NEW MEXICO OIL CONSERVATION DIVISION

- Engineering/Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505

ABOVE THIS LINE FOR DIVISION USE ONLY

ADMINISTRATIVE APPLICATION CHECKLIST	
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REI WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	GULATIO
pplication Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingl [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Respon	1
TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD	tr.
Check One Only for [B] or [C] [B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM DEC 2001) }
C Injection - Disposal - Pressure Increase - Enhanced Oil Recovery OF COM MY WFX PMX SWD IPI EOR PPR DET 3	
NOTIFICATION REQUIRED TO: - Check Those Which Apply. or _ Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	
Offset Operators, Leaseholders or Surface Owner	
Application is One Which Requires Published Legal Notice Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	
For all of the above, Proof of Notification or Publication is Attached. and/or	r.
[F] Waivers are Attached	

- SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF [3] APPLICATION INDICATED ABOVE.
- CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name	
BRIAN WOOD	
(505) 466-8120	
FAX 466-9682	

Date

11-13-01

e-mail Address

brian@permitswest.com



REQUEST FOR ADMINISTRATIVE APPROVAL FOR NON-STANDARD LOCATION FOR MARKWEST RESOURCES, INC. SCOTT FEDERAL 27-11 23-1 WELL 16.45' FNIL \$ 26.0' FFT SEC. 23 T. 27 N. P. 11 W. CAN HAAN COUNTY AND

1645' FNL & 360' FEL SEC. 23, T. 27 N., R. 11 W., SAN JUAN COUNTY, NM

- I. The well is on BLM surface and a BLM oil and gas lease (NMSF-078089). The proposed location is non-standard for the Basin Dakota. A standard location must be at least 660' from the quarter line. This well is staked 300' further east than is standard. (Closest standard location would be 1645' FNL and 660' FEL.) The APD is attached.
- II. A C-102 showing the well location and proration unit (E2 for the Basin Dakota) is attached. The lease (2,560 acres) is shown on the attached East Fork Kutz Canyon USGS topo map. The well encroaches on the N2 Section 24 Basin Dakota spacing unit which is dedicated to MarkWest's existing Hancock Federal #3 well (790' FNL & 990' FEL 24-27n-11w).
- III. According to NM Oil Conservation Division records reviewed in the Santa Fe office on October 10, 2001; the closest Dakota producer is MarkWest's Federal Scott 27-11 24 #13 well which is 2,393' southeast at 1600' FSL & 900' FWL 24-27n-11w. A copy of the East Fork Kutz Canyon 7.5' USGS map is attached showing the proposed well site, Dakota spacing units (dashed lines), and lease (solid line including all of Sections 23, east half of Section 24, et al). There is only one lease within a minimum 1,645' radius. Registered letters were sent on November 13 to all of the offset interest owners. A copy of the postal receipts and letters is attached.
- IV. A copy of the East Fork Kutz Canyon USGS map is attached. The proposed well site is marked. Proration unit for the Basin Dakota is the 320.00 acre east half of Section 23, Township 27 North, Range 11 West, NMPM, San Juan County, NM.
- V. MarkWest selected its location due to topography. The drilling window is in a very dissected badland area. There is 33' of cut at one place on the pad even at the proposed non-standard location. Bill Liess (505-599-6321) of the BLM agreed on the desirability of a non-standard location instead of a

standard location.

VI. No archaeology sites were found.

VII. See item V. above and attached map for a description of the surface conditions.

VIII. Directional drilling is not feasible because it is not cost effective.

IX. I hereby certify notice has been sent to the following lessees, lessors, operators of existing spacing units, or owners of undrilled leases which adjoin the applicant's spacing unit on one or more of the two sides or the single closest corner to the proposed well and that the information is current and correct.

> BL M Bonneville Fuels Co. Burlington Resources Oil and Gas Company Conoco Inc. Louis Dreyfus Natural Gas Corp. Marathon Oil Company Ouestar Exploration & Production Company Taurus Exploration USA Inc.

	nau C	Joseph	Consultant	//- 13-0/
Signature,	itle, & Date	2		
STATE OF NEW	MEXICO)) SS:		
COUNTY OF SAM	NTA FE)		

The foregoing instrument was acknowledged before me this 13th day of November, 2001 by Brian Wood. Witness my hand and official seal.

Idan Cat

My Commission Expires: Juice 9, 2003

Business Address: 37 VERANO LOOP, SANTA FE, NM 87505

cc: Aztec OCD. Stowe



DISTRICT 1 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 III

DISTRICT IV

OIL CONSERVATION DIVISION

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

1000 Rio Brazos Rd., Aztec, N.M. 87410

2040 South Pacheco, Santa Fe, NM 87505

2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

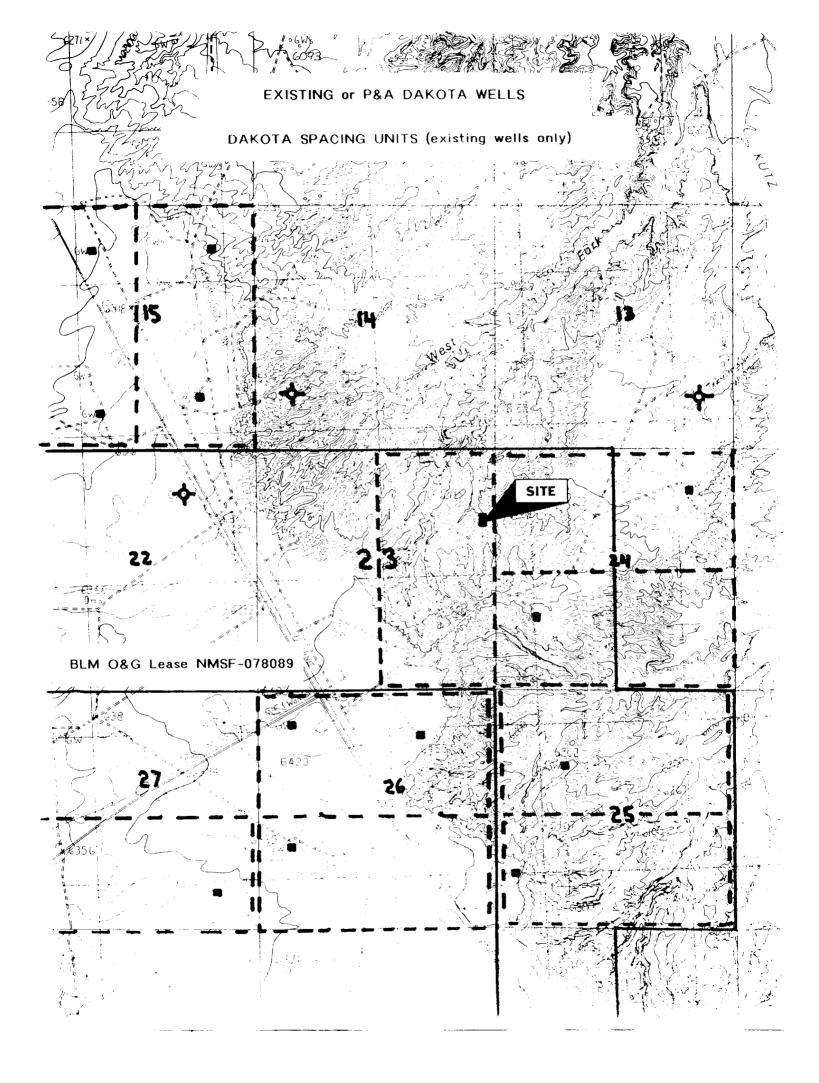
1			
API Number	[®] P∞0L Code	Pool No	ame
	71599	BASIN DAKOTA	
Property Code		Property Name	* Well Number
	- SCOT	T FEDERAL 27-11	23-1
OGRID No.		Operator Name	
193195	• MARKWE	ST RESOURCES, INC.	* Elevation 6133'

¹⁰ Surface Location UL or lot no Section Township North/South line Range Lot Idn Feet from the Feet from the East/West line County Н 23 27 - N11-W NORTH 1645 **EAST** 360' NAUL NAZ

¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot ldn Range Feet from the North/South line Feet from the East/West line County Dedicated Acres Joint or Infill M Consolidation Code M Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

0-	OR A NON-STANDA	RD UNIT HAS BE	ON ONTIL EEN APPRO	ALL INTE	RESTS HAVE BEEN CONSOLIDATED THE DIVISION
16 CALC'D SEC. CORNER N 00-01 W 20 LINKS	S 89-52-00 W	5297.46	SEC. CORNER D 2 1/2" BC G.L.O. 1913	1645'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature
A Section of the sect	· 1	LAT. 36°33.8'N LONG. 107°57.9'W	964'	321 2001 × 2001 × 2000 ×	Printed Name BRIAN WOOD Title CONSULTANT Date OCT. 28, 2001
	23	S 00-(2.7 Cr	01 E IANS WITNE FD	SS CORNER 2 1/2" BC G.L.O. 1913	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown in this plant was plotted from field notes of actual survey; made by me or under my supervision, and that the scane is true and correct to the base of my failed. Date of Shreey Signature and Beal of Protegnical Surveyer Certificate Number



466

November 11, 2001

Bill Liess **BLM** 1235 LaPlata Highway Farmington, NM 87401

Dear Bill,

Brown Sin

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

MarkWest Resources, Inc. is applying to drill its Scott Federal 27-11 23-1 well. The minimum state distance for a Dakota gas well is 660' from a quarter section line. The proposed well is 300' further east than is standard. Thus, it is a non-standard location. The NSL is due to topography (see attached map). It is 1,645' from the closest lease boundary.

Well Name: Scott Federal 27-11 23-1 Total Depth: 6,470'

Proposed NSL Producing Zone: Basin Dakota sandstone

NSL Acreage Dedication: 320.00 ac. (E2 Sec. 23)

Postmark

235 LePlate

Location: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.,

San Juan County, NM on Federal lease NMSF-078089

Approximate Location: ≈10 air miles south-southeast of Bloomfield, NM

Applicant Name: MarkWest Resources, Inc. (303) 290-8700

Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New U.S. Postal Service in address is 1220 South St. Francis Dr. Santa

CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)

) H

:П :П

. ₁ :⊐ Ľ nber is (505) 476-3440.

questions.

Brian Wood

Sincerely,



37 Verano Loop, Santa Fe, New Mexico 87505

466

November 11, 2001

Sincerely,

Brian Wood

Van Goebel Burlington Resources Oil and Gas Company P.O. Box 4289 Farmington, NM 87499

Dear Van,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

MarkWest Resources, Inc. is applying to drill its Scott Federal 27-11 23-1 well. The minimum state distance for a Dakota gas well is 660' from a quarter section line. The proposed well is 300' further east than is standard. Thus, it is a non-standard location. The NSL is due to topography (see attached map). It is 1,645' from the closest lease boundary.

Total Depth: 6,470' Well Name: Scott Federal 27-11 23-1

Proposed NSL Producing Zone: Basin Dakota sandstone

NSL Acreage Dedication: 320.00 ac. (E2 Sec. 23)

Location: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.,

San Juan County, NM on Federal lease NMSF-078089

Approximate Location: ≈10 air miles south-southeast of Bloomfield, NM

Applicant Name: MarkWest Resources, Inc. (303) 290-8700

Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application with the applicable regulations, then it will be approved. The New compliac **U.S. Postal Service** on address is 1220 South St. Francis Dr. Santa

nber is (505) 476-3440.

CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)

, 1

. 1 ...

וח ם ם

۵ ا

auestions.



466

November 11, 2001

Bonneville Fuels Co. 1600 Broadway, Suite 1110 Denver, Co. 80202

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

MarkWest Resources, Inc. is applying to drill its Scott Federal 27-11 23-1 well. The minimum state distance for a Dakota gas well is 660' from a quarter section line. The proposed well is 300' further east than is standard. Thus, it is a non-standard location. The NSL is due to topography (see attached map). It is 1,645' from the closest lease boundary.

Well Name: Scott Federal 27-11 23-1 Total Depth: 6,470

Proposed NSL Producing Zone: Basin Dakota sandstone

NSL Acreage Dedication: 320.00 ac. (E2 Sec. 23)

Location: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.,

San Juan County, NM on Federal lease NMSF-078089

Approximate Location: ≈10 air miles south-southeast of Bloomfield, NM

Applicant Name: MarkWest Resources, Inc. (303) 290-8700

Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa For NM 87505 Their phases in the page 1505 MM 87505 Their phases i

U.S. Postal Service

CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

questions.

Postage & Personal Postage & Fees & 3 & 4 & Final Postage & Fees & 5 & 4 & Final Postage & Fees & 5 & 4 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 5 & 6 & Final Postage & Fees & 7 & Final Postage & Fees & 7 & Final Postage & Final Postage & Final Postage & Fees & 7 & Final Postage & Fees & 7 & Final Postage & F

Sincerely,

Brian Wood



November 11, 2001

Bill Franklin Conoco Inc. 600 N. Dairy Ashford Houston, Tx. 77079

Dear Bill.

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

MarkWest Resources, Inc. is applying to drill its Scott Federal 27-11 23-1 well. The minimum state distance for a Dakota gas well is 660' from a quarter section line. The proposed well is 300' further east than is standard. Thus, it is a non-standard location. The NSL is due to topography (see attached map). It is 1,645' from the closest lease boundary.

Well Name: Scott Federal 27-11 23-1

Total Depth: 6,470

Proposed NSL Producing Zone: Basin Dakota sandstone

NSL Acreage Dedication: 320.00 ac. (E2 Sec. 23)

....

Location: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.,

San Juan County, NM on Federal lease NMSF-078089

Approximate Location: ≈10 air miles south-southeast of Bloomfield, NM

Applicant Name: MarkWest Resources, Inc. (303) 290-8700

Applicant's Address: 155 Inverness Dr. W. Suite 200, Englewood, Co. 80112

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application alice with the applicable regulations, then it will be approved. The New **U.S. Postal Service**

CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

ONOCO

n address is 1220 South St. Francis Dr. Santa nber is (505) 476-3440.

questions.

Sincerely,

88.0

(505) 094.8120 466

November 11, 2001

Joe Hammond Louis Dreyfus Natural Gas Corp. 14000 Quail Springs Parkway, Suite 600 Oklahoma City, Ok. 73134-2600

Dear Joe.

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

MarkWest Resources, Inc. is applying to drill its Scott Federal 27-11 23-1 well. The minimum state distance for a Dakota gas well is 660' from a quarter section line. The proposed well is 300' further east than is standard. Thus, it is a non-standard location. The NSL is due to topography (see attached map). It is 1,645' from the closest lease boundary.

Well Name: Scott Federal 27-11 23-1 Total Depth: 6,470

Proposed NSL Producing Zone: Basin Dakota sandstone

NSL Acreage Dedication: 320.00 ac. (E2 Sec. 23)

Location: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.,

San Juan County, NM on Federal lease NMSF-078089

Approximate Location: ≈10 air miles south-southeast of Bloomfield, NM

Applicant Name: MarkWest Resources, Inc. (303) 290-8700

Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) on address is 1220 South St. Francis Dr. Santa mber is (505) 476-3440.

guestions.

Brian Wood

Sincerely,



466

37 Verano Loop, Santa Fe, New Mexico 87505

November 11, 2001

Jerry Fletcher Marathon Oil Company P. O. Box 552 Midland, Tx. 79702-0552

Dear Jerry,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

MarkWest Resources, Inc. is applying to drill its Scott Federal 27-11 23-1 well. The minimum state distance for a Dakota gas well is 660' from a quarter section line. The proposed well is 300' further east than is standard. Thus, it is a non-standard location. The NSL is due to topography (see attached map). It is 1,645' from the closest lease boundary.

Well Name: Scott Federal 27-11 23-1

Total Depth: 6,470'

Proposed NSL Producing Zone: Basin Dakota sandstone

NSL Acreage Dedication: 320.00 ac. (E2 Sec. 23)

Location: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.,

San Juan County, NM on Federal lease NMSF-078089

Approximate Location: ≈10 air miles south-southeast of Bloomfield, NM

(303) 290-8700 Applicant Name: MarkWest Resources, Inc.

Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application malias with the applicable regulations, then it will be approved. The New n address is 1220 South St. Francis Dr. Santa aber is (505) 476-3440.

U.S. Postal Service CERTIFIED MAIL RECEIPT

7337

42525700

_a __

[.]

(Domestic Mail Only; No Insurance Coverage Provided)

Bx 552

questions.

Sincerely,

Brian Wood

37 Verano Loop, Santa Fe, New Mexico 87505

(505)-984-8120 **Ч** (£

November 11, 2001

Jane Seiler Questar Expl. & Production Company 1331 17th St., Suite 800 Denver, Co. 80202

Dear Jane,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

MarkWest Resources, Inc. is applying to drill its Scott Federal 27-11 23-1 well. The minimum state distance for a Dakota gas well is 660' from a quarter section line. The proposed well is 300' further east than is standard. Thus, it is a non-standard location. The NSL is due to topography (see attached map). It is 1,645' from the closest lease boundary.

Well Name: Scott Federal 27-11 23-1

Total Depth: 6.470'

Proposed NSL Producing Zone: Basin Dakota sandstone

NSL Acreage Dedication: 320.00 ac. (E2 Sec. 23)

Location: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.,

San Juan County, NM on Federal lease NMSF-078089

Approximate Location: ≈10 air miles south-southeast of Bloomfield, NM

Applicant Name: MarkWest Resources, Inc. (303) 290-8700

Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the application egulations, then it will be approved. The New

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

egulations, then it will be approved. The New on address is 1220 South St. Francis Dr. Santamber is (505) 476-3440.

questions.

Brian Wood

Sincerely,



37 Verano Loop, Santa Fe, New Mexico 87505 (505) 984

November 11, 2001

Taurus Exploration USA Inc. 605 21st St. N Birmingham, Al. 35203-2707

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following non-standard location (NSL) for a well. This letter is a notice only. No action is needed unless you have questions or objections.

MarkWest Resources, Inc. is applying to drill its Scott Federal 27-11 23-1 well. The minimum state distance for a Dakota gas well is 660' from a quarter section line. The proposed well is 300' further east than is standard. Thus, it is a non-standard location. The NSL is due to topography (see attached map). It is 1,645' from the closest lease boundary.

Well Name: Scott Federal 27-11 23-1 Total Depth: 6,470'

Proposed NSL Producing Zone: Basin Dakota sandstone

NSL Acreage Dedication: 320.00 ac. (E2 Sec. 23)

Location: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.,

San Juan County, NM on Federal lease NMSF-078089

Approximate Location: ≈10 air miles south-southeast of Bloomfield, NM

Applicant Name: MarkWest Resources, Inc. (303) 290-8700

Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: Application for a non-standard location will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa For NM 97505 Their above mber is (505) 476-3440.

U.S. Postal Service
CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

questions.

Response of the second of the

Sincerely,

Brian Wood

Form 3160-3 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

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

BUREAU OF LAND MANAGEMENT	NMSF-078089
APPLICATION FOR PERMIT TO DRILL OR DEEPEN	6 IF INDIAN, ALLOTTER OR TRIPE
DRILL DEEPEN SINGLE ZONE ZONE	TONIT AGREEMENT NAME N/A TARMORLEAS NAME AL
MarkWest Resources, Inc. (303) 290-8700	() AN WILL, NO.
1. ADDRESS AND TELEMENTS Dr. W, Suite 200, Englewood, Co. 80112 4. LOCALION OF WELL (Report location clearly and in accordance with any State requirements *) 1. At Section 1. At Secti	19 FIELD ABASTN BAKOta
At proposed prod zone Same	23-27n-11w NMPM
14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OF POST OFFICE* 10 air miles SSE of Bloomfield	San Juan NM
PROPERTY OR LEASE LINE, FT (Also to nearest drig, unit line, if any) 1,645' 2,560	OF ACRES ASSIGNED BES WELL 320 LET OR CABLE TOOLS ROTARY
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6,133' ungraded	Dec. 1, 2001
PROPOSED CASING AND CEMENTING PROGRAM	
12-1/4" K-55 8-5/8" 24 160° 7-7/8" N-80 4-1/2" 11.6 6,470°	© 2,046 cu. ft. & to surface ≈2,046 cu. ft. & to surface
On sited with Bill Liese.	

Only other well in quarter-quarter is a MarkWest well.

Will apply for NSL (due to terrain) from OCD.

N ABOVE SPACE DESCRIBLE PROPOSET lected direction etc. exercitment disc. ec.	DPROGRAM It proposal to deepen, described to deepen.	give data on present productive zone a	BLM, OCD (via BLM) and proposed new productive zon arr program. If any	, Pippin, Stowe
	> \ . (/ -	Consultant (505)	466-8120	10-28-01
the proof of toward or state	c office (se)	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	DATE	
r Chille Co		APPROVAL LATE	-	
A production of the American Constitution of the American	constrained the approximate distance $\boldsymbol{\varepsilon}$	qualable title to those rights in the subject i	in the while α with entitle the α , α	and the second of the second

Mee Garations On Reserve Some

DISTRICT 1 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

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

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

AMENDED DED

WELL LOCATION AND ACREAGE DEDICATION PLAT Property Number Property Code Property Name SCOIT FEDERAL 27-11 OGRID No 193195 MARKWEST RESOURCES, INC. Surface Location UL or lot no. Section Township Range 11-W 11-W 1645' NORTH 360' EAST 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 in 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 in Bottom Hole Location If Different From Surface Will or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION	SAN JUAN
*Property Code 71599 BASIN DAKOTA *Property Code Property Name SCOIT FEDERAL 27-11 *OPERAND NO 193195 MARKWEST RESOURCES, INC. **IO Surface Location UL or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/West in 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 in 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 **Dedicated Acres** **Dedicated Acres** **Joint or Infill ***Consolidation Code ***Order No.** **NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION LINTIL ALL DEPENDENCE AND RESERVED TO THE PROPERTY AN	23-1 *Elevation 6133' County SAN JUAN
*Property Name SCOTT FEDERAL 27-11 **OGRID No 193195 **MARKWEST RESOURCES, INC. **Degrator Name MARKWEST RESOURCES, INC. **Inc.	23-1 *Elevation 6133' County SAN JUAN
Operator Name 193195 **MARKWEST RESOURCES, INC.* **Operator Name MARKWEST RESOURCES, INC.* **Operator Name **MARKWEST RESOURCES, INC.* **Surface Location **North/South line Feet from the Morth/South line Feet from the East/West line East/West line **Inc. **Inc.*	23-1 * Elevation 6133' County SAN JUAN line County
MARKWEST RESOURCES, INC. Surface Location UL or lot no. Section 7 Township Range 10t Idn Feet from the 1645' NORTH 360' EAST 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 Feet from Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West Dedicated Acres Joint or Infill Consolidation Code Jorder No.	*Blevation 6133' County SAN JUAN
UL or lot no. Section Township Range Lot idn Feet from the North/South line Feet from the East/West line Fast West line Feet from the 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 Feet from Surface UL or lot no. Section Township Range Lot idn Feet from the North/South line Feet from the East/West Dedicated Acres Joint or Infill Consolidation Code Morder No.	6133' County SAN JUAN line County
H 23 27-N 11-W . 1645' NORTH 360' EAST 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 Dedicated Acres Joint or Infill Consolidation Code Morder No	SAN JUAN Hine County
H 23 27-N 11-W . 1645' NORTH 360' EAST 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 Dedicated Acres	SAN JUAN Hine County
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 Dedicated Acres Joint or Infill Maconsolidation Code Morder No	line County
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West Dedicated Acres Joint or Infill ACCONSOLIDATION LINTUL ALL INTERPRETED AND ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION LINTUL ALL INTERPRETED AND ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION LINTUL ALL INTERPRETED	County
Podicated Acres Joint or Infill Consolidation Code Order No NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERPROPERTY.	County
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERPORTS AND THE PROPERTY OF THE	
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL DITERRORS WATER	
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION	
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION	
DEEL IN TROVED BY THE DIVISION	CONSOLIDATEL
	- .
CALC'D	CERTIFICATION
SEC. CORNER SEC. CORNER FD 2 1/2" BC G.L.O. 1913 I hereby certify that the trylo	
N DO-01 W	
20 UNKS WITNESS CORNED 60	\ \ / /
FD 2 1/2" BC	· last
5.55. 1313	2000
Signature Signature	
964. 8 360'	
LAT. 36'33.8'N LONG. 107'57.9'W BRIA	DOOW N.
ia SI Tila	SULTANT
23	28, 2001
CALC'D CORNER	
1	CERTIFICATION
WITNESS CORNER FD 2 1/2 BC	
G.L.O. 1913 was plotted from field notes of me or under my supervision, as	
and correct to the best of the	itte
	NOS.
Date of Syrey	
Stenature and Soul of Poten	piopal Surveyor
	内は左
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\langle VsTI \rangle$
	Mate I
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	JUNK /
Certificate Number	JUKA .

MarkWest Resources, Inc. Scott Federal 27-11 23-1

Surface: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	Depth from GL	KB Depth	Subsea Elevation
Nacimiento Fm	000'	12'	+6,13 3'
Ojo Alamo Ss	813'	825'	+5,320'
Kirtland Sh	852'	864'	+5,281'
Fruitland Coal	1,305'	1,317'	+4,8 28°
Pictured Cliffs Ss	1,804	1,816'	+4,329
Mesa Verde Ss	2,715'	2,727'	+3,418'
Point Lookout Ss	4,235'	4,247'	+1,89 8'
Gallup Ss	5,711'	5,723'	+422'
Dakota Ss	6,314'	6,326'	-181'
Total Depth*	6,470'	6,482'	-337

^{*} all elevations reflect the ungraded ground level of 6,133'.

2. NOTABLE ZONES

Gas or Oil Zones	Water Zones	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
Gallup	Kirtland	
Dakota	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.



MarkWest Resources, Inc. Scott Federal 27-11 23-1 Surface: 1645' FNL & 360' FEL

Sec. 23, T. 27 N., R. 11 W. San Juan County, New Mexico

3. PRESSURE CONTROL

Maximum expected pressure is $\approx 1,000$ psi. The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 11" 3,000 psi model is on PAGE 3.

BOP equipment and all accessories will meet or exceed BLM requirements in 43 CFR Part 3160 for a 3,000 psi system. A 3,000 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, 3,000 psi 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.

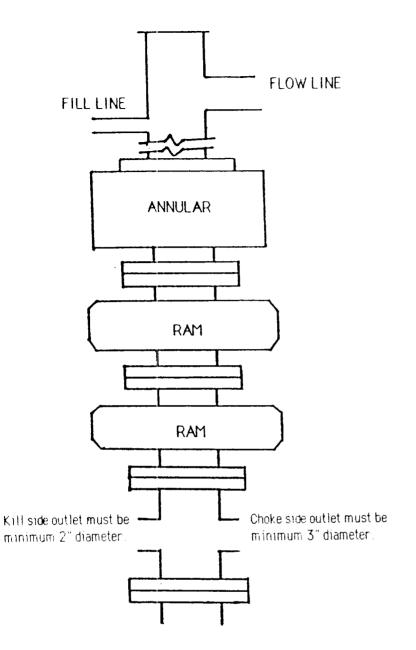
4. CASING & CEMENT

Hole Size	<u>O.D.</u>	Weight (lb/ft)	Grade	<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"	11.6	N-80	New	ST&C	6,470'

Surface casing will be cemented to the surface with ≈ 118 cu. ft. (≈ 100 sx) Class B + 1/4 lb/sk cello-flake + 2% CaCl₂. Yield = 1.18 cu. ft./sk. 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 1,500 psi for 30 minutes.

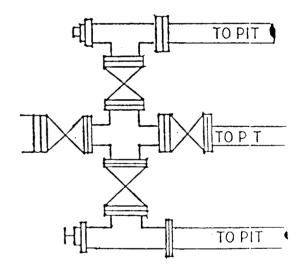
Production casing will be cemented to the surface. Volumes are calculated at 28% excess. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. WOC = 12 hours. Test to 2,000 psi.





TYPICAL BOP STACK & CHOKE MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check va've

Upper kelly cock will have handle available.

Safety valve and subs will fit all drill string connections in \overline{w} :

All BOPE connections subjected to well pressure will be flanged, welded, or clamp-



Scott Federal 27-11 23-1

Surface: 1645' FNL & 360' FEL

Sec. 23, T. 27 N., R. 11 W. San Juan County, New Mexico

Lead cement will be $\approx 1,677$ cubic feet ($\approx 1,075$ sx) modified Super H cement at 61 #/sack and 22 #/sack blended silica light with 7 #/sack gilsonite + 1/4 #/sack Flocele. Mixed to weight of 13 #/gal for a yield of 1.56 cubic feet per sack. Mixed to weight of 8.5 #/gal with 75-600 SCF/bbl N2.

Tail cement will be \approx 216 cubic feet (\approx 165 sx) 50/50 Class H Poz with 2% gel + 5 #/sack gilsonite + 1/4 #/sack Flocele + 0.4% Halad + 0.1% HR5. Yield = 1.31 cubic feet per sack. Weight = 13.5 #/gal. No N2.

Cap cement down annulus with $\approx\!153$ cubic feet ($\approx\!130$ sx) Class B with 3% CaCl₂.

Cementing equipment will include guide shoe, float collar and 23 centralizers. One centralizer each will be installed on the first three joints above the float, then one every second joint to 5,700' and one every fourth joint from 2,000' to surface.

MUD PROGRAM

<u>RANGE</u>	MUD TYPE	WEIGHT
0' - 160'	Fresh-Spud	8.4
160' - 4,800'	LSND	8.6
4,800' - TD	LSND	8.8

Lost circulation and absorption material will be on location.

6. CORING, TESTING, & LOGGING

No cores or DSTs are planned. Open hole logs will include GR, Neutron-Density, and Induction. The Neutron Density will be run from TD to $\approx 5,700$ '. The other logs will be run from TD to the base of the surface casing.



7. DOWNHOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be $\approx 1,000$ psi.

8. OTHER INFORMATION

The anticipated spud date is December 1, 2001. It is expected it will take about twelve days to drill and ten days to complete the well. Completion will start about one month after the spud and will include hydraulic fracturing.



Surface Use Plan

1. DIRECTIONS & EXISTING ROADS (See Pages 10 & 11)

From Bloomfield ...

Go SE 12 mi. on US 550/NM 44 to the equivalent of Milepost 140.7 Then turn left at the brown metal building and go NE 0.1 mi. on a dirt road Then turn right and go SE 0.6 mi. on a dirt road to a well Then turn left and go NE 0.2 mi. on a dirt road past a well Then turn left and go downhill 0.7 mi. on a dirt road to a junction Then turn left and go N 0.5 mi. on a dirt road to a junction Then turn left and go SW 0.3 mi. on a dirt road to the well

Roads will be maintained to a standard at least equal to their present condition.

2. ROAD TO BE BUILT OR UPGRADED

No new road will be built. This well pad will overlap MarkWest's existing 27-11 23-42 well.

3. EXISTING WELLS (See Page 11)

There are twenty oil or gas wells within a mile radius according to NM Oil Conservation Division records in Santa Fe reviewed on August 23, 2001. There are no water or injection wells within a mile.



4. PROPOSED PRODUCTION FACILITIES

A ≈ 300 barrel steel tank, ≈ 60 barrel fiberglass open top tank, ≈ 50 hp compressor, meter run, and separator will be installed on the pad. All surface equipment will be painted a flat Carlsbad tan color.

A 4,752' long steel \approx 4" gas pipeline will be laid to MarkWest's existing Central Delivery Point #3. All of the route parallels an existing road and an existing MarkWest 2" line. It will be buried 36" deep. Wall thickness = 0.216". Maximum operating pressure = 200 psi. Test pressure = 1,600 psi. Test water will be discharged into the reserve pit.

5. WATER SUPPLY

Water will be trucked from Bloomfield.

6. CONSTRUCTION MATERIALS & METHODS

NM One Call (1-800-321-ALERT) and BLM will be notified before construction starts. There is no topsoil. A diversion ditch will be cut south of the pad.

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the county landfill. There will be no trash burning. Once dry, contents of the reserve pit will be buried in place. Human waste will be disposed of in chemical toilets and hauled to an approved dump station.

8. ANCILLARY FACILITIES



PAGE 8

MarkWest Resources, Inc. Scott Federal 27-11 23-1 Surface: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W. San Juan County, New Mexico

There will be no air strips or camps. Camper trailers will be on location for the company man, tool pusher, or mud logger.

9. WELL SITE LAYOUT

See Pages 12 and 13 for depictions of the well pad, cross section, cut and fill diagram, reserve pit, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

Reclamation starts once the reserve pit is dry. It usually takes a year for a reserve pit to fully evaporate, at which point it will be backfilled. The pad and backfilled pit will be recontoured to a natural appearance. Disturbed areas will be ripped or harrowed. A BLM or BIA approved seed mix will be drilled between July 1 and September 15. If broadcast, the rate will be doubled. A harrow or cable will be dragged over the area to assure seed cover.

If the well is a producer, then the reserve pit and any other areas not needed for workovers will be reclaimed as previously described.

11. SURFACE OWNER

All construction is on lease and on BLM.

12. OTHER INFORMATION

The nearest hospital is a 45 minute drive away in southwest Farmington.



Scott Federal 27-11 23-1

Surface: 1645' FNL & 360' FEL

Sec. 23, T. 27 N., R. 11 W. San Juan County, New Mexico

13. REPRESENTATION

Anyone having questions concerning the APD should call:

Brian Wood, Consultant

Permits West, Inc.

37 Verano Loop

Santa Fe. NM 87508

(505) 466-8120

FAX: (505) 466-9682 Cellular: (505) 699-2276

Field representative will be:

Mike Pippin

3104 N. Sullivan

Farmington, NM 87401

(505) 327-4573

Cellular: (505) 330-0495

MarkWest Resources, Inc. has the necessary consents from the proper lease owners to conduct lease operations in conjunction with this well. Bond coverage pursuant to 43 CFR 3104 for lease activities and operations is being provided by MarkWest Resources, Inc.

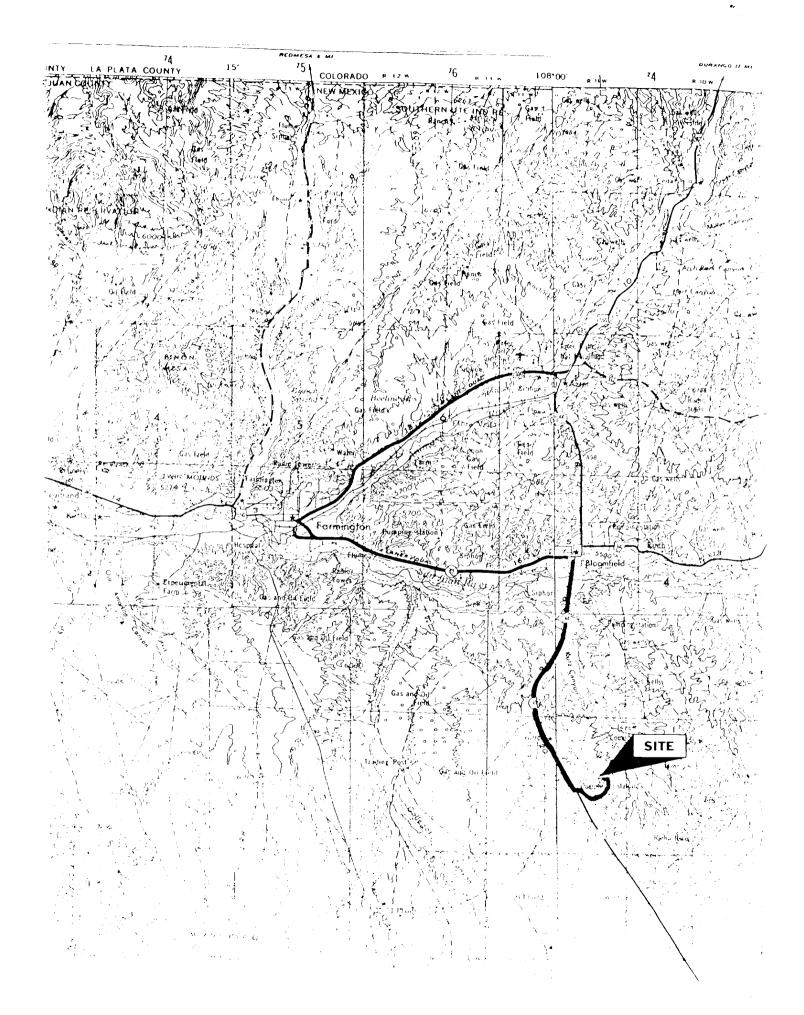
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by MarkWest Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Brian Wood, Consultant

October 28, 2001

Date

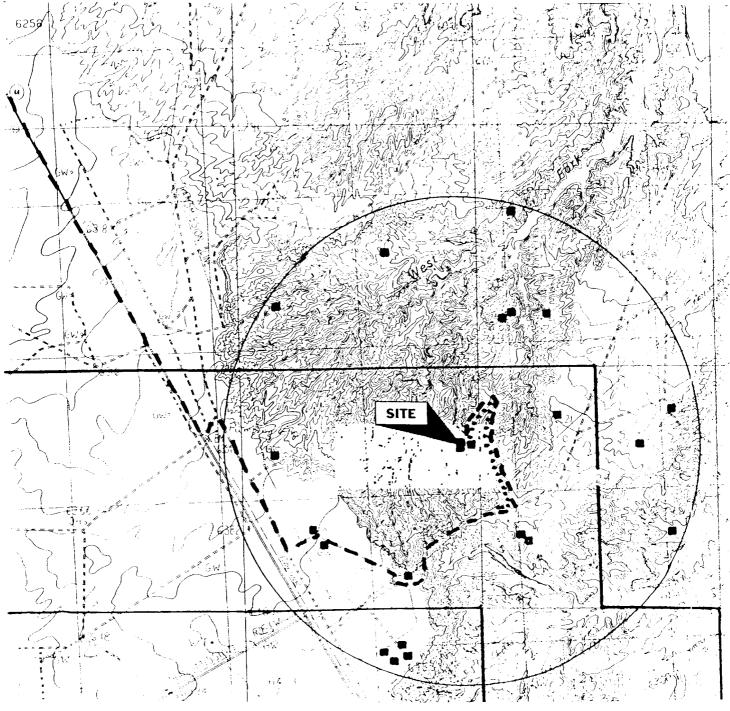




PAGE 11

MarkWest Resources, Inc. Scott Federal 27-11 23-1 Surface: 1645' FNL & 360' FEL Sec. 23, T. 27 N., R. 11 W.

San Juan County, New Mexico

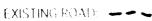


PROPOSED WELL:

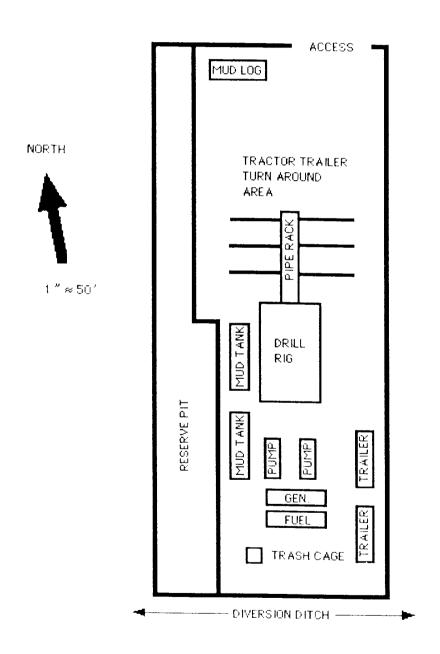
EXISTING WELL:

LEASE:

PROPOSED GAS LINE: •••

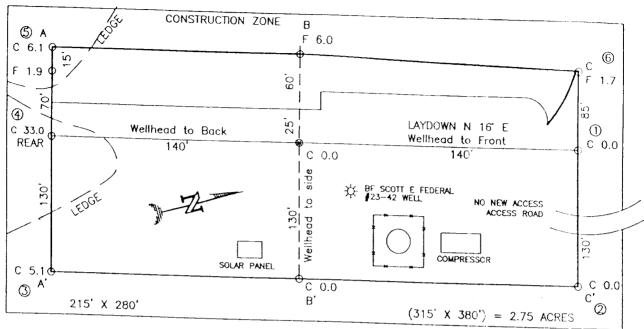


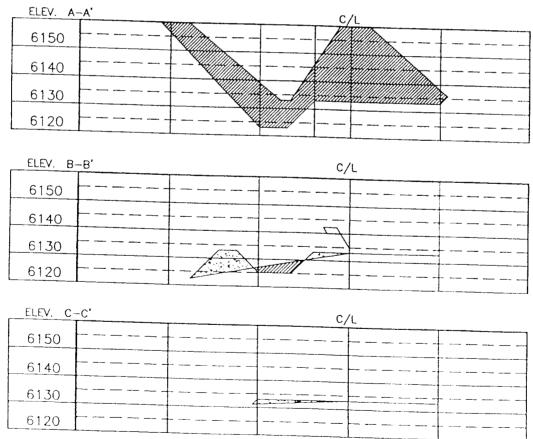






MARKWEST RESOURCES, INC.
SCOTT FEDERAL 27-11 #23-1, 1645' FNL 360' FEL
SECTION 23, T-27-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N. M.
GROUND ELEVATION: 6133', DATE: DECEMBER 14, 2000





NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PHYSLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

DRAWN BY: B.S. ROW MW003 CADFILE: MW003CF8 DAIE: 12/19/00

VISED: NAME CHANGE BY: B.L. DATE: 7/11/01

Daggett Enterprises, Inc.
Surreying and Oil Field Services
9, 0. Box 15068 Formington, NM 87401
ne (505) 326-1772 Fox (505) 326-6019