UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

	APPLICATION FOR PERMIT TO DRILL, DEEPE	
a. Type of Wo	rk 2000 Fills 3 Fill 10 13	5. Lease Number NMSF-078356-B
DRILL	RECEIVED	Unit Reporting Number
	L 070 FARMINGTON IN	NMNM-878394A
b. Type of We	M	6. If Indian, All. or Tribe
GAS		
. Operator		7. Unit Agreement Name
BURLIN RESOL	IGTUN IRCES Oil & Gas Company	Huerfanito Unit
	Phone No. of Operator	8. Farm or Lease Name
	4289, Farmington, NM 87499	
(505)	206 0800	9. Well Number
(505)	326-9700	#47R
. Location of		10. Field, Pool, Wildcat
Unit A (NENE), 895' FNL, 1100' FEL	Ballard Pictured Cliffs/
	20 5 TO 18 2	Basin Fruitland Coal
		11. Sec., Twn, Rge, Mer. (NMPM)
Latitude	360 33.0629'N	Sec. 27, T27N, R9W
	e 107° 46.2039'W	न्यू
_		API # 30-045- 33627
4. Distance in	Miles from Nearest Town	12. County 13. State
32 miles	to Bloomfield, NM	San Juan NM
5. Distance fro	om Proposed Location to Nearest Property or Lease Lir	ne
16. Acres in Lea	ase	17. Acres Assigned to Well
		160 PC NE4/320 FC E2
8. Distance from	om Proposed Location to Nearest Well, Drlg, Compl, o	r Applied for on this Lease
52'- Hue	rfanito Unit #105	
19. Proposed De	epth	20. Rotary or Cable Tools
2375′		Rotary
	(DF, FT, GR, Etc.)	22. Approx. Date Work will Start
21. Elevations (
21. Elevations (6304'GL		
630 4′GL	asing and Cementing Program	
6304'GL 23. Proposed C	asing and Cementing Program erations Plan attached	
6304'GL 23. Proposed C		
6304'GL 23. Proposed Consequence Operation	erations Plan attached	3-2-010
6304'GL 23. Proposed Consequence Operation	by: Amana analya	3-2-06
6304'GL 23. Proposed Consequence Operation	erations Plan attached	
6304 'GL 23. Proposed Consecutive Operation 24. Authorized	by: Amana a analysis Regulatory Compliance Assistant II	II Date
6304'GL 23. Proposed Consequence Operation	by: Amana analya	II Date
6304'GL 23. Proposed Consecutive Operation 24. Authorized PERMIT NO.	by: Amana a analysis Regulatory Compliance Assistant II	ATE
6304'GL 23. Proposed Consee Operate O	by: Amana a analysis Regulatory Compliance Assistant II	II Date

Threatened and Endangered Species Report attached
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or traudulent statements or presentations as to any matter within its jurisdiction.



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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II . 811 South First, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

2040 South Pacheco MAR 3 AP 10 43 Santa Fe, NM 87605

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

			_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>				
API Number	'API Number Pool Code			Pool Name				
30-045- 55	NOW I	71439 / 71629	Ballard Pict	ured Cliffs /	Basin	Fruitland Coal		
⁴ Property Code		⁶ Pr	operty Name			* Vell Number		
7138		HUERFA	NITO UNIT			47R	_	
OGRID No.		• Op	erator Name			⁰ Elevation		
14538 /		BURLINGTON RESOURCES	S OIL AND GAS C	OMPANY LP		6304'	~	

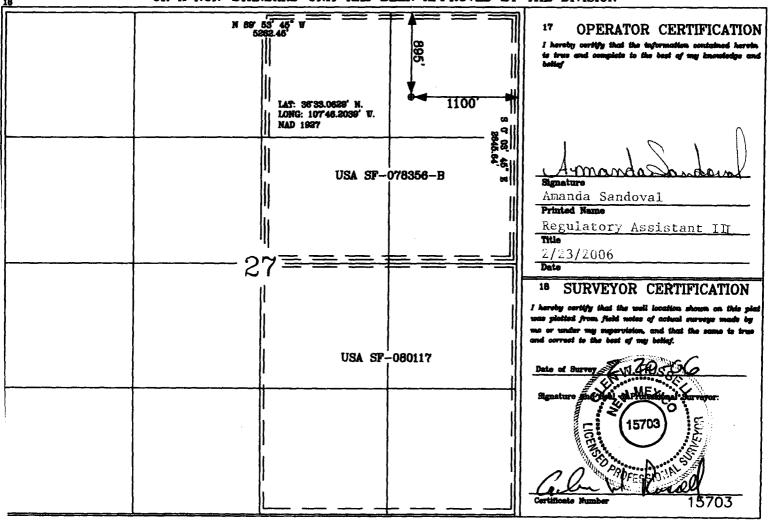
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	27-N	9-W		895'	NORTH	1100'	EAST	SAN JUAN

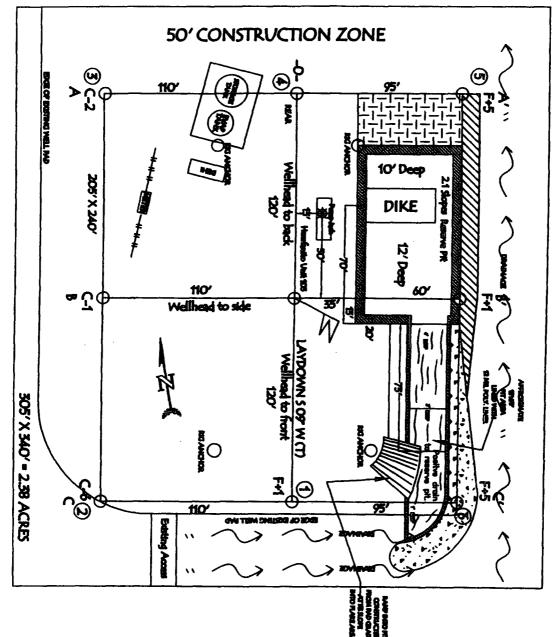
11 Bottom Hole Location If Different From Surface

			שטעע	om more	LOCALION I	Difference Fre				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
A]				
Dedicated Acre	8	·—.	¹⁰ Joint or	infill	¹⁴ Consolidation C	ode	¹⁶ Order No.			
PC 160.0 FC 320.0										

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



Submit 3 Copies To Appropriate District	State of New Mexi	ico			Form C-103
Office District I	Energy, Minerals and Natural	Resources			May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		V	VELL API NO.	3000	3/027
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION D	IVISION 5	. Indicate Type of	30-045- <u>ク</u>	3001
District III	1220 South St. Francis		STATE	FEE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8750		. State Oil & Gas I	Lease No.	
District IV	,				ł
1220 S. St. Francis Dr., Santa Fe, NM 87	CES AND REPORTS ON WELLS		Lease Name or Un	MSF-078356-B	10
	S TO DRILL OR TO DEEPEN OR PLUG BACK TO		Lease Name of O	int Agreement Nan	
	ON FOR PERMIT" (FORM C-101) FOR SUCH		ŀ	Iuerfanito Unit	
PROPOSALS.)		0	Well Number		
1. Type of Well: Oil Well Gas Well X	Other	0.	wen Number	#47R	
2. Name of Operator		9.	OGRID Number		
BURLINGTON RES	OURCES OIL & GAS COMPANY LP			14538	
3. Address of Operator	DEET EARMINICITON NM 97402	10	O. Pool name or W	ildcat d Cliffs/ Basin Fru	itland Coal
4. Well Location	REET, FARMINGTON, NM 87402		Ballaru Ficture	u Chits/ Basin Fiu	tianu Coai
Unit Letter A :	895 feet from the North		1100 feet from		_line
Section 27	Township 27N Rn . Elevation (Show whether DR, RKB, RT,		NMPM	County	San Juan
	. Elevation (Show whether DR, RRB, R1, 6	GR, etc.)			
Pit or Below-grade Tank Application	or Closure				1200
Pit type New Drill Depth to Ground	water >100' Distance from nearest fresh	water well	>1000' Distance fi	rom nearest surface w	
Pit Liner Thickness: n/a	mii Below-Grade Tank: Vol	ume	_bbls; Constructi	ion Material	
	Appropriate Box to Indicate Nat NTENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	REMEDIAL V	SUBSEQUENT VORK DRILLING OPNS.	REPORT OF	: G CASING
OTHER: Ne	w Drill X	OTHER:			
	ted operations. (Clearly state all pertinent				
of starting any proposed worl or recompletion.	c). SEE RULE 1103. For Multiple Compl	letions: Attach v	wellbore diagram of	f proposed complet	ion
or recompletion.					
N. Dell H.P. 4				1	
New Drill, Unlined:					
Ecosphere's risk ranking criteria, the Workover Pit Construction / Opera designed to manage fluids, and that	construct a new drilling pit and an associate ne new drilling pit and vent/flare pit will be ton Procedures dated November 11, 2004 portion will be unlined, as per the risk rarer Pit Closure Procedure dated August 2, 2	e an unlined pit a on file at the NM nking criteria. B	as detailed in Burlin MOCD office. A pour surlington Resource	ngton's Revised Dr ortion of the vent/fl s anticipates closin	illing / are pit will be
	pove is true and complete to the best of my osed according to NMOCD guidelines, a gene	eral permit X o			
	da Sandoval E-mail address:		or-inc.com Telepl		5-326-9891
1	-t// .1 max	20 A1990 ma	# 108#C*	~ ~ ·	DD A D BANK
APPPROVED BY Conditions of Approval (if any):	TITLE C	TUBY WALE GA	is inspected. Co	DATE A	TR U 3 KUU

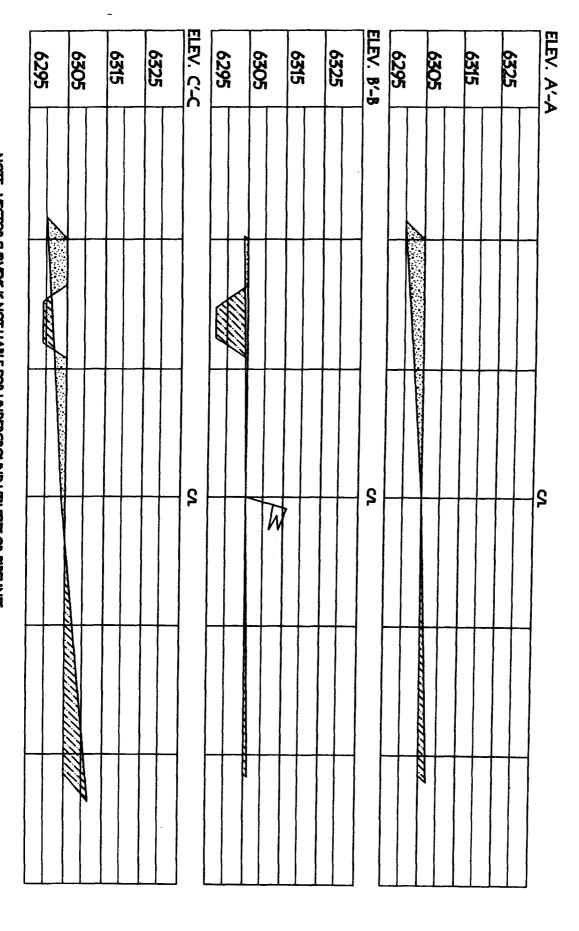


NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

BURLINGTON RESOURCES OIL & GAS COMPANY LP HUERFANITO UNIT 47R, 895' FNL & 1100' FEL SECTION 27, T-27-N, R-9-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6304', DATE: FEBRUARY 8, 2006



PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

OPERATIONS PLAN

Well Name:

Huerfanito Unit #47R

Location:

Unit A (NENE) 895' FNL & 1100' FEL, Section 27, T27N, R09W

San Juan County, New Mexico

Latitude 36° 33.0629'N; Longitude 107° 45.2039'W

Formation:

Ballard Pictured Cliffs/ Basin Fruitland Coal

Elevation:

6304' GR

Formation:	Тор	Bottom	Contents
Surface	San Jose		
Ojo Alamo	1377'		
Kirtland	1449'	2006'	gas
T/Fruitland	2006՝		gas
Pictured Cliffs	2175'		
Total Depth	2375'		

Logging Program: None

Mud Program:

Interval	Type	<u>Weight</u>	Vis. Fluid Loss
0- 120'	Spud/Air/Air Mist	8.4-8.9	40-50 no control
120-2375'	Non-dispersed	8.4-9.5	30-60 no control

Casing Program:

Hole Size	Depth Interval	Csq.Size	<u>Wt.</u>	<u>Grade</u>
8 3 "	0 - 120'	7"	20.0#	J-55
6 1 "	0 - 2375'	4 1/2"	10.5#	J/K-55
0 7	0 - 23/5	4 1/2	10.5#	J/K-:

Tubing Program:

0 - 2375' 2 3/8" 4.7# J-55		0 - 2375'	2 3/8"	4.7#	J-55
----------------------------	--	-----------	--------	------	------

Float Equipment: 7" surface casing - guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe and float collar on bottom. Centralizers run every third joint above shoe to the base of the Ojo Alamo @ 1449'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1449'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: $7" \times 4 \frac{1}{2}" \times 2 \frac{3}{8}" \times 11" 2000$ psi xmas tree assembly.

Page 2 Huerfanito Unit #47R

Cementing:

7" surface casing Pre-Set Drilled - Cement with Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (Bring cement to surface). Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

7" surface casing - Cement with 42 sx Type III cement with 0.25 pps Celloflake, 3% CaCl. (54 cu ft of slurry @ 1.28 yield). 200% excess, bring cement to surface. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. WOC until cement establishes 250 psi compressive strength prior to NU of BOPE.

4 1/2" production casing - Cement with 113sx (241cu ft of slurry @ 2.13 yield) Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks (124 cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of 365 cf - 50% excess to circulate to surface.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 1500 psi/30 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Fruitland Coal/Pictured Cliffs formations will be completed.
- * Anticipated pore pressure for the Fruitland is between 600 700 psi.
- * This gas is dedicated.
- * The east half of section 27 is dedicated to Fruitland Coal and the northeast quarter Is dedicated to Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

Drilling Engineer Date

BURLINGTON RESOURCES

BURLINGTON RESOURCES

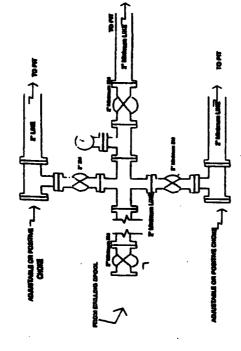
Completion/Workover Rig BOP Configuration 2,000 psi System

Dritting Rig Choise Manifold Configuration 2000 psi System

Burlington Resources

2000 pei System Orilling Rig

RO ROOM



TIVE SAUCE

THE STATE LIMIT

ISTATING HEAD:

Point to Total Depth. 2,000pel worlding preseurn equipment with two chokes.

Figure #3

4-20-01

Figure 81

Vinimum BOP installation for all Completion/Wo

nurs double gate BOP to be equipped with billed and pe rams. A stripping head to be installed on the top of resoure or greater exchaling 600 pel atripping head. he BCP. All BCP equipment is 2000 pel working Pigure #2

erations. 7-1/16" bore, 2000 pel minin

10-02-4