N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue Artesia, Williams 82310

Form 3160-3 (July 1992)

APPROVED BY

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

APPROVAL FOR 1 YEAR

UNITED STATES DEPARTMENT OF THE INTERIOR

		OF LAND MANA				5. LEASE DESIGNATION AND BERIAL	NO.
A DDI I						NMNM-109423 6. IF INDIAN, ALLOTTEE OR TRIBE NA	MB
1a. TYPE OF WORK	CATION FOR	R PERMIT TO	DMILL	ON DEEPEN			
b. TYPE OF WELL	LL X	DEEPEN				7. UNIT AGREEMENT NAME	
	S OTHE	R	ein Zon	"" X /- QUAS.""	72.5	8. FARM OR LEASE HAME, WELL NO.	
2. NAME OF OPERATOR	0 110			128	*3°	Diamond Federal #1	
Rubicon 0il & 8. ADDRESS AND TELEPHONE NO.	Gas, LLU			Alle Alle		30-015-379	٦2
14. DISTANCE IN MILES A 10 Miles North 10. DISTANCE FROM PROPO LOCATION TO NEARBST PROPERTY OR LEASE L (Also to nearest drig 18. DISTANCE FROM PROPO TO NEAREST WELL, DI OR APPLIED FOR, ON THI 21. ELEVATIONS (Show whe	HSL & 660° F des. Diam Least of Arte spr Le ind, FT. unit line, if any) cutting, completed, stease, FT.	NEARWST TOWN OR FOR Sia. New Mexicase - 660'	CO 16. No. 88	S 3970C FE TO SEQUITOR OF ACRES IN LEASE 6 acres ± POSED DEPTH 8800' TROLLED WATER	17. NO. 0 TO THE RC	TO. FIBLD AND FOOL, OB WILDCAT WITHERE MOTTOW 11. SBC., T., E. B., OB BLK AND BURVEY OR ARBA Sec. 3, T16S, R27E 12. COUNTY OR PARISH 18. STATE Eddy New Me. 118 WALL 320 EY OR CABLE TOOLS OTATY 22. APPROX. DATE WORK WILL ST. August 15, 2003	xico
23.		PROPOSED CAS	ING AND	COMENTING PROGRA	M	•	
SIZE OF ROLE	GRADE, SIZE OF CASING	WPIGHT PER I	roor	SOTTING DORTH		Onymatax or cambua	
17-1/2WITNESS		0 48#		800' WITNE		"C" - Circulate	
]] #	8-5/8", J-5			1700'		<u>- Circulate</u>	
7-7/8"	5-1/2", J-5 5-1/2", J-5 5-1/2", J-5	5 ¹ 15.5 517#	5#	6800' - 8800')1100 s	x - ETOC - 1500'	
INTERVAL	MUD WEIGHT	VISCOSITY	אין עטויי	WL CONTROL	•	REMARKS	
	8.6 - 9.0	32 - 34		N/C	Fre	sh Water, Gel, Lime	
800 - 1700'	9.0 - 9.2	29 - 30	٧.,	N/C		Brine	
1700 - 7500'	8.4 - 9.2	28 - 30	-	N/C	Fre	sh Water, Cut Brine	
7500 - 8300'	9.2 - 9.5	30 - 33		< 20 cc	Cut	: Brine, Starch, Polymo	er
8300 - 8800'	9.2 - 9.8	34 - 45		10 cc	Cut	: Brine, Salt Gel, Sta	rch
1000# with the be installed or	rig pump. A n the 8-5/8" pe tested to	n 11" - 3000# casing spool.	insta doubl The	e ram BOP and spool, double	an 11" ram BOP	asinghead and tested of a 3000# annular BOP work annular BOP and Chologone drilling out the contract of the co	ill ke
beepen directionally, give pertit	E PROPOSED PROGRAI nent data on subsurface le	M: If proposal is to deepen ocations and measured and	ARRA PENET	HALPSUBJEC CAN REQUIRE	Topological	new productive zone. If proposal is to de	rill or
24.	01/1		AND S	PECIAL STIP	ULATIO	ONS	
SIGNED A	est XX	tamen T	ATTA	भुष्ट्रमु		рата <u>6-25-03</u>	
(This space for Feder	al or State office us	a)					
PERMIT NO.				PPROVAL DATE	lease which we	yald entitle the applicant to conduct operation	s thereon
Application approval does n CONDITIONS OF APPROVAL	, IF ANY:	A.C	TING			ould entitle the applicant to conduct operation	
	/s/ Joe G. L	ara 110	F	TELD MANA	GER	8 0 JUL 2003	

*Contractions On Romano Sida

PROPOSED DRILLING PROGRAM

RUBICON OIL & GAS, LLC DIAMOND FEDERAL #1

3300' FSL & 660' FEL (Center of Lot 16), Section 3, T16S, R27E Eddy County, New Mexico Lease No. NMNM-109423

In conjunction with Form 3160-3, "Application for Permit to Drill" this well, Rubicon Oil & Gas, LLC submits the following items of pertinent information in accordance with BLM requirements:

1. Estimated top of important geologic markers:

Queen	810'		Abo	5000'
San Andres	1510'	•	Wolfcamp	6210'
Glorietta	2900'		Strawn	8000'
Tubb ,	4260'		Atoka	8420'

2. Estimated depths at which the tops and bottom of anticipated water, oil, gas or other minerals are expected to be encountered and how protected:

Ground Water, Fresh – 50' – 400'

Oil with Gas – Queen 810' – 910'±

San Andres - 1510' – 2400'±

Glorietta - 2900' – 3100'±

Production Casing

Production Casing

Gas with Condensate -

Abo - 5000' - 5300'± Production Casing Atoka - 8420' - 8650'± Production Casing

- 3. Pressure Control Equipment See Form 3160 3 and Exhibit "B" and Exhibit "C"
- 4. Proposed Casing Program See Form 3160 –3.
- 5. Proposed Mud Program See Form 3160 –3.

Based on records from nearby wells, no abnormal pressures are anticipated to total depth. However, before drilling below the intermediate casing at 1700' we will install a pit volume totalizer and a Flo-Sho as safety devices.

6. Testing, Logging, Coring Programs:

Mud Logging – Mud logging is planned from 800' to total depth.

DST's - One (1) DST planned in the Atoka.

Coring – No cores are planned.

Open Hole Logs – One run at total depth. Dual – Laterolog – MicroLaterolog; Gamma Ray with Compensated Density and Compensated Neutron.

PAGE TWO
Proposed Drilling Program
Rubicon Diamond Federal #1

7. Anticipated BHP and BHT, etc.:

No abnormal pressures or temperatures are anticipated in this well-bore. Near-by wells were drilled with mud weights of 9.0 to 9.3#/gal. We expect a BHP of about 3500# at 8500' in the Atoka. BHT should be about 160°F. Small amounts of H2S may accompany any water flows from the Permian zones. We plan to install H2S monitoring equipment (minimal package) from the intermediate casing point to total depth.

8. Other Information:

- (a) Anticipated start of drilling operations August 15, 2003.
- (b) Anticipated length of drilling operations -20 Days
- (c) Anticipated length of completion operations 20 days.

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

State Lease - 4 Copies Fee Lease - 3 Copies

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

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code Wildo	Pool Name Wildcat - Morrow		
Property Code	Property Name DIAMOND FEDERAL	Well Number		
ogrid no. 194266	Operator Name RUBICON OIL & GAS LLC	Elevation 3533'		

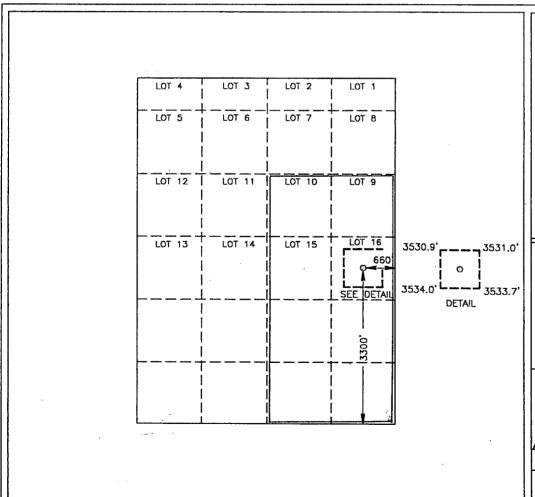
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
16	3	16-S	27-E		3300	SOUTH	660'	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	East/West line	County
Dedicated Acre	g Joint o	r Infill Co	nsolidation (ode Ord	ler No.			<u> </u>	
320									

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



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Darol K. Ramey

Printed Name

Agent

Title

June 26, 2003

Date

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 supervison, and that the same is true and correct to the best of my belief.

APRIL 1, 2003

Date Surveyed mulliming

A.W.B.

omle

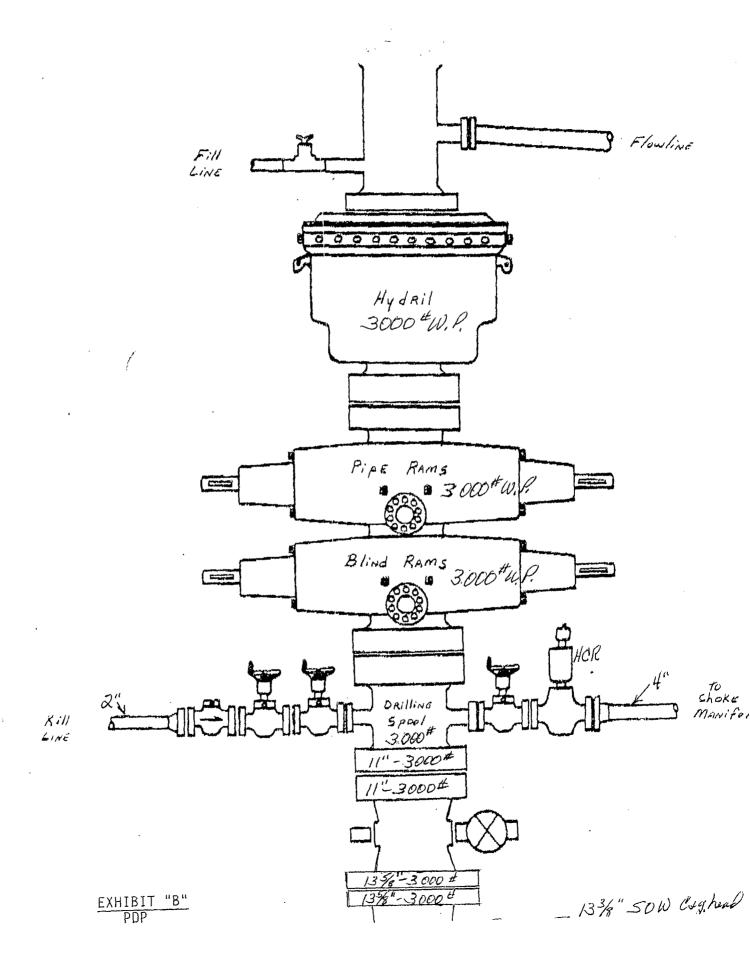
Signature & Scal of E N MEXIC

03,11.0355

Certificate No. RONALD 1. EIDSON

ROFESSION

ROFESSION 3239 Thing The



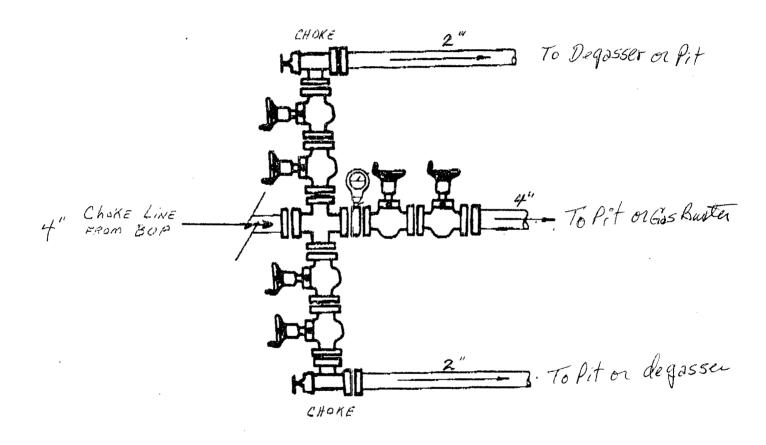
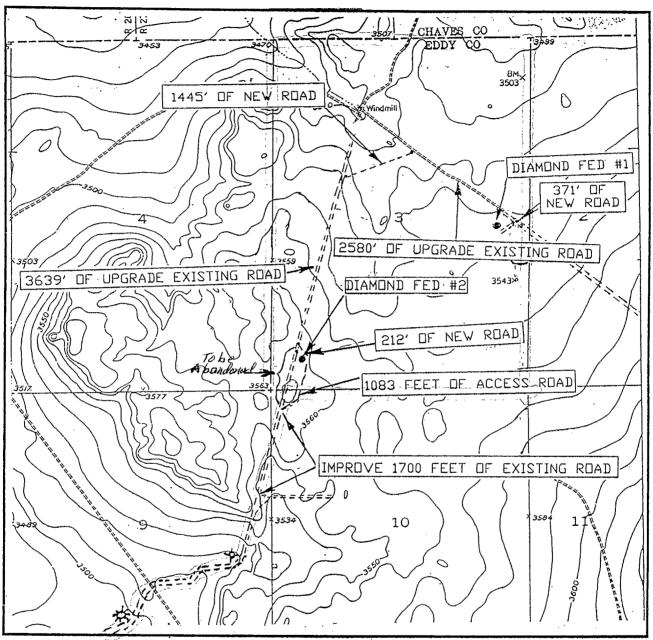


EXHIBIT "C"
PDP

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10' ARTESA NE, N.M.

SEC. 3 TWP. 16—S RGE. 27—E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 3300' FSL & 660' FEL

ELEVATION 3533'

OPERATOR RUBICON OIL AND GAS, LLC

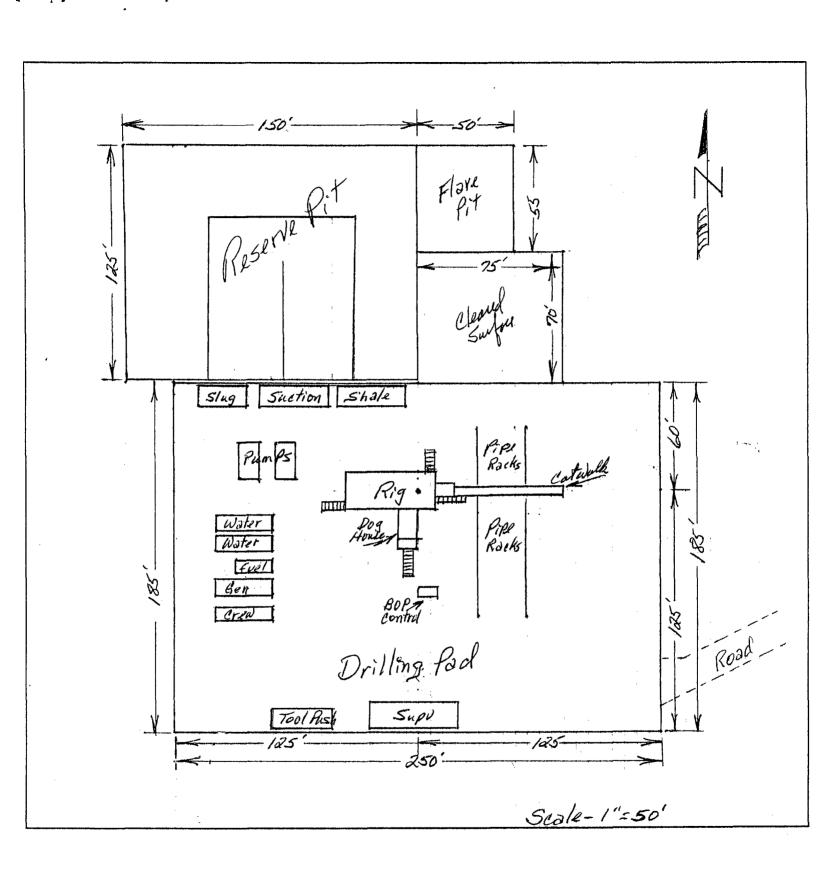
LEASE DIAMOND FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

ARTESA NE, N.M.

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

EXHIBIT "B"



DIAMOND FEDERAL #1

EXHIBIT "C"

M-PSU