turn well over to Production

Daily Cost: \$24,200

Cum. Cost: \$229,600

