

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. 1004-0135
Expires: November 30, 2000

SUBMIT IN TRIPLICATE - Other instructions on reverse side.		5. Lease Serial No. NMSF078094
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator MARKWEST RESOURCES INC		7. If Unit or CA/Agreement, Name and/or No.
Contact: CINDY BUSH E-Mail: cbush@markwest.com		8. Well Name and No. FULLERTON FEDERAL 11-23 GD
3a. Address 155 INVERNESS DRIVE WEST ENGLEWOOD, CO 80111	3b. Phone No. (include area code) Ph: 303.925.9283 Fx: 303.290.9309	9. API Well No. 30-045-29740-00-C1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 11 T27N R11W NESW 1850FSL 1850FWL		10. Field and Pool, or Exploratory UNNAMED
		11. County or Parish, and State SAN JUAN COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 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
	<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 recompleat 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.)

See attached Procedure

Purpose: Temporarily Abandon Dakota and Gallup

14. I hereby certify that the foregoing is true and correct. Electronic Submission #16571 verified by the BLM Well Information System For MARKWEST RESOURCES INC, sent to the Farmington Committed to AFMSS for processing by Steve Mason on 12/06/2002 (03SXM0127SE)	
Name (Printed/Typed) CINDY BUSH	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 12/03/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>STEPHEN MASON</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>12/06/2002</u>
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 <u>Farmington</u>

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

NMOC

MARKWEST RESOURCES INC.
FULLERTON FED. 11 #23 GD
K Sec. 11 – T27N – R11W, San Juan County, New Mexico
1850' FSL & 1850 FWL
TEMPORARILY ABANDON DAKOTA & GALLUP
Pertinent Data Sheet

Field: Basin FRTC **Elevation:** 6118' GL **TD:** 6670'
Spud Date: 2/5/99 **KB=14'** **PBTD:** 6550'
South Kutz Gallup Completion Date: 4/9/99
Basin Dakota Completion Date: 6/5/00
FRTC Completion Date: 9/14/01

CASING PROGRAM:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>TOC</u>
12-1/4"	8-5/8"	24# J-55	325'	213 sx	Circ. 45 sx Cmt
7-7/8"	4-1/2"	11.6# J-55	6670'	450 sx	Circ. 20 bbls Cmt
		DV Tool @	5005'	1185 sx	Circ. 90 bbls Cmt

Tubing Record:

2-3/8"	4.7# J-55	6484'	(w/SN @ 6446')
Tbg Anchor @		6131'	(3/4" & 7/8" rods & pump)

Formation Tops:

Ojo Alamo	816'	Mesaverde	3502'
Kirtland	910'	Gallup	5450'
Fruitland	1615'	Dakota	6357'
Pictured Cliffs	1900'		

Logging Record: Induction, Density/Neuron, Microlog, CBL, 9/01: CBL & CNL logs 1999'-1500'.

Stimulation: Ran CBL 6478'-4950' – very good cmt bond. Perf Burro Canyon @ 6558'-61' w/4-0.44" spf. Swab well dry – no gas. Set 4-1/2" CIBP @ 6550'.

Perf DK @ 6436', 38', 40', 42', 44', 46', 48', 52', 68', 69', 70', 80', 81', 82' w/14-0.38" holes. BD under pkr w/1000 gal 7.5% HCL & 28 balls. Frac DK w/85,000# 20/40 ottawa sand in 25# X-linked gel. Ave. 31 BPM @ 1470 psi. Max. pressure = 2000 psi. Swab well 3 days. IBHP = 861 psi @ 6350'.

Set 4-1/2" CIBP @ 5900'. Perf Gallup @ 5794'-5810' w/3 spf. Total 48 holes. Frac Gallup w/70,000# 20/40 Brady sand in 70Q foam. Ave. 30 BPM @ 2700 psi. Ran tbg & complete as single Gallup well.

Workover History: 5/31/00: Drill 4-1/2" CIBP @ 5900'. Land 2-3/8" tbg @ 6413' & complete as commingled Gallup/Dakota well.

9/14/01: Perfed 2 sq holes @ 1930' & sq w/115 sx cmt to segregate FRTC from PC. Perfed FRTC @ 1701'-06', 1824'-26', 1840'-48', 1883'-96' & fraced w/147,500# sand in 70Q foam. Complete as commingled FRTC/Gallup/Dakota. 2/16/02: CO 50' fill to 6550'. Land 2-3/8" tbg @ 6450' w/model "R" double grip pkr @ 1986'. Complete as dual FRTC / Dakota-Gallup. 4/19/02: TOH w/2-3/8" tbg & lay down pkr. CO to 6540'. Landed 2-3/8" tbg @ 6484' w/tbg anchor @ 6131' & SN @ 6446'. Ran 2X1-

**MARKWEST RESOURCES INC.
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**K Sec. 11 – T27N – R11W, San Juan County, New Mexico
1850' FSL & 1850 FWL**

1/2X12X16.5 RHAC pump w/5' gas anchor on 191 3/4" rods & 66 7/8" rods.
Commenced pumping DK, Gallup, & FRTC.

Production History: Gallup 1st delivery = 11/99. DK 1st delivery = 6/00. Gallup cum = 35 MMCF & 1090 BO. DK cum = 13 MMCF. DHC-2379; Allocation: Gallup-56% oil & 81% gas; DK-44% oil & 19% gas. 10/01: Tbg dead, only 155 MCF/D up tbg annulus (from FRTC) – Gallup/Dakota not contributing. Before 9/01 w/o, 110 MCF/D 2 BOPD & @ BWPD. 2/16/02: Since pkr installed, no gas production from either zone. Swabbed well for one week. No sustainable gas. 11/15/02: After pumping unit installed, production is 150 MCF/D up csg w/not enough fluid to pump.

TEMPORARILY ABANDON DAKOTA & GALLUP

GENERAL

* Prior to rig-up and commencement of operations, review the attached general wellsite stipulations.

* All information concerning the workover operations of this well shall remain **confidential** and shall not be released without the written consent of MarkWest Resources.

1. MOL & RU, set pump, air compressor & equipment.
2. **All water to be 2% KCL.**
3. If necessary, kill well with water. ND WH, NU BOP. TOH w/rods & pump. TOH w/ 2-3/8" tbg & tbg anchor.
4. TIH w/3-7/8" bit & 4-1/2" csg scraper on 2-3/8" tbg to 1940'. TOH.
5. Using wireline, set 4-1/2" CIBP @ ^{5700'}~~1925'~~.
6. Rabbit IH w/ 2-3/8" tbg w/standard seating nipple one jt above open ended bottom & set @ 1890'.
7. ND BOP & NU non-pumping wellhead. Blow well around to kick off.
8. Complete as a single FRTC well.

EQUIPMENT & VENDORS LIST

<u>ITEM:</u>	<u>VENDOR</u>	<u>PHONE #</u>
RIG:	A-PLUS WELL SERVICE	505-325-2627

**MARKWEST RESOURCES INC.
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**K Sec. 11 – T27N – R11W, San Juan County, New Mexico
1850' FSL & 1850 FWL**

PETR. ENGR.
4573

MIKE PIPPIN

505-327-

505-330-0495

RIG SUPERVISOR:

MIKE CONFER

505-599-7461

505-330-2022

DOWNHOLE TOOLS:

BAKER

505-325-0216

TRUCKING:

C & J TRUCKING

505-325-7770

WIRELINE:

BASIN

505-327-5244

WELLHEAD

WSI SUPPLY

505-326-0308

PUMP, RODS, &
SURFACE FITTINGS:

R & S PUMP
RICHARD BALDWIN

505-564-8902

WELLBORE DIAGRAM

FULLERTON FEDERAL 11 #23 FRTC

BEFORE DK/GALLUP ABANDONMENT

1850' FSL & 1850' FWL (K) Sec. 11 T-27N, R11W
 Basin Dakota & South Kutz Gallup & Basin Fruitland Coal
 San Juan County, New Mexico
 PMP 11/15/02

