UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL DEEDEN OR DILLG BACK

	Type of Work DRILL CTO TAXABLE CTO TAXABL	7. Unit Agreement Name 8. Farm or Lease Name Lewis Park 9. Well Number 1E 10. Field, Pool, Wildcat Blanco MV/Basin Dk 11. Sec., Twn, Rge, Mer. (NMPI	87.3°
3.	Type of Well GAS Operator BURLINGTON Oil & Gas Company LP Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 Location of Well 2295' FNL, 2060' FEL	7. Unit Agreement Name 8. Farm or Lease Name Lewis Park 9. Well Number 1E 10. Field, Pool, Wildcat Blanco MV/Basin Dk 11. Sec., Twn, Rge, Mer. (NMPI	<u> </u>
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4.	Location of Well 2295' FNL, 2060' FEL	1E 10. Field, Pool, Wildcat Blanco MV/Basin Dk 11. Sec., Twn, Rge, Mer. (NMPI	
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	2295' FNL, 2060' FEL	Blanco MV/Basin Dk11. Sec., Twn, Rge, Mer. (NMPI	
	2295' FNL, 2060' FEL	Blanco MV/Basin Dk11. Sec., Twn, Rge, Mer. (NMPI	
	ude 36 ⁰ 53.8715'N, Longitude 107 ⁰ 37.4952'W	, 11. Sec., Twn, Rge, Mer. (NMPI	_
Latit		6 Sec 13, T31N, R8W API # 30-045- 33390	м)
14.	Distance in Miles from Nearest Town	12. County 13. S	tate
- ••	Navajo Dam 15 Miles	San Juan NM	
15. 16.	Distance from Proposed Location to Nearest Property or Lea 2060' Acres in Lease	se Line 17. Acres Assigned to Well 320 E/2	
18.	Distance from Proposed Location to Nearest Well, Drig, Com	pl, or Applied for on this Lease	
	320' FC	,	
19.	Proposed Depth	20. Rotary or Cable Tools	
	8532′	Rotary	
 21.	Elevations (DF, FT, GR, Etc.)	22 Approx Date Work will St	
£1.	6846 GR, 6858 KB	22. Approx. Date Work will St	aı L
23.	Proposed Casing and Cementing Program See Operations Plan attached		— —
24.	Authorized by: Hegulatory Specialist	<u>/0 - 2-5 - 0.5</u> Date	
PERMIT	TNO. APPROVA	L DATE	
APPRO	VED BY AMAGE OF TITLE AFIN	DATE	[18]&

Threatened and Endangered Species Report Attached NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

HOLD C194 FOR NSL

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 fraudulent statements or presentations as to any matter within its jurisdiction.



District I PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719 Submit to Appropriate District Office
State Lease - 4 Copies

PO Drawer DO, Artesia, NM 66211-0/15

State Lease - 4 Copies Fee Lease - 3 Copies

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

Santa Fe, NM .87504-2088

District IV PO Box 2088, Santa Fe, NM 87504-2088

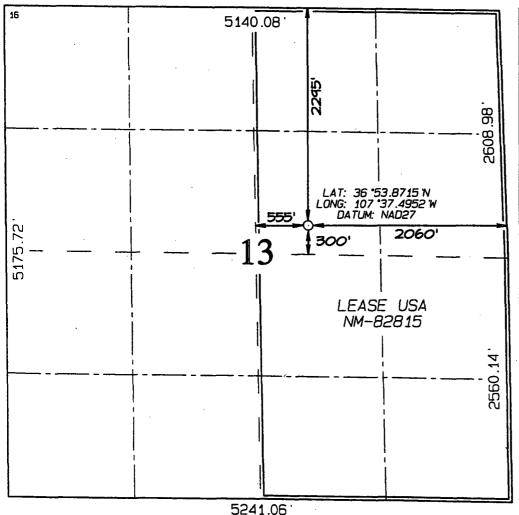
320 E2 MV/DK

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number -Pool Code -Pool Name									
30-045- 33390 72319/				319/515	599	Blanco Mesa	verde/ Basi	n Dakota	
Property Code				Propert	y Name		- W	lell Number	
7260			LEWIS	PARK			1E		
'OGRID No.				*Operator Name			9	*Elevation	
14538 BURLINGTON RESOURCES OIL & GAS COMPANY, LP 68				6846					
	•				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
G	13	31N	8W		2295	NORTH	2060	EAST	SAN JUAN
	<u> </u>	11 B	ottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
^{\$2} Dedicated Acres		<u> </u>			¹³ Joint or Infill	³⁴ Consolidation Code	⁵⁵ Order No.	4 <u></u>	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



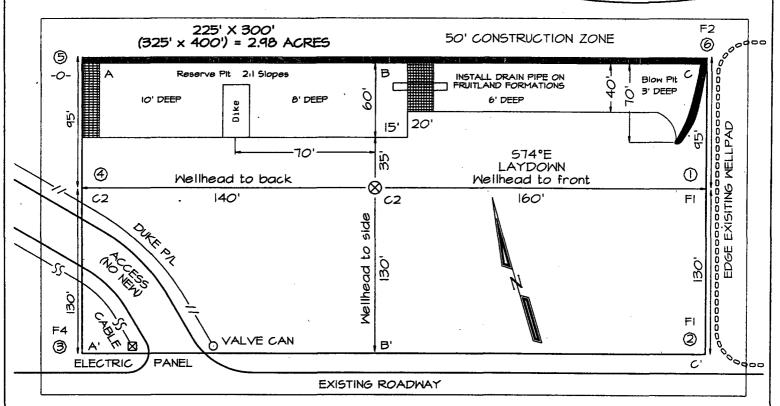
17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete
to the best of my knowledge and belief
1 10 1/
Aymanda Dandour
Signature
319/18/07 6
Amanda Sandoval
Printed Name
Regulatory Assistant II
Title
7-12-05
Date
Date
*SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field
shown on this plat was plotted from field notes of actual surveys made by me or under
my supervision, and that the same is true and correct to the best of my belief.
•
Date of Survey: MARCH 30, 2005
Signature and Seal of Professional Surveyor
C 50
SECH C. EDWARDS
ME V. 18
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展 (15269) 度
18/ (2020) 18/
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IT CF
UASON C. EDWARDS
Certificate Number 15269

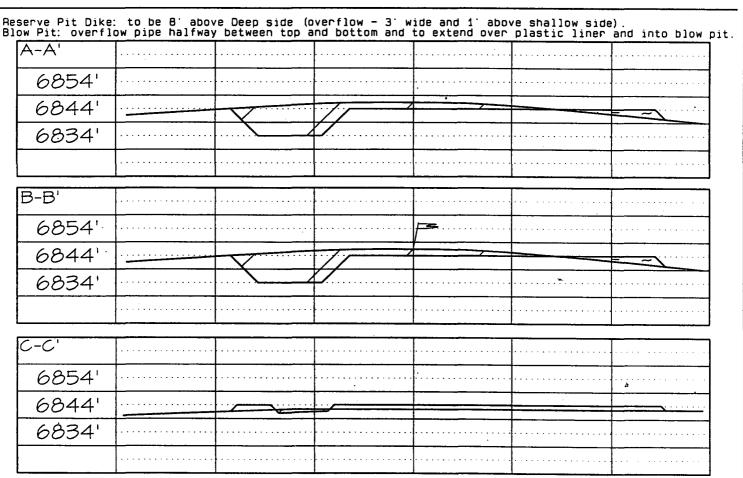
Submit 3 Copies To Appropriate District	State of New Mexico	Form	C-103
Office District I	Energy, Minerals and Natural Resources		27, 2004
1625 N. French Dr., Hobbs, NM 88240	6,	WELL API NO. 30-039- 3339	10
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease	$\overline{\mathcal{C}}$
District III	1220 South St. Francis Dr.	STATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.	
District IV	•	NM-82815	
1220 S. St. Francis Dr., Santa Fe, NM 8750	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name	
1 -	TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name of Olit Agreement Name	
DIFFERENT RESERVOIR. USE "APPLICATION OF A PROPERTY OF A P	ON FOR PERMIT" (FORM C-101) FOR SUCH	Lewis Park	
PROPOSALS.) 1. Type of Well:		8. Well Number	
Oil Well Gas Well X	Other	1E	
2. Name of Operator		9. OGRID Number	
	OURCES OIL & GAS COMPANY LP	14538	
3. Address of Operator	EET, FARMINGTON, NM 87402	10. Pool name or Wildcat Blanco Mesaverde/Basin Dakota	
4. Well Location	ELI, I AND TON, INIT 07402	Dianco iviesaver de Dasin Dakota	
	295' feet from the North line and	2060' feet from the <u>East</u> line	[
Section 13	Township 31N Range 8W Elevation (Show whether DR, RKB, RT, GR, etc.)	NMPM County San Juan	
	Lievation (Show whether DR, RRB, R1, OR, etc.)		
Pit or Below-grade Tank Application	or Closure		
Pit type New Drill Depth to Groundw	vater >100' Distance from nearest fresh water well	>1000' Distance from nearest surface water	>1000'
Pit Liner Thickness: na	mil Below-Grade Tank: Volume	bbls; Construction Material	
12. Check	Appropriate Box to Indicate Nature of No	tice, Report or Other Data	
	NTENTION TO:	SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK		AL WORK ALTERING CASIN	G \square
TEMPORARILY ABANDON	CHANGE PLANS COMMEN	ICE DRILLING OPNS. 🔃 P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL CASING/	CEMENT JOB	
OTHER: New	Drill X OTHER:		П
13. Describe proposed or complete	ed operations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date	
). SEE RULE 1103. For Multiple Completions: Atta	ch wellbore diagram of proposed completion	
or recompletion.			
	·		
	onstruct a new drilling pit and an associated blow/flar		
	g pit and blow/flare pit will be an unlined pit as detail		
	6, 2004 on file at the NMOCD office. A portion of the he risk ranking criteria. Burlington Resources anticip		and
	ted August 2, 2004 on file that the NMOCD office.	ares closing these pits according to the Drining /	
Works of the closure Procedure date	and rangest 2, 200 for the that the range 20 office.		
		*	
		•	
	ove is true and complete to the best of my knowledge sed according to NMOCD guidelines, a general permit		
grade tank has been win be constructed or clos	sed according to MMOCD guidennes, a general permit	or an (attached) atternative OCD-approved plan	
SIGNATURE Trances	Bench TITLE Re	gulatory Specialist DATÈ 08/02/2	2005
	The state of the s	DAIL WOOD	
	ces Bond E-mail address: fbond@	br-inc.com Telephone No. 505-326-98	347
For State Use Only		NOV 2	3 2005
Anna avenue Anna			48 / 1127 1
APPPROVED BY	TIFEEUTY OL & GAS	MSPECTOR, DESI. DATE	0 2000

PLAT #1

BURLINGTON RESOURCES OIL & GAS COMPANY, LP LEWIS PARK #1E, 2295' FNL & 2060' FEL SECTION 13, T31N, R8W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6846' DATE: MARCH 30, 2005







Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

OPERATIONS PLAN

Well Name:

LEWIS PARK 1E

Location:

2295' FNL & 2060' FEL, Section 13 T31N R08W

San Juan County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation: 6846' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2583 '	
Ojo Alamo	2583 '	2670'	aquifer
Kirtland	2670'	3453'	gas
Fruitland Coal	3453'	3748'	gas
Pictured Cliffs	3748'	3980'	gas
Lewis	3980'	4520'	
Huerfanito Bentonite	4520'		
Chacra	4913'	5698'	gas
Massive Cliff House	5698'	5760'	gas
Menefee	5760'	6048'	gas
Massive Point Lookout	6048'	6473'	gas
Mancos Shale	6473'	7338'	
Upper Gallup	7338'	8076'	gas
Greenhorn	8076'	8131'	gas
Graneros	8131'	8237 '	gas
Two Wells	8237'	8256'	gas
Paguate	8256'	8266'	gas
Upper Cubero	8266'	8296'	gas
Lower Cubero	8296'	8353'	gas
Encinal	8353 '	8453'	gas
Burro Canyon	8453'	8492'	gas
Morrison	8492'	8424'	gas
Topset TD:	8424'	8532'	gas
Total Depth:	8532 '		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - From 7876' to topset TD and from topset TD to final TD in Morrison

Topset TD is approx 29 ft above the top Burro Canyon.

Drill out TD at the Morrison contact

Final TD should be approx 401' below topof Graneros or 295' below

top of Two Wells.

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CCL, CBL - surface to TD

Mud Program:

<u>Interval</u>	<u>Type</u>	Weight	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120 - 4080'	LSND	8.4 - 9.0	30 - 60	no control
4080' - 8424'	Air/Air Mist/Nitrogen	n/a	n/a	n/a
8424' - 8532'	LSND	8.4 - 9.0	30-60	no control

Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u> <u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8" 32.3#	H-40
8 3/4"	0' - 4080'	7" 20/23#	J-55
6 1/4"	0' - 8424'	4 1/2" 10.5#/11.6#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 8532'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 4 $\frac{1}{2}$ " x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip
 to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing -

Pre-Set Drilled - Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 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. Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead with 371 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (914 cu ft 50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/40 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 331 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (914 cu ft - 50% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo @ 2670'. Two turbolating centralizers at the base of the Ojo Alamo 2670'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Pump 299 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (591 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Continued Cementing:

Cement float collar stacked on top of float shoe.

If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

· If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesa Verde and Dakota formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 600 psi Pictured Cliffs 700 psi Mesa Verde 2000 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The E/2 of Sec 13 is dedicated to the Mesa Verde and the Dakota.
- This gas is dedicated.

Montius

Completion/Workover Rig BOP Configuration 2,000 psi System

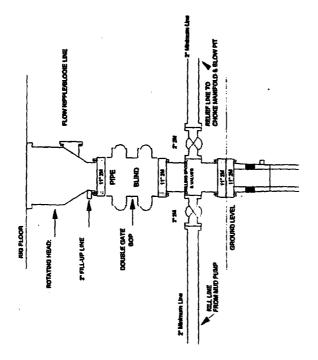
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BURLINGTON RESOURCES

Ordling Rig Choke Manifold Configuration 2000 psi System

Burlington Resources

Drilling Rig 2000 psi System



BOP Installation from Surface Casing Point to Total Depth. 11* Bore 10* Norminal, 2000 pas working pressure double gate BOP to be equipped with blind range and pipe rains. A 500 pai rotating head on top o

ADMISTRALE OR POSITIVE CHONE

**Referring 194

**PROM DIRELLING SPOOL

**Referring 194

*

Choke manifold installation from Surface Cesting Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

4-20-01

Figure #1

AND PART PRIVATE STATE OF STAT

Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 psi working pressure or greater excluding 500 psi stripping head.

Figure #2

4-20-01