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NOV 1 7 2003

OCD-ARTESIA

Oil Cons. N.M. DIV-Dist. 2 1301 W. Grand Avenue Artesia, NM 88210

Form 3160-3

(August 1999)		OMB No. 1 Expires Novem	
UNITED STATES	CEDIOD	5. Lease Serial No.	
DEPARTMENT OF THE INT BUREAU OF LAND MANAGI		NM 100331	
		6. If Indian, Allottee o	r Tribe Name
APPLICATION FOR PERMIT TO DRI	LL OR REENIER	•	
la. Type of Work: DRILL REENTER		7. If Unit or CA Agreer	nent, Name and No.
		8. Lease Name and We	ll No.
lb. Type of Well: Oil Well Kas Well Other	Single Zone Multip	Nateu / re	deral #1
2. Name of Operator	SNappe	9. APLWell No.	- 22101
Matador Operating Company Control			5-33101
/	3b. Phone No. (include area code)	10. Field and Pool, or Ex Burton Flat	
8340 Meadow Road #150	214 987-7128		
4. Location of Well (Report location clearly and in accordance with a At surface 919 FNL & 1650 FWL (Sec.	ny State requirements.*) BC 15 FN	11. Sec., T., R., M., or B	ik. and Survey of Area
1250 ENT C 1650 EUT	(Co. 7 TOIS DO	723 103 7E) Sec. 7, T2	IS ROTE
At proposed prod. zone 1230 FNL & 1630 FWL	(Sec. 7, 1213, K21	Sec. 7, 12	
14. Distance in miles and direction from nearest town or post office*	SUBJECT TO LIKE	12. County or Parish	13. State
4 miles North of Carlsbad	APPROVAL BY STATE	Eddy	NM NM
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacing Unit dedicated to this we	ell
property or lease line, ft. (Also to nearest drig. unit line, if any)	320	320	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft. NA	11475	29403	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will star	t* 23. Estimated duration	
GR: 3204'	8/15/03	CARLSBAD CONTROLLER	WATER BASIN
·	24. Attachments	CARLSBAD CONTROLLES	J 117.2.2.2.2
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be att	ached to this form:	
1. Well plat certified by a registered surveyor.	4. Bond to cover th	ne operations unless covered by an e	xisting bond on file (see
2. A Drilling Plan.	Item 20 above).	•	· ·
3. A Surface Use Plan (if the location is on National Forest System)	Lands, the 5. Operator certification 5. Such other site	ation. specific information and/or plans as	may be required by the
SUPO shall be filed with the appropriate Forest Service Office).	authorized office		
25. Signature	Name (Printed/Typed)	<u> </u>	Date , /
_ Cram	Jim Kramer	1	6/13/03
Title Sr. Drilling Engineer			,
Approved by (Signature) /s/ Joe G. Lara	Name (Printed/Typed)	s/ Joe G. Lara	Date 1 4 NOV 2003
Title FIELD MANAGER	Office C.	ARLSBAD FIELD (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 APPROVAL FOR 1 YEAR operations thereon.

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

*(Instructions on reverse)

APPROVAL SUBJECT TO **GENERAL REQUIREMENTS** AND SPECIAL STIPULATIONS **ATTACHED**

Form 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31, 2004

5.	Lease Serial No.	
	NM10033	

	Y NOTICES AND REP			NMI	0033
	is form for proposals to ell. Use Form 3160-3 (AF			6. If India	an, Allottee or Tribe Name
SUBMIT IN TR	IPLICATE - Other insti	ructions on reverse	sīde	7. If Unit	or CA/Agreement, Name and/or No.
1. Type of Well			,		
· 🔲 Oil Well 💆 Gas Well 🕻	Other				Name and No.
2. Name of Operator					n 7 Federal #1
Tom Brown, Inc.				9. APIW	eii No.
3a. Address	11 and TV 70702	3b. Phone No. (include 432-688-977			
P O Box 2608 Mid					and Pool, or Exploratory Area
	., T., R., M., or Survey Description FNL & 2170' FWL	on)			y or Parish, State
- · · · · · · ·	50 FNL & 1650 FWL				•
Sec 7, T21S, R27				Eddy	County, NM
	PPROPRIATE BOX(ES)	O INDICATE NATU	RE OF NOTICE, R	EPORT, O	R OTHER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION		,
	☐ Acidize	Deepen	Production (Star	t/Resume)	☐ Water Shut-Off
Notice of Intent	Alter Casing	☐ Fracture Treat	Reclamation		☐ Well Integrity
☐ Subsequent Report	Casing Repair	New Construction	☐ Recomplete		A Other Chance
	Change Plans	Plug and Abandon	Temporarily Al	andon	-Surface.
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal		Location
13. Describe Proposed or Complete	ed Operation (clearly state all pe	rtinent details, including esti	mated starting date of a	ny proposed	work and approximate duration thereof

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Request to change surface location to: 1250' FNL and 2170' FWL. The bottom hole location will remain the same: 1250' FNL and 1650' FWL

G. Lara	TIL	ELD M	ANA	GER	Date	1 4	NOV	2003
	Titt	77 70 7 -		-				
HIS SPACE FOR FEDER.								
in fundall.	Date	9	23	03				
)	Title	Opera	ations	Asst/	Tech	l 		
	HIS SPACE FOR FEDER	Title Date	Title Opera	Title Operations Total Date 923	Title Operations Asst	Title Operations Asst/Tech	Title Operations Asst/Tech	Title Operations Asst/Tech

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.

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

State of New Mexico

Form C-102

Revised August 15, 2000

Energy, Minerals, and Natural Resources Department

Submit to Appropriate District Office

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

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

OIL CONSERVATION DIVISION

State Lease - 4 copies Fee Lease - 3 copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	² Pool Code	³ Pool Name	
	73280	Burton Flat Morrow	
Property Code	KAI	⁵ Property Name REN "7" FEDERAL	⁶ Well Number 1
7 0GRID № . 023230	T	OM BROWN, INC.	⁹ Elevation 3199'

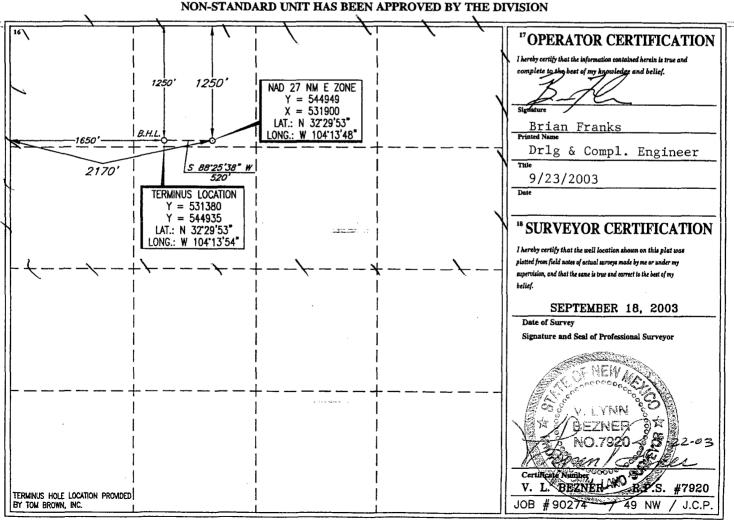
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	7	21 SOUTH	27 EAST, N.M.P.M.		1250'	NORTH	2170'	WEST	EDDY

Bottom Hole Location If Different From Surface

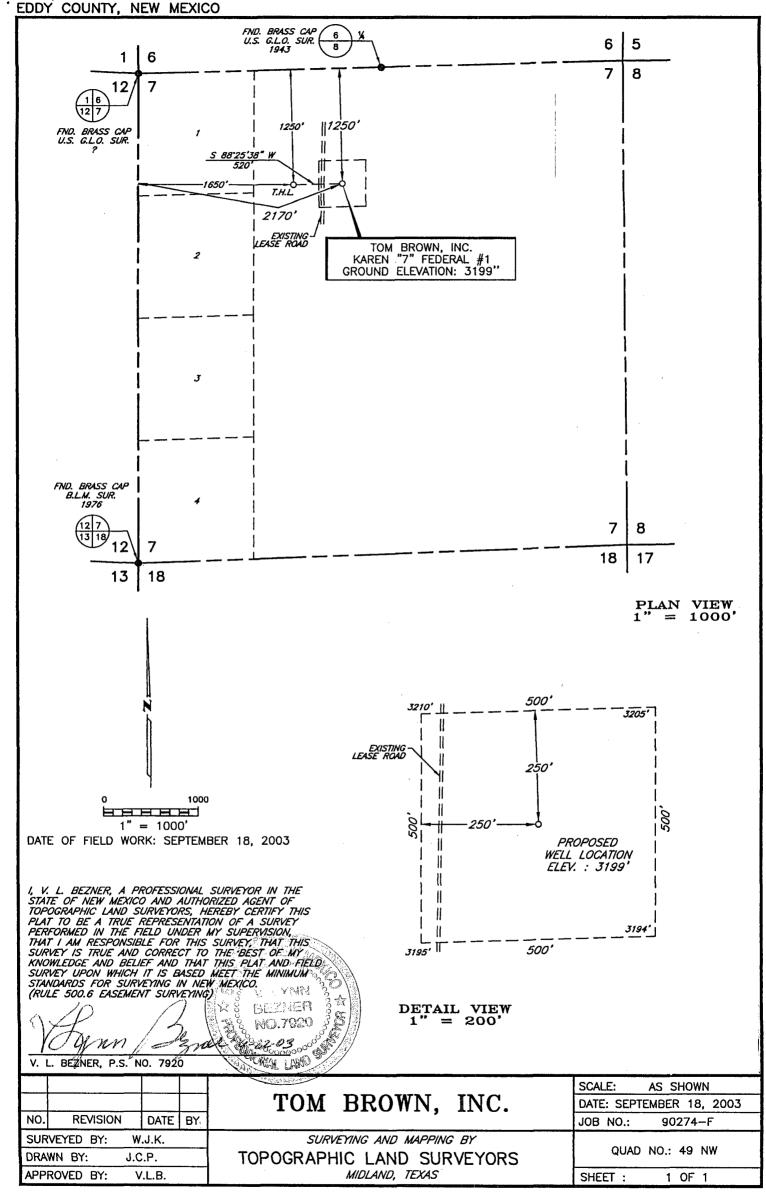
UL or lot no.	Section	Township	Range		Feet from the	North/South line	Feet from the	East/West line	County
C	7	21 SOUTH	27 EAST, N.M.P.M.		1250'	NORTH	1650'	WEST	EDDY
12 Dedicated Acre	12 Dedicated Acres 13 Joint or Infill		¹⁴ Consolidation Code	15 Order N	n,				

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



PLAT SHOWING PROPOSED

WELL LOCATION AND LEASE ROAD IN
SECTION 7, T-21-S, R-27-E, N.M.P.M.



APPLICATION FOR PERMIT TO DRILL

MATADOR OPERATING COMPANY

Karen 7 Federal #1

Surface Location: 919' FNL & 1650' FWL

Sec 7, T21S, R27E

Bottomhole Location: 1250' FNL & 1650' FWL

Sec 7, T21S, R27E Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, Matador Operating Company submits the following items of pertinent information in accordance with Onshore Oil and Gas Order Nos. 1 & 2, and with all other applicable federal and state regulations.

- 1. Geological Name of Surface Formation: Permian
- 2. Estimated Tops of Important Geological Markers:

	MD	TVD	Subsea TVD	
Yates SS	674'	674'	+2530'	
Capitan Reef	772'	772'	+2330	
•	–	–		
Delaware	2375'	2375'	+829'	
Bone Spring	4648'	4648'	-1444'	
1 st Bone Spring SS	6167'	6167'	-2963'	
2 nd Bone Spring SS	6920'	6920°	-3716'	
3 rd Bone Spring SS	8260'	8260'	-5056'	
Wolfcamp Lime	8712'	8712'	-5508'	
KOP (shown for reference)	9200'	9200'		
Strawn	9945'	9941'	-6737'	+
Atoka	10180'	10171'	-6967'	
Morrow Clastics	10940'	10922'	-7718'	*
Barnett Shale	11360'	11334'	-8130'	
PTD	11475'	11450'	-8246'	

^{*} Primary Reservoir Target

⁺ Secondary Reservoir Target

3. Estimated Depth of Anticipated Fresh Water, Oil or Gas:

	MD	TVD	
Upper Permian Sands	0-300'	0-300'	Fresh water*
Strawn	9945'	9941'	Gas **
Morrow	10940'	10922'	Gas

- * Ground water will be protected by 13-3/8" surface casing with cement circulated to surface.
- ** Potentially productive horizons in the 8-3/4" hole section to be protected by the 5-1/2" casing with cement at least 500' above upper most zone.

4. **Proposed Casing Program:**

Hole Size	Interval(MD)	Casing OD	Description
26"	0'-40'	20"	Conductor, if necessary
17-1/2"	0'-600'	13-3/8"	48# H-40, STC New, R-3
12-1/4"	0'-2400'	9-5/8"	36# J-55, STC, New, R-3
8-3/4"	0'-10500'	5-1/2"	17# L-80, LTC, New, R-3
8-3/4"	10500'-11475'	5-1/2"	17# HCP-110, LTC, New, R-3

Proposed Cementing Program:

20" Conductor: Ready-mix poured to surface.

Cement w/275 sx Class "C" Light (12.5 ppg, 2.06 $\rm ft^3/sx$). Tail w/ 200 sx Class "C" + 2% CaCl2 (14.8 13-3/8" Surface Casing:

ppg, $1.32 \text{ ft}^3/\text{sx}$).

Float Equipment: Texas pattern shoe w/ insert float

valve above shoe joint, 4 centralizers.

9-5/8" Intermediate Casing: Cement w/ 450 sx Interfill "C" (11.9 ppg, 2.41

ft³/sx). Tail w/ 200 sx Class "C" +1% CaCl2 (14.8

ppg, $1.32 \text{ ft}^3/\text{sx}$).

Float Equipment: Float shoe w/float collar above

shoe joint, 8 centralizers.

5-1/2" Production Casing:

Cement w/650 sx Super "H" + .04% CFR-3 + 0.5%

Halad-344 + 0.1% HR-7 + 1 pps salt (13.0 ppg,

1.65 ft³/sx). Estimate TOC @ 8500'.

NOTE: If hydrocarbon shows above 8500' are encountered, a DV tool will be installed $@ \pm 8500$ ' to allow a second cement stage to be pumped.

5. Pressure Control Equipment:

The blowout preventer equipment (BOPE) shown in Exhibit D will be utilized for the 12-1/4" and 8-3/4" hole sections as follows:

- 2000 psi WP rating for the 12-1/4" section
- 5000 psi WP rating for the 8-3/4" hole section

The 2M BOPE assembly will consist of a 13-5/8" annular preventer nippled up on the surface casing. The 5M BOPE assembly will consist of a 5000 psi WP double ram-type preventer (4-1/2" pipe and blind rams) and a 5000 psi WP annular preventer (API RP53 Fig. 2c.5), nippled up on the 9-5/8" intermediate casing and used continuously until setting the 5-1/2" casing at total depth of 11475".

BOPE will be tested as follows:

- Prior to drilling out from surface casing- test all BOPE to 1000 psi using rig pump
- Prior to drilling out from 9-5/8" casing test ram-type preventers and choke manifold to 5000 psi and annular to 50% of rated WP using independent tester and test plug.

A rotating head will be installed on top of the annular preventer after setting the 9-5/8" casing $@\pm 2400$ '.

All BOP's will be hydraulically operated. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of hole. The kill line will be 2" minimum and will include a remote connection. The choke line will be 3" minimum. A complete choke manifold schematic is shown in Exhibit E.

NOTE: Contractor choke manifold has 5000 psi rating. Hydraulic choke and remote choke line valve required for 8-3/4" hole section only.

6. Proposed Mud System:

The proposed mud system will be a combination of fresh water, brine, cut brine, and polymer gel. The depth and mud properties of the mud system are listed below.

Depth (MD)	Туре	Weight	Viscosity	Fluid Loss
		(ppg)	(sec)	(cc)
0-600'	Fresh Water	8.3-8.8	28-30	Not Critical
600'-2400'	Fresh Water	8.4-8.6	28-30	Not Critical
2400'-8700'	FW/Cut Brine	8.4-9.0	28-30	Not Critical
8700'-10150'	Brine	10.0-10.1	28-32	Not Critical
10150'-11475'	Brine/XCD	10.0-10.5	34-38	<10

Sufficient mud materials to maintain the above mentioned mud properties and meet minimum lost circulation and weight increase requirements will be kept at the location at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be kept in the drill string at all times.
- A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- A mud logging unit complete with H2S detector will be monitoring drilling penetration rate and hydrocarbon shows from 2400' to TD.
- PVT/FLO-sensor equipment will be rigged up and operating at 8500' TVD (prior to drilling into the Wolfcamp formation).

8. Drillstem Testing, Logging and Coring Programs:

- Drillstem tests: None planned
- Electric logs: CNL-LDL-DLL-MSFL-LSS: TD to 5000' (CNL-GR to surface).
- Coring: None planned

9. Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

No abnormal pressures and/or temperatures are anticipated. Estimated BHP in the Morrow is 4800 psi. No hydrogen sulfide or other hazardous gases or fluids are expected on this location, but equipment will be rigged up as a precaution (see attached H2S operating plan).

10. Anticipated Starting Date and Duration of Operations:

The anticipated start date will be August 15, 2003. Once commenced, drilling operations should be completed in approximately 35 days. If the well is productive, another 20 days will be required for completion work and facility installation.

SURFACE USE PLAN MATADOR OPERATING COMPANY

Karen 7 Federal #1

Surface Location: 919' FNL, 1650' FWL

Sec 7, T21S, R27E

Bottomhole Location: 1250' FNL & 1650' FWL

Sec 7, T21S, R27E

Eddy County, New Mexico

- 1. EXISTING ROADS Area map, Exhibit "A", is a reproduction of the appropriate part of the U.S.G.S. New Mexico 7-1/2 minute quadrangle. Existing roads are shown on the exhibit and the road to be used on the referenced well is marked. All roads shall be maintained in a condition equal to that which existed prior to start of construction.
 - A. Exhibit "A" shows the proposed well site as staked.
 - B. Directions: From Carlsbad, go North 4.5 miles on Hwy 428, then 1.3 miles on Hwy 239. Turn on lease road and go 0.3 miles West, then 0.1 mile North to point ±300' East of location.
- 2. PLANNED ACCESS ROADS Existing lease roads with estimated 300' new road construction directly adjacent to location.
- 3. LOCATION OF EXISTING WELLS ON A ONE-MILE RADIUS
 - A. Water wells NA
 B. Disposal wells NA
 C. Drilling wells NA
 D. Producing wells As shown on Exhibit "C".
 E. Abandoned wells- As shown on Exhibit "C".
- 4. If upon completion, the well is a producer, Matador Operating Company will furnish maps or plats showing On Well Pad Facilities and Off Well Pad Facilities (if needed) on a Sundry Notice before construction of these facilities starts.

LOCATION AND TYPE OF WATER SUPPLY
 Water will be purchased locally from a private source and trucked over the access
 road.

6. SOURCE OF CONSTRUCTION MATERIALS If needed, construction materials will be obtained from the drill site's excavations, or from a local source. These materials will be transported over the access route as shown in Exhibit "A".

7. METHODS FOR HANDLING WASTE DISPOSAL.

- A. 1. Drill cuttings will be disposed of in the reserve pit.
 - 2. Trash, waste paper, and garbage will be contained in a fenced trash trailer to prevent wind-scattering during storage. When the rig moves out, all trash and debris will be hauled to an approved land-fill site.
 - 3. Salts remaining after completion of the well will be picked up by the supplier, including broken sacks.
 - 4. Sewage from trailer houses will drain into holes with minimum depth of 10'00". These holes will be covered during drilling and back-filled upon completion. A "porta-john" will be provided for the rig crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
 - 5. Chemicals remaining after completion of the well will be stored in the manufacturer's containers and picked up by the supplier.
- B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for back-filling. In the event drilling fluids will not be evaporated in a reasonable period of time, they will be transported by a tank truck to a state approved disposal site.

Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

8. ANCILLARY FACILITIES

No camps or airstrips will be constructed.

9. WELL SITE LAYOUT

- A. Exhibit "B" shows the proposed well site layout.
- B. This exhibit indicates proposed location of the reserve pits and trash trailer.
- C. Mud pits in the active circulating system will be steel pits.
- D. The reserve pit is to be lined with a poly-ethylene liner. The pit liner will be a minimum of 6 mils thick. The pit liner will extend a minimum of 2'00" over the reserve pit dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or dry hole.

In either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area as closely as is possible. Drainage system, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstance to prevent inundation of the location pad and surface facilities. After the area had been shaped and contoured, topsoil from the soil pits will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

11. OTHER INFORMATION

- A. The topography is of hilly terrain with vegetation consisting of sagebrush and native grasses. The soils are silty and very shallow.
- B. The surface owner is the BLM, Roswell District Office, 2909 West Second Street, Roswell, NM 88202. There is not a surface grazing lease.
- C. An archaelogical study has been conducted for the location and road. Archeological survey submitted under separate cover.
- D. There are no buildings in the area.

12. OPERATOR'S REPRESENTATIVE

Matador Operating Company's field representative for contact regarding compliance with the Surface Use Plan is:

Before, during, and after construction:

Jim Kramer

8340 Meadow Road #150

Dallas, TX 75231

Office:

214-987-7128

Mobile:

432-553-3542

Res:

972-377-3281

13. CERTIFICATION

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 the operations proposed herein will be performed by Matador Operating Company and its contractors/ 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.

Name:

Jim Khamer

Sr. Drilling Engineer

Date:

6/13/03

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

MATADOR OPERATING COMPANY Karen 7 Federal #1 919' FNL & 1650' FWL SEC. 7, T21S, R27E EDDY COUNTY, NM

I. Hydrogen Sulfide Training.

All personnel, whether regularly assigned, contracted or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H2S).
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques of first aid and rescue procedures.

In addition the supervisory personnel will be trained in the following areas:

- 1. The effect of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H2S Safety Equipment and Systems.

NOTE: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above or three days prior to penetration the first zone containing or reasonable expected to contain H2S.

- 1. Well Control Equipment:
 - A. Flare line.
 - B. Choke manifold.
 - C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - D. Auxiliary equipment to include: annular preventer
- 2. Protective equipment for essential personnel:
 - A. 5-minute escape units located in the dog house and 30-minute air units at briefing areas, as indicated on well site diagram.
- 3. H2S detection and monitoring equipment.
 - A. 3-portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.
 - B. 1-portable SO2 monitor positioned near flare line during H2S flaring operations.
- 4. Visual warning systems:
 - A. Wind direction indicators as shown on well site diagram.
 - B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be a readable distance from the immediate location.

5. Mud Program:

The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight safe drilling practices and the use of H2S scavengers when necessary will minimize hazards when penetrating H2S bearings.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventers, drilling spools kill lines, choke manifold and lines valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trimmed.

7. Communications:

A. Radio communications will be available in company vehicles and rig dog house.

8. Well Testing:

A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing of any known formation that contains H2S will be conducted during daylight hours.

United States Department of the Interior **BUREAU OF LAND MANAGEMENT** Roswell Office 2909 West Second Street Roswell, New Mexico 88201

Statement Accepting Responsibility for Operations

Operator name:

Matador Operating Company

Street or box:

8340 Meadow Road, #150

City, State:

Dallas, TX

Zip code:

75231

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.:

NM 10033

Legal Description of Land: N/2 of Section 7, T21S, R27E

Formation(s) (if applicable):

Bond Coverage: (State if individually bonded or another's bond)

Statewide

BLM Bond File No.:

29403

Authorized Signature:

R. F. Burke

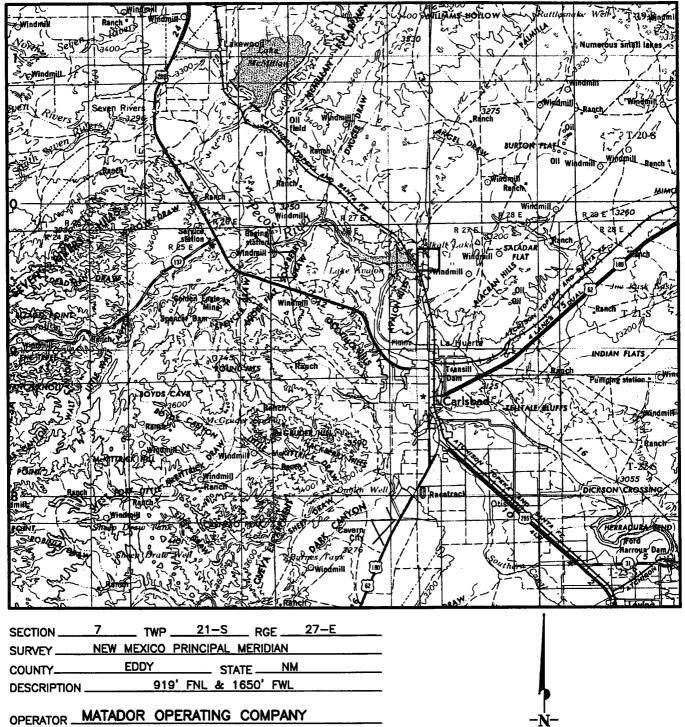
Title:

Vice President

Date:

6/13/13

VICINITY MAP



KAREN "7" FEDERAL #1 LEASE _

DISTANCE & DIRECTION FROM CARLSBAD GO NORTH 4.5 MILE ON HWY. 428, THENCE 1.3 MILE ON HWY. 239, THENCE WEST 0.3 MILE ON LEASE ROAD, THENCE NORTH 0.1 MILE ON LEASE ROAD TO A POINT ±300' EAST OF THE LOCATION.

MATADOR OPERATING COMPANY **KAREN 7 FEDERAL #1** EXHIBIT

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

Review this plat and notify us immediately of any possible discrepancy.

VD.

2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653 3116

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

State of New Mexico Energy, Minerals, and Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

Submit to Appropriate District Office

OIL CONSERVATION DIVISION

State Lease - 4 copies

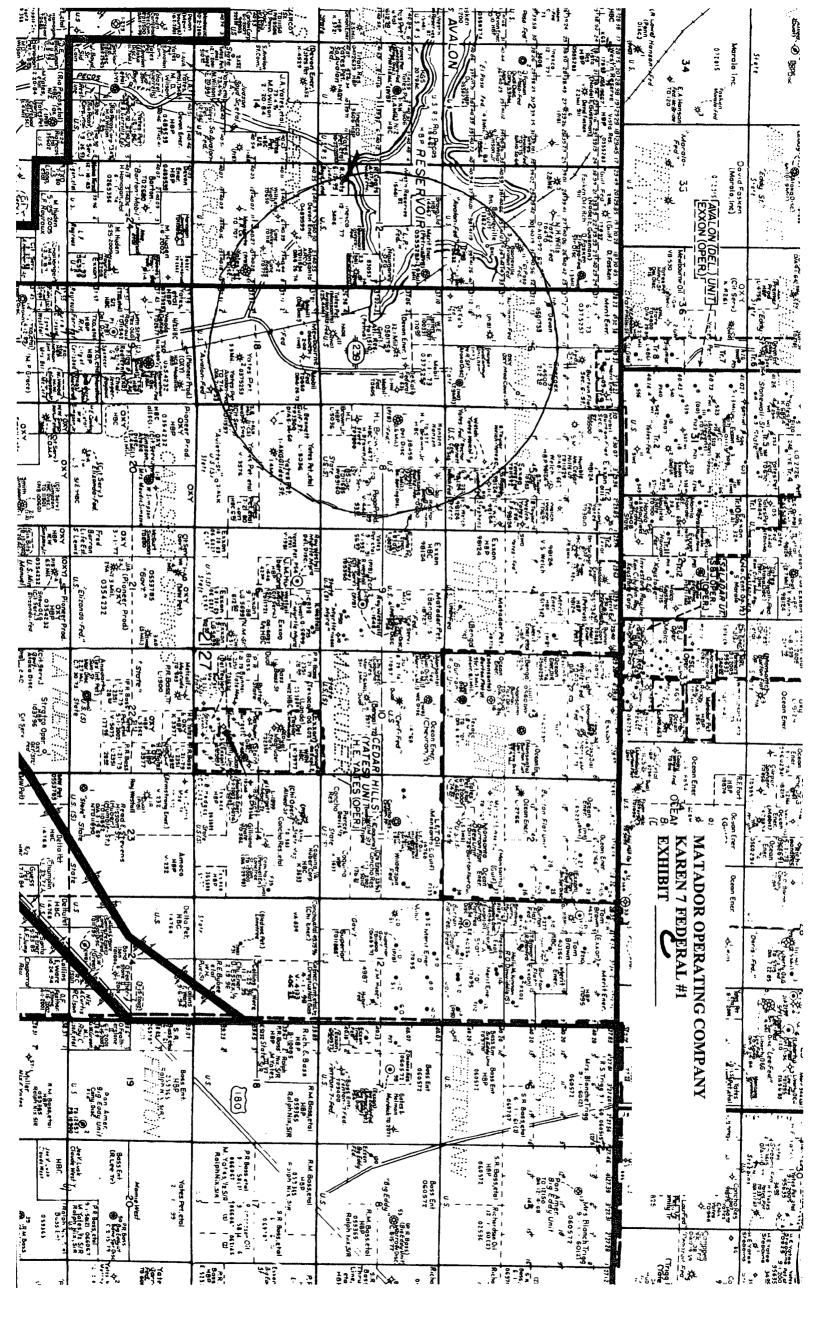
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr.

Fee Lease - 3 copies

Santa Fa New Mexico 97505

DISTRICT IV 1220 S. St. Fr		Santa Fe, NM 8	7505	San	ita re, r	iew Mexico o	7303		AMENDE	D REPORT
,	1				AND A	CREAGE	DEDICATION	ON PLAT		
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4Property	Code	Τ	732	280	5 Prop	BUITOR erty Name	Flat Morro	<u>w</u>	⁶ Well Nu	mban .
Tioperty	Code			KAI		7" FEDERA	AL.		1	miner.
OGRII	No.					ator Name			9 Eleva	tion
142	245		ì	HOGATA	OPĖI	RATING CO	MPANY		320	4'
<u> </u>				10	Surface	Location			<u>h</u>	
UL or lot no.	Section	Township	Rang		Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	7	21 SOUTH	27 EAST,	N.M.P.M.		919'	NORTH	1650'	WEST	EDDY
			11 Botton	n Hole Lo	cation I	f Different Fr	om Surface			
UL or lot no.	Section	Township	Rang	` \	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	7	21 SOUTH	27 EAST,			1250'	NORTH	1650'	WEST	EDDY
12 Dedicated Act	res 13 Jo	int or Infill	14 Consolidation	a Code	15 Order N	ío.				
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<u> </u>	-1 <i>650'</i>	BHI	<u>-</u>	' 		_\4	上二1	Printed Name Sr. Drilli	ng Enginee	r
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14444	-+	-141-4-4-	++++	' 	+ -+ -+	++++	<i></i>		f actual surveys made by z	•
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li .		i		i		i	- 11	JOB #88146	/ 49 NW	/ E.U.O.



MATADOR OPERATING COMPANY KAREN 7 FEDERAL #1 919' FNL & 1650' FWL SEC 7, T21S, R27E EDDY COUNTY, NM

ÉXHIBIT D BOP SCHEMATIC

(2M Rated Working Pressure)

(5M Rated Working Pressure)

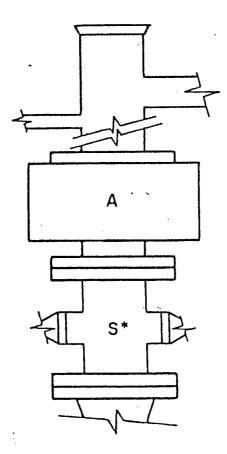


FIG. 2.C.1 ARRANGEMENT S*A

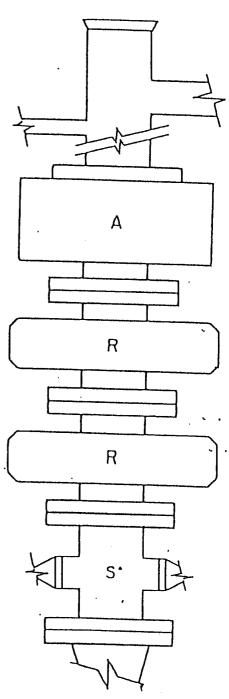
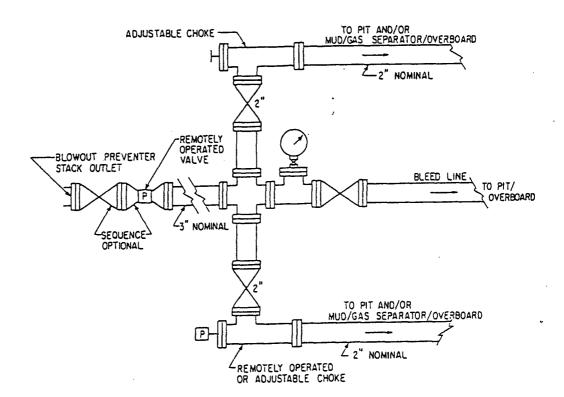


FIG. 2.C.5
ARRANGEMENT S*RRA
Double Ram Type Preventers, R_d, Options

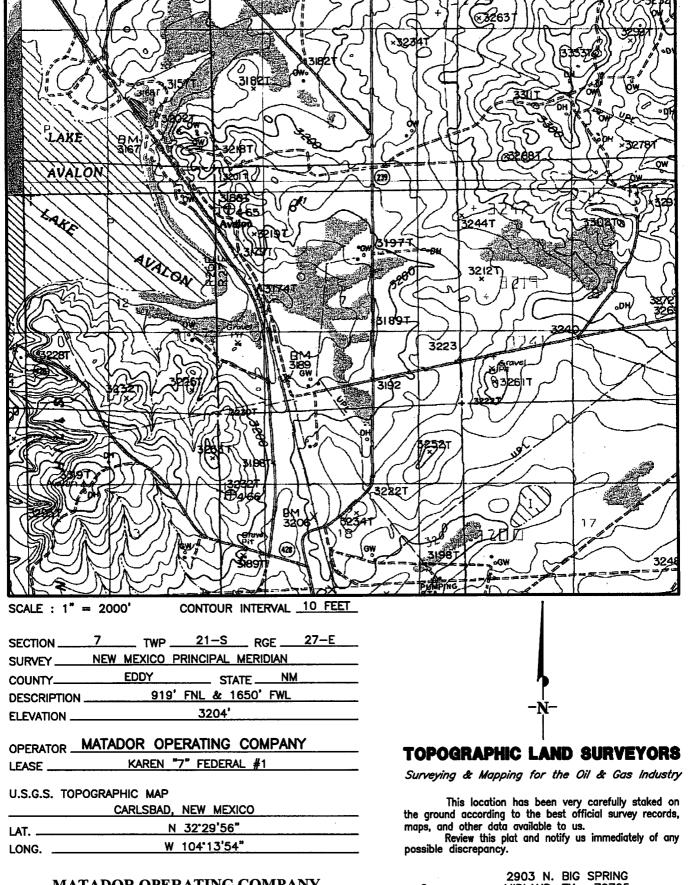
MATADOR OPERATING COMPANY KAREN 7 FEDERAL #1 919' FNL & 1650' FWL SEC 7, T21S, R27E EDDY COUNTY, NM

EXHIBIT E CHOKE MANIFOLD

(5M Rated Working Pressure)



LOCATION & ELEVATION VERIFICATION MAP



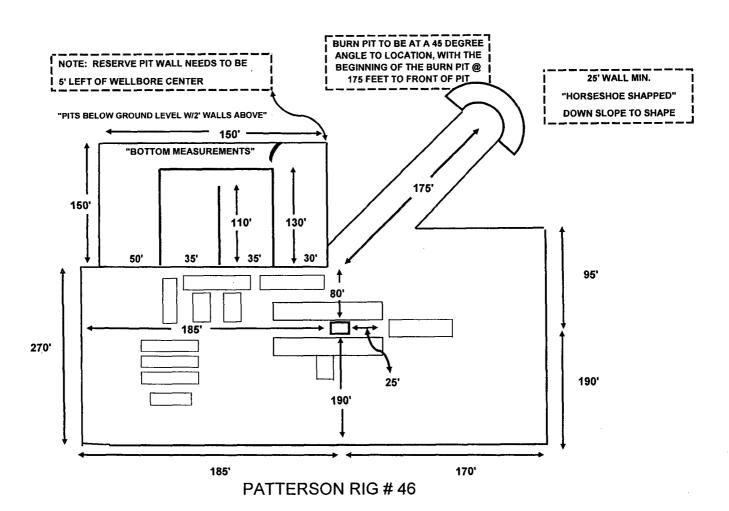
MATADOR OPERATING COMPANY KAREN 7 FEDERAL #1 EXHIBIT _____

2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653

MATADOR OPERATING COMPANY PLAT SHOWING PROPOSED
WELL LOCATION AND LEASE ROAD IN
SECTION 7, T-21-S, R-27-E, N.M.P.M. KAREN 7 FEDERAL #1 **EXHIBIT** EDDY COUNTY, NEW MEXICO FND. BRASS CAP U.S. G.L.O. SUR. 1943 6 5 6 8 MATADOR OPERATING COMPANY KAREN "7" FEDERAL #1 GROUND ELEVATION: 3204' FND. BRASS CAP U.S. G.L.O. SUR. -PROPOSED LEASE ROAD 1650 S 88'08'22" W 108' 00'05'31" W 330' 1650 D. BRASS CAP B.L.M. SUR. 1976 7 18 13 PLAN VIEW 1" = 1000' 400 3211 3210 = 1000' DATE OF FIELD WORK: MAY 30, 2003 PROPOSED WELL LOCATION ELEV. : 3204 I, V. L. BEZNER, A PROFESSIONAL SURVEYOR IN THE STATE OF NEW MEXICO AND AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, HEREBY CERTIFY THIS PLAT TO BE A TRUE REPRESENTATION OF A SURVEY PERFORMED IN THE FIELD UNDER MY SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT ROTHE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THIS PLAT AND FIELD SURVEY UPON WHICH IT IS BASED MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. (RULE 500.6 EASEMENT SURVEYING) 3198 3210 400' PROPOSED LEASE ROAD DETAIL VIEW 1" = 100' V. L. BEZNER, P.S. NO. 7920 SCALE: AS SHOWN MATADOR OPERATING COMPANY MAY 30, 2003 DATE: REVISION DATE BY 88146-F NO. JOB NO.: SURVEYED BY: H.V. SURVEYING AND MAPPING BY QUAD NO.: 49 NW DRAWN BY: E.U.O TOPOGRAPHIC LAND SURVEYORS MIDLAND, TEXAS APPROVED BY: W.J.K. SHEET : 1 OF 1

Karen 7 Federal #1

1250' FNL AND 2170' FWL SEC. 7, T21S, R27E EDDY COUNTY, NEW MEXICO PROPOSED DEPTH = 11,475'



LOCATION:

- 6" COMPACTED CALICHE
- CELLAR 8' x 8' x 8' "WITH BACKHOE"

ROAD:

● 14' WIDE - 6" COMPACTED CALICHE W/ TURNOUTS

NOTES:										
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J. C. WILSON, BEST RESOURCES TOM BROWN, INC.

TRAILER: 432/ 638-0854, OR 432/ 638-1238, OR 432/ 238-7760 OFFICE: 432/ 563-2378; FAX: 432/ 563-2377