SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

(July 1992)	UNITED STATES DEPARTMENT OF THE INTERIOR
0	BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

BUREAU OF LAND MANAGE	NMSF-078089	
APPLICATION FOR PERMIT TO DE	6. IF INDIAN, ALLOTTER OR TRIBE NAME N/A	
DRILL DEEPEN	7. UNIT AGREEMENT NAME N/A	
b. TYPE OF WELL OIL GAS	SINGLE MULTIPL	29240
WELL WELL OTHER 2. NAME OF OPERATOR	ZONE ZONE	Scott Fed. 27-11 36 #1
MarkWest Resources, Inc. 3. ADDRESS AND TELEPHONE NO.	(303) 290-870	50-045-00965
155 Inverness Dr. W, Suite 200, Engl	ewood, Co. 801	12 10. FIELD AND POOL OF WILDCAT KUTZ PC WEST
870' FNL & 665' FWL	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zone Same		36-27n-11w NMPM
14. DINTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST O	FFICE*	12. COUNTY OR PARISH 13. STATE San Juan NM
12 air miles SSE of Bloomfield 15. DISTANCE FROM PROPUSED*	6, NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)	2,560	TO THIS WELL N. 160
18. DISTANCE FROM PROPOSED LOCATION*	9. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
or APPLIED FOR, ON THIS LEASE, FT. 1,076'	2,200'_	Rotary 22. APPROX. DATE WORK WILL START
6,494' ungra	aded	Feb. 15, 2002
PROPOSED CASING	AND CEMENTING PROGRAM	
SIZE OF HOLE GRADE SIZE OF CASING WEIGHT PER FOOT	i i	QUANTITY OF CEMENT
K-55 -8-6-8" 24	160	≈118 cu. ft. & to surface
(c) 74 7-7/8 " K-55 4-1/2" 10.5	2,200'_	≈909 cu. ft. & to surface~
On sited with Bill Liess Archaeology report: CASA 01-114	cc: I	BLM, OCD (via BLM), Pippin, Stowe
N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If peoplesal is to deepen, giv deepen directionally, give pertinent data on subsurface locations and measured and true	e data on present productive zone a vertical depths. Give blowout prever	nd proposed new productive zone. If proposal is to drift ter program, if any.
		66-8120 12-31-01
SILVED TITLE	Consultant (505) 4	DATE
TITLE (This space Federal or State office use)		
SH NEW TITLE	APPROVAL DATE	1/24602

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

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

DISTRICT IV

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

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

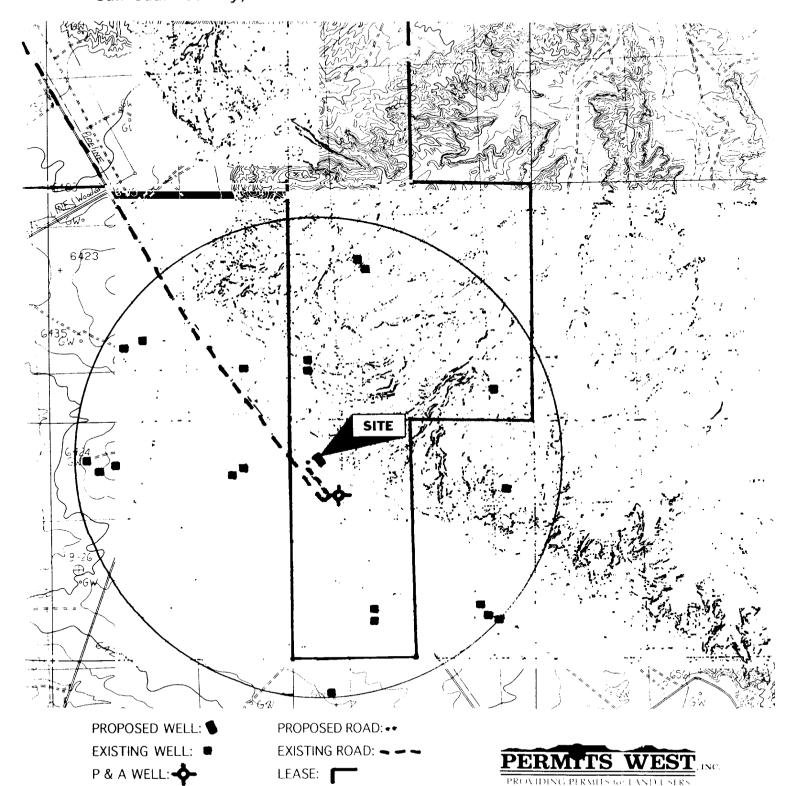
WELL LOCATION AND ACREAGE DEDICATION PLAT

WEEL ESTITION THE MONERAGE DEDICATION I LAI										
3000	Number 3/	79680 KUTZ PICTUREI				Pool Name D CLIFFS	WES	Т		
⁴ Property Co	ode				*Property	Name			6 Wel	ll Number
390	40		•		SCOTT FEDER	AL 27-11			• 3	36-1
OGRID No					*Operator	Name		* Elevation		
19319	5		•	MA	ARKWEST RESC	OURCES, INC.			6-	494'
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			County
. D *	- 36	27-N	11-W		870'	NORTH -				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
12 Dedicated Acre			" Joint or	Infill	H Consolidation (Code	³⁶ Order No.			
160	2									
NO ALLOW	ABLE W	ILL BE A	SSIGNE	TO TH	S COMPLETION	ON UNTIL ALL	INTERESTS H	AVE BE	EN CO	NSOLIDATED
		OR A N	ON-STA	NDARD 1	UNIT HAS BE	EEN APPROVED	BY THE DIV			
	A 1									

N 89-54-10 E 5290.80' FD 3 1/4" BC G.L.O. 1913 FD 3 1/4" OPERATOR CERTIFICATION G.L.O. BC I hereby certify that the information contained herein 870 1913 is true and complete to the best of my 665 658 Signature 450' LAT. 36'32'12"N LONG. 107'57'43"W Printed Name **BRIAN WOOD** Title CONSULTANT DEC. 31, 2001 Date 36 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat Date of Survey 8894 FD 3 1/4" BC G.L.O. 1913 Certificate Number

PROVIDING PERMITS to: LAND USERS

MarkWest Resources, Inc. Scott Federal 27-11 36 #1 870' FNL & 665' FWL Sec. 36, T. 27 N., R. 11 W. San Juan County, New Mexico



Form 3160-5

Final Abandonment Notice

UNITED STATES

Change Plans

Convert to Injection

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

(August 1999) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 5. Lease Serial No NMSF-078089 SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form \$150-3 (ARD) for such proposals. 6. If Indian, Allottee or Tribe Name N/A 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on reverse side N/A Type of Well Oil Well Gas Well Other SCOTT FED. 27-11 MARKWEST RESOURCES, INC. 155 INVERNESS DRV. W, #200 9. API Well No 30-045 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Area ENGLEWOOD, CO. 80112 (303) 290-8700 Location of Well (Footage, Sec., T., R., M., or Survey Description) KUTZ PC WEST 11. County or Parish, State SURFACE: 870' FNL & 665' FWL 36-27n-11w SAN JUAN, NM 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Deepen Acidize Production (Start/Resume) ☐ Water Shut-Off Notice of Intent Alter Casing Fracture Treat Reclamation ☐ Well Integrity Casing Repair Other New Construction ☐ Recomplete Subsequent Report

Temporarily Abandon

☐ Water Disposal

Plug and Abandon

Plug Back

Will change surface hole to 8-3/4" and surface casing to 7" 20# K-55 ST&C. Cement top and type will remain same, but volume will change to 50 cubic feet.

Long string hole will change to 6-3/4" hole. Casing, cement top & type will remain same. Cement volume will change to 310 cubic feet for Lead and 105 cubic feet for tail.

14 Thereby certify that the foregoing is true and correct Name (Printed/Typed)					
BRIAN WOOD	Title	CONSULTANT	(505)	466-8120
Signature	Date	1-14-02	cc: BLM (&OCD),	Pippin, Stowe
THIS SPACE FOR FEI	DERAL OR ST	ATE OFFICE USE			
Approved by	Tit	le	Date	1/2	4/02
Conditions of approval, if any, are attached. Approval of this notice does not certify that the applicant holds legal or equitable title to those rights in the which would entitle the applicant to conduct operations thereon.	and the same of the same of	lice			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crim States any false, frethrous or fraudulent statements or representations as to any r	ie for any person k matter within its ju	nowingly and willfully to risdiction.	make to any dep	artment or :	agency of the United

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 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.)

MarkWest Resources, Inc. Scott Federal 27-11 36 #1 870' FNL & 665' FWL Sec. 36, T. 27 N., R. 11 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Subsea Elevation
Nacimiento Fm	000'	5'	+6,494'
Ojo Alamo Ss	1,016'	1,021'	+5,478'
Kirtland Sh	1,123'	1,128'	+5,371'
Fruitland Coal	1,573'	1,578'	+4,921'
Pictured Cliffs Ss	2,051'	2,056'	+4,443'
Total Depth (TD)*	2,200'	2,205'	+4,294'

^{*} all elevations reflect the ungraded ground level of 6,494'

2. NOTABLE ZONES

Gas & Oil Zones	Water Zones	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
	Kirtland	
	Fruitland	

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the geologist's recommendations.

3. PRESSURE CONTROL

Maximum expected pressure is ≈ 200 psi. The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 2,000 psi model is on PAGE 3.



MarkWest Resources, Inc. Scott Federal 27-11 36 #1 870' FNL & 665' FWL Sec. 36, T. 27 N., R. 11 W. San Juan County, New Mexico

BOP equipment and all accessories will meet or exceed BLM requirements in 43 CFR Part 3160 for a 2000 psi system. A 2000 psi double ram hydraulic BOP will be used. Accumulator system capacity will be sufficient to close all BOPE with a 50% safety factor. Fill, kill, and choke manifold lines will be 2". Accessories will include upper and lower Kelly cocks with handles, stabbing valve to fit drill pipe on floor at all times, string float at bit, 3000# choke manifold with 2" adjustable and 2" positive chokes, and pressure gauge. BOPs will be tested every 24 hours. Tests will be recorded on IADC log.

4. CASING & CEMENT

<u>Hole Size</u>	<u>O.D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	Connection	GL Setting Depth
12-1/4"	8-5/8"	24	K-55	New	ST&C	160'
7-7/8"	4-1/2"	10.5	K-55	Used	ST&C	2,200'

Surface casing will be cemented to the surface with ≈ 118 cubic feet (≈ 100 sacks) Class B + 1/4 lb/sack cello-flake + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 lb/gal. Volume = 100% excess. A guide shoe and insert float will be used. WOC =12 hours. Surface casing will be tested to 1500 psi for 30 minutes.

Production casing will be cemented to the surface. Total cement = 909 cubic feet. Volumes are calculated at 81% excess. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. WOC 12 hours. Test to 2000 psi.

Lead cement will be ≈ 325 sacks Class B light cement (65% cement/35% POZ with 6% gel) with 5 #/sack gilsonite + 1/4 #/sack Flocele. Yield = 1.99 cubic feet per sack. Weight = 12.4 #/gal.

Tail cement will be ≈ 190 sacks 50/50 Class B POZ with 2% gel + 1/4#/sack Flocele + 0.5% Halad-9. Yield = 1.38 cubic feet per sack. Weight = 13.5 #/gal.

