9156886007

ABOVE THIS LINE POR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

		dministrative applica		
T	HIS COVERSHEST IS	mandatory for all administrative applicatio	NE FOR EXCEPTIONS TO DIVISION RULES A	ND REGULATIONS
Applie	[PC-Pool [Y	[NSP-Non-Standard Proration Unit] [SD-8]	imultaneous Dedication) ningling) [PLC-Pool/Lease Col rage) [OLM-Off-Lease Measur pasure Maintenance Expansion] jection Fressure Increase]	ement]
[1]	TYPE OF A	PPLICATION - Check Those Which Ap Location - Spacing Unit - Directional I WINSL NSP NDD	Drilling	
	Check [B]	k One Only for [B] and [C] Commingling - Storage - Measuremen DHC CTB PLC		
	[C]	Injection - Disposal - Pressure Increased WFX PMX SWD C	e - Enhanced Oil Recovery IPI GEOR GPPR	
[2]	NOTIFICAT	TION REQUIRED TO: - Check Those  Cl Working, Royalty or Overriding Ro		ply
	[B]	Offset Operators, Leaseholders or S	Surface Owner	
	[C]	Application is One Which Requires	s Published Legal Notice	
	[D]	☐ Notification and/or Concurrent App		
	[E]	Tor all of the above, Proof of Notif	ication or Publication is Attached	, and/or,
	[F]	☐ Waivers are Attached		
[3]	INFORMAT	TION / DATA SUBMITTED IS COMI	PLETE - Statement of Understan	ding
Regu appro ORR	liations of the Coval is accurate and is common.	I, or personnel under my supervision, he Dil Conservation Division. Further, I as and complete to the best of my knowledge I understand that any omission of data required notification is cause to have the Note: Statement must be completed by an in	ssert that the attached application e and where applicable, verify that (including API numbers, pool con application package returned with	n for administrativ all interest (WI, Rides, etc.), pertiner
E118	en D <b>e</b> y	Giru Du	Regulâtory Comp. Spvr.	2-13-98

FEB-13-98 FRI 14:04 2-13-98

TO: Michael E. Stogner State of New Mexico

Energy, Minerals and Natural Resources Dept.

Santa Fe, New Mexico Fax No. 505-827-1389

FR: Maria L. Perez

Burlington Resources Oil & Gas Company

Midland, Texas

Tel. No. 915-688-6906 Fax No. 915-688-6007

RE: Request for 20-Day Offset Notification Clock to Start

Proposed Non-Standard Sub-Surface Bottom Hole Location Application

Due to Topographic Limitations

Corral Draw 9 Federal #1

Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL

Sec. 9, T25S, R29E, Eddy County, New Mexico

Lse. #NM 15303

API# is not assigned yet.

Mike, I'm faxing this application to you so that the 20-day offset notification clock can start on this application for administrative approval for a non-standard subsurface bottom hole location.

All offsets were notified by certified-return receipt mail on 2-13-98





## BURLINGTON RESOURCES

MID-CONTINENT DIVISION

February 13, 1998

Mr. Michael E. Stogner
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505-5472

RE: Proposed Horizontal Well

**Standard Surface Location** 

Non-Standard Sub-Surface Bottom Hole Location

**Due to Topographic Limitations** 

Burlington Resources Oil & Gas Company, OGRID #26485

Corral Draw 9 Federal #1

Corral Draw Wolfcamp Gas Pool, Pool Code 84330

Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL

Section 9, T25S, R29E, Eddy County, New Mexico

Lse. #NM 15303

#### Dear Mr. Stogner:

Burlington Resources Oil & Gas Company desires administrative approval for a non-standard gas producing area/sub-surface bottom hole gas well location for the vertical portion of the wellbore for the proposed horizontal well, pursuant to Division General Rule 104.F and 111.C(2) to be applicable to the Corral Draw Wolfcamp (Gas) Pool for the Corral Draw 9 Federal #1, located at a standard surface location NE/4 NW/4, 660' FNL & 1650' FWL, (Unit C) of Section 9, T25S, R29E, Eddy County, New Mexico. The N/2 of said Section 9, being a standard 320-acre gas spacing and proration unit for this interval is to be dedicated to said well.

Burlington's request for an unorthodox subsurface bottom hole location of NE/4 NW/4, 560' FNL & 1500' FWL, (Unit C) of Section 9, T25S, R29E, Eddy Co., NM, will allow for potential drilling bit drift to the northwest due to natural drift tendencies during normal vertical rotary drilling operations. Our options to move the surface location to the south and east are closed by topographical limitation (i. e. archeological sites, drainage, and existing oil field facilities). Enclosed is the location plat for this proposed well showing the surface location, proposed kick-off point, wolfcamp penetration point and horizontal bottom hole location.

3300 N. "A" St., Bldg. 6, 79705-5406, P.O. Box 51810, Midland, Texas 79710-1810, Telephone 915-688-6800

Page -2-

We are currently putting together the federal application pakage for the permit to drill. A copy will be mailed to you as soon as the drilling plan has been prepared. Burlington requests that the 20-day offset notification clock start today. All affected offsets have been notified by certified return-receipt mail on February 13, 1998. A list with the names and addressed of the affected offsets is enclosed.

The applicable drilling window or "producing area" within the Corral Draw Wolfcamp Gas Pool for said wellbore shall include that area within the subject 320-acre spacing and proration unit comprising the N/2 of said Section 9 that is:

- (a) no closer than 660 feet to the North & South boundary of said 320-acre unit;
- (b) no closer than 1650 feet from the East and West Lines of said Section

Burlington Resources will comply with all provision of Division General Rule 111 applicable in this matter. Please call me if you require additional information on this application.

Sincerely,

Maria L. Perez

Regulatory Representative

Maria L. Perez

A/C 915-688-6906

cc: New Mexico Oil Conservation Division - Artesia

U. S. Bureau of Land Management - Roswell

(s:mip1:Correl Draw 9 Fed. #1)

Burlington Resources Oil & Gas Co., OGRID# 26485 Corral Draw 9 Federal #1 Corral Draw Wolfcamp Gas Pool Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL Sec. 9, T25S, R29E, Eddy County, New Mexico Lse. # NM 15303

#### NAME AND ADDRESSES OF AFFECTED OFFSETS

#### (North and NW corner of 320ac Spacing & Proration Unit)

Sec. 4 & 5, T25S, R29E

Chevron U. S. A. Inc. P. O. Box 1635 Houston, Texas 77251

#### (West of 320ac Spacing & Proration Unit)

N/2 of Sec. 8, T25S, R29E

Exxon Corporation P. O. Box 2305

Houston, Texas 77252

HMJ Minerals, Inc. P. O. Box 1240 Graham, Tesxas 76450

MRL Partners, LP Five Post Oak Park, Suite 1010 Houston, Texas 77027

L. R. French, Jr. P. O. Box 11327

Midland, Texas 79707

Turnco, Inc. P. O. Box 1240 Graham, Texas 76046

H. M. Bettis, Inc. P. O. Box 1240 Graham, Texas 76046

Stoval Investment, Inc. P. O. Box 10 Graham, Texas 76046 James R. Guinn Jr., Trustee of The James R. Guinn Family Trust & The James R. Guinn

Family Trust A

500 E. Border, Suite 885 Arlington, Texas 76010

L. E. Opperman 1505 Neely

Midland, Texas 79705

The Allar Company P. O. Box 630 Graham, Texas 76046

Edward K. Gaylord, II

Rt. 5, Box 393

Guthrie, Oklahoma 73044

B. A. G. A. M., LTD P. O. Box 37

Graham, Texas 76046

CNG Producing Company

P. O. Box 2115

Tulsa, Oklahoma 74101

9156886007

T-386 P.06/08 Job-220. ....

Form C=102 Revised 02-10-94

instructions on book

Submit to the Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

AMENDED REPORT

#### <u>district i</u> P. O. Box 1980 Hobbs, NM 88241-1980

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

DISTRICT III 1000 Rio Brozos Rd. Aztec, NM 87410

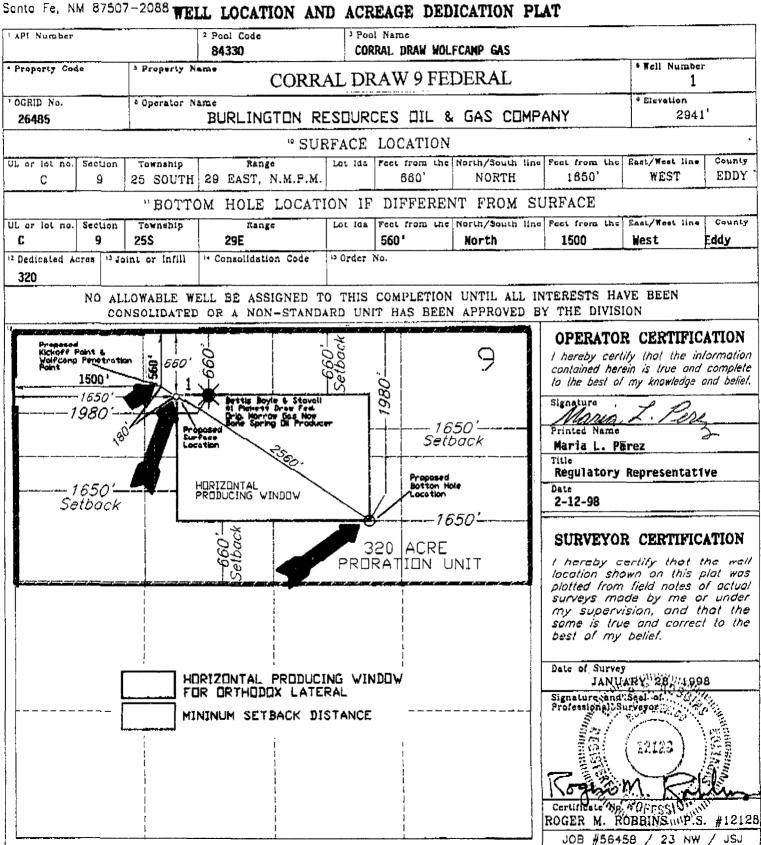
## OIL CONSERVATION DIVISION P. O. Box 2088

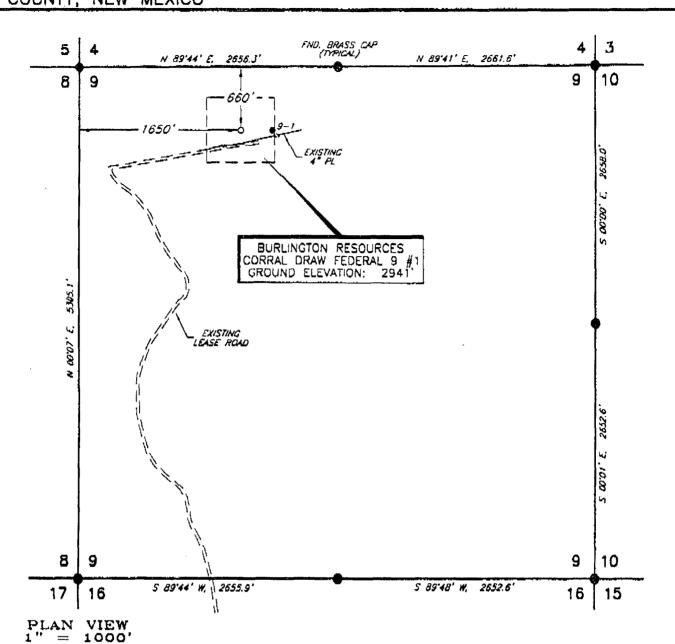
Santa Fe, New Mexico 87504-2088

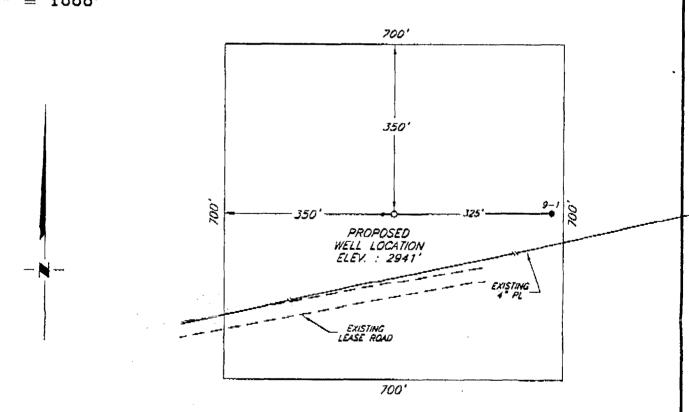
State of New Mexico

Energy, Minerals, and Natural Resources Department

DISTRICT IV P. O. Box 2088



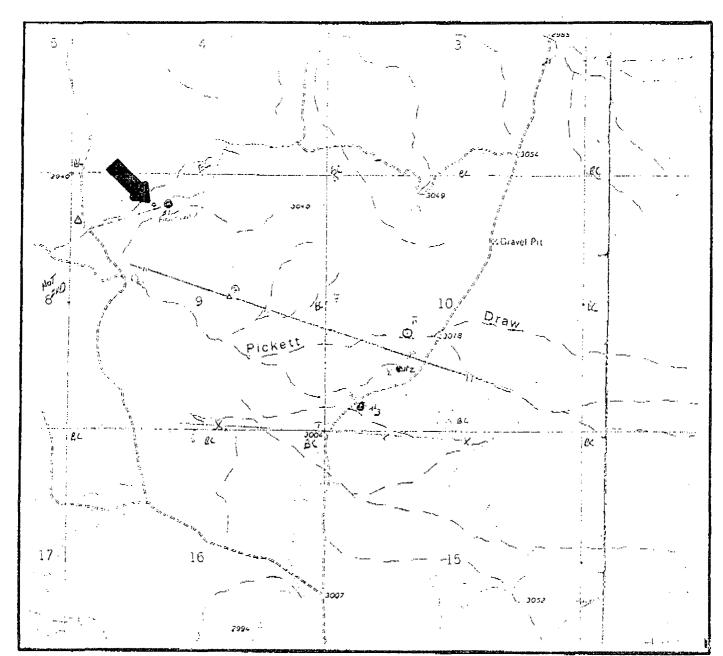




DETAIL VIEW 1" = 50'

NO. REVISION	DATE	BY	BURLINGTON OIL & GAS RESOURCES COMPANY	SCALE: AS SHOWN DATE: JANUARY 28, 1998 JOB NO.: 56458
SURVEYED BY:	R.R.		SURVEYING AND MAPPING BY	
DRAWN BY:	JSJ		TOPOGRAPHIC LAND SURVEYORS	23 NW
APPROVED BY:	R.M.R.		MIDLAND, TEXAS	SHEET : 1 OF 1
FEB-13-98	FRI	1	4:07 9156886007	P.07

### LOCATION & ELEVATION VERIFICATION MAP



SCALE : 1" = 2000'

LONG. .

10 CONTOUR INTERVAL

SECTION			(GE	53-E
SURVEY	NEW MEXICO P	RINCIPAL MER	IDIAN	
COUNTY	EDDY	STATE	NM	
DESCRIPTION	660'	FNL & 1650'	FWL	
ELEVATION	an ann a Maria ann an a	2941'		
OPERATOR	BURLINGTON I	RES. OIL &	GAS	co.
	CORRAL DE			
	OGRAPHIC MAP	N, NEW MEXIC	:0	

W 103'59'31,9"



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 plot and notify us immediately of any possible discrepancy.

possible discrepancy.

## TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382

6709 N. CLASSEN BLVD. OKLAHCHA CITY, OK. 73116 (650) 654-3219

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

## BURLINGTON RESOURCES

MID-CONTINENT DIVISION

March 5, 1998

Mr. Michael E. Stogner Energy, Minerals and Natural Resources Dept. Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505-5472

RE: Package for partially submitted application of 2-13-98

> **Proposed Horizontal Well Standard Surface Location** Non-Standard Sub-Surface Bottom Hole Location

**Due to Topographic Limitations** 

Burlington Resources Oil & Gas Company, OGRID #26485

Corral Draw 9 Federal #1

Corral Draw Wolfcamp Gas Pool, Pool Code 84330 Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL Section 9, T25S, R29E, Eddy County, New Mexico

Lse. #NM 15303

#### Dear Mr. Stogner:

Burlington Resources Oil & Gas Company desires administrative approval for a non-standard gas producing area/sub-surface bottom hole gas well location for the vertical portion of the wellbore for the proposed horizontal well, pursuant to Division General Rule 104.F and 111.C(2) to be applicable to the Corral Draw Wolfcamp (Gas) Pool for the Corral Draw 9 Federal #1, located at a standard surface location NE/4 NW/4, 660' FNL & 1650' FWL, (Unit C) of Section 9, T25S, R29E, Eddy County, New Mexico. The N/2 of said Section 9, being a standard 320acre gas spacing and proration unit for this interval is to be dedicated to said well.

Burlington's request for an unorthodox subsurface bottom hole location of NE/4 NW/4, 560' FNL & 1500' FWL, (Unit C) of Section 9, T25S, R29E, Eddy Co., NM, will allow for potential drilling bit drift to the northwest due to natural drift tendencies during normal vertical rotary drilling operations. Our options to move the surface location to the south and east are closed by topographical limitation (i. e. archeological sites, drainage, and existing oil field facilities). Enclosed is the location plat for this proposed well showing the surface location, proposed kick-off point, wolfcamp penetration point and the proposed horizontal bottom hole location at UL-G, 1980' FNL, 1650' FEL of said Section 9.

Enclosed is the federal application pakage for the permit to drill. Burlington requested that the 20-day offset notification clock start February 13, 1998. All affected offsets were notified by certified return-receipt mail on February 13, 1998. A list with the names and addressed of the affected offsets is enclosed.

The applicable drilling window or "producing area" within the Corral Draw Wolfcamp Gas Pool for said wellbore shall include that area within the subject 320-acre spacing and proration unit comprising of the N/2 of said Section 9 that is:

- (a) no closer than 660 feet to the North & South boundary of said 320-acre unit;
- (b) no closer than 1650 feet from the East and West Lines of said Section 9.

Burlington Resources will comply with all provision of Division General Rule 111 applicable in this matter. Please call me if you require additional information on this application.

Sincerely,

Maria L. Perez Regulatory Representative A/C 915-688-6906

cc: New Mexico Oil Conservation Division – Artesia
U. S. Bureau of Land Management – Roswell

(s:mlp1:Corral Draw 9 Fed. #1)

Burlington Resources Oil & Gas Co., OGRID# 26485 Corral Draw 9 Federal #1 Corral Draw Wolfcamp Gas Pool Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL Sec. 9, T25S, R29E, Eddy County, New Mexico Lse. # NM 15303

#### **NAME AND ADDRESSES OF AFFECTED OFFSETS**

#### (North and NW corner of 320ac Spacing & Proration Unit)

Sec. 4 & 5, T25S, R29E

✓ Chevron U. S. A. Inc.P. O. Box 1635Houston, Texas 77251

#### (West of 320ac Spacing & Proration Unit)

N/2 of Sec. 8, T25S, R29E

- ✓ Exxon Corporation P. O. Box 2305 Houston, Texas 77252
- HMJ Minerals, Inc.P. O. Box 1240Graham, Tesxas 76450
- ✓ MRL Partners, LP Five Post Oak Park, Suite 1010 Houston, Texas 77027
- ✓ L. R. French, Jr.
   P. O. Box 11327
   Midland, Texas 79707
- ✓ Turnco, Inc.P. O. Box 1240Graham, Texas 76046
- H. M. Bettis, Inc.P. O. Box 1240Graham, Texas 76046
- ✓ Stoval Investment, Inc.
   P. O. Box 10
   Graham, Texas 76046

James R. Guinn Jr., Trustee of The James R. Guinn Family Trust & The James R. Guinn Family Trust A 500 E. Border, Suite 885 Arlington, Texas 76010

- ✓ L. E. Opperman1505 NeelyMidland, Texas 79705
- ✓ The Allar CompanyP. O. Box 630Graham, Texas 76046
- ✓ Edward K. Gaylord, II Rt. 5, Box 393 Guthrie, Oklahoma 73044

B. A. G. A. M., LTD P. O. Box 37 Graham, Texas 76046

P. O. Box 2115
Tulsa, Oklahoma 74101

re-sent 2-23-98

I Four Greenspoint Plaza 175

16945 Northchase Dr., Suite H

Houston, Tx 77060-2133

#### Form 316Q-3 (July 1992)

## **UNITED STATES**

SUBMIT IN TRIPLICATE\* (Other instructions on reverse side)

FORM APPROVED

## **DEPARTMENT OF THE INTERIOR**

RUREALLOE LAND MANAGEMENT

	OMB NO. 1004-0136 Expires: February 28, 1995	
5.	LEASE DESIGNATION AND SERIAL NO.	
	NM 15303	
6.	IF INDIAN, ALLOTTEE OR TRIBE NAME	
7.	UNIT AGREEMENT NAME	-

APP	<del></del>	OP LAND MANA				6. IF INDIAN, ALLOTTEE C	OR TRIBE NAME
	<u>LICATION FO</u>	R PERMIT TO	O DR	ILL OR DEEPE	N	7. UNIT AGREEMENT NAM	
a. TYPE OF WORK	RILL X	DEEPEN [				7. UNII AGREEMENI NAM	
b. TYPE OF WELL OIL	a.a. 🗔			SINGLE MILLERY	- C	2 PART OF A PAGE VALVE	TIEL NO
WELL	GAS WELL X OTHER	HORIZONTAL WELL		SINGLE X MULTIPL ZONE ZONE	<u></u>	8. FARM OR LEASE NAME CORRAL DRAW 9	, WELL NO. #1
NAME OF OPERATOR	IDAEC 071 A 046 A	OLID AND /				FEDERAL	<i>"</i> –
BURLINGTON RESOU ADDRESS AND TELEPHON	<u>IRCES OIL &amp; GAS CO</u> NENO.	JMPANY				9. API WELL NO.	
	Midland, TX 797				88-6906	10. FIELD AND POOL, OR V	VILDCAT
LOCATION OF WELL (Rep At surface	port location clearly and in a	ccordance with any State r	equireme	nts.*)		CODDAL DDALLUC	N ECAMO CAS
, 660° FNL & 16 At proposed prod. zone	50' FEL-SURF. LO	C. / C, 560' FN	L & 15	00' FWL-TOP PROD.I	NTRVL.	CORRAL DRAW WO	К.
	L650' FEL-BOTTOM	HOLE LOCATION				AND SURVEY OR AREA SEC. 9. T25S.	
	D DIRECTION FROM NEARES				· · · · · · · · · · · · · · · · · · ·	12. COUNTY OR PARISH	13. STATE
MILES SE FROM		·				EDDY	NM
DISTANCE FROM PROPO LOCATION TO NEAREST	•		16. NO.	OF ACRES IN LEASE	17. NO. OF TO THIS	ACRES ASSIGNED WELL	
PROPERTY OR LEASE LI (Also to nearest drig, un	nit line, if any) 560		320			320	· · · · · · · · · · · · · · · · · · ·
<ul> <li>DISTANCE FROM PROPO TO NEAREST WELL, DRI</li> </ul>	ILLING, COMPLETED.			POSED DEPTH	1	Y OR CABLE TOOLS	
OR APPLIED FOR, ON TH		MORROW GAS	13,	415'MD,11,169'TVD	ROTA		WANT OF A DEC
ELEVATIONS (Show wh	etner Dr, KI, GR, etc.)	,				22. APPROX. DATE WOR	
941' GR		PROPOSED GLORA				MARCH 31, 19	770
	T	<del></del>		EMENTING PROGRAM			
SIZE OF HOLE 17-1/2"	13-3/8", H-40, S		OT	SETTING DEPTH	625 ()	QUANTITY OF CEN	1ENT
						KS - SURFACE	
12-1/4" 8-3/4"	9-5/8",K-55,L 7",P-110,LT0			2900' 10,100'-10,800'		KS - SURFACE SXS, TOC 2500',D\	/ TOOL 7000
0-3/4	/ / /-110, [10	2011		SEE REMARKS ON		INT DRILLING PLAN	
PLUG BACK TO	) KICK-OFF POINT		FINAL	AZIMUTH = 124 DEG INCLINATION = 89.6		S	
PACKER. (TO NOT IN POTAS N ABOVE SPACE DESCR	OP OF LINER @ +/- SH AREA. RIBE PROPOSED PROGRAM	INER. HANG OFF 10,600'). LIN	TOTAL  IN 7" ER WIL	VERTICAL SECTION = DEPTH = 13,415' ME CSG WITH MECHANIC L NOT BE CEMENTED.  data on present productive zon cal depths. Give blowout preven	CAL LINE	R HANGER AND ISO	
PACKER. (TO NOT IN POTAS ABOVE SPACE DESCRIPTION OF SIGNED AND MAKES	OP OF LINER @ +/- SH AREA.  RIBE PROPOSED PROGRAL  ertinent data on subsurface to	INER. HANG OFF 10,600'). LIN  M: If proposal is to dee ocations and measured and	TOTAL  IN 7" ER WIL	DEPTH = 13,415' MC CSG WITH MECHANIC L NOT BE CEMENTED.	CAL LINE	Sed new productive zone. If	proposal is to drill
PACKER. (TO NOT IN POTAS N ABOVE SPACE DESCR sepen directionally, give po	OP OF LINER @ +/- SH AREA.  RIBE PROPOSED PROGRAL  ertinent data on subsurface to	INER. HANG OFF 10,600'). LIN  M: If proposal is to dee ocations and measured and	TOTAL  IN 7" ER WIL	DEPTH = 13,415 ME  CSG WITH MECHANIC  L NOT BE CEMENTED.  data on present productive zon cal depths. Give blowout preven	CAL LINE	sed new productive zone. If	proposal is to drill
PACKER. (TO NOT IN POTAS ABOVE SPACE DESCRIPTION ABOVE SPACE DESCRIPTION OF THE SIGNED ABOVE SIG	OP OF LINER @ +/- SH AREA.  RIBE PROPOSED PROGRAL  ertinent data on subsurface to	INER. HANG OFF 10,600'). LIN  M: If proposal is to dee ocations and measured and	IN 7"ER WIL	DEPTH = 13,415 ME  CSG WITH MECHANIC  L NOT BE CEMENTED.  data on present productive zon cal depths. Give blowout preven	CAL LINE	sed new productive zone. If	proposal is to dril
PACKER. (TO NOT IN POTAS NABOVE SPACE DESCRETE PROPERTY OF THE PACKET. SIGNED AND ADDRESS OF THE PERMIT NO.	OP OF LINER @ +/- SH AREA.  RIBE PROPOSED PROGRAL ertinent data on subsurface to  L. Pere	INER. HANG OFF 10,600'). LIN  M: If proposal is to dee ocations and measured and	TOTAL  IN 7" ER WIL	DEPTH = 13,415 ME CSG WITH MECHANIC L NOT BE CEMENTED.  data on present productive zon cal depths. Give blowout preve	CAL LINE  me and proposenter program	sed new productive zone. If n, if any.  DATE 3-5-98	proposal is to dril
PACKER. (TO NOT IN POTAS N ABOVE SPACE DESCR sepen directionally, give po  (This space for Federal PERMIT NO. Application approval does	OP OF LINER @ +/- SH AREA.  RIBE PROPOSED PROGRAL ertinent data on subsurface to  L. Pere	INER. HANG OFF 10,600'). LIN  M: If proposal is to dee ocations and measured and	TOTAL  IN 7" ER WIL	DEPTH = 13,415 ME CSG WITH MECHANIC L NOT BE CEMENTED.  data on present productive zon cal depths. Give blowout prevent  GULATORY REPRESENT  APPROVAL DATE  ights in the subject lease which would	CAL LINE  Te and proposenter program  TATIVE	sed new productive zone. If n, if any.  DATE 3-5-98	proposal is to dril

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

Artesia, NM 88211-0719

1000 Rio Brazos Rd.

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

Form C-102 Revised 02-10-94

Instructions on back

### OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Submit to the Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

AMENDED REPORT

DISTRICT IV P. O. Box 2088

Aztec, NM 87410

DISTRICT III

Santo Fe, NM 87507-2088 WILL LOCATION AND ACREAGE DEDICATION PLAT

			L LOCATION AN			MCATION FL			
1 API Number			<sup>2</sup> Pool Code <b>84330</b>	COSB 2 Boof	Name KAL DRAW WOL	FCAMD GAS		•	
Property Coo	le	3 Property N	ame		AW 9 FE			* Well Number	:r
' OGRID No.		* Operator N	BURLINGTON RE	SOURC	ES DIL 8	GAS COMP	ANY	<sup>9</sup> Elevation 294	1'
		1			LOCATION	<del></del>			
UL or lot no.	Section 9	Township 25 SOUTH	Range 29 EAST, N.M.P.M.			North/South line	Feet from the	East/West line WEST	County
		"BOTTO	M HOLE LOCATI	ON IF	DIFFEREN	NT FROM SI	JRFACE	L.,	<u></u>
UL or lot no.	Section 9	Township 25S	Range 29E	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County Eddy
<sup>2</sup> Dedicated Ad	res 13 Jo	int or infill	14 Consolidation Code	15 Order N	0.			<del></del>	-J
			CLL BE ASSIGNED TO OR A NON-STANDA						
1	1500' 1650'- 980'- 650'- tback	GG 1	Bettis Boyle & Stovali Bi Pickett Draw Fed. Drig. Morrow Gas Now Borre Spring Dil Produce Caces Stion  GRIZONTAL RODUCING WINDOW	36	Proposed Botton Ho Location	550	I hereby cert contained here to the best of Signature Printed Name Maria L. Pi Title Regulatory Date 2-12-98  SURVEYOU I hereby co location sho plotted from surveys ma my supervi	Representation R CERTIFIC Parties that the country that t	ive  ATION  the well old was of actual or under hat the
	[	FO	RIZONTAL PRODUCI R ORTHODOX LATER NINUM SETBACK DIS	RAL			JANUSignature and Professional S. Certificate No. ROGER M. R	ARY 28, 199 Seal of urveyor	#1212

OPERATORS NAME:

LEASE NAME AND WELL NO.:

Corral Draw 9 Federal #1

C, 660' FNL & 1650' FWL, Sec. 9, T25S, R29E

FIELD NAME:

COUNTY:

Eddy County, New Mexico

NM 15303

The following information is to supplement BLM form 3160-3 Application for permit to drill in accordance with Onshore Oil and Gas Order No. 1:

## POINT DRILLING PLAN Horizontal Well

1. Name and estimated tops of important geologic formation/marker horizons.

<u>FORMATION</u>	<u>DEPTH</u>
Rustler	Surface
Salado	1,100'
Castille	2,250'
Delaware	2,915'
Bone Springs	6,700'
Wolfcamp	10,090'
Wolfcamp "A"	11,110'

2. Estimated depths at which the top and bottom of formations potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals are expected to be encountered and the operator's plans for protecting such resources.

Wolfcamp	10,090'
Wolfcamp "A" Limestone	11,110'
OTHER ZONES:	
Delaware	2,915'
Bone Springs	6.700'

3. The operator's minimum specifications for Blowout Preventer (BOP) and related equipment to be used and schematic diagrams thereof showing sizes, pressure ratings, and the testing procedures and testing frequency. BOP and BOP - related equipment (BOPE) schematics shall include schematics of choke manifold equipment. Accumulator systems and remote controls shall be utilized.

#### **Surface Csg**

Install 13-3/8" SOW x 13-5/8" 3M psi WP casing head with 36" base plat. Nipple up 13-5/8" 1500 psi WP annular preventer w/rotating head. Test the 13-3/8" casing to 500 psi using rig pump and hold for 30 minutes.

#### **Intermediate Csg**

Install 13-5/8" 3M psi WP x 11" 5M psi WP casing spool. Nipple up 11" 5M x 13-5/8" 5M DSA. NU 13-5/8" 5M psi WP BOP's including annular w/rotating head. (API RP53 Fig 2.C.5 SRRAG). Test ram BOP's and choke manifold to 250 psi and 3,000 psi, test annular BOP to 250 psi and 1,500 psi utilizing a test plug and an independent tester..

#### **Production Csg**

Install 11" 5M psi x 7-1/16" 10M psi tbg head. Test head to 4,350 psi (70 % x Casing Pc of 6,230) or the wellhead manufacturer's recommendation, whichever is less. NU 7-1/16" 10M psi WP BOP's including annular w/rotating head (API RP53 fig 2.C.9 RSRRAG). Test ram BOP's and choke manifold to 250 psi and 10,000 psi, test annular BOP to 250 psi and 3,500 psi utilizing a test plug and an independent tester.

4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

#### CASING:

17-1/2" hole to 600'. Set 13-3/8", 48#, H-40, STC csg @ 600'

12-1/4" hole to 2900'. Set 9-5/8", 36#, K-55, LTC csg @ 2900'

8-3/4" hole to 10,800. Set 7", 26#, P-110, LTC, csg @ See Remarks

Note: 7" casing point may vary between  $10,100^{\circ}-10,800^{\circ}$  depending on hole conditions. Offset data indicates ability to drill to  $10,800^{\circ}$  without any mud weight increase (i.e. 9.0-10.0 ppm base fluid). Casing needs to be set as close to kick off point as possible to minimize open vertical hole during lateral operations.

6-1/8" Pilot Hole to Vertical Total Depth of 11,250'

Plug Back to Kick-off Point @ +/-10,925

Target Azimuth = 124 Degrees Final Inclination = 89.6 Degrees Total Vertical Section = 2355' Total Depth = 13,415' MD, 11,169' TVD

Run 4-1/2" 15.1# P-110 STL Liner. Hang off in 7" casing with mechanical liner hanger & isolation packer. (Top of liner @ +/- 10,600'). Liner will not be cemented.

- 5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.
  - a.) Surface Hole (17-1/2" X 13 3/8" csg): Cmt w/625 sxs Class "C" Cmt + 2% Cacl, .25 pps Flocele.

(Volume estimated using 100% excess to circulate cement to surface).

b.) Intermediate Hole (12-1/4" X 9 5/8" csg): Single Stage

**Lead** w/650 sxs Class "C" Lite Cmt + 6 pps Salt, .25 pps Flocele, **Tail** w/300 sxs Class "C" Cmt, 1% CaCl2.

(Circulate cmt to surface. Volumes estimated using 200% excess).

c.) Production Hole (8-3/4" hole X 7" csg): Two Stage.

**First Stage Lead** w/430 sxs Class "H" Lite, .2% HR-5 (Retarder), **Tail** w/250 sxs Class "H", .4% HALAD-9 (Fluid Loss).

**Second Stage Lead** w/600 sxs Class "C" Lite, .25 pps Flocele, **Tail** w/100 sxs Class "C" + .4% HALAD-9 (Fluid Loss).

DV Tool @  $\pm$  7000'. (TOC @2500' inside 9-5/8". Volumes estimated using 100% excess)

d.) Plugback Cement

+/- 150 sxs Class "H" + .75% CFR-3 (Dispersant), .5 pps D-AIR-1(Defoamer) .6% HALAD-9 (Fluid Loss).

6. The anticipated characteristics, additives, use, and testing of drilling mud to be employed, along with the types and quantities of mud products to be maintained, shall be given. When air or gas drilling is proposed, the operator shall submit the following specific information:

#### Mud Program:

0-600': fresh water, gel, and lime system, MW 8.9 - 9.3 ppg.

600'-2900': brine, MW 10.0 - 10.2 ppg

2900'-10,800': fresh water, cut brine mud MW 9.0 - 9.3 ppg

10,800'-13,415' (6-1/8") Pilot Hole & Lateral Section: weighted water base mud

 $MW_10.0 - 15.0$  ppg.

7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.

a. DST Program: None Planned

b. Core: None Planned

c. Mud Logging: 2000' to TD

d. Logs to be run: Halliburton CNL/LDT, DIL/SFL, GR, CAL BHC, FMI below 7" Logs to be run in vertical hole only

8. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

Potential for abnormal pressure exists from the top of the Wolfcamp to TD. Bottom hole presures at TD is estimated at 7200 psi. Bottom hole temperature 185 F. There is no anticipated Hydogen Sulfide in this known drilling area.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

Anticipated time expected to do this work is 54 days. (Horizontal Well)

#### 12-POINT SURFACE USE PLAN OF OPERATIONS

Burlington Resources Oil & Gas Company
Corral Draw 9 Federal #1
C, 660' FNL & 1650' FWL, Sec. 9, T25S, R29E
Corral Draw Wolfcamp Gas Field
Eddy County, New Mexsico NM 15303

1. Existing Roads: A legible map (USGS topographic, county road, or other such map) labeled and showing the access route to the location, shall be used for locating the proposed well site in relation to a town, village, or other locatable point, such as a highway or county road. All access roads shall be appropriately labeled. Any plans for improvement and/or maintenance of existing roads shall be provided. All roads shall be provided or maintained in a condition the same as or better than before operations. The information provided for use and construction of roads will also be used by BLM for the required Plan of Development for a R/W application as described in Section II C of this Order No. 1.

See Exhibit "A" - topographic land surveyors plat showing existing roads and directions to well site.

2. Access Roads to be Constructed or Reconstructed: All permanent and temporary access roads to be constructed or reconstructed in connection with the drilling of the proposed well shall be appropriately identified and submitted on a map or plat. The proposed route to the proposed drill site shall be shown, including distances from the point where the access route exists established roads. All permanent and temporary access roads shall be located and designed to implement the goals of transportation planning and meet applicable standards of the appropriate SMA, and shall be consistent with the needs of the users. Final selection of the rouge location may be accepted by the SMA as early as the predrill inspection or during approval of the APD.

See Exhibit "B" plat shows existing road.

3. <u>Location of Existing Wells:</u> This information shall be submitted on a map or plat, which includes all recorded wells (water, injection, or disposal, producing, or being drilled) within a 1-mile radius of the proposed location.

See Exhibit "C" - portion of land map showing surrounding wells in area.

4. Location of existing and/or proposed production facilities: For facilities planned either on or off the well pad, a plat or diagram shall be included showing, to the extent known or anticipated, the location of all production facilities and lines to be installed if the well is successfully completed for production. If new construction is planned, the dimensions of the facility layouts are to be shown. This information for off-pad production facilities may be used by BLM for R/W application information as specified in Section II C of Order No. 1.

Production facilities will be built at location.

5. Location of Types of Water Supply: Information concerning water supply, such as rivers, creeks, springs, lakes, ponds, and wells, may be shown by quarter-quarter section on a map or plat, or may be described in writing. The source and transportation method for all water to be used in drilling the proposed well shall be noted if the source is located on Federal or Indian Lands or if water is to be used from a Federal or Indian project. If the water is obtained from other than Federal or Indian lands, the location and transportation method shall be identified. Any access roads crossing Federal or Indian lands that are needed to haul the water shall be described as provided in paragraphs (1) and (2) of this Section. If a water supply well is to be drilled on the lease, the APD shall so state. The authorized officer of BLM may require the filing of a separate APD of a water well.

No available surface or sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported or pumped to the drill site from the nearest commercial source.

6. <u>Construction Materials:</u> The operator shall state the character and intended use of all construction material, such as sand, gravel, stone, and soil material. If the materials to be used are Federally owned, the proposed source shall be shown either on a quarter-quarter section on a map or plat, or in a written description.

Caliche will be obtianed from existing reserve pit located on Maralow's Pickett Draw Federal #1, 660' FNL & 1980' FWL. Caliche pit is on side of this location and Burlington will draw caliche from there. As per conversation between Bobby Winn, Construction Foreman with Burlington Resources Oil & Gas Co. and Mr. Mike Magee with the BLM in Carlsbad, Burlington can draw caliche from this pit as long as Burlington dresses up and contours pit back. Barry Hunt was present during this conversation. See plat attached showing location of caliche pit.

- Methods of Handling Waste Disposal: A written description of the methods and locations proposed for safe containment and disposal of each type of waste material (e.g. cuttings, garbage, salts, chemicals, sewage, etc.) that results from the drilling and completion of the proposed well shall be provided.
  - Drill cuttings disposed into drilling pits.
  - Drill fluids allowed to evaporate in drill pits until pits dry.
  - Produced water during testing drill pits.
  - Produced oil during testing storage tank until sold.
  - Current laws and regulations pertaining to disposal of human waste will be observed.
  - Reserve pit will be plastic lined.
  - Waste paper, garbage, and junk will be disposed of into a special container on location and removed regularly to an approved landfill site. All waste material will be covered with a screen or lid and contained to prevent scattering by wind.
  - All trash and debris will be removed from well site within 30 days after drilling and/or completion operations are finished.
- 8. Ancillary Facilities: All ancillary facilities such as camps and airstrips shall be identified on a map or plat. Information as to location, land area required, and methods to be used in construction shall also be provided.

No Ancillary Facilities are required.

9. Well Site Layout: A plat of suitable scale (not less than 1 inch = 50 feet) showing the proposed drill pad, reserve pit location, access road entry points, and its approximate location with respect to topographic features, along with cross section diagrams of the drill pad and the reserve pit showing all cuts and fills and the relation to topography. The plat shall also include the approximate proposed location and orientation of the drilling rig, dikes and ditches to be constructed, and topsoil and/or spoil material stockpiles.

See Exhibit "D". Sketch for the well pad.

- 10. Plans for Reclamation of the Surface: A proposed interim plan for reclamation stabilization of the site and also final reclamation plan shall be provided. The interim portion of the plan shall cover areas of the drillpad not needed for production. The final portion of the plan shall cover final abandonment of the well. The plan shall include, as appropriate, configuration of the reshaped topography, drainage systems, segregation of spoil materials, surface manipulations, redistribution of topsoil, soil treatments, revegetation, and any other practices necessary to reclaim all disturbed areas, including any access roads and pipelines. An estimate of the time for commencement and completion of reclamation operations, including consideration of weather conditions and other local uses of the area, shall be provided.
  - After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well in as aesthetically pleasing a condition as possible.
  - Any unguarded pits containing fluids will be fenced until filled.
  - After abandonment of well, surface restoration will be in accordance with the Bureau of Land Management Surface Requirements.
- 11. <u>Surface Ownership:</u> The surface ownership (Federal, Indian, State or private) and administration (BLM, FS, BIA, Department of Defense, etc.) at the well location, and of all lands crossed by roads which are to be constructed or upgraded, shall be indicated. Where the surface of the proposed well site is privately owned, the operator shall provide the name, address and telephone number of the surface owner.

Bureau of Land Management 620 E. Greene Street Carlsbad, New Mexico 88220

12. Other Information: Type of bond. The operator shall be covered by a bond in its own name as principal, or by a bond in the name of the lessee or sublessee.

Burlington Resources Oil & Gas is covered by a statewide bond.

#### Operator's Representatives:

Field representatives (Responsible for compliance with approved surface use operations plan.)

Burlington Resources Oil & Gas Company P.O. Box 837 Hobbs, NM 88240 Office: 505-393-5844

Mr. Ed Jackson, Sr. Drilling Foreman

Artesia, NM

Home: 505-746-6173 Mobil: 505-476-7159

Mr. Frank Raybon, Drilling Foreman

Eunice, NM

Home: 505-394-2449 Mobile: 505-369-5367

Jim Kramer, Sr. Staff Drilling Engineer P.O. Box 51810 Midland, TX 79710-1810 Office: 915-688-6843 Home: 915-694-2499

Hal Lee, Drilling Superintendent P.O. Box 51810.
Midland, TX 79710-1810

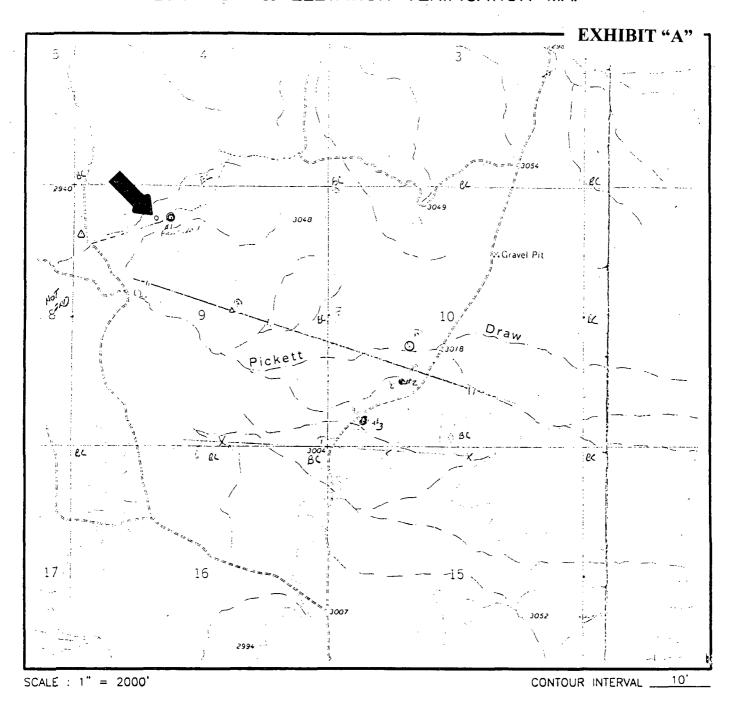
Office: 915-688-6834 Home: 915-685-6073

#### **OPERATORS CERTIFICATION**

I hereby certify that I, <u>Jim Kramer, Senior Staff Drilling Engineer</u>, under my direct supervision, have inspected the proposed drill site and access route that I am familiar with the conditions that currently exist; that the statements made in the APD package are, to the best of my knowledge, true and correct, and that the work associated with operations proposed herein will be performed by **not yet determined** contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM **statewide** bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DATE:	3-5-98
NAME AND TITLE:	Jim Kramer, Senion Staff Drilling Engineer
SIGNATURE:	AM TO PERMIAN AREADILG Supt
	fOR JIM KRAMER

### LOCATION & ELEVATION VERIFICATION MAP



SECTION	9	_ TWP	<u>25~S</u>	R	GE	29-E
SURVEY	NEW M	EXICO PR	INCIPAL	MERI	DIAN	· · · · · · · · · · · · · · · · · · ·
COUNTY	E	DDY	s	TATE _	NM	
DESCRIPTION _		660' F	NL &	650'	FWL	· · · · · · · · · · · · · · · · · · ·
ELEVATION			2941'			
OPERATOR	BURLIN	GTON R	<u>ES.</u> 0	IL &	GAS	CO.
OPERATOR						
_	CO OGRAPHIC	RRAL DRA	W FEDI	ERAL S	9 #1	

w 103'59'31.9"



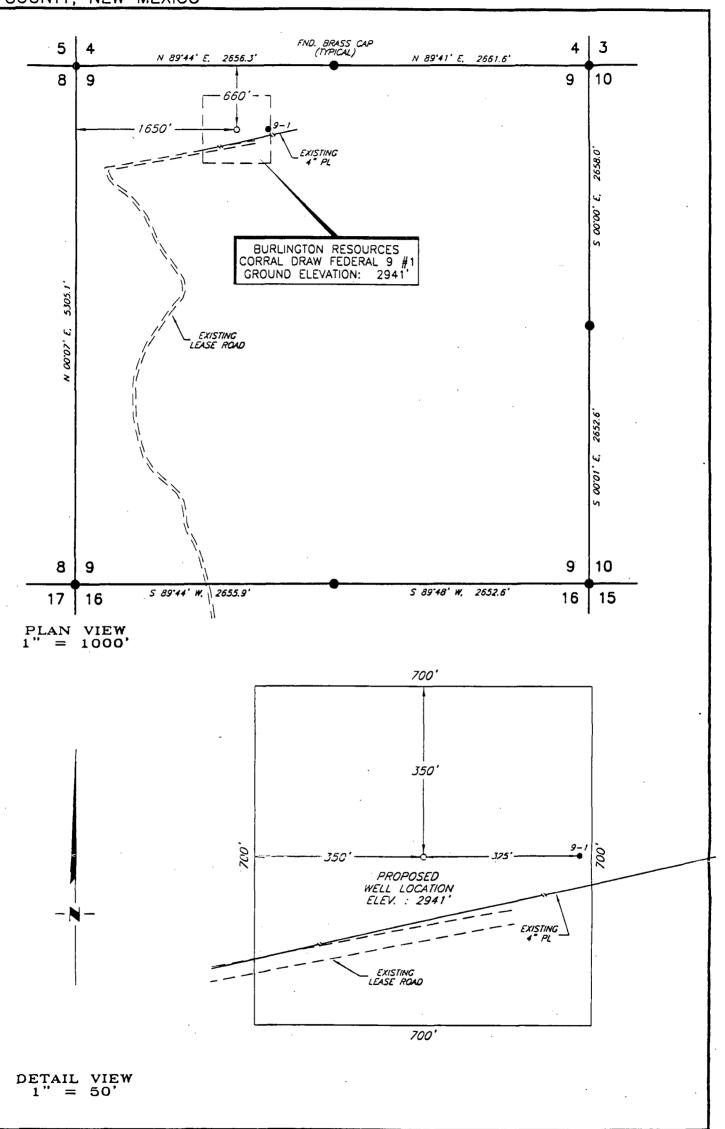
This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

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

## TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

LONG. \_



OIL & GAS

COMPANY

BURLINGTON

RESOURCES

SURVEYING AND MAPPING BY

TOPOGRAPHIC LAND SURVEYORS

MIDLAND, TEXAS

REVISION

SURVEYED BY

APPROVED BY:

DRAWN BY:

DATE BY

R.R.

R.M.R.

JSJ

AS SHOWN

56458

1 OF

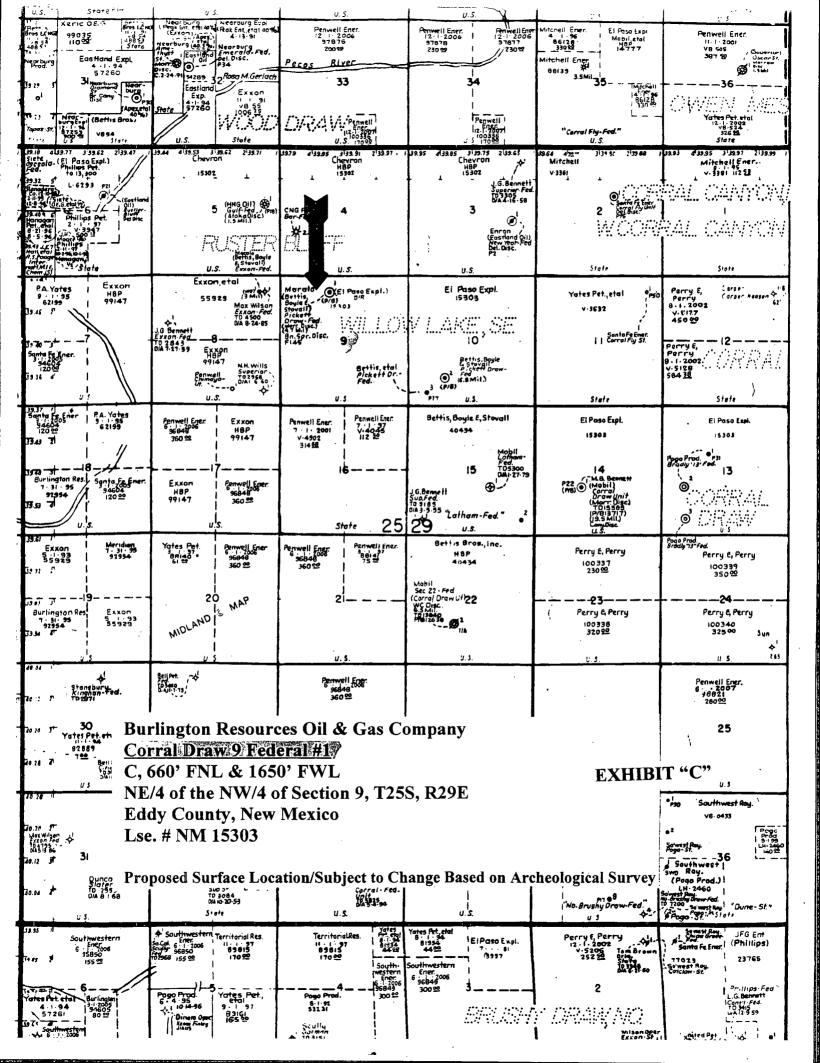
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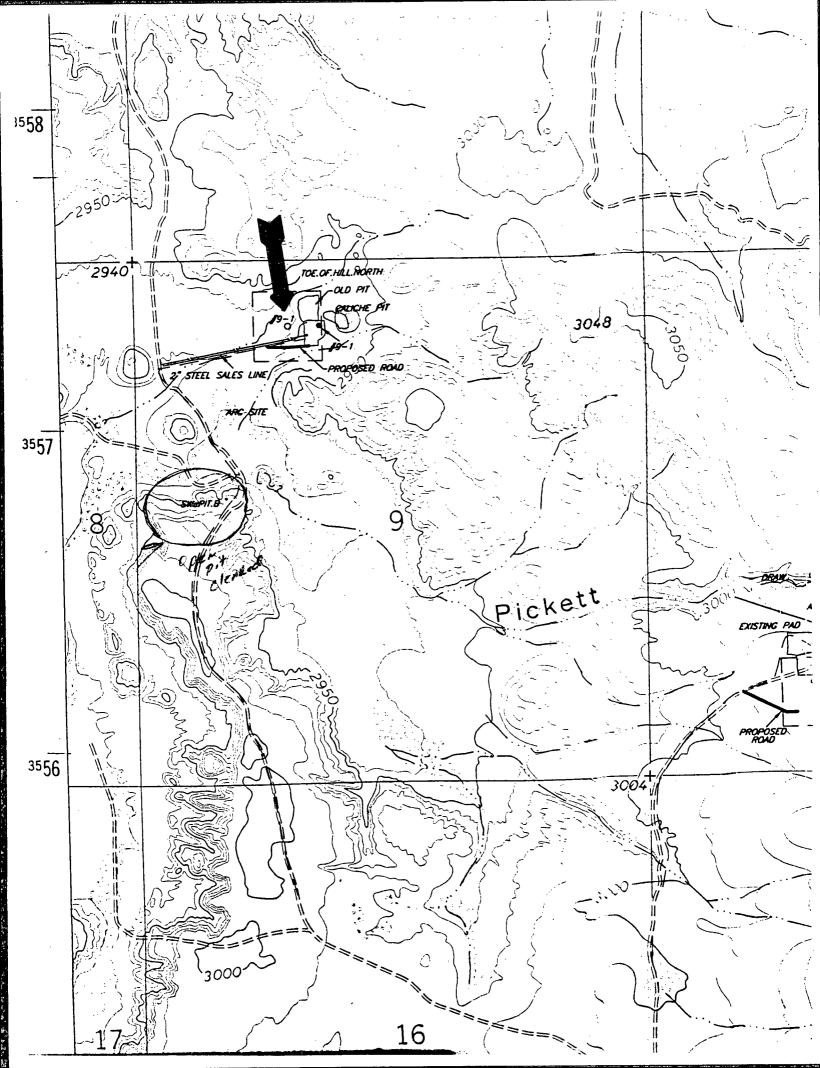
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SCALE:

JOB NO.:

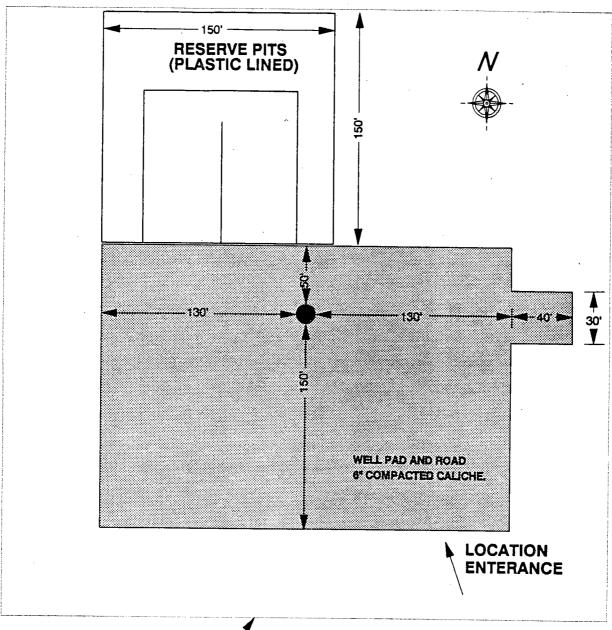
SHEET :





## **BURLINGTON RESOURCES OIL & GAS COMPANY**

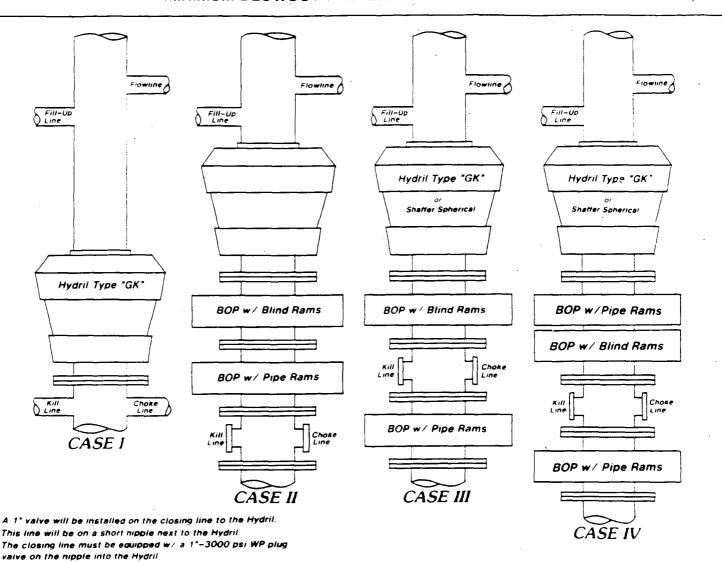
# MID-CONTINENT DIVISION DRILL WELL LOCATION SPECIFICATIONS

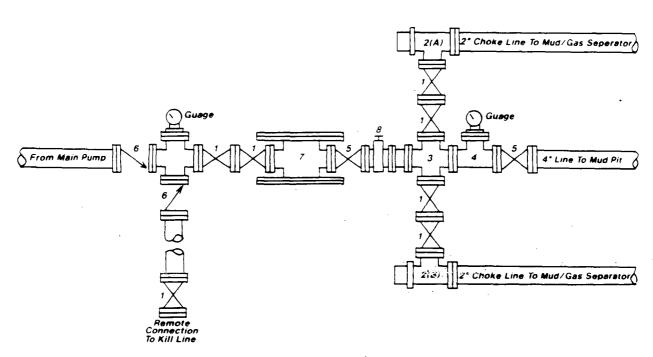


2400' x 400' WELL SITE

## ATTACHMENT "1"

#### MINIMUM BLOWOUT PREVENTER REQUIREMENTS





### Legend

- 1. 2" flanged all steel valve must be either Cameron "F". Halliburton Low Torque, or Shaffer Flo-Seal.
- 2. 2" flanged choke, full opening & equipped w/ hard trim.
  - A. Remote operated
  - B. Adjustable
- 3. 4" x 2" flanged steel cross.
- 4. 4" flanged steel tee.
- 5. 4" flanged all steel valve (Type as in #1).
- 6. 2" flanged check valve.
- 7. Drilling spool  $w/2^*x$  4" flanged steel outlet.
- 8. 4" pressure operated gate valve.

#### Notes

Choke manifold may be located in any convenient position. Use all steel fittings throughout. Make 90° turns with bull plugged tees only. No field welding will be permitted on any of the components of the choke manifold and related equipment upstream of the chokes. The choke spool and all lines and fittings must be at least equivalent to the test pressure of the preventers required. Independent closing control unit with clearly marked controls to be located on derrick floor near driller's position.

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2-17-98 Mr. Stogner. Downent was sent to un company in sur. OWHERSHIP

### BURLINGTON RESOURCES

1998 FEB 16 PM 2: 50

MID:CONTINENT DIVISION

February 13, 1998

Z 236 287 825

Mr. Michael E. Stogner Energy, Minerals and Natural Resources Dept. Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505-5472

MANL

RE:

**Proposed Horizontal Well** Standard Surface Location

Non-Standard Sub-Surface Bottom Hole Location

**Due to Topographic Limitations** 

FEB 2 0 1998 CONSERVATION DIVISION

Burlington Resources Oil & Gas Company, OGRID #26485

Corral Draw 9 Federal #1

Corral Draw Wolfcamp Gas Pool, Pool Code 84330 Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL Section 9, T25S, R29E, Eddy County, New Mexico

Lse. #NM 15303

Dear Mr. Stogner:

Burlington Resources Oil & Gas Company desires administrative approval for a non-standard gas producing area/sub-surface bottom hole gas well location for the vertical portion of the wellbore for the proposed horizontal well, pursuant to Division General Rule 104.F and 111.C(2) to be applicable to the Corral Draw Wolfcamp (Gas) Pool for the Corral Draw 9 Federal #1, located at a standard surface location NE/4 NW/4, 660' FNL & 1650' FWL, (Unit C) of Section 9, T25S, R29E, Eddy County, New Mexico. The N/2 of said Section 9, being a standard 326acre gas spacing and proration unit for this interval is to be dedicated to said well.

Burlington's request for an unorthodox subsurface bottom hole location of NE/4 NW/4, 560' FNL & 1500' FWL, (Unit C) of Section 9, T25S, R29E, Eddy Co., NM, will allow for potential drilling bit drift to the northwest due to natural drift tendencies during normal vertical rotary drilling operations. Our options to move the surface location to the south and east are closed by topographical limitation (i. e. archeological sites, drainage, and existing oil field facilities). Enclosed is the location plat for this proposed well showing the surface location, proposed kick-off point, wolfcamp penetration point and horizontal bottom hole location.

We are currently putting together the federal application pakage for the permit to drill. A copy will be mailed to you as soon as the drilling plan has been prepared. Burlington requests that the 20-day offset notification clock start today. All affected offsets have been notified by certified return-receipt mail on February 13, 1998. A list with the names and addressed of the affected offsets is enclosed.

The applicable drilling window or "producing area" within the Corral Draw Wolfcamp Gas Pool for said wellbore shall include that area within the subject 320-acre spacing and proration unit comprising the N/2 of said Section 9 that is:

- (a) no closer than 660 feet to the North & South boundary of said 320-acre unit;
- (b) no closer than 1650 feet from the East and West Lines of said Section 9.

Burlington Resources will comply with all provision of Division General Rule 111 applicable in this matter. Please call me if you require additional information on this application.

Sincerely,

Maria L. Perez

Regulatory Representative

Maria I. Perez

A/C 915-688-6906

cc: New Mexico Oil Conservation Division - Artesia

U. S. Bureau of Land Management - Roswell

(s:mlp1:Corral Draw 9 Fed. #1)

Burlington Resources Oil & Gas Co., OGRID# 26485 Corral Draw 9 Federal #1

Corral Draw Wolfcamp Gas Pool

Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL

Sec. 9, T25S, R29E, Eddy County, New Mexico

Lse. # NM 15303

#### **OFFSET NOTIFICATION LIST:**

#### (North and NW corner of 320ac Spacing & Proration Unit)

Sec. 4 & 5, T25S, R29E

Chevron U. S. A. Inc. P. O. Box 1635 Houston, Texas 77251

#### (West of 320ac Spacing & Proration Unit)

N/2 of Sec. 8, T25S, R29E

**Exxon Corporation** P. O. Box 2305

Houston, Texas 77252

HMJ Minerals, Inc. P. O. Box 1240

Graham, Tesxas 76450

MRL Partners, LP

Five Post Oak Park, Suite 1010

Houston, Texas 77027

L. R. French, Jr. P. O. Box 11327 Midland, Texas 79707

Turnco, Inc. P. O. Box 1240 Graham, Texas 76046

H. M. Bettis, Inc. P. O. Box 1240

Graham, Texas 76046

Stoval Investment, Inc.

P. O. Box 10

Graham, Texas 76046

James R. Guinn Jr., Trustee of The James R. Guinn Family Trust & The James R. Guinn

Family Trust A

500 E. Border, Suite 885 Arlington, Texas 76010

L. E. Opperman 1505 Neely

Midland, Texas 79705

The Allar Company P. O. Box 630

Graham, Texas 76046

Edward K. Gaylord, II

Rt. 5, Box 393

Guthrie, Oklahoma 73044

B. A. G. A. M., LTD

P. O. Box 37

Graham, Texas 76046

**CNG Producing Company** 

P. O. Box 2115

Tulsa, Oklahoma 74101

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

State of New Mexico Energy, Minerals, and Natural Resources Department Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

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

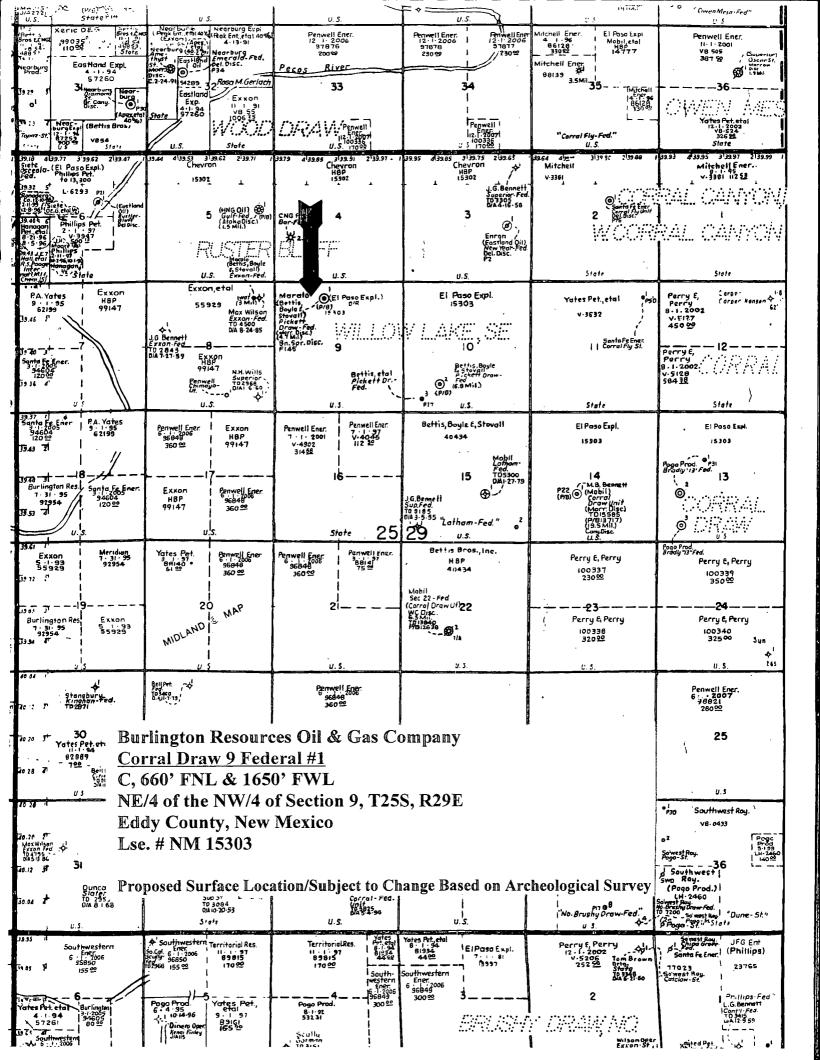
DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410

#### OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87504-2088

1	AMENDED	REPORT

DISTRICT IV
P. O. Box 2088
Sonto Fe, NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

**Property Code** Property Name** CORRAL DRAW 9 FEDERAL  *** CORRAL DRAW 9 FEDERAL  *** Operator Name** BURLINGTON RESOURCES OIL & GAS COMPANY  *** SURFACE LOCATION  UL or lot no. Section Township Range Lot ida Feet from the North/South line Feet from the East/Feet line County NORTH  *** BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE  UL or lot no. Section Township Range Lot ida Feet from the North/South line Feet from the East/Feet line County Rough State S	'API Number	<sup>2</sup> Pool Code <b>84330</b>		ORRAL DRAW WOL	FCAMP GAS					
## SURFACE LOCATION  Ut or lot no. Section   Township   Range   Lot ids   Feet from the   North/South line   Feet from the   East/West line   County    "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE  Ut or lot no. Section   Township   255   29E   Lot ids   Feet from the   North/South line   Feet from the   East/West line   County    "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE  Ut or lot no. Section   Township   285   29E   Lot ids   Feet from the   North/South line   Feet from the   East/West line   County    "Bedicated Acres"   Joint or Infill   "Consolidation Code   "Order No.    320   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  OPERATOR CERTIFICATION    I force   North   North   North   North    OPERATOR CERTIFICATION    I force   North   North   North    OPERATOR CERTIFICATION    I force   North    OPERATOR CERTIFICAT	Property Code 2 Prope	rty Name CORI	RAL D	L DRAW 9 FEDERAL				1		
UL or lot no. Section C 9 25 SOUTH 29 EAST, N.M.P.M.   Lot ide   Feet from the   Roth/South line   Feet from the   Rask/West line   County	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RESOU	RCES DIL 8	k GAS C□MP	ANY	}	1'		
"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE  "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE  "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE  "Bottom Per State of State		¹º SU	JRFACI	LOCATION						
UL or lot no. Section 7			L	1	1 '	l .	1			
Dedicated Acres 10 Joint or Infill 10 Consolidation Code 10 Order No.  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  OPERATOR CERTIFICATION Interest in the information contained herein is true and complete to the best of my knowledge and belief.  1550  Setback  Proposed Location  15650  Setback  PRODUCING VINDOW  PROPOSED INTEREST HAVE BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION Interest of the information contained herein is true and complete to the best of my knowledge and belief.  Signature  Printed Name Name Name Name Name Name Name Name	"B0	TTOM HOLE LOCA	TION I	F DIFFERE	NT FROM SU	JRFACE				
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  Processed of the Consolidation of the Consolidat		•	Lot Id	1				1		
CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  OPERATOR CERTIFICATION  I hereby certify that the information contained herein is frue and complete to the best of my knowledge and belief.  Setback  1650'  1980'  1050'		fill 4 Consolidation Code	15 Orde	No.						
Acre   Perit	•									
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DATE IN 3/9/98 SUSPENSE BOLDE ENGINEER M.5 LOGGED BY W TYPE W5L

ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

			- Engineering Bure	au -		
	Al	DMINISTRATIVE	E APPLICA	TION CO	VER SHEE	
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	[C]	Injection - Disposal - P  WFX PMX	ressure Increase		•	
[2]	NOTIFICAT [A]	TION REQUIRED TO:  Working, Royalty of			•	ply
	[B]	☑ Offset Operators, Le	easeholders or Su	rface Owner		
	[C]	☐ Application is One \	Which Requires F	Published Leg	al Notice	
	[D]	Notification and/or O	Concurrent Appro			
	[E]	☐ For all of the above,	Proof of Notifica	ation or Public	cation is Attached,	and/or,
	[F]	☐ Waivers are Attache	ed			
[3]	INFORMAT	TION / DATA SUBMIT	TED IS COMPL	ETE - Staten	nent of Understand	ling
Regu appro ORR	lations of the O oval is accurate a  I) is common.	I, or personnel under my bil Conservation Division and complete to the best of I understand that any om required notification is ca	Further, I assoft my knowledge a hission of data (ir	ert that the at ind where app icluding API	tached application licable, verify that numbers, pool co	for administrative all interest (WI, RI des, etc.), pertinen
		Note: Statement must be o	completed by an indiv	idual with super	visory capacity.	
	en Dey or Type Name	Signature	Nu	Regulāt Titl <b>e</b>	cory Comp. Spvr.	2-13-98 Date

## BURLINGTON RESOURCES

MID-CONTINENT DIVISION

March 5, 1998

Mr. Michael E. Stogner Energy, Minerals and Natural Resources Dept. Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505-5472

RE: Package for partially submitted application of 2-13-98

Proposed Horizontal Well
Standard Surface Location
Non-Standard Sub-Surface Bottom Hole Location
Due to Topographic Limitations

Burlington Resources Oil & Gas Company, OGRID #26485

Corral Draw 9 Federal #1

Corral Draw Wolfcamp Gas Pool, Pool Code 84330 Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL Section 9, T25S, R29E, Eddy County, New Mexico Lse. #NM 15303

LSC. #11111 1330

#### Dear Mr. Stogner:

Burlington Resources Oil & Gas Company desires administrative approval for a non-standard gas producing area/sub-surface bottom hole gas well location for the vertical portion of the wellbore for the proposed horizontal well, pursuant to Division General Rule 104.F and 111.C(2) to be applicable to the Corral Draw Wolfcamp (Gas) Pool for the Corral Draw 9 Federal #1, located at a standard surface location NE/4 NW/4, 660' FNL & 1650' FWL, (Unit C) of Section 9, T25S, R29E, Eddy County, New Mexico. The N/2 of said Section 9, being a standard 320-acre gas spacing and proration unit for this interval is to be dedicated to said well.

Burlington's request for an unorthodox subsurface bottom hole location of NE/4 NW/4, 560' FNL & 1500' FWL, (Unit C) of Section 9, T25S, R29E, Eddy Co., NM, will allow for potential drilling bit drift to the northwest due to natural drift tendencies during normal vertical rotary drilling operations. Our options to move the surface location to the south and east are closed by topographical limitation (i. e. archeological sites, drainage, and existing oil field facilities). Enclosed is the location plat for this proposed well showing the surface location, proposed kick-off point, wolfcamp penetration point and the proposed horizontal bottom hole location at UL-G, 1980' FNL, 1650' FEL of said Section 9.

Enclosed is the federal application pakage for the permit to drill. Burlington requested that the 20-day offset notification clock start February 13, 1998. All affected offsets were notified by certified return-receipt mail on February 13, 1998. A list with the names and addressed of the affected offsets is enclosed.

The applicable drilling window or "producing area" within the Corral Draw Wolfcamp Gas Pool for said wellbore shall include that area within the subject 320-acre spacing and proration unit comprising of the N/2 of said Section 9 that is:

- (a) no closer than 660 feet to the North & South boundary of said 320-acre unit;
- (b) no closer than 1650 feet from the East and West Lines of said Section 9.

Burlington Resources will comply with all provision of Division General Rule 111 applicable in this matter. Please call me if you require additional information on this application.

Sincerely,

Maria L. Perez

Regulatory Representative

Marin L-Perz

A/C 915-688-6906

cc: New Mexico Oil Conservation Division – Artesia

U. S. Bureau of Land Management - Roswell

(s:mlp1:Corral Draw 9 Fed. #1)

Burlington Resources Oil & Gas Co., OGRID# 26485 Corral Draw 9 Federal #1 Corral Draw Wolfcamp Gas Pool Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL Sec. 9, T25S, R29E, Eddy County, New Mexico Lse. # NM 15303

#### NAME AND ADDRESSES OF AFFECTED OFFSETS

#### (North and NW corner of 320ac Spacing & Proration Unit)

Sec. 4 & 5, T25S, R29E

✓ Chevron U. S. A. Inc.P. O. Box 1635Houston, Texas 77251

#### (West of 320ac Spacing & Proration Unit)

N/2 of Sec. 8, T25S, R29E

- ✓ Exxon Corporation P. O. Box 2305 Houston, Texas 77252
- ✓ HMJ Minerals, Inc.P. O. Box 1240Graham, Tesxas 76450
- ✓ MRL Partners, LP Five Post Oak Park, Suite 1010 Houston, Texas 77027
- ✓ L. R. French, Jr.
   P. O. Box 11327
   Midland, Texas 79707
- Turnco, Inc.
  P. O. Box 1240
  Graham, Texas 76046
- ✓ H. M. Bettis, Inc.P. O. Box 1240Graham, Texas 76046
- √ Stoval Investment, Inc.
  P. O. Box 10
  Graham, Texas 76046

James R. Guinn Jr., Trustee of The James R. Guinn Family Trust & The James R. Guinn Family Trust A 500 E. Border, Suite 885 Arlington, Texas 76010

- ✓ L. E. Opperman1505 NeelyMidland, Texas 79705
- ✓ The Allar Company P. O. Box 630 Graham, Texas 76046
- ✓ Edward K. Gaylord, II Rt. 5, Box 393 Guthrie, Oklahoma 73044

B. A. G. A. M., LTD P. O. Box 37 Graham, Texas 76046

V CNG Producing Company
P. O. Box 2115
Tulsa, Oklahoma 74101

re-sent 2-23-98

V Four Greenspoint Plaza 1950
16945 Northchase Dr., Suite 1950
Houston, Tx 77060-2133

SENDER:  Complete items 1 and/or 2 for additional services.		1 also wish to receive the following services (for an extra
<ul><li>Complete items 3, and 4a &amp; b.</li><li>Print your name and address on the reverse of this form so t</li></ul>	hat we can	fee):
return this card to you.  Attach this form to the front of the mailpiece, or on the back	ı	<ol> <li>Addressee's Address</li> </ol>
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completed	CNG Producing Company	∠ ∠ 3 4b. Service	<u>ζ 287 δς</u> Гуре	Ę	
Ö	Four Greenspoint Plaza	☐ Registere	ed <sub>.</sub>	Certified C	
S	16945 Northchase Dr., Suite 1750	☐ Express		Insured is	
RESS	Houston, Texas 77060-2133GREE	Return Re	ceipt for Merchandise		
N ADD	FEB S	7. Date of D	28	x you fe	
RETUR	5. Received By: (Print Name) 3 1998	8. Addresse and fee is	e's Address (Only if paid)	requested Yes	
your !	6. Signature: (Addressee or Agedi)				
<u>s</u>	PS Form <b>3811</b> , December 1994)	2595-97-8-0179 	Domestic Retu	rn Hecelpt	

Form 3160-3 (July 1992)\*

#### **UNITED STATES DEPARTMENT OF THE INTERIOR**

SUBMIT IN TRIPLICATE\* (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136

Expires: February 28, 1995 5. LEASE DESIGNATION AND SERIAL NO.

•	BUREAU OF	I AND MANA	GEME	NT		NM 15303	
4001						6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
	ICATION FOR F	PERMIT TO	O DH	ILL OR DEEPE	N	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL	LL X	DEEPEN (		SINGLE X MULTIPI	.E [	8. FARM OR LEASE N	
WELL	WELL A OTHER HUN	IZONTAL WELL	-	ZONE ZONE		CORRAL DRAW	
	CES OIL & GAS COMPA	MY				FEDERAL  9. API WELL NO.	
. ADDRESS AND TELEPHONE	NO.						
	idland, TX 79710-1 t location clearly and in accord				88-6906	10. FIELD AND POOL	, OR WILDCAT
At surface	t location clearly and in accord	ince with any State i	equireme	nts. *)		CORRAL DRAV	WOLFCAMP GAS
C, 660' FNL & 1650 At proposed prod. zone	)' FEL-SURF. LOC. /	′C, 560′FNI	_ & 15	00' FWL-TOP PROD.I	NTRVL.	11. SEC., T., R., M., C AND SURVEY OR	OR BLK.
- Y	50' FEL-BOTTOM HOLE	LOCATION				SEC. 9, T25	
	IRECTION FROM NEAREST TOW					12. COUNTY OR PAR	ISH 13. STATE
5 MILES SE FROM LO 5. DISTANCE FROM PROPOSE			1		T	EDDY	NM NM
LOCATION TO NEAREST	FT			OF ACRES IN LEASE	TO THIS		
(Also to nearest drlg. unit  B. DISTANCE FROM PROPOSE	line, if any) 560		320	POSED DEPTH	20 POTABL	320 OR CABLE TOOLS	
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS	ING, COMPLETED,	RROW GAS	ļ	,415'MD,11,169'TVD	ROTA		
1. ELEVATIONS (Show wheth		NNUW UMS	1 13	14T 601'TT'TOA 1AN	I KUTA		WORK WILL START*
2941'GR						MARCH 31	, 1998
3.		ROPOSED CASINO	3 AND C	EMENTING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO	OT	SETTING DEPTH		QUANTITY O	F CEMENT
17-1/2"	13-3/8",H-40,STC	48#		600'	625 SX	(S - SURFACE	
12-1/4"	9-5/8",K-55,LTC	36#		2900'		S - SURFACE	
8-3/4"	7",P-110,LTC	26#		10,100'-10,800'			.DV TOOL 7000'
'		l		SEE REMARKS ON	' 10 POI	NT DRILLING F	PLAN
	OPEN HOLE VERTICAL  KICK-OFF POINT @ +,	/-10,925'.	TARGET FINAL TOTAL		DEGREE:		
	.1# P-110 STL LINE OF LINER @ +/- 10 AREA.					r hanger and	ISOLATION
	E PROPOSED PROGRAM: nent data on subsurface location						ne. If proposal is to drill
signed Maria	L. Perz		TILE RE	GULATORY REPRESENT	<u> </u>	DATE 3-5	5-98
(This space for Federal or	State office use)						
PERMIT NO.				APPROVAL DATE			
	warrant or certify that the applicant h	olds legal or equitable titi	le to those t		l entitle the appl	icant to conduct operations	thereon.
APPROVED BY			rle			DATE.	

DISTRICT I P. O. Box 1980 Hobbs, NM 88241-1980 DISTRICT II P. O. Drower DD Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd.

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

Form C-102 Revised 02-10-94

Instructions on back

OIL CONSERVATION DIVISION P. O. Box 2088

Santa Fe, New Mexico 87504-2088

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

AMENDED REPORT

Aztec, NM 87410

DISTRICT IV.
P. O. Box 2088
Sonto Fe, NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		<sup>2</sup> Pool Code 84330		Name	FCAMP GAS			
* Property Code CORRAL DRAW 9 FEDERAL CORRAL OF STEP					6 Well Number			
' OGRID No. 8 (	Operator Na	™e BURLINGTON RE	SOUR	CES DIL &	GAS COMF	ANY	g Elevation 2941	,
		" SUR	FACE	LOCATION				,
1 1	SOUTH	Range 29 EAST, N.M.P.M.	Lot Ida	Feet from the 860'	North/South line NORTH	Feet from the 1850'	East/West line WEST	County EDDY
	"BOTTO	M HOLE LOCATI	ON IF	DIFFEREN	NT FROM S	URFACE		
i I	Sownship	Range 29E	Lot Ida	Feet from the 1980	North/South line North	Feet from the	l	County E <b>ddy</b>
12 Dedicated Acres 13 Joint 320	or infill	14 Consolidation Code	15 Order 1	Yo,				
		LL BE ASSIGNED TO OR A NON-STANDA						
Proposed Kickoff Point & Volfcamp Penetration Point  1500'  1650'  1980'  Setback	HOR	Bettis Boyle & Stovall 81 Pickett Dray Fed. Orig. Morrow Gas Nov Bone Spring Dil Produce	36 PROF	20 ACRE RATION U	pack	I hereby cert contained here to the best of Signature Printed Name Maria L. PE Title Regulatory Date 2-12-98  SURVEYOL I hereby colocation shoplotted from surveys man my supervisame is trubest of my  Date of Survey JANU	Representation  R CERTIFICATION  ertify that to the period notes of the period notes of the period to the and correct belief.	ve  ATION  he well lat was f actual under not the to the
	 	         		 			0881NSP.S. 58 / 23 NW	

OPERATORS NAME:

LEASE NAME AND WELL NO.:

Corral Draw 9 Federal #1

C, 660' FNL & 1650' FWL, Sec. 9, T25S, R29E

FIELD NAME:

COUNTY:

LEASE NUMBER:

COUNTY:

LEASE NUMBER:

Durlington Resources Oil & Gas Company

Corral Draw 9 Federal #1

C, 660' FNL & 1650' FWL, Sec. 9, T25S, R29E

Corral Draw Wolfcamp Gas

Eddy County, New Mexico

NM 15303

The following information is to supplement BLM form 3160-3 Application for permit to drill in accordance with Onshore Oil and Gas Order No. 1:

#### POINT DRILLING PLAN Horizontal Well

1. Name and estimated tops of important geologic formation/marker horizons.

<u>FORMATION</u>	<u>DEPTH</u>
Rustler	Surface
Salado	1,100'
Castille	2,250'
Delaware	2,915'
Bone Springs	6,700'
Wolfcamp	10,090'
Wolfcamp "A"	11,110'

2. Estimated depths at which the top and bottom of formations potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals are expected to be encountered and the operator's plans for protecting such resources.

Wolfcamp	10,090'
Wolfcamp "A" Limestone	11,110'
OTHER ZONES:	
Delaware	2,915'
Bone Springs	6,700'

3. The operator's minimum specifications for Blowout Preventer (BOP) and related equipment to be used and schematic diagrams thereof showing sizes, pressure ratings, and the testing procedures and testing frequency. BOP and BOP - related equipment (BOPE) schematics shall include schematics of choke manifold equipment. Accumulator systems and remote controls shall be utilized.

#### Surface Csg

Install 13-3/8" SOW x 13-5/8" 3M psi WP casing head with 36" base plat. Nipple up 13-5/8" 1500 psi WP annular preventer w/rotating head. Test the 13-3/8" casing to 500 psi using rig pump and hold for 30 minutes.

#### Intermediate Csg

Install 13-5/8" 3M psi WP x 11" 5M psi WP casing spool. Nipple up 11" 5M x 13-5/8" 5M DSA. NU 13-5/8" 5M psi WP BOP's including annular w/rotating head. (API RP53 Fig 2.C.5 SRRAG). Test ram BOP's and choke manifold to 250 psi and 3,000 psi, test annular BOP to 250 psi and 1,500 psi utilizing a test plug and an independent tester..

#### **Production Csg**

Install 11" 5M psi x 7-1/16" 10M psi tbg head. Test head to 4,350 psi (70 % x Casing Pc of 6,230) or the wellhead manufacturer's recommendation, whichever is less. NU 7-1/16" 10M psi WP BOP's including annular w/rotating head (API RP53 fig 2.C.9 RSRRAG). Test ram BOP's and choke manifold to 250 psi and 10,000 psi, test annular BOP to 250 psi and 3,500 psi utilizing a test plug and an independent tester.

4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

#### CASING:

17-1/2" hole to 600'. Set 13-3/8", 48#, H-40, STC csg @ 600'

12-1/4" hole to 2900'. Set 9-5/8", 36#, K-55, LTC csg @ 2900'

8-3/4" hole to 10,800'. Set 7", 26#, P-110, LTC, csg @ See Remarks

Note: 7" casing point may vary between  $10,100^{\circ}-10,800^{\circ}$  depending on hole conditions. Offset data indicates ability to drill to  $10,800^{\circ}$  without any mud weight increase (i.e. 9.0-10.0 ppm base fluid). Casing needs to be set as close to kick off point as possible to minimize open vertical hole during lateral operations.

6-1/8" Pilot Hole to Vertical Total Depth of 11,250'

Plug Back to Kick-off Point @ +/-10,925'

Target Azimuth = 124 Degrees Final Inclination = 89.6 Degrees Total Vertical Section = 2355' Total Depth = 13,415' MD, 11,169' TVD

Run 4-1/2" 15.1# P-110 STL Liner. Hang off in 7" casing with mechanical liner hanger & isolation packer. (Top of liner @ +/- 10,600'). Liner will not be cemented.

- 5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.
  - a.) Surface Hole (17-1/2" X 13 3/8" csg): Cmt w/625 sxs Class "C" Cmt + 2% Cacl, .25 pps Flocele.

(Volume estimated using 100% excess to circulate cement to surface).

b.) Intermediate Hole (12-1/4" X 9 5/8" csg): Single Stage

Lead w/650 sxs Class "C" Lite Cmt + 6 pps Salt, .25 pps Flocele, Tail w/300 sxs Class "C" Cmt, 1% CaCl2.

(Circulate cmt to surface. Volumes estimated using 200% excess).

c.) Production Hole (8-3/4" hole X 7" csg): Two Stage.

**First Stage Lead** w/430 sxs Class "H" Lite, .2% HR-5 (Retarder), **Tail** w/250 sxs Class "H", .4% HALAD-9 (Fluid Loss).

**Second Stage Lead** w/600 sxs Class "C" Lite, .25 pps Flocele, **Tail** w/100 sxs Class "C" + .4% HALAD-9 (Fluid Loss).

DV Tool @  $\pm$  7000'. (TOC @2500' inside 9-5/8". Volumes estimated using 100% excess)

d.) Plugback Cement

+/- 150 sxs Class "H" + .75% CFR-3 (Dispersant), .5 pps D-AIR-1(Defoamer) .6% HALAD-9 (Fluid Loss).

6. The anticipated characteristics, additives, use, and testing of drilling mud to be employed, along with the types and quantities of mud products to be maintained, shall be given. When air or gas drilling is proposed, the operator shall submit the following specific information:

#### **Mud Program:**

0-600': fresh water, gel, and lime system, MW 8.9 - 9.3 ppg. 600'-2900': brine, MW 10.0 - 10.2 ppg 2900'-10,800': fresh water, cut brine mud MW 9.0 - 9.3 ppg 10,800'-13,415' (6-1/8") Pilot Hole & Lateral Section: weighted water base mud MW 10.0 - 15.0 ppg.

- 7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.
  - a. DST Program: None Planned
  - b. Core: None Planned
  - c. Mud Logging: 2000' to TD
  - d. Logs to be run: Halliburton CNL/LDT, DIL/SFL, GR, CAL BHC, FMI below 7" Logs to be run in vertical hole only

8. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

Potential for abnormal pressure exists from the top of the Wolfcamp to TD. Bottom hole presures at TD is estimated at 7200 psi. Bottom hole temperature 185 F. There is no anticipated Hydogen Sulfide in this known drilling area.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

Anticipated time expected to do this work is 54 days. (Horizontal Well)

#### 12-POINT SURFACE USE PLAN OF OPERATIONS

Burlington Resources Oil & Gas Company
Corral Draw 9 Federal #1
C, 660' FNL & 1650' FWL, Sec. 9, T25S, R29E
Corral Draw Wolfcamp Gas Field
Eddy County, New Mexsico NM 15303

1. Existing Roads: A legible map (USGS topographic, county road, or other such map) labeled and showing the access route to the location, shall be used for locating the proposed well site in relation to a town, village, or other locatable point, such as a highway or county road. All access roads shall be appropriately labeled. Any plans for improvement and/or maintenance of existing roads shall be provided. All roads shall be provided or maintained in a condition the same as or better than before operations. The information provided for use and construction of roads will also be used by BLM for the required Plan of Development for a R/W application as described in Section II C of this Order No. 1.

See Exhibit "A" - topographic land surveyors plat showing existing roads and directions to well site.

2. Access Roads to be Constructed or Reconstructed: All permanent and temporary access roads to be constructed or reconstructed in connection with the drilling of the proposed well shall be appropriately identified and submitted on a map or plat. The proposed route to the proposed drill site shall be shown, including distances from the point where the access route exists established roads. All permanent and temporary access roads shall be located and designed to implement the goals of transportation planning and meet applicable standards of the appropriate SMA, and shall be consistent with the needs of the users. Final selection of the rouge location may be accepted by the SMA as early as the predrill inspection or during approval of the APD.

See Exhibit "B" plat shows existing road.

3. <u>Location of Existing Wells:</u> This information shall be submitted on a map or plat, which includes all recorded wells (water, injection, or disposal, producing, or being drilled) within a 1-mile radius of the proposed location.

See Exhibit "C" - portion of land map showing surrounding wells in area.

4. Location of existing and/or proposed production facilities: For facilities planned either on or off the well pad, a plat or diagram shall be included showing, to the extent known or anticipated, the location of all production facilities and lines to be installed if the well is successfully completed for production. If new construction is planned, the dimensions of the facility layouts are to be shown. This information for off-pad production facilities may be used by BLM for R/W application information as specified in Section II C of Order No. 1.

Production facilities will be built at location.

5. Location of Types of Water Supply: Information concerning water supply, such as rivers, creeks, springs, lakes, ponds, and wells, may be shown by quarter-quarter section on a map or plat, or may be described in writing. The source and transportation method for all water to be used in drilling the proposed well shall be noted if the source is located on Federal or Indian Lands or if water is to be used from a Federal or Indian project. If the water is obtained from other than Federal or Indian lands, the location and transportation method shall be identified. Any access roads crossing Federal or Indian lands that are needed to haul the water shall be described as provided in paragraphs (1) and (2) of this Section. If a water supply well is to be drilled on the lease, the APD shall so state. The authorized officer of BLM may require the filing of a separate APD of a water well.

No available surface or sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported or pumped to the drill site from the nearest commercial source.

6. <u>Construction Materials:</u> The operator shall state the character and intended use of all construction material, such as sand, gravel, stone, and soil material. If the materials to be used are Federally owned, the proposed source shall be shown either on a quarter-quarter section on a map or plat, or in a written description.

Caliche will be obtianed from existing reserve pit located on Maralow's Pickett Draw Federal #1, 660' FNL & 1980' FWL. Caliche pit is on side of this location and Burlington will draw caliche from there. As per conversation between Bobby Winn, Construction Foreman with Burlington Resources Oil & Gas Co. and Mr. Mike Magee with the BLM in Carlsbad, Burlington can draw caliche from this pit as long as Burlington dresses up and contours pit back. Barry Hunt was present during this conversation. See plat attached showing location of caliche pit.

- Methods of Handling Waste Disposal: A written description of the methods and locations proposed for safe containment and disposal of each type of waste material (e.g. cuttings, garbage, salts, chemicals, sewage, etc.) that results from the drilling and completion of the proposed well shall be provided.
  - Drill cuttings disposed into drilling pits.
  - Drill fluids allowed to evaporate in drill pits until pits dry.
  - Produced water during testing drill pits.
  - Produced oil during testing storage tank until sold.
  - Current laws and regulations pertaining to disposal of human waste will be observed.
  - Reserve pit will be plastic lined.
  - Waste paper, garbage, and junk will be disposed of into a special container on location and removed regularly to an approved landfill site. All waste material will be covered with a screen or lid and contained to prevent scattering by wind.
  - All trash and debris will be removed from well site within 30 days after drilling and/or completion operations are finished.
- 8. Ancillary Facilities: All ancillary facilities such as camps and airstrips shall be identified on a map or plat. Information as to location, land area required, and methods to be used in construction shall also be provided.

No Ancillary Facilities are required.

9. Well Site Layout: A plat of suitable scale (not less than 1 inch = 50 feet) showing the proposed drill pad, reserve pit location, access road entry points, and its approximate location with respect to topographic features, along with cross section diagrams of the drill pad and the reserve pit showing all cuts and fills and the relation to topography. The plat shall also include the approximate proposed location and orientation of the drilling rig, dikes and ditches to be constructed, and topsoil and/or spoil material stockpiles.

See Exhibit "D". Sketch for the well pad.

- 10 <u>Plans for Reclamation of the Surface:</u> A proposed interim plan for reclamation stabilization of the site and also final reclamation plan shall be provided. The interim portion of the plan shall cover areas of the drillpad not needed for production. The final portion of the plan shall cover final abandonment of the well. The plan shall include, as appropriate, configuration of the reshaped topography, drainage systems, segregation of spoil materials, surface manipulations, redistribution of topsoil, soil treatments, revegetation, and any other practices necessary to reclaim all disturbed areas, including any access roads and pipelines. An estimate of the time for commencement and completion of reclamation operations, including consideration of weather conditions and other local uses of the area, shall be provided.
  - After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well in as aesthetically pleasing a condition as possible.
  - Any unguarded pits containing fluids will be fenced until filled.
  - After abandonment of well, surface restoration will be in accordance with the Bureau of Land Management Surface Requirements.
- 11. <u>Surface Ownership:</u> The surface ownership (Federal, Indian, State or private) and administration (BLM, FS, BIA, Department of Defense, etc.) at the well location, and of all lands crossed by roads which are to be constructed or upgraded, shall be indicated. Where the surface of the proposed well site is privately owned, the operator shall provide the name, address and telephone number of the surface owner.

Bureau of Land Management 620 E. Greene Street Carlsbad, New Mexico 88220

12. **Other Information:** Type of bond. The operator shall be covered by a bond in its own name as principal, or by a bond in the name of the lessee or sublessee.

Burlington Resources Oil & Gas is covered by a statewide bond.

#### Operator's Representatives:

Field representatives (Responsible for compliance with approved surface use operations plan.)

Burlington Resources Oil & Gas Company

P.O. Box 837

Hobbs, NM 88240

Office: 505-393-5844

Mr. Ed Jackson, Sr. Drilling Foreman

Artesia, NM

Home: 505-746-6173

Mobil: 505-476-7159

Mr. Frank Raybon, Drilling Foreman

Eunice, NM

Home: 505-394-2449

Mobile: 505-369-5367

Jim Kramer, Sr. Staff Drilling Engineer

P.O. Box 51810

Midland, TX 79710-1810

Office: 915-688-6843

Home: 915-694-2499

Hal Lee, Drilling Superintendent

P.O. Box 51810.

Midland, TX 79710-1810

Office: 915-688-6834

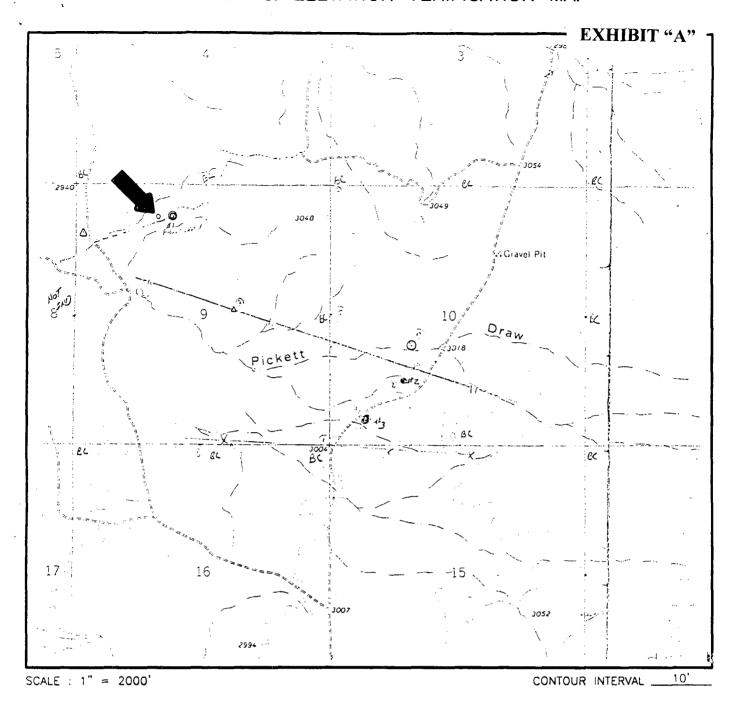
Home: 915-685-6073

#### **OPERATORS CERTIFICATION**

I hereby certify that I, <u>Jim Kramer, Senior Staff Drilling Engineer</u>, under my direct supervision, have inspected the proposed drill site and access route that I am familiar with the conditions that currently exist; that the statements made in the APD package are, to the best of my knowledge, true and correct, and that the work associated with operations proposed herein will be performed by **not yet determined** contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM **statewide** bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DATE:	3-5-98
NAME AND TITLE:	Jim Kramer, SenionStaff Drilling Engineer
SIGNATURE:	AM TO PERMIAN AREA DILG SUPT
	fOR JIM KRAMETZ

## LOCATION & ELEVATION VERIFICATION MAP



SECTION	9	TWP	25-S	R	GE	29-E
SURVEY	NEW	MEXICO	PRINCIPAL	MER	DIAN	
COUNTY		EDDY	ST.	ATE _	NM	

DESCRIPTION 660' FNL & 1650' FWL

ELEVATION 2941'

OPERATOR BURLINGTON RES. OIL & GAS CO.

CORRAL DRAW FEDERAL 9 #1

U.S.G.S: TOPOGRAPHIC MAP

LEASE \_

PIERCE CANYON, NEW MEXICO

SCALED LAT. N 32'08'59.8"

LONG. W 103'59'31.9"

- N

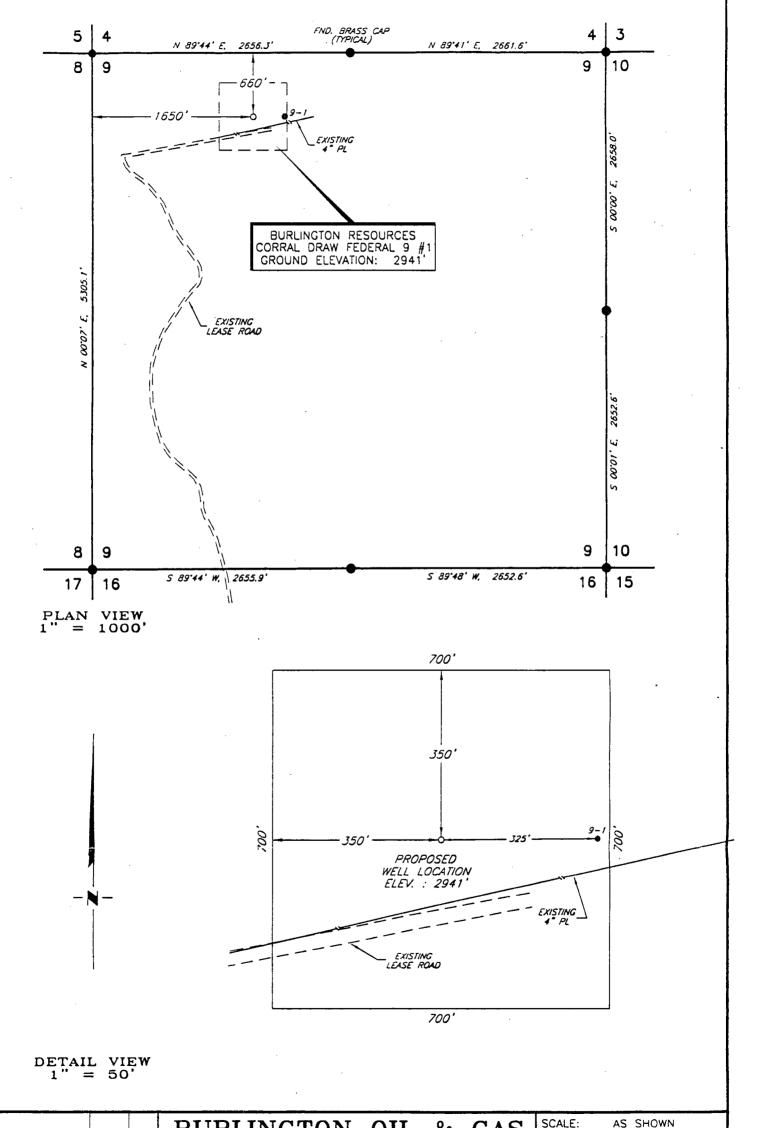
This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

Positive this plat and patify us immediately of any

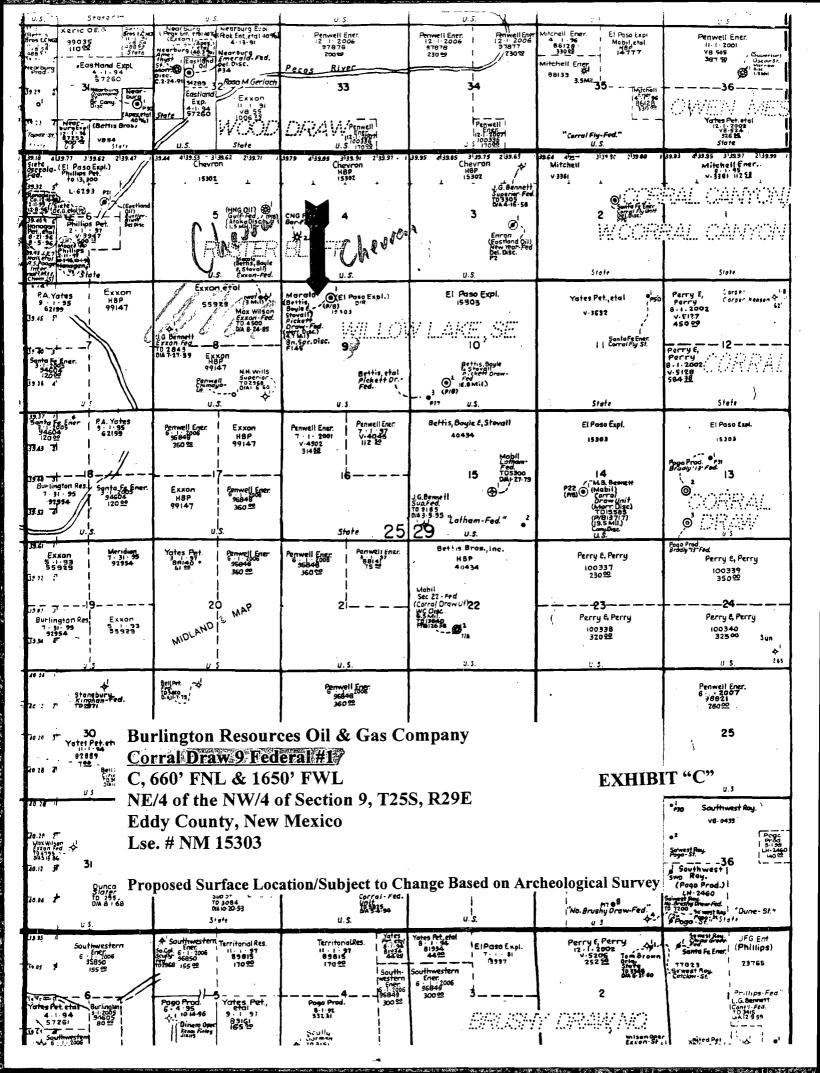
Review this plat and notify us immediately of any possible discrepancy.

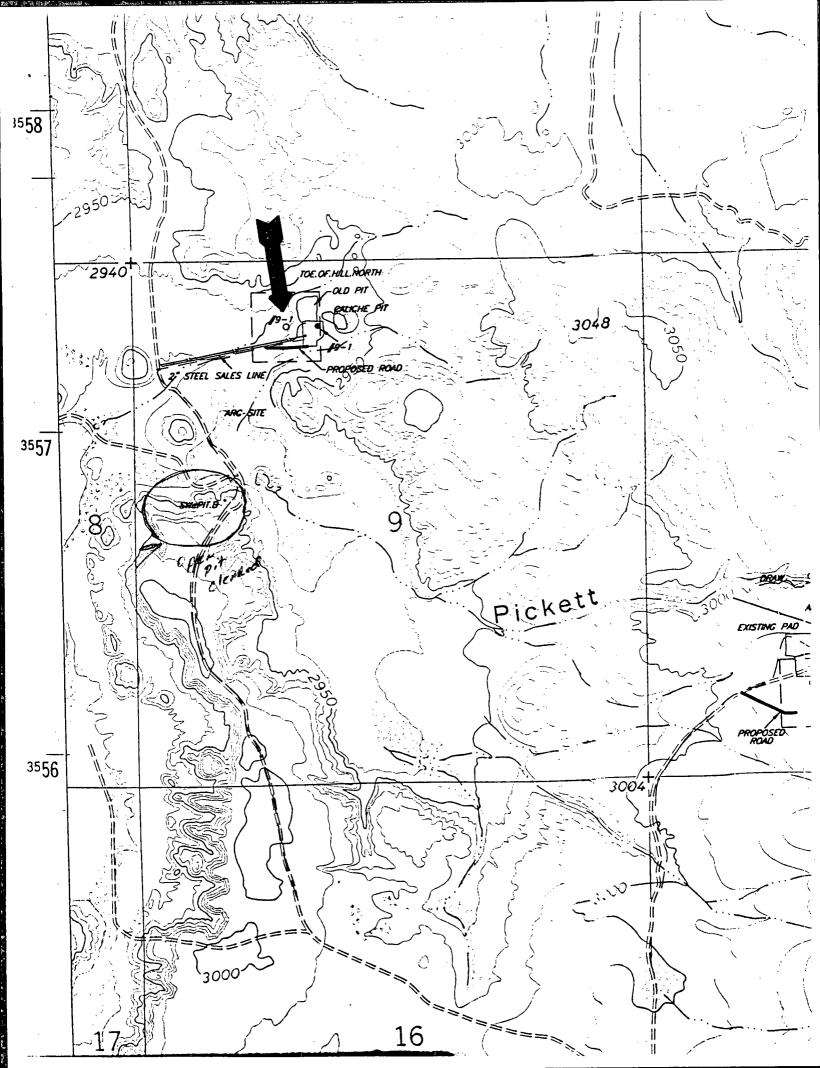
### TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry



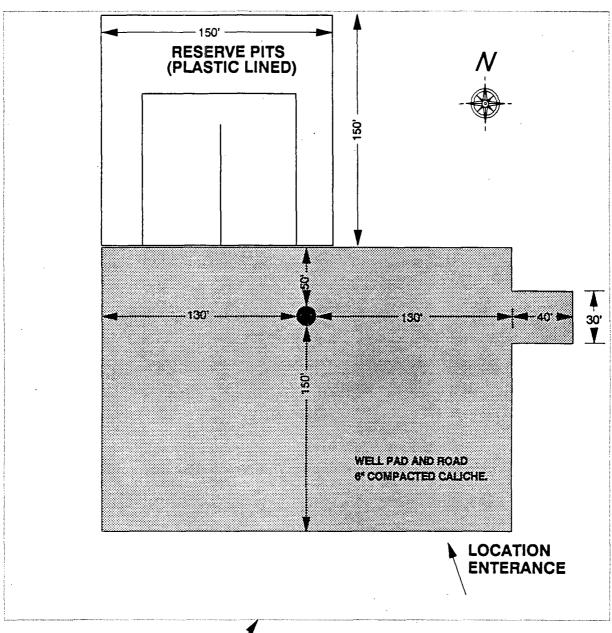
	RESOURCES COMPAN	
NO. REVISION DATE BY	RESOURCES COMPAN	<b>■</b> JOB NO.: 56458
SURVEYED BY: R.R.	SURVEYING AND MAPPING BY	0.7 NW
DRAWN BY: JSJ	TOPOGRAPHIC LAND SURVEYORS	23 NW
APPROVED BY: R.M.R.	MIDLAND, TEXAS	SHEET : 1 OF 1





## **BURLINGTON RESOURCES OIL & GAS COMPANY**

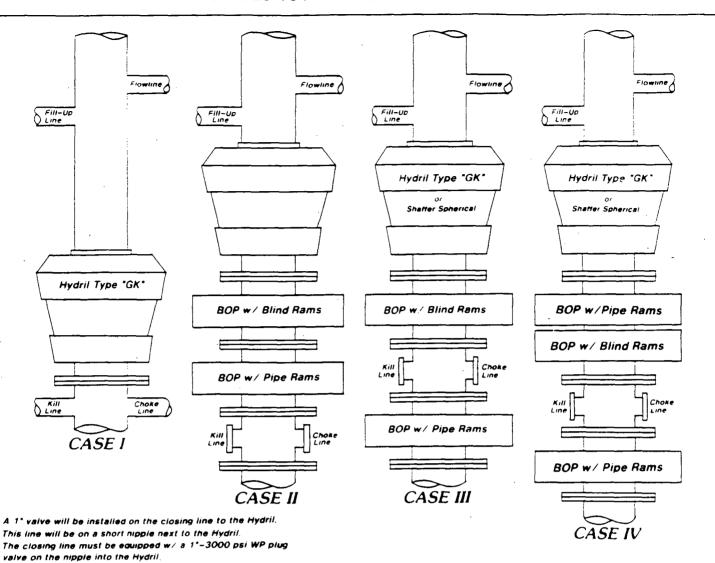
## MID-CONTINENT DIVISION DRILL WELL LOCATION SPECIFICATIONS

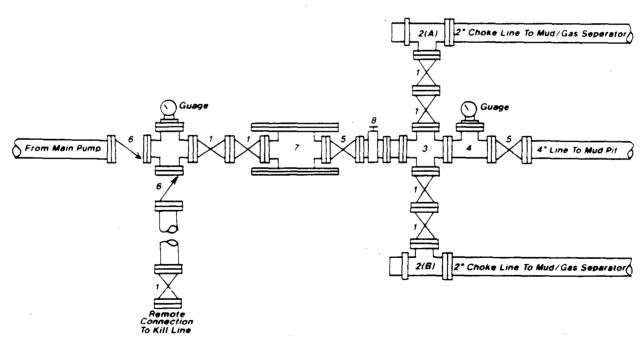


 $Z_{400' \times 400'}$  WELL SITE

#### ATTACHMENT "1"

#### MINIMUM BLOWOUT PREVENTER REQUIREMENTS





## Legend

- 1. 2" flanged all steel valve must be either Cameron "F". Halliburton Low Torque, or Shaffer Flo-Seal.
- 2. 2" flanged choke, full opening & equipped w/ hard trim.
  - A. Remote operated
  - B. Adjustable
- 3. 4" x 2" flanged steel cross.
- 4. 4° flanged steel tee.
- 5. 4° flanged all steel valve (Type as in #1).
- 6. 2" flanged check valve.
- 7. Drilling spool w/ 2" x 4" flanged steel outlet.
- 8. 4" pressure operated gate valve.

#### Notes

Choke manifold may be located in any convenient position. Use all steel fittings throughout. Make 90° turns with bull plugged tees only. No field welding will be permitted on any of the components of the choke manifold and related equipment upstream of the chokes. The choke spool and all lines and fittings must be at least equivalent to the test pressure of the preventers required. Independent closing control unit with clearly marked controls to be located on derrick floor near driller's position.

DATE IN		SUSPENSE	ENGINEER		LOGGED BY	TYPE	
			ABOVE THIS LINE FOR	DIVISION USE ONLY	·		
•		NEW M	IEXICO OIL CON - Engineerin		ION DIVISIO	N	
	1A -	MINISTR	ATIVE APPL	ICATIO	N COVE	R SHEET	,
TH	IIS COVERSHEET IS	MANDATORY FOR AL	L ADMINISTRATIVE APPLI	CATIONS FOR	EXCEPTIONS TO D	IVISION RULES AND	REGULATIONS
Applic	ation Acronym						
	[PC-Pool [V	[DD-Direc ole Commingling] [Commingling] FX-Waterflood [SWD-Sait W	dard Proration Unit tional Drilling] [3 tig] [CTB-Lease C    [OLS - Off-Lease Expansion] [PM] fater Disposal] [ii Oil Recovery Certific	SD-Simulta commingli Storage] K-Pressure PI-Injectio	ng] [PLC-Poo [OLM-Off-Le Maintenance n Pressure Inc	tion] ol/Lease Comm ease Measurem Expansion] crease]	ent]
[1]	TYPE OF A	PLICATION -	· Check Those Whic	h Apply fo	or [A]		
. ,	[A]	Loçation - Spa	ncing Unit - Direction				
	Check [B]		B] and [C] - Storage - Measure CTB	ment	□olș □	OLM	
	[C]	Injection - Dis	posal - Pressure Inc PMX  SWD	rease - Enl		overy PPR	
[2]	NOTIFICAT [A]		ED TO: - Check Th Loyalty or Overridin			** *	
	[B]	Offset Open	rators, Leaseholders	or Surface	Owner		
	[C]	☐ Application	is One Which Requ	uires Publi	shed Legal Not	tice	
	[D]		n and/or Concurrent u of Land Management - Commi				
	[E]	☐ For all of the	ne above, Proof of N	otification	or Publication	is Attached, an	d/or,
	[F]	☐ Waivers are	e Attached				
[3]	INFORMAT	ION / DATA S	UBMITTED IS CO	MPLETI	E - Statement o	f Understanding	3
Regulary approv	ations of the O	il Conservation nd complete to the	nder my supervision Division. Further, he best of my knowle t any omission of d	I assert the	nat the attached here applicable	d application fo e, verify that all	r administrative interest (WI, RI,

information and any required notification is cause to have the application package returned with no action taken.

ilēen Dey	Gillen Oly	Regulātory Comp. Spvr.	2-13-98
Print or Type Name	Signature	Title	Date

## BURLINGTON RESOURCES

MID-CONTINENT DIVISION

March 5, 1998

Mr. Michael E. Stogner
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505-5472

RE: Package for partially submitted application of 2-13-98

Proposed Horizontal Well Standard Surface Location

Non-Standard Sub-Surface Bottom Hole Location

**Due to Topographic Limitations** 

Burlington Resources Oil & Gas Company, OGRID #26485

Corral Draw 9 Federal #1

Corral Draw Wolfcamp Gas Pool, Pool Code 84330

Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL

Section 9, T25S, R29E, Eddy County, New Mexico

Lse. #NM 15303

#### Dear Mr. Stogner:

Burlington Resources Oil & Gas Company desires administrative approval for a non-standard gas producing area/sub-surface bottom hole gas well location for the vertical portion of the wellbore for the proposed horizontal well, pursuant to Division General Rule 104.F and 111.C(2) to be applicable to the Corral Draw Wolfcamp (Gas) Pool for the Corral Draw 9 Federal #1, located at a standard surface location NE/4 NW/4, 660' FNL & 1650' FWL, (Unit C) of Section 9, T25S, R29E, Eddy County, New Mexico. The N/2 of said Section 9, being a standard 320-acre gas spacing and proration unit for this interval is to be dedicated to said well.

Burlington's request for an unorthodox subsurface bottom hole location of NE/4 NW/4, 560' FNL & 1500' FWL, (Unit C) of Section 9, T25S, R29E, Eddy Co., NM, will allow for potential drilling bit drift to the northwest due to natural drift tendencies during normal vertical rotary drilling operations. Our options to move the surface location to the south and east are closed by topographical limitation (i. e. archeological sites, drainage, and existing oil field facilities). Enclosed is the location plat for this proposed well showing the surface location, proposed kick-off point, wolfcamp penetration point and the proposed horizontal bottom hole location at UL-G, 1980' FNL, 1650' FEL of said Section 9.

Enclosed is the federal application pakage for the permit to drill. Burlington requested that the 20-day offset notification clock start February 13, 1998. All affected offsets were notified by certified return-receipt mail on February 13, 1998. A list with the names and addressed of the affected offsets is enclosed.

The applicable drilling window or "producing area" within the Corral Draw Wolfcamp Gas Pool for said wellbore shall include that area within the subject 320-acre spacing and proration unit comprising of the N/2 of said Section 9 that is:

- (a) no closer than 660 feet to the North & South boundary of said 320-acre unit;
- (b) no closer than 1650 feet from the East and West Lines of said Section 9.

Burlington Resources will comply with all provision of Division General Rule 111 applicable in this matter. Please call me if you require additional information on this application.

Sincerely,

Maria L. Perez Regulatory Representative A/C 915-688-6906

cc: New Mexico Oil Conservation Division – Artesia U. S. Bureau of Land Management – Roswell

(s:mlp1:Corral Draw 9 Fed. #1)

Burlington Resources Oil & Gas Co., OGRID# 26485 Corral Draw 9 Federal #1 Corral Draw Wolfcamp Gas Pool Surf. Loc.: NE/4 NW/4, UL-C, 660' FNL & 1650' FWL Sec. 9, T25S, R29E, Eddy County, New Mexico Lse. # NM 15303

#### NAME AND ADDRESSES OF AFFECTED OFFSETS

#### (North and NW corner of 320ac Spacing & Proration Unit)

Sec. 4 & 5, T25S, R29E

✓ Chevron U. S. A. Inc.P. O. Box 1635Houston, Texas 77251

#### (West of 320ac Spacing & Proration Unit)

N/2 of Sec. 8, T25S, R29E

- ✓ Exxon CorporationP. O. Box 2305Houston, Texas 77252
- HMJ Minerals, Inc.P. O. Box 1240Graham, Tesxas 76450
- ✓ MRL Partners, LP Five Post Oak Park, Suite 1010 Houston, Texas 77027
- ✓ L. R. French, Jr.
   P. O. Box 11327
   Midland, Texas 79707
- ✓ Turnco, Inc.P. O. Box 1240Graham, Texas 76046
- H. M. Bettis, Inc.P. O. Box 1240Graham, Texas 76046
- √ Stoval Investment, Inc.
  P. O. Box 10
  Graham, Texas 76046

James R. Guinn Jr., Trustee of The James R. Guinn Family Trust & The James R. Guinn Family Trust A 500 E. Border, Suite 885 Arlington, Texas 76010

- ✓ L. E. Opperman1505 NeelyMidland, Texas 79705
- √ The Allar Company
  P. O. Box 630
  Graham, Texas 76046
- ✓ Edward K. Gaylord, II Rt. 5, Box 393 Guthrie, Oklahoma 73044

B. A. G. A. M., LTD P. O. Box 37 Graham, Texas 76046

P. O. Box 2115
Tulsa, Oklahoma 74101

re-sent 2-23-98

V Four Greenspoint Plaza 179

16945 Northchase Dr , Suite H

Houston, Tx 77060-2133