UNITED STATES

DEPARTMENT	OF	THE	INTERIOR	
BUREAU OF L				

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM	APPRO	VED
OMB ?	No. 1004-	0137
Expires	March 3	1, 200

5. Lease Serial No.

6. If Indian, Allotee	or Tribe Name
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·				
la. Type of work: DRILL REENT	ER , 3	5709	7 If Unit or CA Agree	ement, Name and No.
			8. Lease Name and V	Vell No.
lb. Type of Well: Oil Well Gas Well Other	✓ Single Zone	Multiple Zone	Dublin Federal	
2. Name of Operator Marshall & Winston, Inc. (14187)			9. API Well No. 30-015-	34879
3a Address	3b. Phone No. finclude area co	ode)	10. Field and Pool, or E	
P.O. Box 50880, Midland, TX 797010-0880	432 684-6373	76140	Dublin Ranch,	•
4. Location of Well (Report location clearly and in accordance with a	ny State requirements.*) REC	EIVED	11. Sec., T. R. M. or Bl	k. and Survey or Area
At surface 660' FSL & 1980' FEL (O)				
At proposed prod. zone		1 7 2006	Sec 23, T22S, F	228E
4. Distance in miles and direction from nearest town or post office*	- White	MATERIA	12. County or Parish	13. State
10 miles SE from Carlsbad, New Mexico	,		Eddy	NM
5 Distance from proposed* location to nearest	16. No. of acres in lease	17. Spacin	g Unit dedicated to this w	ell
property or lease line, ft. (Also to nearest drig. unit line, if any)	320 acres	320 a	cres	
8. Distance from proposed location*	19. Proposed Depth 20. BLM/B		BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.	13,500'	NM 0	877	
Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work w	rill start*	23. Estimated duration	
3161'	06/15/2006		5 40 days	
€ w	24. Attachments			,
he following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, shal	l be attached to th	is form:	
Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to co		ns unless covered by an e	existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest System	Lands, the 5. Operator c	ertification		
SUPO shall be filed with the appro priate Forest Service Office).			ormation and/or plans as i	nay be required by the
25. Signature	Name (Printed/Typed) Ann E. Ritchie	(432-684-6381)	i -	Date 03/28/2006
itle Regulatory Agent				
Approved by (Signature) /S/ Russell E. Sorensen	Name (Printed/Typed)	sell E. So	rensen	Date MAY 1 6 2
CTING FIELD MANAGER	Office CARLS	BAD FIE	LD OFFICI	
application approval does not warrant or certify that the applicant hold	s legal or equitable title to those			
onduct operations thereon. Conditions of approval, if any, are attached.		APP	ROVAL FO	R 1 YEAR

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.

*(Instructions on page 2)

Witness Surface Casing

Cartabod Controlled Water Bank

APPROVAL SUBJECT TO General requirements and Special stipulations ATTACHED

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA FR, NM 87505 Pool Name Pool Code API Number Dublin Ranch; Morrow 30-015-76140

Property Code Property Name Well Number **DUBLIN FEDERAL 23** 1 Operator Name Elevation OGRID No. MARSHALL & WINSTON, INC. 3161 14187

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	22-S	28-E		660	SOUTH	1980	EAST	EDDY

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	Rast/West line	County
Dedicated Acres	Joint or	Infill Co	nsolidation (Code Ore	der 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

		PERATOR CERTIFICATION
	my orga or u inch	I hereby certify that the information in is true and complete to the best of knowledge and belief, and that this nization either owns a working interest nleased mineral interest in the land uding the proposed bottom hole location as a right to drill this well at this tion pursuant to a contract with an
	or to comp	or of such mineral or working interest, or a voluntary pooling agreement or a pulsory pooling order heretofore entered the division.
GEODETIC COORDINATES NAD 27 NME Y=499412.3 N	Sign And Prin	nature Date on E. Ritchie Agent ated Name
X=585699.9 E LAT.=32*22*21.70" N LONG.=104*03*20.70" W	show note: unde	URVEYOR CERTIFICATION I hereby certify that the well location in an this plat was plotted from field of actual surveys made by me or ir my supervision, and that the same is and correct to the best of my belief.
3166.1' 3174.6' [Sign	FEBRUARY 13, 2006 Surveyed DSR ature & Seal of cessional Surveyor
3166.1' 3174.6' 198 000' 1 198 3147.1' 3160.0' 2		Bay & Elm 2/2/106 06.11.0291 Ificate No. GARY EIDSON 12641

Thirteen Point Plan for Surface Use (Additional data for form 3160-3)

Marshall & Winston, Inc. (14187)

Dublin Federal 23, Well #1

660' FSL & 1980' FEL

Section 23, T22S, R28E, Unit Ltr O, Eddy County, NM

Dublin Ranch; Morrow - gas

NM 069157

1. EXISTING ROADS - VICINITY MAP, Topographic Land Surveyors

The road log to the location is as follows:

From the intersection of St. Hwy #31 and CR 606 (U.S. Refinery Rd.), go northwest on CR #606 approximately 3.5 miles. Turn right and go NE approximately 0.5 miles where road bends left. Continue NE approximately 0.8 miles. Turn left and go North approximately 0.2 miles. Turn right and go NE 0.2 miles to a road survey on the left. Follow road survey North approximately 1700' to the location.

- PLANNED ACCESS ROAD —Approximately 1700' of new N-S access road will be built from the existing SW-NE main caliche road to the south. All lease roads will be graded in compliance with BLM standards and made a uniform width of 20', including shoulders.
- 3. LOCATION OF EXISTING WELLS There are no existing wells in Section 23.
- 4. LOCATION OF EXISTING OR PROPOSED FACILITIES This well will require new production facilities to be located on the drilling pad. A 4" steel 5000 psi gas flow line, with maximum of 600 psi operating pressures, will be buried and run sough parallel to the proposed access road to the Duke gas line.
- 5. LOCATION AND TYPE OF WATER SUPPLY All water (fresh or otherwise) needed for the drilling and completion of this well will be purchased from a commercial source and trucked to the location via the existing and proposed access road. No water source wells will be drilled, and no surface water will be utilized.
- 6. SOURCE OF CONSTRUCTION MATERIALS Construction material (caliche) required for the access road and well site pad will be obtained on location, if available, or from an approved pit. No surface materials will be disturbed except those necessary fir actual grading and construction of the drill site and access road.

7. METHODS FOR HANDLING WASTE DISPOSAL –

- Drill cuttings will be disposed of in the reverse pits.
- * Drilling fluids will be allowed to evaporate in the reserve pits until pits are dry.
- The drilling pits will be lined with a 12+mil biodegradable plastic liner, and buried as per regulatory requirements. The pits will be located on the drill site.
- Receptacles for solid wastes (paper, plastic, etc) will be provided and equipped to prevent scattering by wind, animals, etc. This waste will be hauled to an approved landfill site.
- Any other waste generated by the drilling, completion, testing of this well will be removed from the site within 30 days of the completion of drilling or testing operations.
- A Porta-John will be provided for the crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
- ANCILLARY FACILITIES The drilling, completion, and/or testing of this well will require temporary test facilities; any oil produced during completion will be stored in tanks until sold.
- 9. WELLSITE LAYOUT Attached, as "Drilling Pad Layout" is the plat showing the anticipated orientation of the drilling rig and the pad. The approx. 600' x 600' area in which the drill site will be located has been surveyed and flagged. Approximately 5" of topsoil will be stockpiled on the east side of the location for rehabilitation purposes. There will be a 2' cut on the NE with fill to the S/SW. The interior reserve pit diameter is approximately 130 x 135', approximately 8000 bbls. There are no waterways or occupied structures within 1/2 mile radius.
- 10. PLANS FOR SURFACE RESTORATION Reclamation of the surface location will be in accordance with the requirements set forth by the BLM. As stated earlier all waste generated by this operation will be disposed of in an approved manner, and the site restored as closely as possible to its pre-operation appearance. The topsoil at the wellsite & access road is reddish brown colored fine sand. It is of the Kermit soils and dune land soils series. Due to the topography of the area no problems are anticipated in achieving this status and no erosion or other detrimental effects are expected as a result of this operation.

The vegetation at the wellsite is a sparse to fair grass cover of three-awn, grama, bluestem, dropseed, burrograss, muhly and misc. native grasses. Plants are sparse mesquite, yucca, sage, shinnery oak brush, broomweed, and cacti w/misc. weeds. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove and quail all typical of the semi-arid desert land. There are no ponds or streams.

11. OTHER INFORMATION - The surface ownership of the drill site and the access routes are under the control/ownership of: Bureau of Land Management, 620 E. Greene St., Carlsbad, NM 88220, 505-887-6544. Barry Hunt w/the BLM can be reached @ the BLM number or @ 505-361-4078. Drilling contractor: Patterson UTI Drilling: 432 682-9401

Marshall & Winston, Inc. Dublin Federal 23, Well #1 Page 3

Operator's Respresentative:

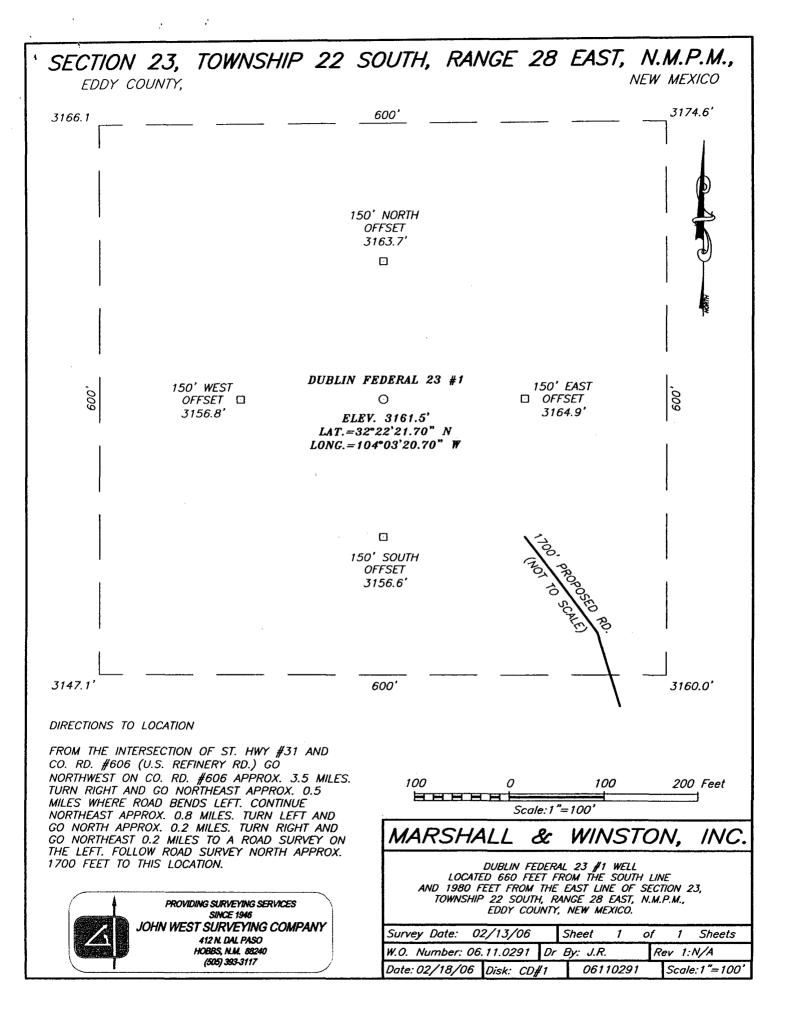
The field representative responsible for assuring compliance with the approved surface use and drilling operations plan is as follows:

Tom Brandt Marshall & Winston, Inc. P.O. Box 50880 Midland, TX 79710-0880 432-684-6373 (office) 432-553-9747 (cell)

Certification:

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

Tom Brandt, Engineer Marshall & Winston, Inc. Date: 3-29-06



Marshall & Winston, Inc.

Dublin Federal 23, Well No. 1 - Orilling Plan -

1. Surface: tan/red and tan/brown/gray, loamy silty sands mixed with caliche and lag gravels.

2. Estimated formation tops:

Total Depth: 13,500'

Salado	450'
Base of Salt	2550'
Lamar Limestone	2780'
Bell Canyon	2830'
Cherry Canyon	3680'
Brushy Canyon	5300'
Bone Spring	6320'
3 rd Bone Spring Sand	9350'
Wolfcamp	9830'
Strawn	11,145'
Atoka	11,570'
Morrow Clastics	12,340'

3. Casing Program:

Hole Size	Casing Size	Weight/Grade	<u>Depth</u>	<u>Cmt</u>
17 ½"	13 3/8"	54.5#/J55	0-400'	550 sx, circ.
12 ¼"	9 5/8"	36#/J55	0-2650'	550 sx, circ.
8 3/4"	7"	23#/N80&P110	0-9950'	1600 sx, circ.
6 1/8"	4 ½"	11.6#/P110	0-13,200'	350 sx 9300' est TOC

4. Mud Program:

	Mud Wt.	<u>Vis</u>	WL Control
0-400' fresh water mud	8.4-8.6 ppg	28-32	No WL control
400'-2650' brine mud	10.0-10.1 ppg	29-32	No WL control
2650'-9950' cut brine mud	8.6-9.2 ppg	29-36	No WL control
9950'-13,200' cut brine mud	8.8-9.5 ppg	34-40	WL 10-15 cc

5. Testing, Logging and Coring Program:

Drill Stem Test: as necessary per sample shows.

Open Hole Logs: 13,200' - 2650' (GR-CAL-CNL-LDT)(GR-CAL-CLL-ML)

2650' - Surface GR/CNL

Coring: Rotary Sidewall Cores per log shows.

- 6. No anticipated H₂S.
- 7. No abnormal pressures or temperatures are anticipated.
- 8. Anticipated start date: June 15, 2006
 Anticipated completion of drilling operations: 40 days

9. Driving Directions:

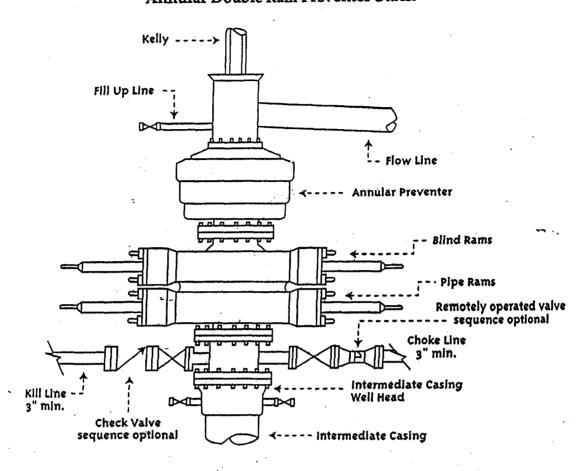
Approximately 2.3 miles east of Carlsbad on Hwy 62/285, turn south on Refinery Road (Eddy Co. Road #605). Follow Refinery Road south for 9.1 miles. Turn left and go 1.7 miles. Turn left on access road for 3/10 mile to location.

BLM Bond File No: NM-0877

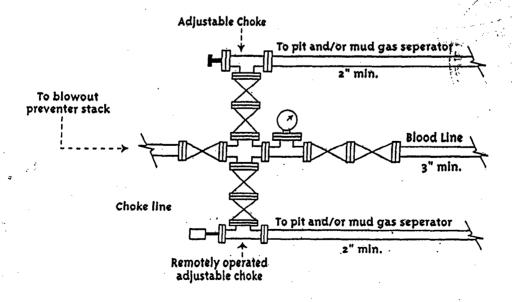
Bond Coverage \$25,000 Statewide Bond



Typical 5,000 psi Pressure System Schematic Annular Double Ram Preventer Stack



Typical 3,000 psi choke manifold assembly with at least these minimum features



March 28, 2006

Oil Conservation Division Attn: Bryan Arrant 1301 Grand Ave. Artesia, NM 88210

RE: Marshall & Winston, Inc., Dublin Federal 23, Well #1; Dublin Ranch, Morrow Pool, Sec 23, T22S, R28E,(O) Eddy County, NM

It is not anticipated that we will encounter any H2S during the drilling or completion of the above referenced well.

We are respectfully requesting an exemption from H2S requirements as per NMOCD Rule 118. The anticipated total depth is 13,500' for this proposed well.

Thank you,

Ann E. Ritchie, Regulatory Agent Marshall & Winston, Inc. c/o P.O. Box 953
Midland, TX 79702
432 684-6381/682-1458-fax
ann.ritchie@wtor.net

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

Marshall & Winston, Inc.

Well Name & No.

Dublin Federal 23 #1

Location: Lease: 660' FSL, 1980' FEL, Section 23, T. T. T. S., R. 28 E., Eddy County, New Mexico

LC-069157

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I. DRILLING OPERATIONS REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:
 - A. Well spud
 - B. Cementing casing: <u>13-3/8</u> inch <u>9-5/8</u> inch <u>7</u> inch <u>5-1/2</u> inch
 - C. BOP tests
- 3. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15-day time frame.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

- 1. The <u>13-3/8</u> inch surface casing shall be set at <u>approximately 400 feet</u> and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the <u>9-5/8</u> inch intermediate casing is <u>to be circulated to the surface</u>.
- 3. The minimum required fill of cement behind the <u>7</u> inch second intermediate casing is <u>to be circulated to the surface</u>.
- 4. The minimum required fill of cement behind the <u>4-1/2</u> inch production casing is <u>to reach at least 500 feet above the top of the uppermost hydrocarbon producing interval</u>.

III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 5000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.

- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- Recording pit level indicator to indicate volume gains and losses.
- Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- Flow-sensor on the flow-line to warn of abnormal mud returns from the well.

4/17/06 acs