

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.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMSF078094	
2. Name of Operator MARKWEST RESOURCES INC		6. If Indian, Allottee or Tribe Name	
3a. Address 155 INVERNESS DRIVE WEST ENGLEWOOD, CO 80111		7. If Unit or CA/Agreement, Name and/or No.	
3b. Phone No. (include area code) Ph: 303.926.9283 Fax: 303.290.9369		8. Well Name and No. FULLERTON FED 13-12	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T27N R11W SWNW 1700FNL 0860FWL 36.57765 N Lat, 107.96074 W Lon		9. API Well No. 30-045-29178-00-C1	
		10. Field and Pool, or Exploratory GALLEGOS GALLUP	
		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 Workover Operations
	<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 recomplate 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.)

MOL & RU, TEST ANCHORS, SET PUMP & EQUIP. IF NECESSARY, KILL WELL W/WATER. ALL WATER TO BE 2% KCL. ND WH, NU BOP. LOWERY TBG TO CHECK FOR FILL. TOH W/2-3/8" TBG. TIH W/3-7/8" BIT & 5-1/2" CSG SCRAPER ON 2-3/8" TBG & CO TO PBTD @ 1881' W/AIR/MIST. WHEN WELL IS SUFFICIENTLY CLEAN, TOH. RABBIT IH W/ONE JT BULL PLUGGED 2-3/8" TBG, 6' PERF SUB, STANDARD SEATING NIPPLE AND 2-3/8" 4.7# J-55 EUE TBG STRING. SET TBG ANCHOR & LAND TBG @ 1810'. ND BOP & NU WELLHEAD, STUFFING BOX & PUMPING TEE. RUN 2" X 1-1/4"X12'X16'X16.5' RHAC-DV W/SM PLUNGER ALLOY/CARBIDE TOP HOLD DOWN INSERT PUMP ON 3/4" AND 7/8" CL "d" STEEL SUCKER RODS. SPACE OUT POLISH ROD AND PUMP FLUID UP. INSTALL PUMPING UNIT & GAS ENGINE & COMPLETE AS A COMMINGLED FRTS/PC WELL.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #16372 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 (03SXM0130SE)	
Name (Printed/Typed) CINDY BUSH	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 11/22/2002

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. 13 #12 FRTS/PC
E Sec. 13 – T27N – R11W, San Juan County, New Mexico
1700' FNL & 860' FWL

PUMPING UNIT INSTALLATION
Pertinent Data Sheet

Field: West Kutz Pictured Cliffs
 & Gallegos Fruitland Sand

Elevation: 5990' GL
 KB=12'

TD: 1966'
PBTD: 1881'

Spud Date: 10/29/94

PC Completion Date: 12/6/94

FRTC Completion Date: 9/17/97

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	314'	271 cf	Circ. 40 sx Cmt
7-7/8"	5-1/2"	15.5# K-55	1966'	497 cf	Circ. 23 sx Cmt Surface –CBL

Tubing Record:

2-3/8" 4.7# J-55 1753' 56 jts w/SN @ 1719'

Formation Tops:

Ojo Alamo	462'
Kirtland	788'
Fruitland	1353'
Pictured Cliffs	1863'

Logging Record: Induction, Density/Neutron, Microlog, CBL

Stimulation: Perf PC @ 1796'-1803', 1785'-88' w/22 holes. Frac w/78,000# sand in 70Q foam. Perf upper PC @ 1736'-44' & fraced w/50,000# sand in foam.

Workover History: 9/17/97: Perf Fruitland Sand @ 1464'-75' w/4-0.55" spf. Total 44 holes. Treat w/500 gal 7-1/2% HCL acid. 7/31/01: Frac FRTS down 5-1/2" csg w/50,500# sand in 70Q foam. Ave. 41 BPM @ 1620 psi. CO to PBTD 1881' & complete as commingled FRTS/PC.

Production History: PC 1st delivery = 4/95. FRTS 1st delivery = 9/97. PC cum = 529 MMCF & 10,989 BW. FRTS cum = 40 MMCF. Total production suddenly declined from the (after 7/01 frac) rate of about 250 MCF/D and 3-4 BWPD to only 55 MCF/D when the well stopped lifting the water. Current total capacity = 55 MCF/D & 0 BWPD. DHC-1657 Allocation = PC: 50% oil & 89% gas; FRTS: 50% oil & 11% gas. *There are 3 other unfraced Mark West operated FRTS wells in the vicinity.*

**MARKWEST RESOURCES INC.
FULLERTON FED. 13 #12 FRTS/PC
E Sec. 13 – T27N – R11W, San Juan County, New Mexico
1700' FNL & 860' FWL
PUMPING UNIT INSTALLATION**

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, test anchors, set pump & equipment.
2. If necessary, kill well w/ water. **All water to be 2% KCL.**
3. ND WH, NU BOP. Lower tbg to check for fill. TOH w/2-3/8" tbg.
4. TIH w/3-7/8" bit & 5-1/2" csg scraper on 2-3/8" tbg & CO to PBTD @ 1881' w/air/mist. When well is sufficiently clean, TOH.
5. Rabbit IH w/one jt bull plugged 2-3/8" tbg, 6' perf sub, standard seating nipple and 2-3/8" 4.7# J-55 EUE tbg string. Set tbg anchor & land tbg @ 1810'.
6. ND BOP & NU wellhead, stuffing box, & pumping tee.
7. Run 2"X1-1/4"X12'X16'X16.5' RHAC-DV w/SM plunger Alloy/Carbide top hold down insert pump on 3/4" and 7/8" cl "D" steel sucker rods. Space out polish rod & pump fluid up.
8. Install pumping unit & gas engine & complete as a commingled FRTS/PC well.

EQUIPMENT & VENDORS LIST

ITEM:	VENDOR	PHONE #
RIG:	A-PLUS WELL SERVICES	505-325-2627
PETR. ENGR.: 4573	MIKE PIPPIN	505-327- 505-330-0495
RIG SUPERVISOR:	MIKE CONFER	505-599-7461 505-330-2022
CASED WIRELINE:	BASIN	505-327-5244

**MARKWEST RESOURCES INC.
FULLERTON FED. 13 #12 FRTS/PC
E Sec. 13 – T27N – R11W, San Juan County, New Mexico
1700' FNL & 860' FWL**

TRUCKING:	C & J	505-325-7770
FRAC TANKS:	C & J	505-325-7770
WATER	C & J TRUCKING	505-325-7770
AIR PACKAGE	MOBILE AIR SERVICE	505-324-6712
WELLHEAD:	WSI	505-326-0308