N.M. Oil Cons. DIV-Dist. 2 1301 W. Grand Avenue

Form 3160-3 (July 1992)

UNITED STATES OF THE INTERIOR SUBJECT IN TRIPLICATE.

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

	•	NT OF THE IN OF LAND MANAGI		U. LEASE DESIGNATION AND SERIAL NO.		
	NMNM-109423					
	CATION FOR	PERMIT TO D	RILL OR DEEPEN	6. IF INDIAN, ALLOTTER OR TRIBE NAME		
la. TYPE OF WORK	LL X	DEEPEN [7	7. DNIT AGREDMENT NAME		
b. TYPE OF WALL		DELIFEIN L				
WELL OA	ELL X OTHER		SINGLE X 29 20 61	8. FARM OR LEASE NAME, WELL NO.		
2. NAME OF OPERATOR			20NII (A) 20 20NII			
Rubicon Oil &	Gas, LLC		/\(\sigma^{\sigma}\)	Diamond Federal #2		
400 III I T33		100	Texas 20701	1 30-015-32933 W10. FIRLD AND FOOL, OR WILDCAT		
4. LOCATION OF WELL (Re	Ols - Suite port location clearly	130. Midland,	any State requirements	40		
Unit U, 660' F	SI & 6601 EVII		12 12	Wildcat - Morrow 11. BEC. T. R. M., OR BLK. AND BURYEY OR AREA		
At proposed prod. zon			10 VA	AND BURYET OR THEY		
Same			ORRIGHT CE 25 81 (18)	Sec. 3. T16S R27F 12. COUNTY OR PARISH 18. STATE		
Same 14. Distance in Miles A			orricus. 2817181	12. COUNTY OR PARISH 18. STATE		
9 Miles Northe	<u>ast of Artesi</u>	a, New Mexico		Fddy New Mexico		
፤ ሰሮኔጥ፤ለህ ምለ ህዩ ነ ከኮሮሞ	. 1 12 4	SP = 000 1	16. NO. OF ACRES IN LEASE	TO THIS WELL		
PROPERTY OR LEASE L (Also to nearest drig 18. DISTANCE FROM PROPE	unit line, if any) U	nit - 660'	886 acres±	320 20. ROTABY OR CABLE TOOLS		
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	NILLING, COMPLETED,	4776'	8800'			
21. ELEVATIONS (Show who				Rotary 22. APPROX. DATE WORK WILL START*		
GR - 3561'		KOSWELL CO	NTROLLED WATER BAS	September 15, 2003		
23.		PROPOSED CASIN	IG AND CEMENTING PROGRA	M		
SIZE OF ROLE	GRADE SIZE OF CASING	Weight per fo	OT SUTTING DEPTH	QUANTITY OF CEMENT		
17-1/2" WITNES	S 13-3/8", H-4	3 48#	800' WITNE	g <mark>0</mark> 00 sx "C" - Circulate		
11"	8-5/8", J-5	5 24#	1700'	700 sx - Circulate		
7-7/8"	5-1/2", J-5		0' - 1000'	11300 av FTOC 15001		
1	5-1/2", J-5 5-1/2", J-5		680 <u>0' - 8800'</u>	∬1100 sx - ETOC - 1500'		
	5-1/2, 0-5		1UD PROGRAM			
INTERVAL	MUD WEIGHT	VISCOSITY	WL CONTROL	REMARKS		
0 - 800'	8.6 - 9.0	32 - 34	N/C	Fresh Water, Gel, Lime		
800 - 1700'	9.0 - 9.2	29 - 30	N/C	Cut Brine		
1700 - 7500'	8.4 - 9.2	28 - 30	N/C	Fresh Water, Cut Brine		
7500 - 8300'	9.2 - 9.5 30 - 33		<20 cc	Cut Brine, Starch, Polymer		
3300 - 8800'	9.2 - 9.8	34 - 45	10 cc	Cut Brine, Salt Gel, Starch		
v 13 E/On 3000	# double mam	PAD will be in	BOP PROGRAM	3/8" casinghead and tested to		
1000# with the r	ia numn An	11" - 3000# da	nuble ram ROP and a	n 11" - 3000# annular BOP will		
be installed on	the 8-5/8" ca	sina spool. I	The spool, double r	am BOP, annular BOP and Choke		
		00# by a third	l party certified t	ester before drilling out the		
8-5/8" cement an		A DD	POVAL SUBJECT	TO		
		CEN	TO AL REOUREM	EN 12		
IN ABOVE SPACE DESCRIB	E PROPOSED PROGRAM	: If proposal is to deepends	A CONTOCTOR DESIGNATION	Adpioble ow productive zone. If proposal is to drill or enter program, if any.		
deepen directionally, give perting	nent data on subsurface loc	ations and measured and the	ACHED	enter program, it any.		
	IN	つ /	<u>.</u>	6 25 02		
SIGNED /	1071	Lamentin	a Agent	DATE 6-25-03		
(This space for Fede	ral or State office use					
PERMIT NO.			APPROVAL DATE	:		
Application approval does r	not warrant or certify that th	e applicant holds legal or equ	nitable title to those rights in the subject	lease which would entitle the applicant to conduct operations there		
CONDITIONS OF APPROVAL			anG:	APPROVAL FOR 1 YEA		

FIELD MANAGER

/s/ Joe G. Lara

PROPOSED DRILLING PROGRAM

RUBICON OIL & GAS, LLC DIAMOND FEDERAL #2 660' FSL & 660' FWL of 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' Surface Casing
Oil with Gas – Queen 810' -910' Intermediate Casing
San Andres -1510' -2400' Production Casing
Glorietta - 2900' -3100' 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 #2

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 September 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
State Lease - 4 Copies
Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV

DISTRICT III

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

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name		
		Wildcat - Morrow		
Property Code	Property Name	well Number		
	DIAMOND FEDE	CRAL 2		
OGRID No.	Operator Name	Elevation		
194266	RUBICON OIL & G	SAS LLC 3561'		

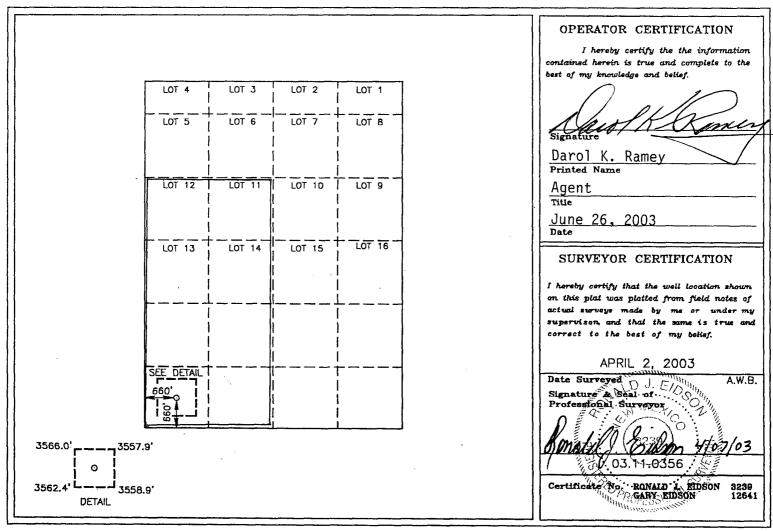
Surface Location

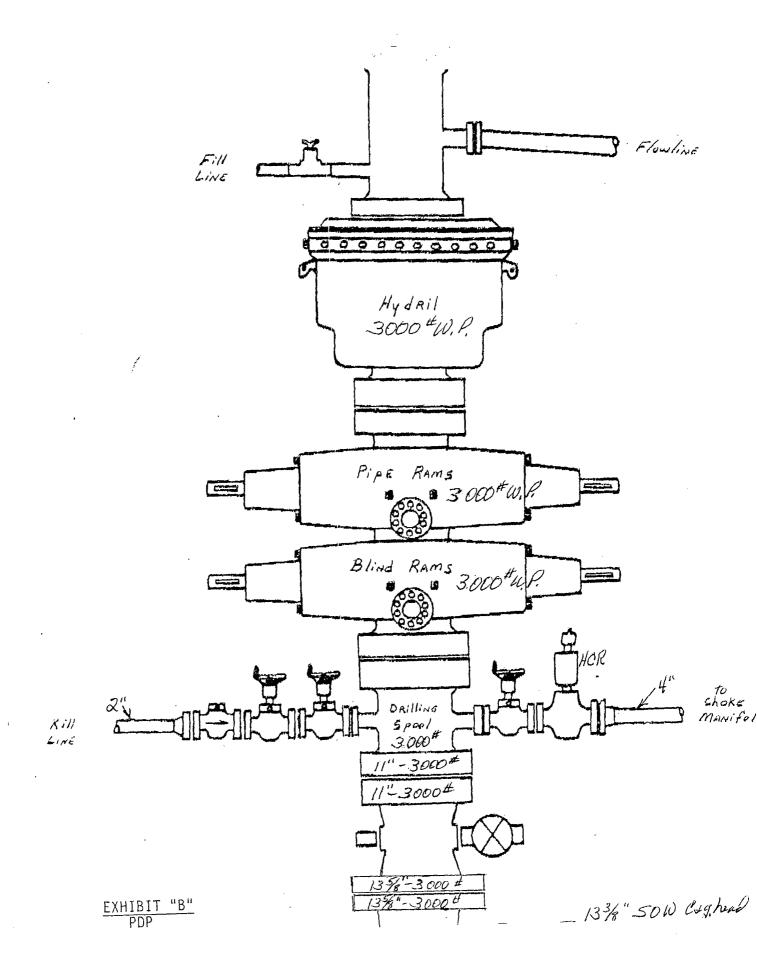
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
U	3	16-S	27-E		660	SOUTH	660'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section 7	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill Cor	solidation C	ode Ord	ler No.	<u> </u>			<u> </u>

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





To Degasser on Pit

To Pit or Giss Buster

2"

To Pit or degasser

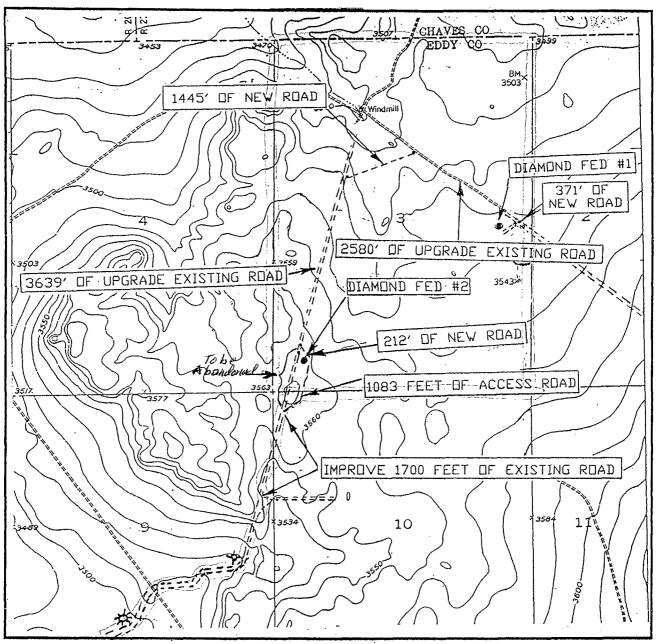
CHOKE

Line

2"

To Pit or degasser

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 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

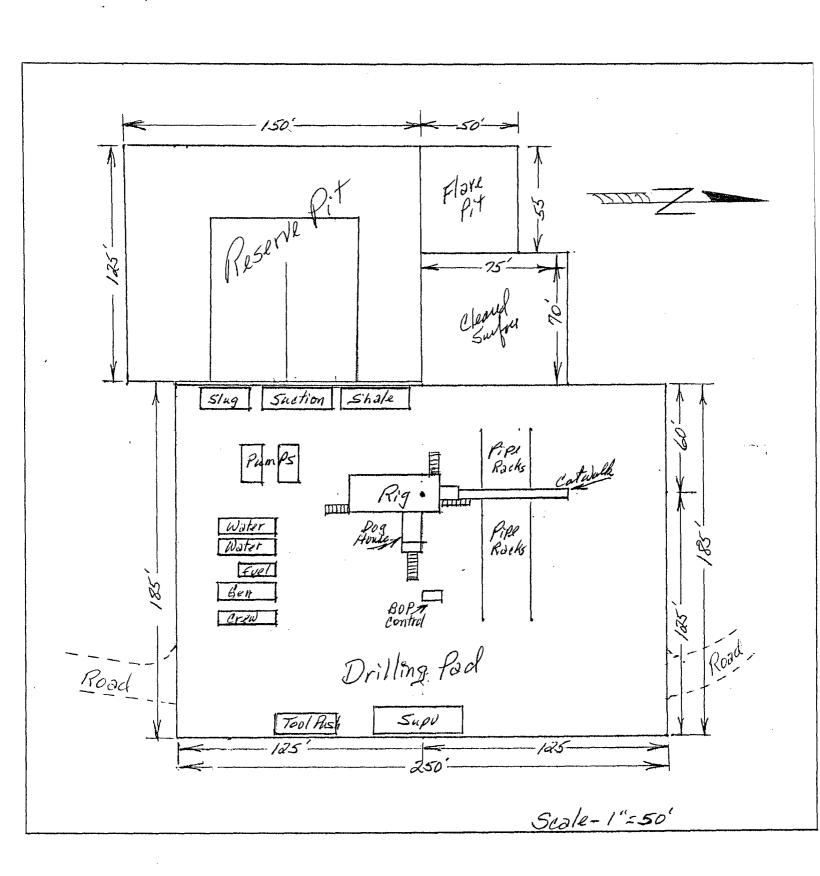
LEASE DIAMOND FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

ARTESA NE, N.M.

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

EXHIBIT "B"
M-PSU



DIAMOND FEDERAL #2

EXHIBIT "C"
M-PSU