DATEIN	SUBPENSE	ENGINEER	LOGGED BY	TYPE
•				
		ABOVE THIS LINE FOR DIVISION USE ONLY		·

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

#### ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application	Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [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 A	PPLICATION - Check Those Which Apply for [A]  Location - Spacing Unit - Directional Drilling  NSL NSP DD DSD
	Check [B]	Cone Only for [B] and [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WFX PMX SWD IPI GEOR PPR
[2]	NOTIFICAT	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply 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] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

completed by an individual with supervisory capacity.

#### KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

EL PATIO BUILDING

117 NORTH GUADALUPE POST OFFICE BOX 2265

SANTA FE, NEW MEXICO 87504-2265

JASON KELLAHIN (RETIRED 1991)

\*NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

W. THOMAS KELLAHIN

June 29, 1999

TELEPHONE (505) 982-4285 TELEFAX (505) 982-2047

HAND DELIVERED

Mr. Michael E. Stogner Oil Conservation Division 2040 South Pacheco Santa Fe. New Mexico 87501

RE: Maduro Federal Unit Well No. 4 460 feet NFL and 1980 feet FEL N/2 Section 29, T19S, R33E Administrative Application of Matador Petroleum Corporation for Approval of an Unorthodox Gas Well Location, Lea County, New Mexico

Dear Mr. Stogner:

On behalf of Matador Petroleum Corporation, please find enclosed our administrative application for approval of an unorthodox gas well location for its Maduro Federal Unit Well No. 1 which is an existing well currently approved by Order R-8973 at an unorthodox gas well location for the Gem-Morrow Gas Pool at a location 460 feet from the North and 1980 feet from the East line (Unit B) Section 29, T19S, R33E, Lea County, New Mexico and dedicated to the N/2 of this section. Matador proposes to abandon the Morrow and perforate the Atoka formation in this wellbore.

Matador Petroleum Corporation is also the operator in Section 20 towards whom this well encroaches. All of the working interest owners in Section 20 are also participating in the Maduro well and have approved this recompletion. Therefore, I have not sent any notifications.

Very truly yours,

W. Thómas Kellahin

fxc: Matador Petroleum Corporation Attn: Mona Ables

The extension of the wind of the Mandows of when the Agreement

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE ADMINISTRATIVE APPLICATION OF MATADOR PETROLEUM CORPORATION FOR APPROVAL OF AN UNORTHODOX GAS WELL LOCATION, LEA COUNTY, NEW MEXICO

#### **ADMINISTRATIVE APPLICATION**

Comes now Matador Petroleum Corporation, by and through its attorneys, Kellahin and Kellahin, and in accordance with Division General Rule 104.F applies to the New Mexico Oil Conservation Division for administrative approval to produce the Atoka formation in its Maduro Federal Unit Well No. 4 which is an existing well located 460 feet from the North line and 1980 feet from the East line (Unit B) Section 29, T19S, R33E, Lea County, New Mexico, and dedicated to a standard 320-acre gas proration and spacing unit consisting of the N/2 of this section;

#### and in support states:

- (1) Matador Petroleum Corporation ("Matador") is the operator of the Maduro Federal Unit Well No. 4. See Exhibit 1
- (2) As a result of Order R-8973 entered in Case 9705, Matador is currently producing this well from the Gem-Morrow Gas Pool at an unorthodox gas well location. See Exhibit 2
  - (3) The Morrow zone is marginal. See Exhibit 3
- (4) The subject well is offset by potential 320-acre spacing units in Section 20 which Matador operates for the benefit of working interest owners who are also working interest owners in the N/2 of Section 29. See Exhibit 4.
- (5) The Morrow zone is marginal and Matador proposes to abandon the Morrow perforations this well and recomplete it in the Atoka formation. See Exhibit 5,6 and 7

# Administrative Application of Matador Petroleum Corporation Page 2

- (6) The subject well provides a unique opportunity to re-enter an existing well and to test for potential Atoka gas production rather than undertake the additional expense of drilling a new well at a standard well location. See Exhibit 8
- (7) Available data indicates that an Atoka well needs to be located in the northern side of Section 29 in order to be located in the thicker portion of the Atoka channel and this existing wellbore is equal to or better an redrilling this well at a standard location. See Exhibits 9, 10 and 11
- (8) This combination of geologic reasons along with the ability to use an existing wellbore provides an advantage over drilling a new well at the closest standard gas well location in Section 29.
- (9) Approval of this application will afford the interest owners in this spacing unit an opportunity to recovery gas which might otherwise not be recovered and to do so without violating correlative rights.

WHEREFORE, Matador Petroleum Corporation requests that this matter be approved administratively by the Division.

Respectfully submitted.

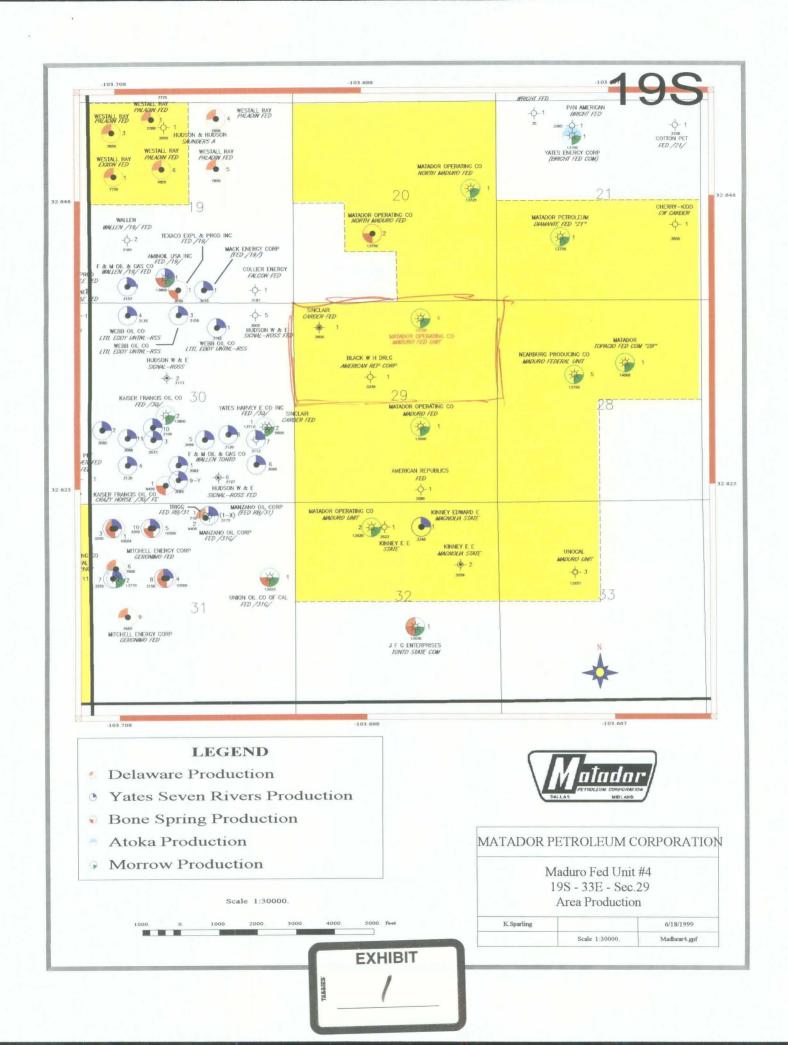
W. Thomas Kellahin Kellahin and Kellahin

P.O. Box 2265

Santa Fe, New Mexico 87504-2265

(505) 982-4285

Attorneys for Applicant



STATE OF NEW MEXICO
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 9705 Order No. R-8973

APPLICATION OF UNION OIL COMPANY OF CALIFORNIA FOR AN UNORTHODOX GAS WELL LOCATION, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on July 26, 1989, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this <a href="lith">11th</a> day of August, 1989, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) Division Case Nos. 9704 and 9705 were consolidated at the time of the hearing for the purpose of testimony.
- (3) The applicant, Union Oil Company of California, seeks approval of an unorthodox gas well location 460 feet from the North line and 1980 feet from the East line (Unit B) of Section 29, Township 19 South, Range 33 East, NMPM, Lea County, New Mexico, to test the Morrow formation, Un-



CASE NO. 9705 Order No. R-8973 Page -2-

designated Gem-Morrow Gas Pool, the N/2 of said Section 29 to be dedicated to the well forming a standard 320-acre gas spacing and proration unit for said pool.

- (4) The applicant presented evidence and testimony which indicates that the proposed unorthodox gas well location is necessitated by a combination of topographic (archaeological) and geologic considerations.
- (5) A well at the proposed location will better enable the applicant to drill and produce the gas underlying the proposed proration unit.
- (6) The subject well is located within the boundaries of the applicant's Maduro Unit, and the affected offset acreage to the north is currently operated by the applicant.
- (7) No other offset operator or interest owner appeared at the hearing in opposition to the application.
- (8) Approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

#### IT IS THEREFORE ORDERED THAT:

- (1) The applicant, Union Oil Company of California, is hereby authorized to drill a well at an unorthodox gas well location 460 feet from the North line and 1980 feet from the East line (Unit B) of Section 29, Township 19 South, Range 33 East, NMPM, to test the Morrow formation, Undesignated Gem-Morrow Gas Pool, Lea County, New Mexico.
- (2) The N/2 of said Section 29 shall be dedicated to the above-described well forming a standard 320-acre gas spacing and proration unit for said pool.

CASE NO. 9705 Order No. R-8973 Page -3-

(3) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

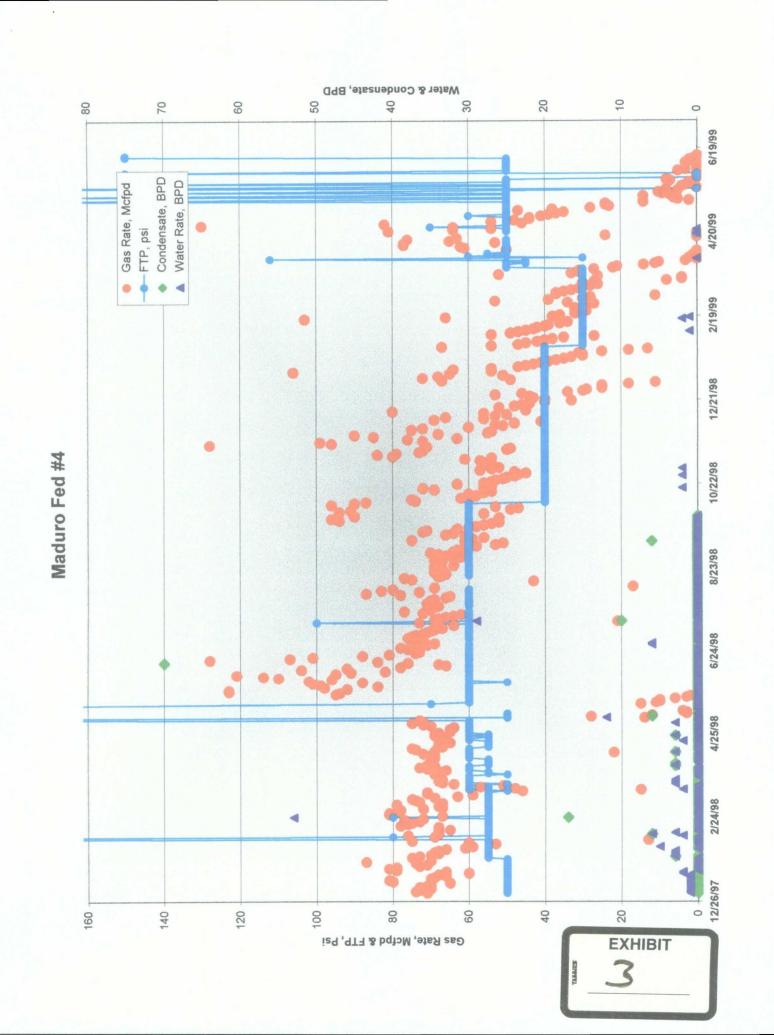
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL



#### **OFFSET OWNERSHIP SUMMARY**

The Maduro Federal Unit Contract Area includes <u>all of Section 29, the W/2 Section 28</u>, N/2 Section 32 and NW/4 Section 33, T-19-S, R-33-E, Lea County, New Mexico. The following parties own a working interest in the Maduro Federal Unit:

Finwing Corporation Edward R. Hudson Trust #1, #2 and #3 Lindy's Living Trust Olwick Corporation S.E.S. Oil & Gas Inc. Matador Petroleum Corporation Edward R. Hudson Trust #4 Delmar Hudson Lewis Moore & Shelton Co. Ltd. Petraitis Oil & Gas Inc. Harvey E. Yates Company

The North Maduro Federal Unit Contract Area includes <u>all of Section 20</u>, T-19-S, R-33-E, Lea County, New Mexico. The following parties own a working interest in the North Maduro Federal Unit:

Edward R. Hudson Trust #1, #2 and #3 Delmar Hudson Lewis Moore & Shelton Co. Ltd.

Edward R. Hudson Trust #4 Lindy's Living Trust Matador Petroleum Corporation

All of these parties own a working interest in Section 29 and have approved the work to recomplete the Maduro Federal Unit #4 to the Atoka.

The <u>S/2 Section 21</u>, T-19-S, R-33-E, Lea County, New Mexico is owned 100% by Matador Petroleum Corporation and its internal partners.

The attached Division Of Interest listing for the Maduro Federal Unit #4 well provides mailing addresses for each party in the event you deem additional notification is required.



## Maduro Federal #4 Recomplete to Atoka

- 1. RU SLU. Set plug in 2.25" "F" nipple @ 12,995.
- 2. Load tbg w/6% KCL. Test plug to 2500.
- 3. ND Tree, NU BOP.
- 4. Release on/off tool from pkr.
- 5. POH w/tbg. Visually observe condition of tbg.
- 6. RIH w/ 4 3/4" bit and 5 1/2" csg scraper to pkr @ 12,966'.
- 7. Circ hole w/6% KCL and pkr fluid.
- 8. POH
- 9. PU 5 ½" PLS pkr w/10' pup jt below and 2.31 "X" nipple and WL entry guide on bottom. Pkr to have on/off tool w/ "X" nipple. Install "X" nipple 1 jt above pkr.
- 10. RIH on 2 7/8" tbg. Note pending condition of tbg. The tbg may be tested above slips.
- 11. Set pkr @  $\pm$  12,400'. Test pkr and tbg to 5000 psi.
- 12. ND BOP. Install tree. Internally test tree to 5000 psi.
- 13. Externally test tree and csg to 2500 psi.
- 14. Swab well down to 6,000'.
- 15. RU Schlumberger Wireline unit complete with 5000 psi Lubricator and grease injector. Perforate Atoka form 12,505-12,522 and 12,687-12,694' using 2 1/8" strip gun loaded at 4 jspf @ ± 45° phasing.
- 16. Run 4 pt test and place on production,



# Maduro Fed Com #4 460' FSL & 1980' FEL Sec 29 - 19S - 33E Lea County, New Mexico Current Completion

GL = 3629'KB = 3618'

113' of Perf gun assembly

TD=13750'

DF = 3600' Original Completion: 03/90

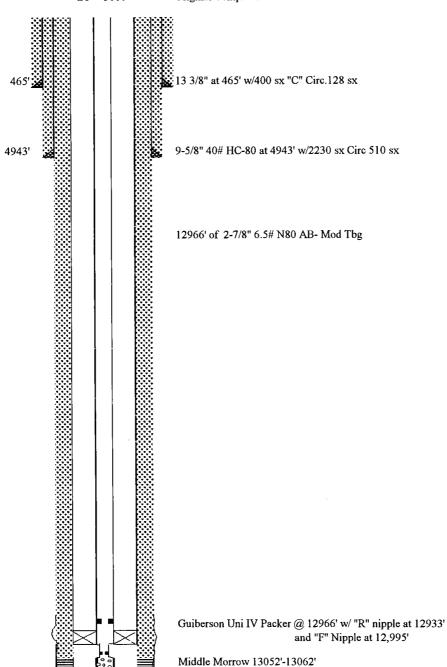


EXHIBIT 6

CIBP w/ 20' cmt on top 13615'-13595'
Lower Morrow 13634'-13640'

Middle Morrow 13262' - 13349' selective

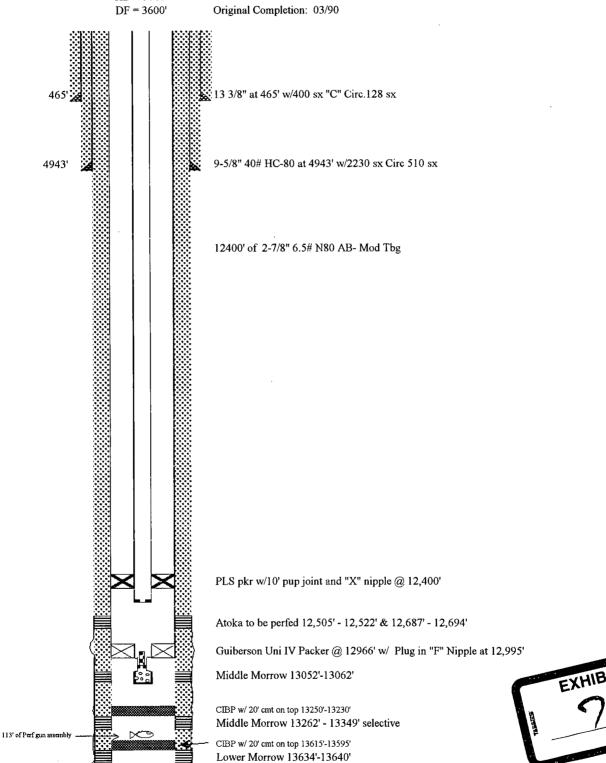
CIBP w/ 20' cmt on top 13250'-13230'

5" 17# N-80 & S-95 casing @ 13580 w/ 1460 sx.

# Maduro Fed Com #4 460' FSL & 1980' FEL Sec 29 - 19S - 33E Lea County, New Mexico Proposed Completion



TD=13750'



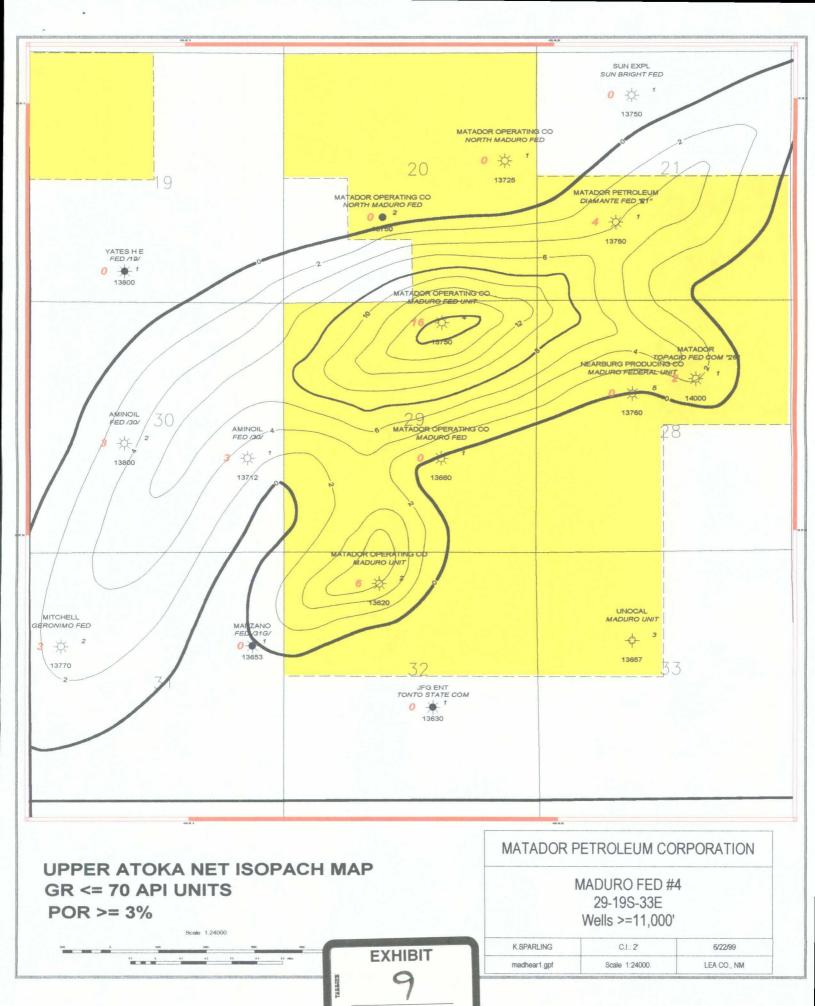
5" 17# N-80 & S-95 casing @ 13580 w/ 1460 sx.

## MATADOR PETRULEUM CURPUICATION

SUITE 158, PECAN CREEK 8340 MEADOW ROAD DALLAS, TEXAS 75231-3761 (214) 987-3650 FAX # (214) 891-1415

#### ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE

DATE:	3/9/99		AFE NO.: 300531-04-001										
PROSPECT NAME:	Gem Morrov	N .		OPERATOR	: Matador								
LEASE NAME:	Maduro Fed	114					<del></del>						
DESCRIPTION:	Plug off existing	Morrow Peris at 13052-62. Per	forate Atoka at 1	2505-522, 12687-1	12894								
LOCATION:	Sec 29 T19	S R33E											
COUNTY:	Lea		STATE:	IM	_ PRO	PROPOSED TD:							
INTANGIBLE COSTS				DRILLING COSTS		MPLETION COSTS	TOTAL						
01 Land/Legal/Regulate 02 Location, surveys &				\$		0 ;	0 0						
10 Contract Drilling/For						0							
11 Contract Drilling Da					5	0	0						
12 Contract Drilling-Tu	-					0	0						
16 Cementing Services 18 Drillstern Test & Cor						0	0						
20 Open Hole Logging	ing					<del>-0</del>							
21 Contract Geological						0	0						
22 Geological Supervis	ion					0	0						
24 Mud & Chemicals						1,000	1,000						
26 Trucking 28 Supervision/Engine	arina	5 Days				<u>500</u> 2,000	2,000						
30 Bits & Equipment Re	-	0.0070				1,000	1,000						
32 Fuel & Water					_	1,750	1,750						
34 Combined Fixed Rat						0	0						
36 Plugging & Abandon		CIBP/CMT/INSTALLATION		4,000	-	0	4,000						
38 Well Surveys/Test S 40 Completion Unit	SIAICER	Night watchman			<del>.</del> . —	750 7,000	750 7,000						
44 Perforating/Logging		5 Days				10,000	10,000						
46 Stimulation		N2 Unit				3,000	3,000						
48 Well Control & CGL	Insurance				2	0	0						
50 Labor 52 Other		<del></del>				0	0						
54 Contingency		10%			~	2,650	2,650						
		TOTAL INTANGIBLES >		4,000	s :	29,650 \$	33,650						
TANGIBLE COSTS				COSTS		COSTS	COSTS						
40 Conductor Casing					3	0	<b>\$</b> 0						
41 Surface Casing						0	0						
42 Intermediate Casing 43 Drilling Casing Line					<del>-</del>	0	0						
44 Production Casing	r	<del></del>				<del>- 0</del>	0						
46 Production Casing L	.iner	and the second				0 .	0						
46 Tubing						2,000	2,000						
47 Wellhead		TREE SERVICE				2,000	2,000						
48 Other Subsurface Ed	վութ.	PKR SERVICE		-		1,500	1,500						
50 Production Vessels			<del></del>			0							
51 Flow Lines						0	0						
52 Rod string	_					0	0						
53 Pump Unit & Prime P 55 Installation Costs	Mover		<del></del>			0	0						
57 Miscellaneous Equi	oment		<del></del>			0	0						
			<del></del>										
	<del></del>	TOTAL TANGIBLES >		0	<u> </u>	5,500 \$	5,500						
		TOTAL COSTS >		4,000	\$3	6,150	39,150						
MATADOR OPERATING	COMPANY	_											
	1'	$\bigcirc$	w.	$-h$ - $\bigcirc$			2 10 100						
		Prepared By:	والالا	ikn		Date	13/7/74						
•		Russ Math	ls Production	anage -									
		Approved By:			- Su	Date	: <u>3/9/99</u> : <u>4/22/9</u> 9						
			e, Vice Preside	nt									
APPROVAL:		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -											
NON-OPERATOR:	<del></del>						EXHIBIT						
Approved:			lsapproved:	•	Tax ID:		5A!"-						
•						— <b>I</b> <sup>N</sup>	X						
Working Interest (%):		Signed by:					0						
							- Section 1						





June 23, 1999

Re: *MADURO FEDERAL #4* 29-19S-33E

Matador Petroleum Corporation Atoka Recompletion Lea Co., N.M.

#### **GEOLOGICAL**

An analysis of the Atoka section in the Gem Morrow Field of Section 29-19S-33E reveals the occurrence of two Atoka zones that warrant recompletion attempts in the Matador-Maduro Fed. #4 well. The two proposed recompletion intervals are shown on **Stratigraphic Cross-Section A-A'** and are designated as the upper and middle Atoka zones.

The **Production Map** displays wells that are productive from the Delaware, Yates-Seven Rivers, Bone Spring, Atoka and Morrow. Section 29 contains five wells, three dry-holes and two Morrow producers. The Maduro Fed. #4 well has produced 389.0 MMCF and 18.7 MBO from the Morrow since 4/90. The Yates-Bright Fed. Com. #1 well, approximately one mile north of the Maduro Fed. #4 well, of section 21-19S-33E produces from the Atoka section.

The Upper Atoka Net Isopach Map reveals the Maduro Fed. #4 well exhibits the thickest net accumulation of the upper Atoka interval. Surrounding wells display a thinner net reservoir accumulation (2'-6') or an absence of reservoir as observed on the Upper Atoka Net Isopach Map. The upper Atoka zone is a fine-grained sandstone deposit that is oriented NE-SW in the area. The Atoka section consists primarily of limestones and shales; however, during periods of diminished carbonate deposition the region is subject to periodic floods of fine clastic material from areas to the north and northeast. The resulting Atoka sandstone deposits are generally thin (5'-10' thick), exhibit low porosity (.03-.06) and display erratic distribution patterns. An examination of wells in the area indicates the thickest reservoir development in the upper Atoka zone occurs in the Maduro Fed. #4 well.

The middle Atoka zone is also developed in the Maduro Fed. #4 well. The middle Atoka zone exhibits poor porosity development in the Maduro Fed. #4 well as shown on the **Stratigraphic Cross-Section A-A'**. The middle Atoka zone, while thin and tight, may contribute additional hydrocarbons.



# **INTENTIONAL OMISSIONS**

The following document(s) have been intentionally omit indicated reasons.	ted from th	is file due to the				
FILE # NSC 4324						
DESCRIPTION OF OMITTED DO	OCUMENT	<i>TS</i> :				
OMITTED DOCUMENT		ON OMITTED				
ATOKA STRATIGIAPHIZ MES SO	e. AA	too LARGE				
	<del></del>					
	·· <del>·</del>					

:. TI	OWNSHIP		19.	500	7ر	Н	-R	an	ge	3	3 <i>E</i>	FAS	s <b>7</b>		NM	PΜ						
		*		4	٠					3).	. ~7°	2		.``		2	1			·		
				72 Y			**	 544		: 4	" 麗			- 12 - 14 - 14			- di-	: <b>5</b>		- 3		7
				;					4	ب. ب.			3 			-	5.	- Ţ.;	L		-	jest :
								,	*	10.00	Ā	2	\$1- \$		, ,	is.	- 42.	•				
		٠,		•							4		.;. ·				1.			٠	- 2	12
	7						4.			4.2		The state of			(		23	. ;				
				<b>− .</b> €				- (3	9 –				0 -		1,1	<b>–</b> 1		, 15.			2 – L	
				. 4-			-	1.00		1 4	. 5 % 1,7%	かか		1	-		新诗				1 55	1 THE
													د. د سره				3.0			1	, .	
	10				7				L.,,	4	1	200	الرب منه				4 —	4.		-1		:135
	18			1				- 1	. <b>6</b> *		ž.	1 ************************************					4				5- L_	
		:		۶.		`			-4.		華	PB.	. 7	3 j. j.j.	4	. *	17.7					, K
*				~ .,				é.	 Saja	ياو.	Alt.	1.2	Al in	S &	7		3 ,5 197					· **
	10			- 2		. ,	7		•	· -	- 44.7			,- işe	~~()			<b>44.</b> .			-	
	-19 <del>-</del>		*	ZI	U —	·		- 2	1		14 th	2 2 2 2	2 <del>-</del> 	5		- 2	3			7	4 -	
				٠					2. ".		14,	₹ <u>₹</u>	9.1% 								4.	
										·	4,2	3; <sup>1</sup> ;					-					
								_			B. 12						_					
	30 +			- 2 ا	9 –			- 2	:8 – I			- 2	.7 <u></u>	-		- 2	6			2	5 – I	
		-		٠.				. 2	. ;	-:		ينس خ		3			11.					
											#. 3.	-1 4.46 Z	1 1 1	·			-					-:-
				_							33.40	3									1.	1
	31			- 3 ا	2 -			- 3	3 			-3	4 — 			<del>-</del> 3	5 –			- 3	6 – I	
																امر						1
	<u> </u>		<u> </u>					-	·		1, 20			-		L	—			_		لسبست

DESC: F/2 SEC 15 (R-9120, 3-1-90) EXT: N/2 SEC 22 (R-9447, 3-	(-9/)
Ext; N/2 Sec, 21 (R-9937, 8-17-93)	and the same special and the same special spec
	•
And the second s	*
- THM TU - THM	
	•

1 8 3 A .

#### MADURO UNIT AREA

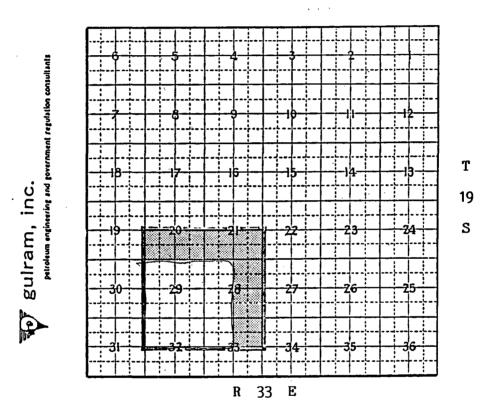
No. 14-08-0001-18028

APPROVED: May 3, 1979

EFFECTIVE: May 3, 1979

#### **EXPLORATORY**

Lea County, New Mexico



Federal Lands 2,

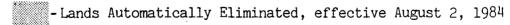
2,160.00 acres

State Lands

400.00 acres

Total

2,560.00 acres



Remaining Unit Land - Federal 1,040.00 acres

State 400.00 acres

Total 1,440.00 acres

R-8973

July 2, 1999

Rec: 6-29-99 Susp: NA Released: 688-99 7-2-99

Matador Petroleum Corporation c/o W. Thomas Kellahin P. O. Box 2265 Santa Fe, New Mexico 87504-2265 Telefax No. (505) 982-2047

Administrative Order NSL- 4324

Dear Mr. Kellahin:

Reference is made to the following: (i) your application on behalf of the operator Matador Petroleum Corporation ("Matador") dated June 29, 1999; (ii) your meeting in Santa Fe with Mr. Michael E. Stogner, Engineer/Chief Hearing Officer with the New Mexico Oil Conservation Division ("Division") on Friday, July 2, 1999; and (ii) the Division's records in Santa Fe: all concerning Matador's request to recomplete its Maduro Federal Unit Well No. 4 (API No. 30-025-30840), located 460 feet from the North line and 1980 feet from the East line (Unit B) of Section 29, Township 19 South, Range 33 East, NMPM, Lea County, New Mexico, from the deeper Morrow formation up-hole into the Atoka formation.

According to the Division's well records, the Maduro Federal Unit Well No. 4 was drilled in 1989 by Union Oil Company of California to a total depth of 13,750 feet and was subsequently completed in the Gem-Morrow Gas Pool at an unorthodox gas well location within a standard 320-acre lay-down gas spacing and proration unit comprising the N/2 of Section 29 (approved by Division Order No. R-8973, issued in Case No. 9705 and dated August 11, 1989).

It is our understanding that Matador indents to abandon the Morrow interval in this well at this time and attempt a recompletion up-hole into the Undesignated Tonto-Atoka Gas Pool, whereby the N/2 of Section 29 is to be dedicated to this well in order to form a standard 320-acre gas spacing and proration unit. Pursuant to Division Rule 104.C(2)(b) this location is also considered to be unorthodox.

This application has been duly filed under the provisions of Division Rule 104.F.

By the authority granted me under the provisions of Division Rule 104.F(2), the above-described unorthodox Atoka gas well location for Matador's Maduro Federal Unit Well No. 4 is hereby approved.

Further, Division Order No. R-8973 shall be placed in abeyance until further notice.

Sincerely,

Lori Wrotenbery Director

### LW/MES/kv

cc: New Mexico Oil Conservation Division - Hobbs U. S. Bureau of Land Management - Carlsbad