

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMSF078094

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
FULLERTON FED 14-12. Name of Operator
MARKWEST RESOURCES INCContact: CINDY BUSH
E-Mail: cbush@markwest.com9. API Well No.
30-045-30855-00-S13a. Address
155 INVERNESS DRIVE WEST
ENGLEWOOD, CO 801113b. Phone No. (include area code)
Ph: 303.925.9283
Fx: 303.290.930910. Field and Pool, or Exploratory
BASIN DAKOTA

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

Sec 14 T27N R11W NENE 1105FNL 1115FEL

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 checked="" type="checkbox"/> Recomplete	<input 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 recompleate 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 recompleation 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.)

RECOMPLEATE GALLUP & COMMINGLE W/DK

Pertinent Data Sheet

Field: Basin Dakota Elevation: 6142 GL TD: 6544

Spud Date: 2/13/02 RIG: Aztec #124 12 KB PBTD: 6527

Completion Date: 4/12/02

CASING PROGRAM:

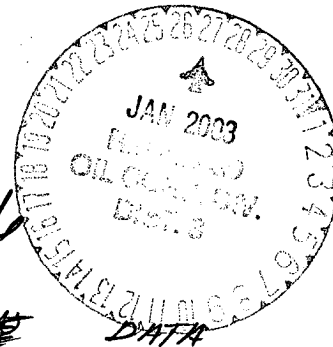
Hole Size Csg Size Wt. & Grade Depth Set Cement TOC

12-1/4 8-5/8 20# J-55 379 290 sx Circ. 20 bbls Cmt

7-7/8 4-1/2 11.6# N-80 6544 1030 sx foam cmt lead

Tail w/120 sx H Circ. 25 bbls

Cap w/100 sx cl B cmt



PLEASE Provide ALLOCATION

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #17237 verified by the BLM Well Information System
For MARKWEST RESOURCES INC, sent to the Farmington
Committed to AFMSS for processing by Matthew Halbert on 01/22/2003 (03MXH0375SE)

Name (Printed/Typed) CINDY BUSH

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 01/02/2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

/s/ Jim Lovato

Approved By

1.0 ppg 6,000 1,800 6,000#
Title 000#

JAN 23 2003

Date 2.400 1pr

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 Farmington

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 **

NMOCD

Additional data for EC transaction #17237 that would not fit on the form

32. Additional remarks, continued

Tubing Record:

2-3/8 4.7# J-55 6408 199 Jts 1.78 F nipple @ 6374

Formation Tops:

Ojo Alamo 836 Mesaverde 3575

Kirtland 935 Point Lookout 4306

Fruitland 1581 Gallup 5440

Pictured Cliffs 1892 Dakota 6403

Logging Record: Induction, Neutron/Density, After frac GRL

Stimulation: Perf DK @ 6360, 62, 71, 77, 88, 94 -6404, 05, 06, 07, 08, 09, 10, 11, 12,

13, 14, 15, 16, 18, 20, 26, 28, 30, 32, 43, 46, 48, 52 w/1-0.30 spf. Total 29

holes. BD & ball-off to 6000 psi w/1000 gal 15% HCL acid & 70 perf balls. Fraced w/85,000# super LC sand in 70Q foamw/25# gel as base fluid. Ave. 50 BPM @ 5500 psi.

Workover History: NONE

Production History: ISIBHP = 1763 PSI @ 6400. 1ST Delivery 5/21/02.

RECOMPLETE GALLUP & COMMINGLE W/DK

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, 1 frac tanks & air equipment. All water to be 2% KCL.

2. If necessary, kill well w/ water.

3. Fill 1-400 bbl frac tank with 2% KCL water. If necessary, filter all water to 25 microns & heat tanks to 70-80 F. Usable gel water required for frac is 305 bbls.

4. ND WH, NU BOP. TOH w/2-3/8 tbg.

5. TIH w/3-7/8 bit & 4-1/2 csg scraper on 2-3/8 tbg to 5900. TOH.

6. MI wireline. Using attached log, set 4-1/2 CIBP @ 5900. Install wellhead protector in 4-1/2 csg mandrel & pressure test 4-1/2 csg & CIBP to 6000 psi.

7. TIH w/2-3/8 tbg & spot 100 gal 15% HCL acid across Gallup perf interval (5788 -5802). TOH.

8. Perf Gallup w/ 2-0.43 spf @ 5788 -5802. Total 28 holes.

9. Install wellhead protector & prepare to frac.

10. Frac Gallup down 4-1/2 csg w/ 39,000 gals of 70 quality foam using 11,700 gals 30# gel as the base fluid and 80,000# 20/40 Brady sand. Pump @ 40 BPM. Max pressure is 6000 psi. Tag sand w/1r-192 RA tracer. Treat per the following schedule & flush to 200 above the top perf:

Foam Vol. Gel Vol. Sand Vol.

STAGE (Gals.) (Gals.) (lbs.)

PAD 8,000 2,400 0#

1.0 ppg 6,000 1,800 6,000#

2.0 ppg 8,000 2,400 1pm5

3.0 ppg 10,000 3,000 30,000#

4.0 ppg 7,000 2,100 28,000#

Flush (est) (3648 (1094) 0#

TOTSL 39,000 gals 11,700 gals 80,000#

Shut well in after frac for 4 hours in an attempt to allow the gel to break. Treat frac fluid with the following additives per 1000 gallons:

* 30# J-48 (Guar Gel mix in full tank 16,000 gal)

* 1.0 gal. Aqua Flow (Non-ionic surfactant mix in full tank)

* 1.0# GVW-3 (Enzyme Breaker mix on fly)

* 1.0# B-5 (Breaker mix on fly)

* 5.0 gal Fracfoam 1 (Foamer mix on fly)

* 0.38# FracCide 20 (Bacteriacide mix in full tank)

11. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed. Start on choke.

12. TIH w/3-7/8 bit on 2-3/8 tbg. Blow & CO Gallup frac w/air/mist. When well is stable, drill

4-1/2 CIBP @ 5900. CO DK to PBTD6527 w/air/mist. When well is stable, TOH & run Pro-Technics after frac GR log from 6000 -5600.

13. Rabbit IH w/2-3/8 4.7# J-55 EUE tbg w/standard SN one jt off open ended bottom & again CO to 6527. When wellbore is sufficiently clean, land tbg @ 6408.

14. ND BOP & NU wellhead & tree. RDSU. Complete as a commingled Gallup & DK well. Unload & blow well as needed & place on line.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop
Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

ADMINISTRATIVE ORDER DHC-3096

Markwest Resources, Inc.
155 Inverness Drive West, #200
Englewood, Colorado 80112

Attention: Ms. Cindy Bush

Fullerton Federal 14 Well No. 1
API No. 30-045-30855
Unit A, Section 14, Township 27 North, Range 11 West, NMPM,
San Juan County, New Mexico
Basin-Dakota (Prorated Gas 71599), and
South Kutz-Gallup (Oil 96852) Pools

Dear Ms. Bush:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

The applicant shall consult with the supervisor of the Aztec District Office of the Division upon completion and testing of the well in order to determine a fixed allocation of production from each of the commingled zones. Allocation shall be based on expected ultimate recovery from each zone. Upon approval by the Division's Aztec District Office, the applicant shall submit the allocation formula to the Santa Fe Office of the Division.

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of commingling operations.

Administrative Order DHC-3096
Markwest Resources, Inc.
January 21, 2003
Page 2

Pursuant to Rule 303.C.(2), the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on the 21st day of January 2003.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Lori Wrotenbery (WVD)
LORI WROTENBERY
Director

LW/wvj

cc: Oil Conservation Division - Aztec
Bureau of Land Management - Farmington

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Abo, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code 71599	Pool Name BASIN DAKOTA
Property Code	Property Name FULLERTON FEDERAL 27-11		Well Number 14-1
GRID No. 193195	Operator Name MARKWEST RESOURCES, INC.		Elevation 6142'

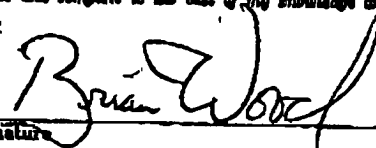
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	27-N	11-W		1105'	NORTH	1115'	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre					Joint or Infill		Consolidation Code		Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	FD 2 1/2" GLO BC 1913	S 89-53-41 W 2636.4'	FD 2 1/2" GLO BC 1913
	LAT. 36°34'46" N LONG. 107°58'05" W	1105'	1115'
	203'	217'	
	14	00-03-05 W 5286.7'	
17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Printed Name BRIAN WOOD Title CONSULTANT Date SEPTEMBER 21, 2001			
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 8-28-2001 Date of Survey A. RUSH Signature and Seal of Professional Surveyor NEW MEXICO 8894 Professional Land Surveyor Certificate Number			

District II

1302 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-30855		² Pool Code 71629 96852	³ Pool Name SOUTH KUTZ GALLUP
⁴ Property Code	⁵ Property Name FULLERTON FEDERAL 27-11		⁶ Well Number 14-1
⁷ OGRID No. 193195	⁸ Operator Name MARK WEST RESOURCES, INC.		⁹ Elevation 6142'

¹⁰ Surface Location

UL or lot no. A	Section 14	Township 27N	Range 11W	Lot Idn	Feet from the 1105'	North/South line NORTH	Feet from the 1115'	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320 N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶				1105'	1115'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature CINDY BUSH Printed Name PROD. REG. & ENVIRON. COORDINATOR Title January 7, 2003 Date
						¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyor:
						Certificate Number

District I

1625 N. French Drive, Midland, NM 88240

District II

1301 W. Grant Avenue, Alameda, NM 88210

District III

1000 Rio Pecos Road, Aztec, NM 87410

District IV

1320 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

Oil Conservation Division1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-107A

Revised May 15, 2000

APPLICATION TYPE

XX Single Well

___ Establish Pre-Approved Pools

EXISTING WELLBORE

XX Yes

APPLICATION FOR DOWNHOLE COMMINGLINGOPERATOR: MARKWEST RESOURCES, INC.,
CONTACT: Cindy Bush 303-925-9283

155 INVERNESS DRIVE WEST, #200

ENGLEWOOD, CO 80112-5000

FULLERTON FEDERAL 27-11 #14-1

UNIT A NENE SEC. 14-T27N-R11W, NMPM

SAN JUAN COUNTY, NM

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID #: 173145 Property Code: API No. 30-045-30855 Lease Type: ☒ Federal ___ State ___ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	South Kutz Gallup		Basin Dakota
Pool Code	71629		71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5788-5802'		6360-6452'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	ESTIMATED SICP = 500 psi		1763 psi
Oil Gravity or Gas BTU (Degree API or Gns BTU)			
Producing, Shut-In or New Zone	New		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: Rates: 200 mcf/d & 5 bopd	Date: Rates:	Date: 1-5-03 Rates: 67 mcf 2 wpd 0 bopd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % %	Oil Gas % %	Oil Gas % %

ADDITIONAL DATAAre all working, royalty and overriding royalty interests identical in all commingled zones?
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?Yes ☒ No ___
Yes ___ No ___

Are all produced fluids from all commingled zones compatible with each other?

Yes ☒ No ___

Will commingling decrease the value of production?

Yes ___ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

Yes ☒ No ___

NMOCD Reference Case No. applicable to this well: _____

Attachments:C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
Production curve for each zone for at least one year. (If not available, attach explanation.)
For zones with no production history, estimated production rates and supporting data.

- Will Save

Data to support allocation method or formula. *We plan to consult the District Office in Aztec for the allocation following the workover.*

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.

Bottomhole pressure data.

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

SIGNATURE



TITLE Regulatory Coordinator

DATE Jan 7-2003

TYPE OR PRINT NAME: Cindy Bush

TELEPHONE NO.: 303-290-8700