



SUSPENSE 2/17/03	ENGINEER ms	LOGGED IN KW	TYPE NSL	APP NO PRR0302930384
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NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

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

PC

ABOVE THIS LINE FOR DIVISION USE ONLY

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [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 Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

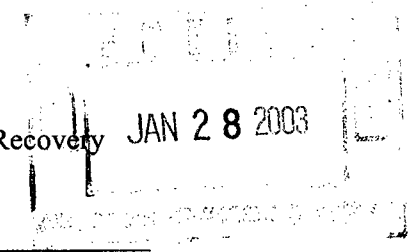
Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
WFX PMX SWD IPI EOR PPR

- [D] Other: Specify _____

MarkWest's
Las Colinas #101



[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or _ Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **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	Signature	Title	Date
BRIAN WOOD (505) 466-8120 FAX 466-9682		CONSULTANT	1-28-03
		e-mail Address	brian@permitswest.com



**REQUEST FOR ADMINISTRATIVE APPROVAL FOR NON-STANDARD LOCATION
FOR MARKWEST RESOURCES, INC.**

LAS COLINAS #101 GAS WELL

FULCHER KUTZ PICTURED CLIFFS FIELD & POOL

2150' FSL & 1470' FEL SEC. 26, T. 30 N., R. 13 W., SAN JUAN COUNTY, NM

I. The well is on private surface and BLM oil and gas lease NMSF-078213. The well is 2,604' from the closest lease line. The proposed location is non-standard for the Fulcher Kutz Pictured Cliffs gas. A standard location must be at least 660' from the quarter line. This well is staked 170' further north than is standard. (Closest standard location would be 1980' FSL and 1470' FEL.) The APD is attached (EXHIBIT A).

II. A C-102 showing the well location and pro ration unit (SE4) is attached (EXHIBIT B). The lease (2,480 acres) is shown as a solid line on the attached (EXHIBIT C) Farmington North USGS topo map. The well encroaches on the NE4 Section 26 Fulcher Kutz Pictured Cliffs gas spacing unit which is dedicated to Calpine's existing Tiger #15 well (1710' FNL & 1095' FEL 26-30n-13w) which is 1,468' northeast.

III. According to NM Oil Conservation Division records, the closest Pictured Cliffs gas well is Calpine's Tiger #15 well. It is 1,468' northeast at 1710' FNL & 1095' FEL 26-30n-13w. A copy of the Farmington North 7.5' USGS map is attached (EXHIBIT D) showing the proposed well site, existing & applied Pictured Cliffs spacing units (dashed lines), existing & applied Pictured Cliffs gas wells, and 2,480 acre lease (solid line including all of Sections 25, 26, & 35 and parts of Sections 23, 27, & 34). Registered letters were sent on January 27, 2003 to all of the offset interest owners. Copies of the postal receipts and letters are attached.

IV. A copy of the Farmington North USGS map is attached (EXHIBIT E). The proposed well site is marked. Pro ration unit (dashed outline) for the Pictured Cliffs gas is the 160.00 acre southeast quarter of Section 26, Township 30 North, Range 13 West, NMPM, San Juan County, NM.

V. MarkWest selected its location due to topography. The drilling window is in the Farmington City Limits. Houses are to the north, east, south, and west. Closest house is 582' southwest. The location was selected to put it in a low forested spot to minimize impacts to neighbors.

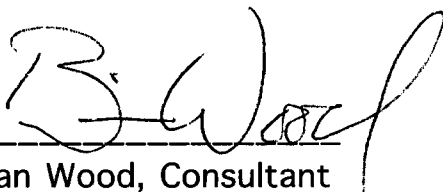
VI. Archaeology is not an issue.

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 (see attached EXHIBIT F) 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.

Robert L. Bayless, Producer LLC
Benson-Montin-Greer
BLM
Burlington Resources Oil and Gas Company
Calpine Natural Gas LP
ConocoPhillips
Steve Dunn
Energen Resources Corp.
J & R Merrion Trust
Greg T. Merrion
Michael K. Merrion
Merrion Oil & Gas Corp.
Providence Minerals LLC
Questar Exploration & Production



Brian Wood, Consultant

January 27, 2003
Date

STATE OF NEW MEXICO)
) SS:
COUNTY OF SANTA FE)

The foregoing instrument was acknowledged before me this 27th day of January, 2003 by Brian Wood. Witness my hand and official seal.

My Commission Expires: September 7, 2003

Business Address: 37 VERANO LOOP, SANTA FE, NM 87508

cc: Aztec OCD, Stowe

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

2a. Type of Work: ☒ DRILL ☐ REENTER

2b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2c. Name of Operator
MARKWEST RESOURCES, INC.

3a. Address **155 INVERNESS DR., SUITE 200**
ENGLEWOOD, CO. 80112

3b. Phone No. (include area code)
(303) 290-8700

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface **2150' FSL & 1470' FEL**
At proposed prod. zone **SAME**

5. Lease Serial No.
NMSF-078213

6. If Indian, Allottee or Tribe Name
N/A

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

8. Lease Name and Well No.
LAS COLINAS #101

9. API Well No.
30-045-

10. Field and Pool, or Exploratory
FULCHER KUTZ PIC. CLIFFS

11. Sec., T., R., M., or Bk. and Survey or Area
26-30n-13w NMPM

12. County or Parish
SAN JUAN

13. State
NM

14. Distance in miles and direction from nearest town or post office*
3 AIR MILES NORTHEAST OF FARMINGTON POST OFFICE

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)
2,604'

16. No. of Acres in lease
2,480

17. Spacing Unit dedicated to this well
160 ACRES (SE4)

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
Completed: 1,242'
Applied for: 21'

19. Proposed Depth
1,900'

20. BLM/BIA Bond No. on file
KA6084 (BLM - NATIONWIDE)

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5,769' GL

22. Approximate date work will start*
FEBRUARY 15, 2003

23. Estimated duration
5 DAYS TO DRILL

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

Comments

cc:BLM (&OCD), Pippin, Stowe

25. Signature *Brian Wood* Name (Printed/Typed) **BRIAN WOOD** Date **12-15-02**

Title **CONSULTANT** PHONE: 505 466-8120 FAX: 505 466-9682

Approved by (Signature) Name (Printed/Typed) Date

Title Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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.

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

DISTRICT I
1025 N. French Dr., Hobbs, N.M. 88240

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

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, 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 30-045-	*Pool Code 77200	*Pool Name FULCHER KUTZ PICTURED CLIFFS
*Property Code	*Property Name LAS COLINAS	*Well Number 101
*OCD No. 193195	*Operator Name MARKWEST RESOURCES, INC.	*Elevation 5769'

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
J	26	30-N	13-W		2150'	SOUTH	1470'	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 Acres **160** *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

Pool Boundary

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
Brian Wood
Signature
Printed Name **BRIAN WOOD**
Title **CONSULTANT**
Date **DEC. 15, 2002**

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.
David A. Johnson
Signature and Seal of Professional Surveyor
Surveyor No. **14827**
Registered Professional Surveyor
Certificate Number

LAT. 36°46'58"N
LONG. 108°10'16"W

FD 3 1/4" B.L.M. BC 1952

FD 3 1/4" B.L.M. BC 1952

FD 3 1/4" B.L.M. BC 1952

EXHIBIT

Standard
640-Acre Section

MarkWest Resources, Inc.
Las Colinas #101
2150' FSL & 1470' FEL
Sec. 26, T. 30 N., R. 13 W.
San Juan County, New Mexico

PAGE 1

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Ojo Alamo Ss	000'	5'	+5,769'
Kirtland Sh	356'	361'	+5,413'
Fruitland Coal	1,404'	1,409'	+4,365'
Pictured Cliffs Ss	1,774'	1,779'	+3,995'
Total Depth (TD)*	1,900'	1,905'	+3,869'

* all elevations reflect the ungraded ground level of 5,769'

2. NOTABLE ZONES

<u>Gas & Oil Zones</u>	<u>Water Zones</u>	<u>Coal Zone</u>
Fruitland	Ojo Alamo	Fruitland
Pictured Cliffs	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 bottom hole pressure is ~300 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. The well head, casing head, and all pipe, tubing, fittings, valves, and unions placed on or connected with BOP equipment will have a minimum working pressure of 2,000 psi. BOP equipment and all accessories will meet or exceed BLM requirements in 43

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Las Colinas #101
2150' FSL & 1470' FEL
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San Juan County, New Mexico

PAGE 2

CFR Part 3160 and API RP 53 for a 2,000 psi system.

A 2,000 psi double ram hydraulic BOP will be used. There will be one set of pipe rams and one set of blind rams. Sufficient valves will be installed to permit fluid circulation at the surface. Accumulator system capacity will be sufficient to close all BOP equipment with a 50% safety factor.

Accessories will include upper and lower Kelly cocks with handles, stabbing valve to fit drill pipe on the floor at all times, string float at bit, choke manifold with 2" adjustable and 2" positive chokes, and pressure gauge.

Fill, kill, and choke manifold lines will be 2". Choke and kill lines will be anchored, tied, or otherwise secured to prevent whipping if pressure surges.

BOP equipment will be inspected daily. Pressure testing of each component of the BOP equipment will be conducted before drilling out any casing string. A preventer operating test will be performed on each round trip of the pipe, but not more than once every 24 hours. BOPs will be tested every 24 hours. Tests will be recorded on the daily report or I. A. D. C. log.

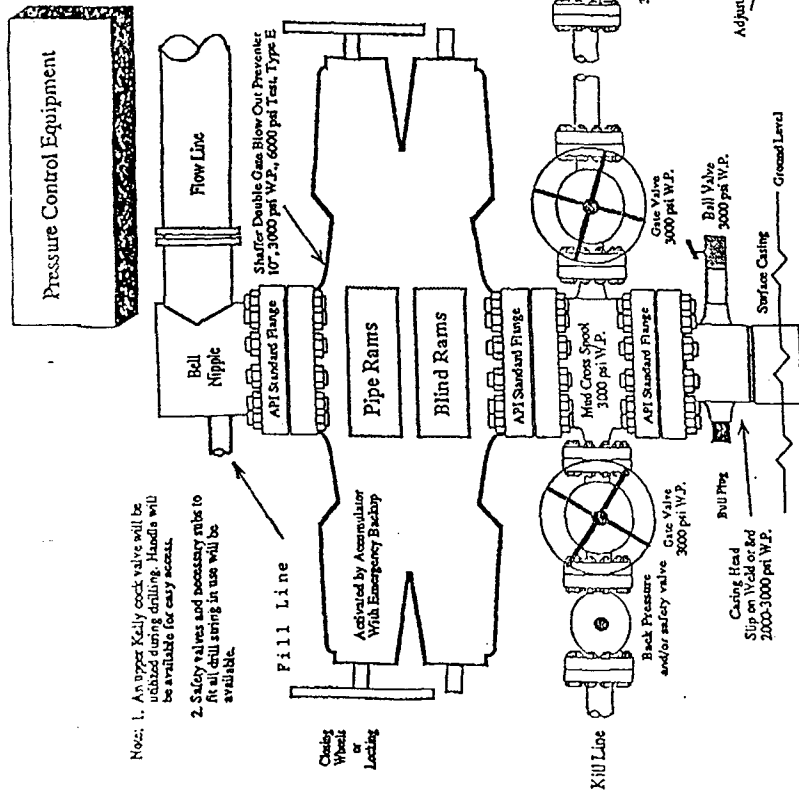
Drilling or completion operations will not proceed until BOP equipment is found, upon testing, to be serviceable. If the blind rams are closed for any purpose, then the valves on the choke lines or relief lines below the blind rams will be opened prior to opening the rams to bleed off any pressure.

4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>Connection</u>	<u>GL Setting Depth</u>
12-1/4"	8-5/8"	24	K-55	New	S T & C	400'
6-1/4"	4-1/2"	10.5	K-55	New	S T & C	1,900'

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PROVIDING PERMITS for LAND USERS

EXHIBIT A



- Note: 1. An upper Kelly cock valve will be utilized during drilling. Handis will be available for easy access.
2. Safety valves and necessary rams to fit all drill string in use will be available.

Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

Minimum 2" Choke Line
Minimum 2" Kill Line
At Least One 2" Minimum Kill Line Valve

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Surface casing will be cemented to the surface with ≈ 330 cubic feet (≈ 280 sacks) Class B + $1/4$ lb/sk cello-flake + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. W. O. C. = 12 hours. Surface casing will be tested to 500 psi for 30 minutes.

An 8-5/8" notched regular pattern guide shoe with three centralizers will be used on the surface casing. Centralizers will be placed at 120' intervals, starting with the bottom joint. Will Baker Lock the collar to the pin or ring on the bottom joint. Will Baker Lock the shoe on the bottom. Will run a centralizer with a lock on the bottom joint and a centralizer on the second joint.

Production casing will be cemented to the surface. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. W. O. C. = 12 hours. Test to 3,800 psi.

Lead cement will be ≈ 290 cubic feet (≈ 100 sacks) Class B light cement with 3% sodium metasilicate + 3 pounds per sack gilsonite + $1/4$ #/sack Flocele. Yield = 2.9 cubic feet per sack. Weight = 11.5 pounds per gallon. Volume is calculated at 100% excess.

Tail cement will be ≈ 78 cubic feet (≈ 50 sacks) Class B with 4% gel + 2% CaCl_2 + $1/4$ #/sk Flocele. Yield = 1.55 cubic feet per sack. Weight = 14.5 pounds per gallon. Used at 50% excess to cover 500' of formation.

The production casing will use a 4-1/2" cement nose guide shoe with a self fill insert float. The float will be placed one joint above the shoe. Five centralizers will be spaced on every other joint starting with the float collar. Turbulent will be placed at 120' intervals from 960' to the surface. A total of 13 centralizers will be used.

5. MUD PROGRAM

<u>Range</u>	<u>Mud Type</u>	<u>Weight</u>
0' - 400'	Fresh-Spud	8.4
400' - TD	LSND	8.6

A native fresh water based mud system will initially be used. It will be followed by a low solids, non-dispersed gel system to condition the hole for logs. Lost circulation, weighting, and absorption material will be on location.

6. CORING, TESTING, & LOGGING

No cores or drill stem tests are planned. Open hole logs will include GR, Neutron-Density, and Induction. The Neutron Density will be run from TD to 1,000'. The other logs will be run from TD to the base of the surface casing.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be \approx 300 psi.

8. OTHER INFORMATION

The anticipated spud date is February 15, 2003. It is expected it will take about five days to drill and seven days to complete the well. Completion will start about one month after the spud and will include hydraulic fracturing. Drilling and completion will occur only during day light. A temporary fence will enclose the well site during drilling and completion. A security guard will be posted after hours during drilling and completion.

Surface Use Plan

1. DIRECTIONS & EXISTING ROADS (See Pages 11 & 12)

From the junction of NM 170 and Piñon Hills Boulevard ...
Go East 5 miles on Piñon Hills Boulevard
Then turn left and go Northeast 1/3 mile on College Boulevard
Then turn left and go West 1/2 mile on Lions Trail
Then turn right and go North directly onto the proposed well site

Roads will be maintained to a standard at least equal to their present condition. Care will be taken in maintaining Lions Trail since it is on top of a Williams gas pipeline.

2. ROAD TO BE BUILT OR UPGRADED (See Pages 13 & 14)

About 27' of new road will be built with a 14' wide running surface. Maximum grade is 7%. Maximum disturbed width will be 25'. A minimum 18" x 20' CMP culvert will be installed at the entrance to the pad. No fence is crossed. No turn out is needed.

3. EXISTING WELLS

There are twenty-eight oil or gas wells (see PAGE 12) within a mile radius according to NM Oil Conservation Division records in Santa Fe. There are 15 water wells within a mile according NM Office of the State Engineer records. There are no injection wells within a mile.

EXHIBIT A

4. PROPOSED PRODUCTION FACILITIES (see PAGE 15)

A ≈60 barrel fiberglass open top tank, two ≈300 barrel steel tanks, ≈105 hp compressor, 3' x 10' skid mounted meter run, and two 5' x 7' x 6' high separators will be installed on the pad. The compressor will be housed in a 19' x 36' x 12' building to meet City noise abatement rules. Some of the equipment will be shared with the #201 well. All surface equipment will be painted a flat juniper green color.

MarkWest's pipelines (all on the pad) will be steel (wall thickness = 0.216") and buried at least 36" deep. Maximum operating pressure = 300 psi. Test pressure = 1,600 psi. Test media = fresh water (dispose in the reserve pit). Williams Field Services will acquire the right-of-way for its buried steel gas line. (Williams' closest line is ≈23' south of the south edge of the pad and on the same lot.) A locked gate and ≥6' high chain link fence with privacy strips will surround the well site after it is completed.

5. WATER SUPPLY

Water will be trucked from an existing private source.

6. CONSTRUCTION MATERIALS & METHODS

NM One Call (1-800-321-ALERT) and BLM will be notified before construction starts. The southwest corner of the pad will be rounded to reduce the height of the cut. The top 6" of soil will be stockpiled north of the pad. Trees will be "walked down" on fill slopes or set aside for firewood. A diversion ditch will be cut at the bottom of the slope on the south side of the pad. A ≥12 mil plastic liner will be installed in the reserve pit. The pit will be fenced sheep tight on 3 sides with woven wire fence topped with barbed wire. The fourth side will be fenced once the rig moves off.

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

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

9. WELL SITE LAYOUT

See Pages 13 and 14 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 back filled. The pad and filled pit will be contoured to a natural appearance and disturbed areas ripped or harrowed. BLM "down south" (aka, dry or low mix or mix #2) seed mix (below) will be drilled at a depth and time to be determined by BLM.

4 pounds per acre western wheatgrass
2-1/2 pounds per acre Indian ricegrass
1-1/2 pound per acre blue grama grass
0.1 pound pr acre antelope bitter brush
1/4 pound per acre four wing salt bush
1 pound per acre small burnet

EXHIBIT A

MarkWest Resources, Inc.
Las Colinas #101
2150' FSL & 1470' FEL
Sec. 26, T. 30 N., R. 13 W.
San Juan County, New Mexico

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If broadcast, the rate will be increased as determined by BLM. 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 work overs will be reclaimed as previously described.

11. SURFACE OWNER

All construction will occur on private land which MarkWest is in the process of purchasing.

12. OTHER INFORMATION

The nearest hospital is a 15 minute drive away in southwest Farmington.

Archaeology report CASA 02-133 was filed on November 22, 2002.

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 representatives during drilling will be:

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PROVIDING PERMITS for LAND USERS

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Las Colinas #101
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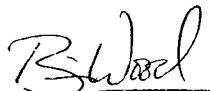
Mike Pippin or Mike Confer
3104 N. Sullivan (505) 330-2202
Farmington, NM 87401
(505) 327-4573
Cellular: (505) 330-0495

Field representatives during production will be:

Rex Lancaster or Tap Harris
519 E. Animas St. (505) 320-3916
Farmington, NM 87401
(505) 325-1922
Cellular: (505) 320-3075

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

December 15, 2002
Date

PERMITS WEST INC.
PROVIDING PERMITS for LAND USERS

EXHIBIT
A

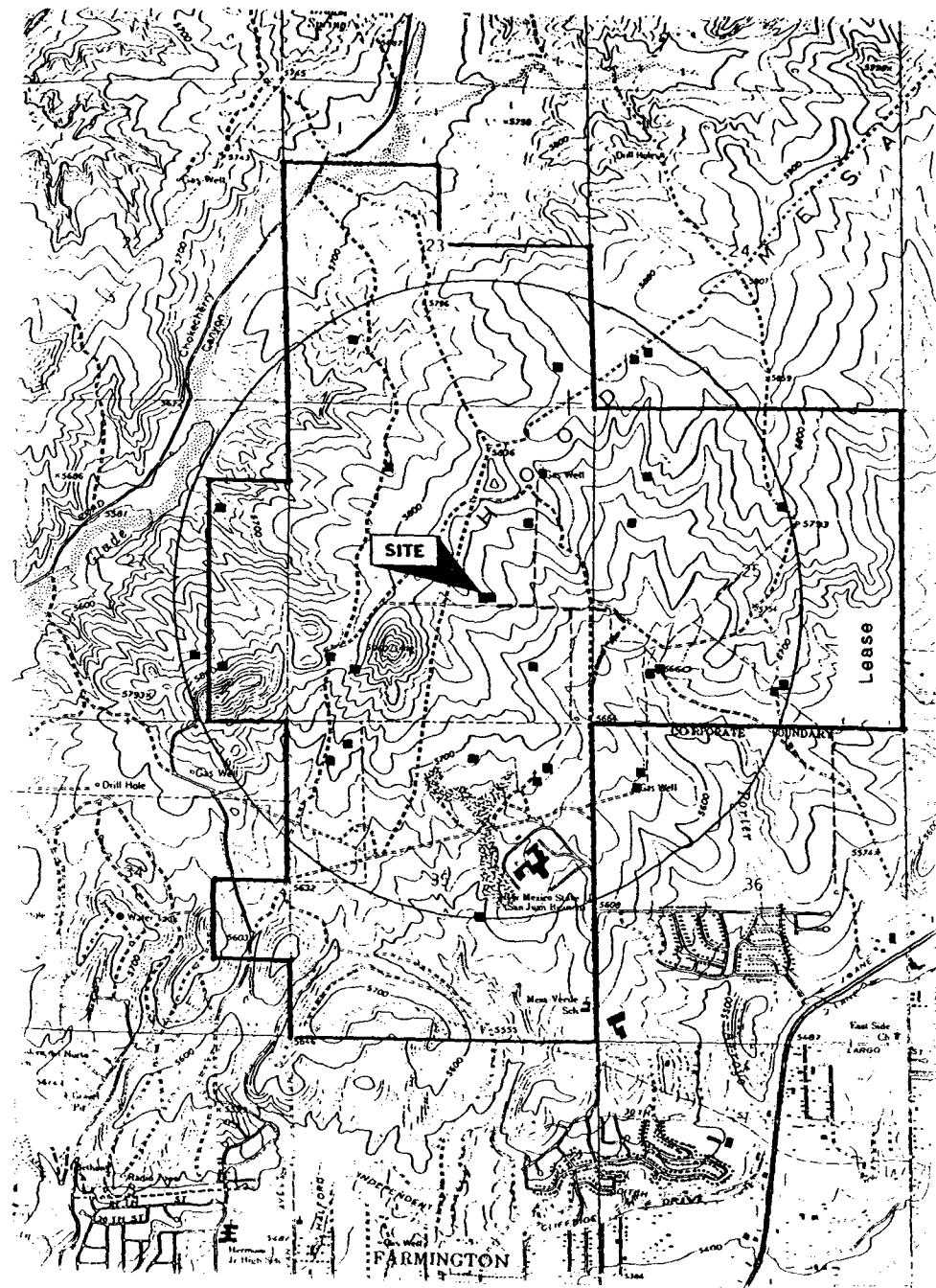
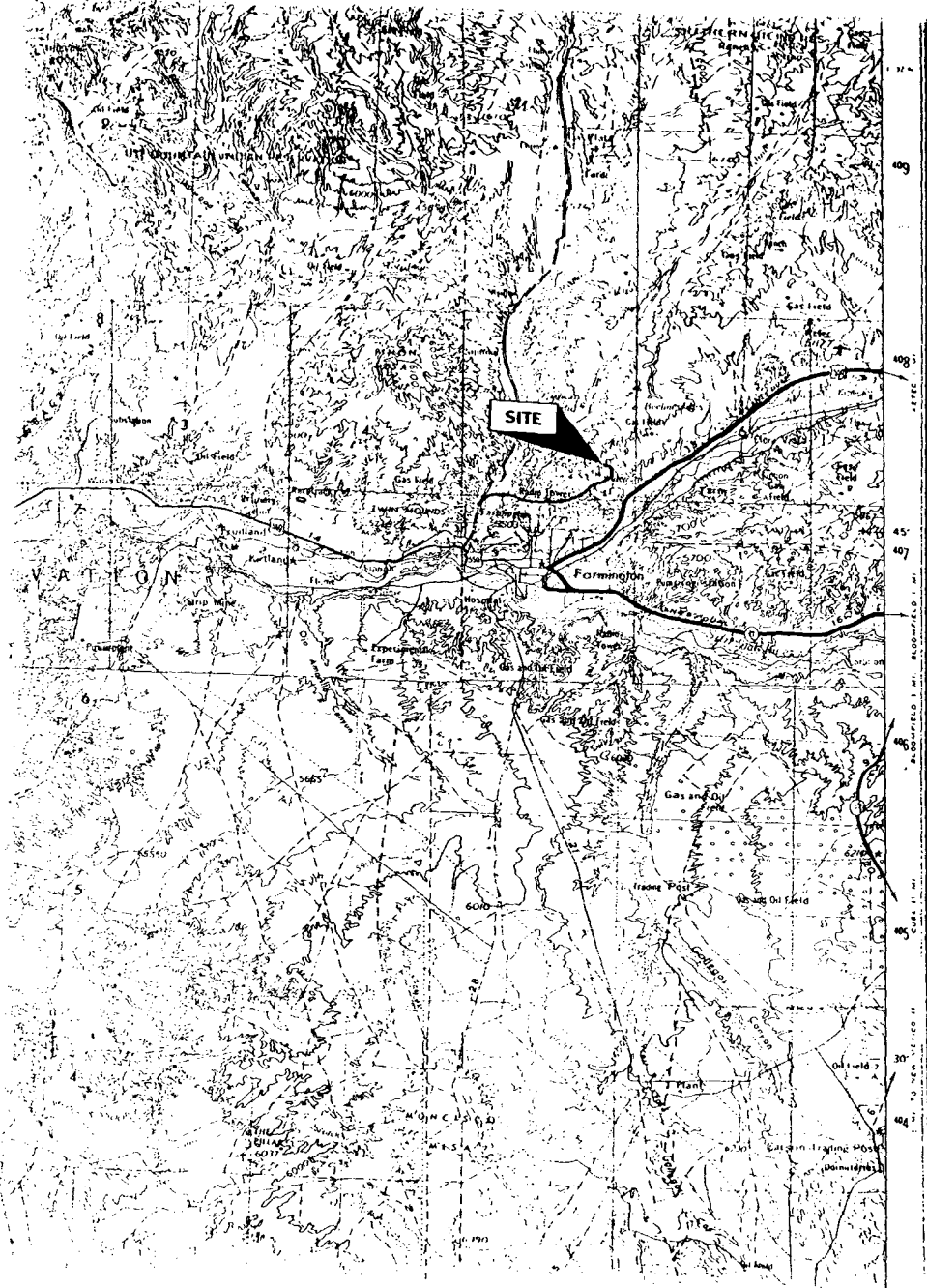
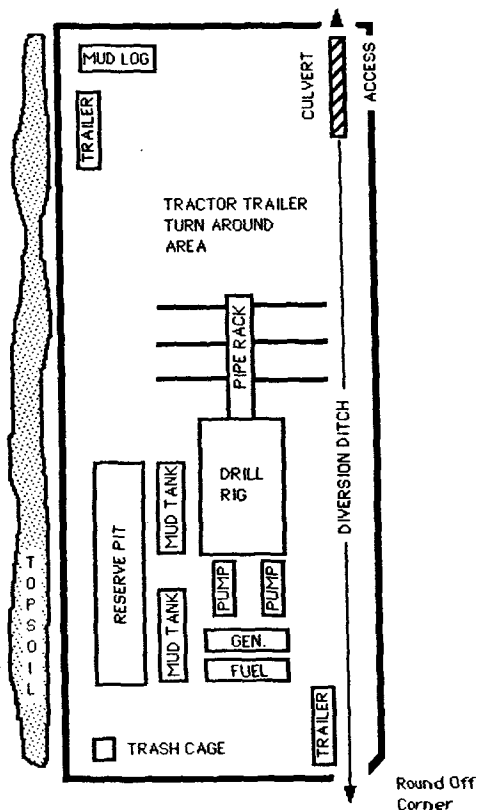


EXHIBIT A

MarkWest Resources, Inc.
 Las Colinas #101
 2150' FSL & 1470' FEL
 Sec. 26, T. 30 N., R. 13 W.
 San Juan County, New Mexico

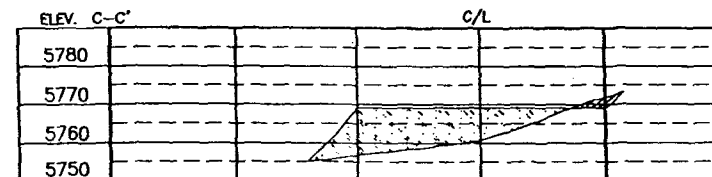
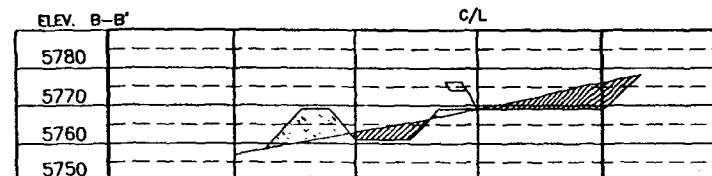
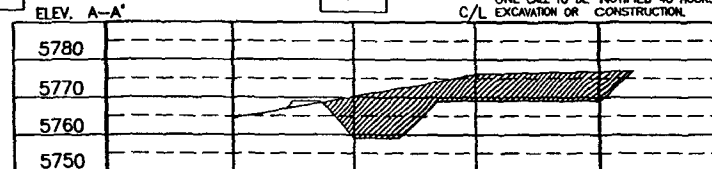
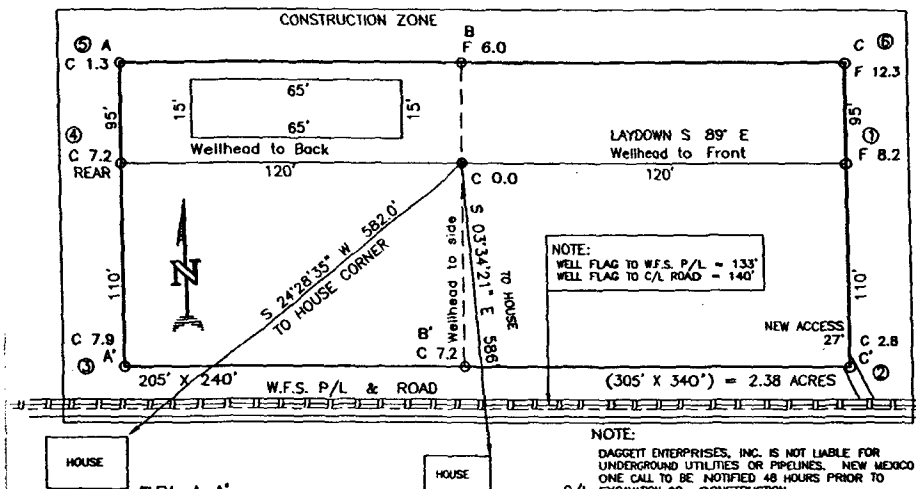
PAGE 13

1" = 40'
 NORTH



PERMITTS WEST INC.
 PROVIDING PERMITS for LAND USERS

MARKWEST RESOURCES, INC.
 LAS COLINAS No. 101, 2150' FSL 1470' FEL
 SECTION 26, T.30N, R.13W, N.M.P.M., SAN JUAN COUNTY, N. M.
 GROUND ELEVATION: 5769', DATE: OCTOBER 21, 2002



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

DRAWN BY: A.G. ROW#: MW061 CADFILE: MW061CFB DATE: 10/25/02

Daggett Enterprises, Inc.
 Surveying and Oil Field Services
 P. O. Box 15068 Farmington, NM 87401
 Phone (505) 328-1772 Fax (505) 328-8019

REVISED: ADD DISTANCE TO CLOSEST HOUSE BY: B.L. DATE: 11/21/02

EXHIBIT

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

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

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-	Pool Code 77200	Pool Name FULCHER KUTZ PICTURED CLIFFS
Property Code .	Property Name LAS COLINAS	Well Number 101
OGED No. 193195	Operator Name MARKWEST RESOURCES, INC.	Elevation 5769'



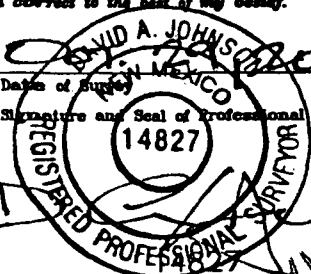
¹⁰ Surface Location

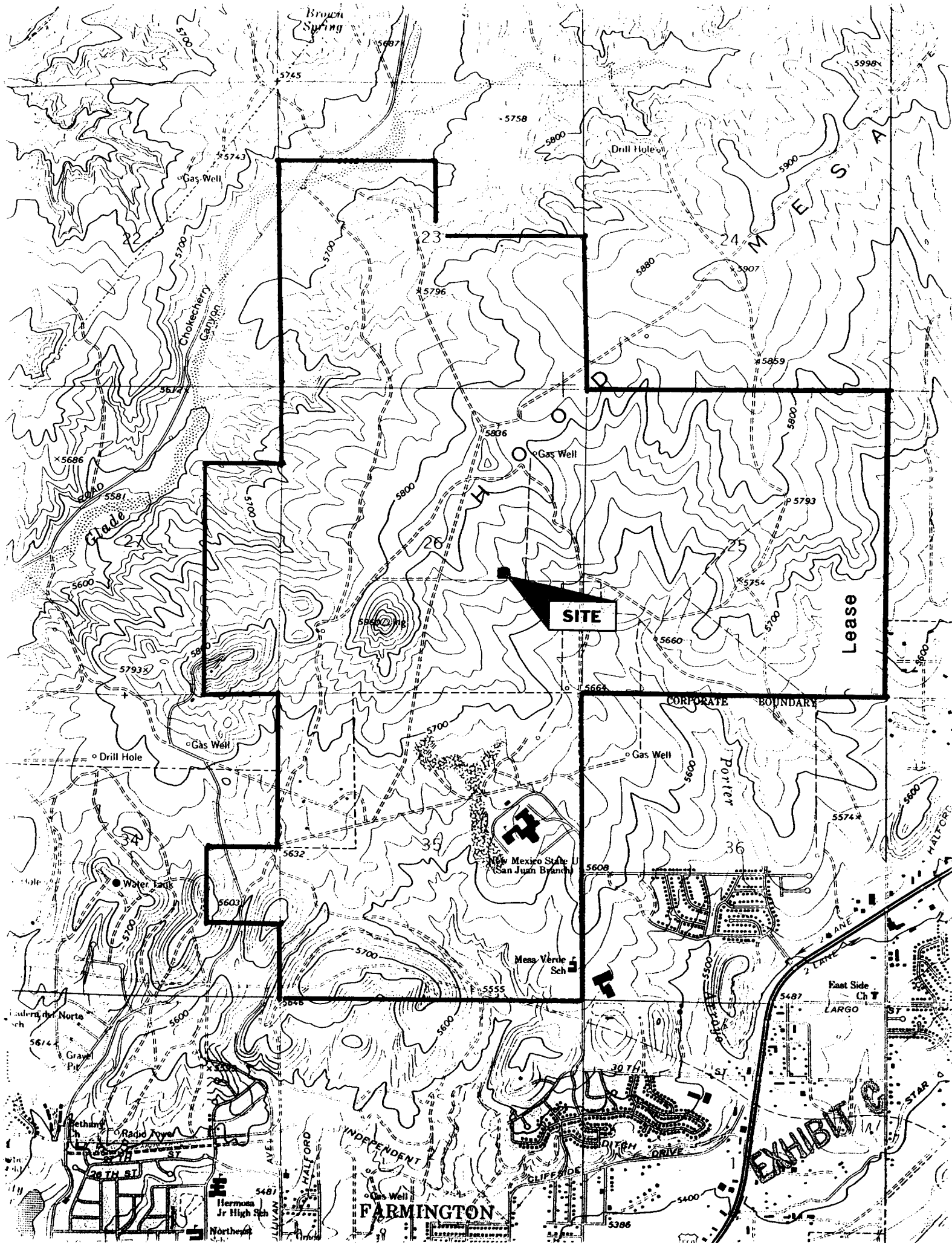
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	26	30-N	13-W		2150'	SOUTH	1470'	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

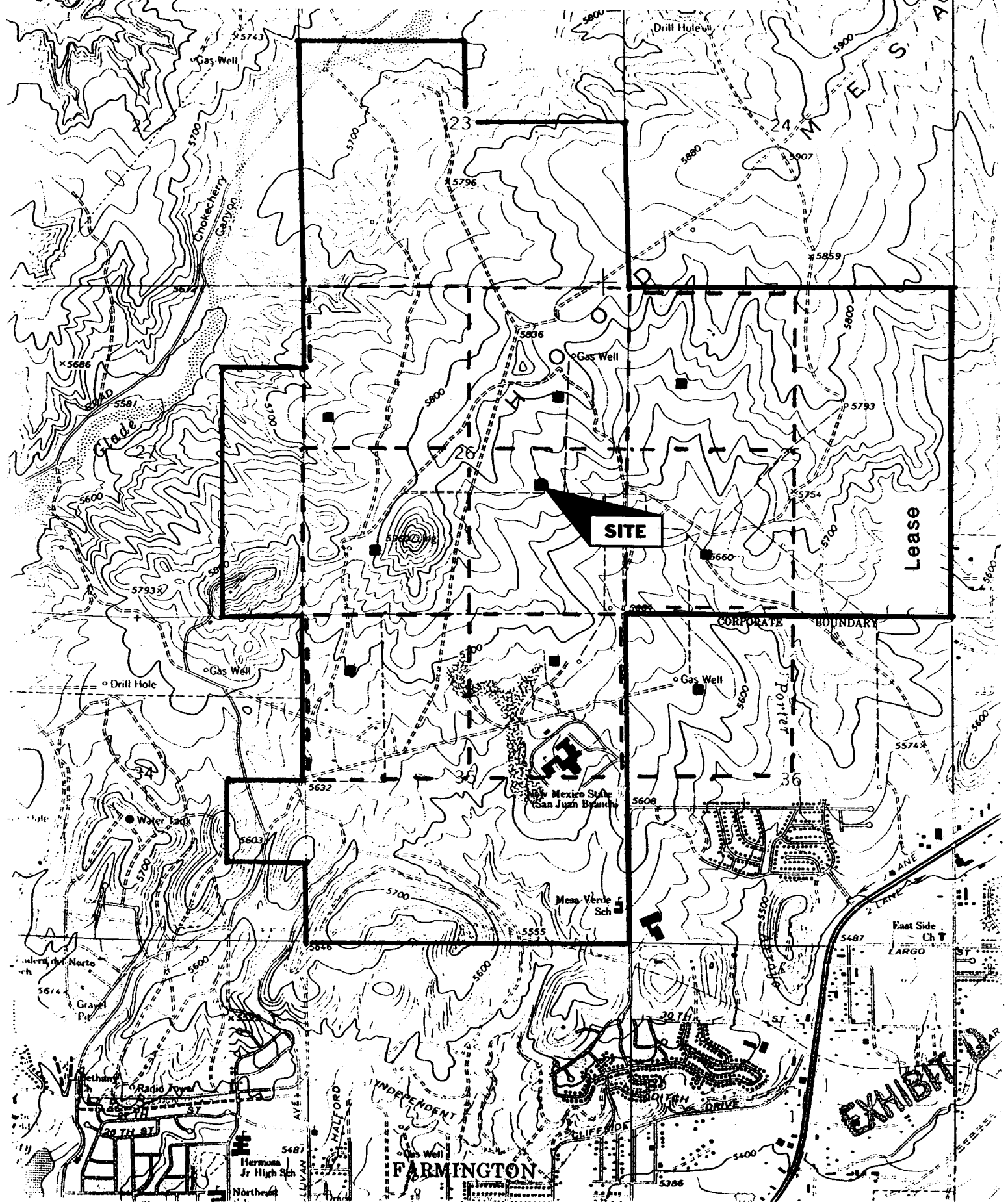
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 160			Joint or Infill		Consolidation Code		Order No.		

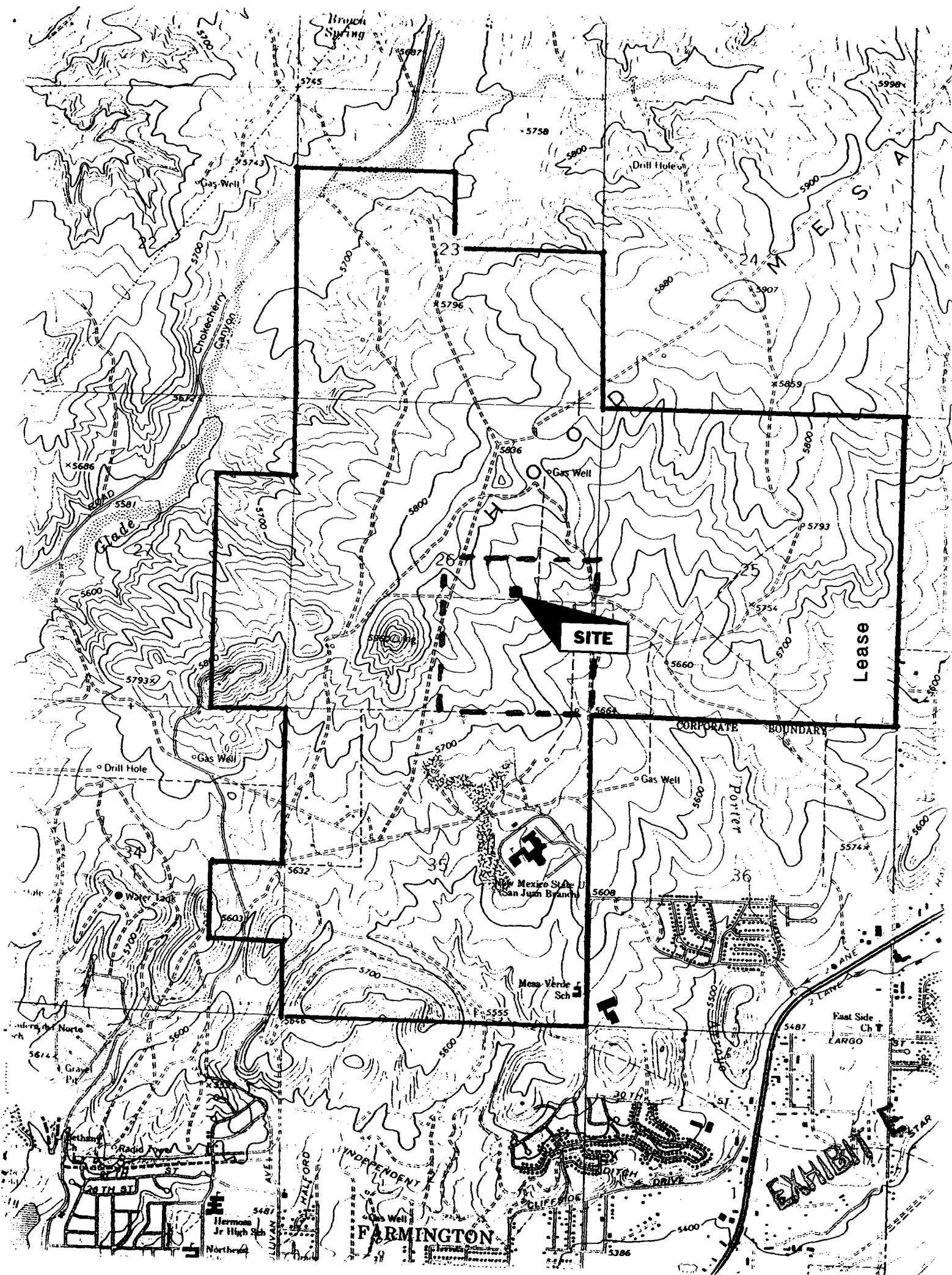
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> <div></div>	<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div></div> <div>Signature</div> <div>Printed Name BRIAN WOOD</div> <div>Title CONSULTANT</div> <div>Date DEC. 15, 2002</div>
<div><div>26</div><div>LAT. 36°46'58"N LONG. 108°10'16"W</div><div>FD 3 1/4" B.L.M. BC 1952</div><div>S 89-35-57 W 2629.9' (M)</div></div> <div><div>1160'</div><div>498'</div><div>155'</div><div>1470'</div><div>826'</div><div>2150'</div><div>FD 3 1/4" B.L.M. BC 1952</div></div> <div><div>N 01-05-58 E 2648.1' (M)</div><div>FD 3 1/4" B.L.M. BC 1952</div></div>	<div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div></div> <div>Date of Survey DEC 15 2002</div> <div>Signature and Seal of Professional Surveyor: </div> <div>Certificate Number</div> <div>EXHIBIT B</div>



PC Wells & Acreage Dedications





PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Robert L. Bayless, Producer LLC
P. O. Box 168
Farmington, NM 87499

Dear Tucker,

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.

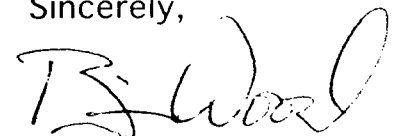
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Well Name: Las Colinas #101 Total Depth: 1,900'
Proposed NSL Producing Zone: Fulcher Kutz Pictured Cliffs gas
NSL Acreage Dedication: 160.00 ac. (SE4 Sec. 26)
Location: 2150' FSL & 1470' FEL Sec. 26, T. 30 N., R. 13 W.,
San Juan County, NM on Federal lease NMSF-078213
Approximate Location: north side of Farmington, NM
Applicant Name: MarkWest Resources, Inc. (303) 290-8700
Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: An application for a non-standard location is being 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 Drive, Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT E

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Benson-Montin-Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Dear Al,

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 Las Colinas #101 well. The minimum state distance for a Pictured Cliffs gas well is 660' from a quarter section line and 1320' from another Pictured Cliffs well. The proposed well is 490' from the quarter section line. Thus, it is NSL. The NSL is due to using topography (see attached map) to try and shield the well from neighbors.

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

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Please call me if you have any questions.

Sincerely,

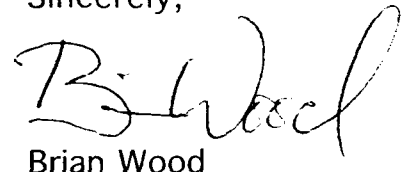

Brian Wood

EXHIBIT 5

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Roger Herrera
BLM
1235 LaPlata Highway
Farmington, NM 87401

Dear Roger,

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.

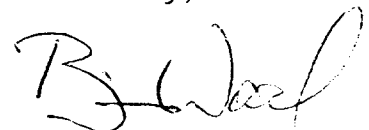
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Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT E

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

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.

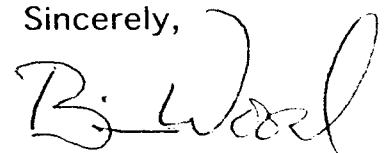
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Submittal Information: An application for a non-standard location is being filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Drive, Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT 5

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Jerry Sullivan
Calpine Natural Gas LP
1200 17th St., Suite 770
Denver, Co. 80202

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.

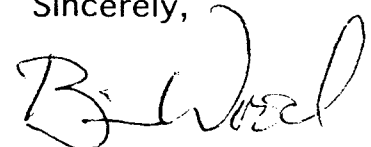
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Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT E

PERMITS WEST. INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

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

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.

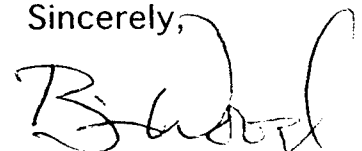
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Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT E

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Steve Dunn
610 Reilly Ave.
Farmington, NM 87401

Dear Steve,

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 Las Colinas #101 well. The minimum state distance for a Pictured Cliffs gas well is 660' from a quarter section line and 1320' from another Pictured Cliffs well. The proposed well is 490' from the quarter section line. Thus, it is NSL. The NSL is due to using topography (see attached map) to try and shield the well from neighbors.

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

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Please call me if you have any questions.

Sincerely,

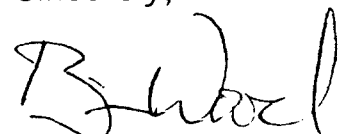

Brian Wood

EXHIBIT F

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Energen Resources Corp.
2198 Bloomfield Highway.
Farmington, NM 87401-8108

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.

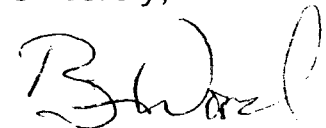
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Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT 1

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

J & R Merrion Trust
610 Reilly Ave.
Farmington, NM 87401

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.

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

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Please call me if you have any questions.

Sincerely,



Brian Wood

EX-100-11

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Greg T. Merrion
610 Reilly Ave.
Farmington, NM 87401

Dear Mr. Merrion:

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.

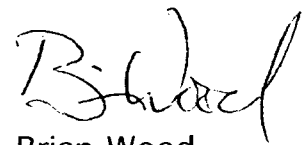
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Approximate Location: north side of Farmington, NM
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Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: An application for a non-standard location is being 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 Drive, Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT F.

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Michael K. Merrion
610 Reilly Ave.
Farmington, NM 87401

Dear Mr. Merrion:

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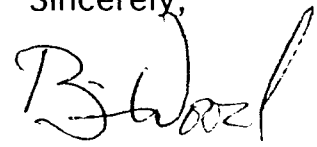
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Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: An application for a non-standard location is being 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 Drive, Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT F

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
17 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Merrion Oil & Gas Corp.
610 Reilly Ave.
Farmington, NM 87401

Dear Connie,

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.

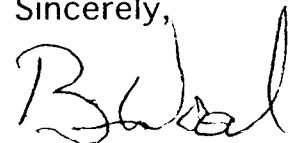
MarkWest Resources, Inc. is applying to drill its Las Colinas #101 well. The minimum state distance for a Pictured Cliffs gas well is 660' from a quarter section line and 1320' from another Pictured Cliffs well. The proposed well is 490' from the quarter section line. Thus, it is NSL. The NSL is due to using topography (see attached map) to try and shield the well from neighbors.

Well Name: Las Colinas #101 Total Depth: 1,900'
Proposed NSL Producing Zone: Fulcher Kutz Pictured Cliffs gas
NSL Acreage Dedication: 160.00 ac. (SE4 Sec. 26)
Location: 2150' FSL & 1470' FEL Sec. 26, T. 30 N., R. 13 W.,
San Juan County, NM on Federal lease NMSF-078213
Approximate Location: north side of Farmington, NM
Applicant Name: MarkWest Resources, Inc. (303) 290-8700
Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: An application for a non-standard location is being 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 Drive, Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT 1

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

Providence Minerals LLC
14860 Montfort Dr., #209
Dallas, Tx. 75254

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.

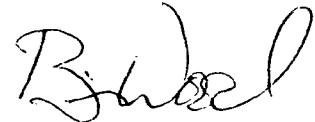
MarkWest Resources, Inc. is applying to drill its Las Colinas #101 well. The minimum state distance for a Pictured Cliffs gas well is 660' from a quarter section line and 1320' from another Pictured Cliffs well. The proposed well is 490' from the quarter section line. Thus, it is NSL. The NSL is due to using topography (see attached map) to try and shield the well from neighbors.

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Approximate Location: north side of Farmington, NM
Applicant Name: MarkWest Resources, Inc. (303) 290-8700
Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: An application for a non-standard location is being 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 Drive, Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT F

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

January 27, 2003

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.

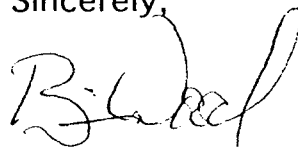
MarkWest Resources, Inc. is applying to drill its Las Colinas #101 well. The minimum state distance for a Pictured Cliffs gas well is 660' from a quarter section line and 1320' from another Pictured Cliffs well. The proposed well is 490' from the quarter section line. Thus, it is NSL. The NSL is due to using topography (see attached map) to try and shield the well from neighbors.

Well Name: Las Colinas #101 Total Depth: 1,900'
Proposed NSL Producing Zone: Fulcher Kutz Pictured Cliffs gas
NSL Acreage Dedication: 160.00 ac. (SE4 Sec. 26)
Location: 2150' FSL & 1470' FEL Sec. 26, T. 30 N., R. 13 W.,
San Juan County, NM on Federal lease NMSF-078213
Approximate Location: north side of Farmington, NM
Applicant Name: MarkWest Resources, Inc. (303) 290-8700
Applicant's Address: 155 Inverness Dr. W, Suite 200, Englewood, Co. 80112

Submittal Information: An application for a non-standard location is being 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 Drive, Santa Fe, NM 87505. Their phone number is (505) 476-3440.

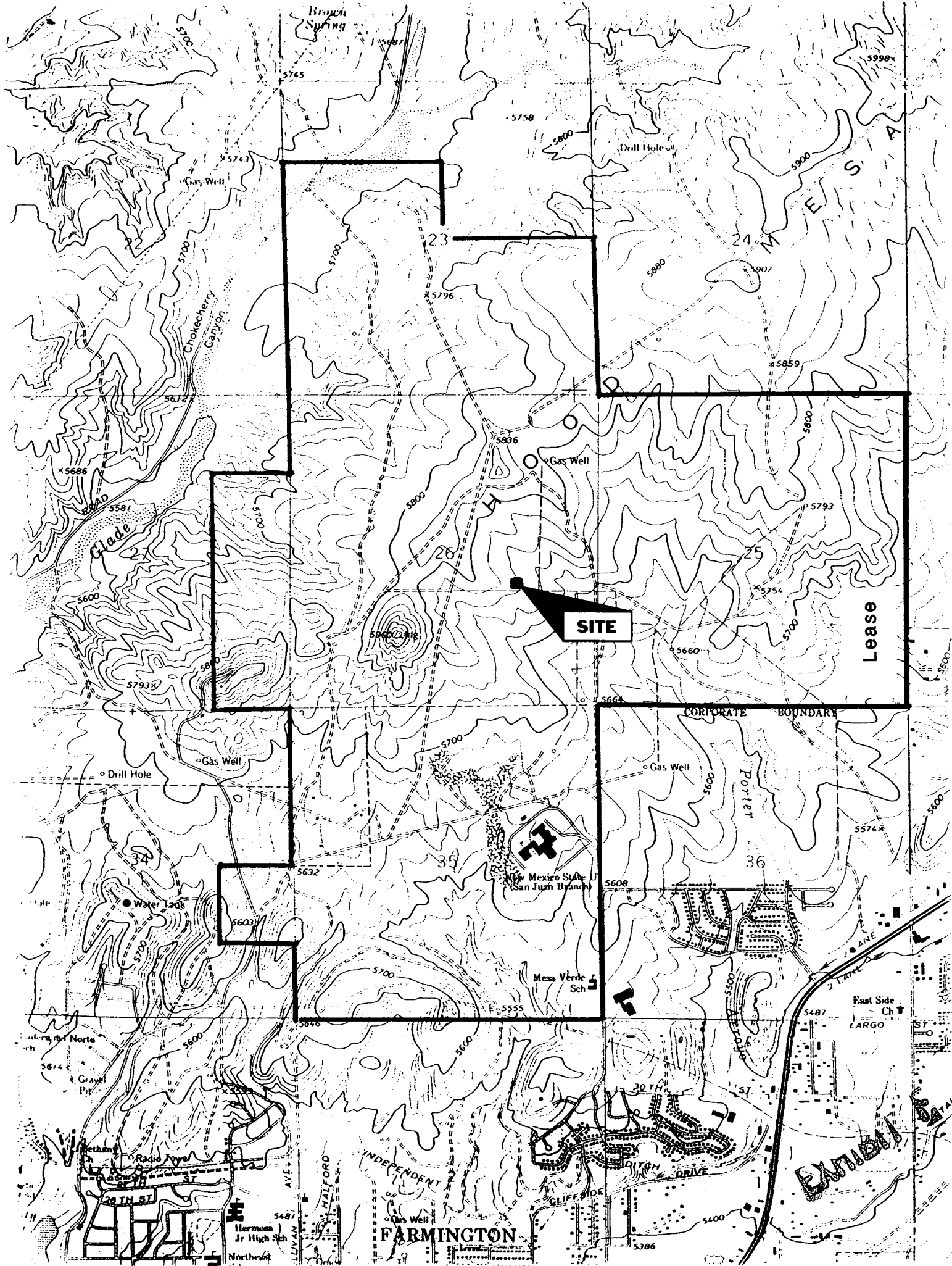
Please call me if you have any questions.

Sincerely,



Brian Wood

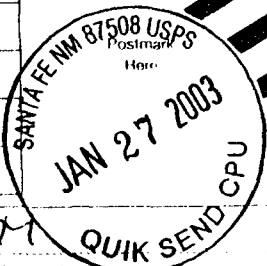
EXHIBIT F



CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postage \$ 60
Certified Fee 2.30
Return Receipt Fee (Endorsement Required) 1.75
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$ 4.65

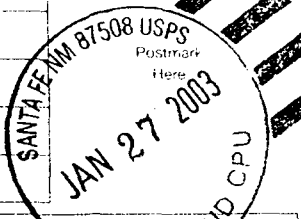


Sent to BLM
Street, Apt. No., or PO Box No. 1235 La Bata Hwy
City, State, ZIP+4 Farm NM 87401
PS Form 3800, May 2000 See Reverse for Instructions

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

Postage \$
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$ 4.88

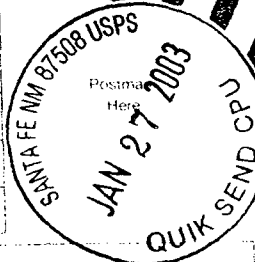


Sent to Burlington
Street, Apt. No., or PO Box No. PO Box 4289
City, State, ZIP+4 Farm NM 87499
PS Form 3800, May 2000 See Reverse for Instructions

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

Postage \$
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$ 4.88

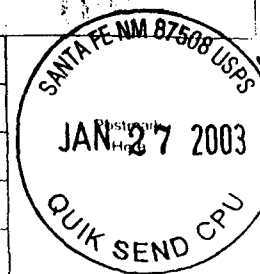


Sent to Calpine
Street, Apt. No., or PO Box No. 1200 17th St. #770
City, State, ZIP+4 Denver CO 80202
PS Form 3800, May 2000 See Reverse for Instructions

CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postage \$.83
Certified Fee 2.30
Return Receipt Fee (Endorsement Required) 1.75
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$ 4.88

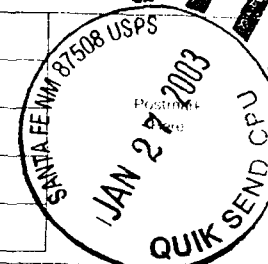


Sent to Bayless
Street, Apt. No., or PO Box No. PO Box 168
City, State, ZIP+4 Farm NM 87499
PS Form 3800, May 2000 See Reverse for Instructions

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

Postage \$
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$ 4.88



Sent to BMG
Street, Apt. No., or PO Box No. 4900 Cerey Blvd
City, State, ZIP+4 Farm NM 87499
PS Form 3800, May 2000 See Reverse for Instructions

EXHIBIT F

7557 5356 0012 1670 7000

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

Postage	\$ 2.42
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	1.75
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.47

Sent To: Dennis Morrison
Street, Apt. No., or PO Box No.: 610 Kelly Ave.
City, State, ZIP+4: Farm. NM 87401

PS Form 3800, May 2000 See Reverse for Instructions

7578 5356 0012 1670 7000

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

OFFICIAL U.S. MAIL

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.75

Sent To: Canace Phillips
Street, Apt. No., or PO Box No.: 600 N. Daisy Ash
City, State, ZIP+4: Houston TX 77079

PS Form 3800, May 2000 See Reverse for Instructions

7530 5356 0012 1670 7000

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

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.75

Sent To: Providence Minerals
Street, Apt. No., or PO Box No.: H860 Montfort #209
City, State, ZIP+4: Dallas TX 75254

PS Form 3800, May 2000 See Reverse for Instructions

7547 5356 0012 1670 7000

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

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.75

Sent To: Energizer
Street, Apt. No., or PO Box No.: 2198 Bloomfield
City, State, ZIP+4: Farm. NM 87401

PS Form 3800, May 2000 See Reverse for Instructions

7554 5356 0012 1670 7000

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

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.75

Sent To: Questar
Street, Apt. No., or PO Box No.: 1331 17th St., # 800
City, State, ZIP+4: Denver CO 80202

PS Form 3800, May 2000 See Reverse for Instructions

EXHIBIT F