UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Al	PPLICATION FOR PERMIT TO	O DRILL, DEEPEN	I, OR PLUG BACK	
1a.	Type of Work DRILL		?	5 Lease Number NMSF-078	O-FTO-W
1b.	Type of Well GAS			Unit Reporting NECVENCE	
2.	Operator BURLINGT	ON		7. Unit Agreement	Name
	незфинс	ES Oil & Gas Company LP			SEP 2000
3.		ne No. of Operator 89, Farmington, NM 8749	99	8. Farm or Lease N Roelofs 9. Well Number #2E	lame
					No.
4.	Location of Wel	 W), 840' FNL & 660' FWI	۵,	10. Field, Pool, Wil Basin DK	dcat Section
	Lat. 36*44 Long. 107*4	.6908'N	0	11. Sec., Twn, Rge, Sec. 10, T29N,	
	nong. 107"&	0.0333 W		API# 30-045- 3	3894
14.		es from Nearest Town Blanco, NM		12. County San Juan	13. State NM
15.	Distance from F	Proposed Location to Nearest P	roperty or Lease Lir	ne	
16.	Acres in Lease			17. Acres Assigne 320 W/2	d to Well
18.	Distance from F	Proposed Location to Nearest W	ell, Drlg, Compl, or	Applied for on this I	_ease
19.	Proposed Depth 7555'			20. Rotary or Cable Rotary	e Tools
21.	Elevations (DF, 6345' GL	FT, GR, Etc.)		22. Approx. Date	Work will Start
23.		ng and Cementing Program tions Plan attached	7		
24.	Authorized by:	Regulatory Analyst	hmpre]	$\frac{\mathcal{E}\cdot/\mathcal{O}}{ exttt{Date}}$	06
PERM	IIT NO.	XIIII	APPROVAL DA	TE	
APPR	OVED BY	M/// conflict of TITL	E At-M	DA	TE 9/1/0 (
	leological Report a Itened and Endang	nttached ered Species Report attached	1/		

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

This well is NOT in the HPA area.



· District [PO Box 1980, Hobos, NM 88241-1980

District [[PO Drawer DD, Artesia, NM 88211-0719

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

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

Form C-10. Revised February 21, 199 Instructions on back

Submit to Appropriate District Office

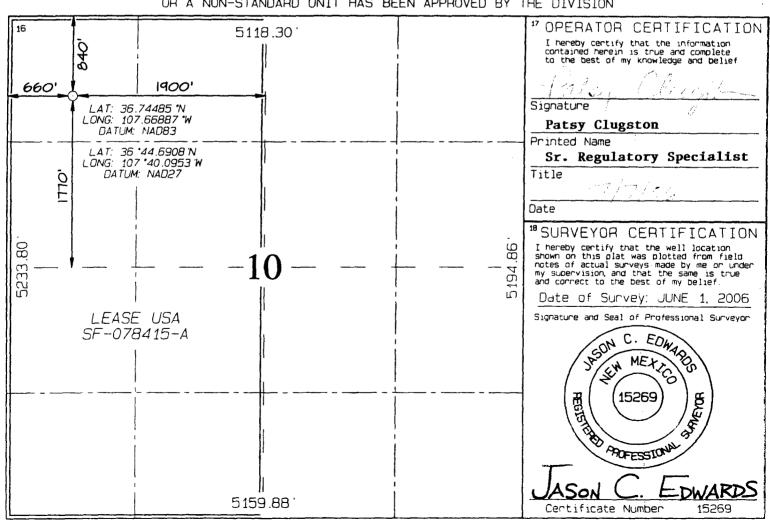
State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

,	API Numbe			'Pool Cod	te ³Pool Name					
30-0	45-33	3894		71599 /	72319	9 Dakota				
'Property		· · · · · · · · · · · · · · · · · · ·			*Propert	y Name		a y	Vell Number	
29226					ROELOFS 2E					
'OGRID	No.				*Operato	r Name			Elevation	
14538							6345			
					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	
D	10	29N	8W		840	NORTH	660	WEST	SAN JUAN	
	¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D										
12 Dedicated Acres	2 Dedicated Acres			L	13 Joint or Infill	¹⁴ Consolidation Code	⁵ Order No.	l		
DK 320.0	DK 320.00ac W2				}					

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



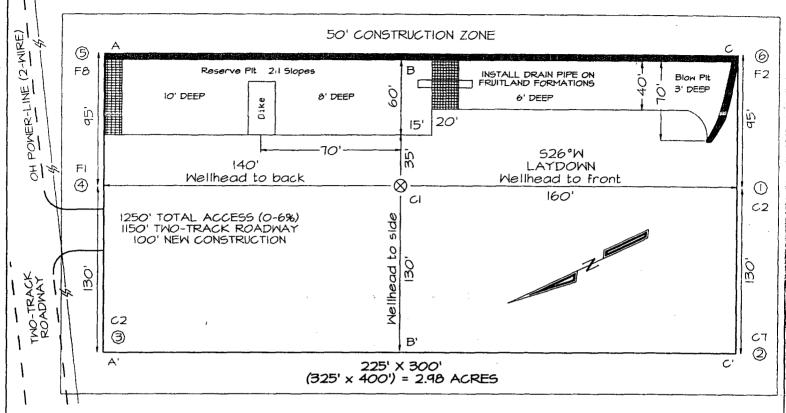
Submit 3 Copies To Appropriate District Office	State of N	lew Mexico		Form C-103
District I	Energy, Minerals a	nd Natural Resources	·	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II	.		WELL API NO.	33894
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVA	ATION DIVISION		<u> </u>
District III		St. Francis Dr.	STATE	FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe,	NM 87505	6. State Oil & Gas Lease No),
1220 S. St. Francis Dr., Santa Fe, NM 8750)5		NMSF-07	
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSALS	ES AND REPORTS ON WE		7. Lease Name or Unit Agree	ement Name
DIFFERENT RESERVOIR. USE "APPLICATIO			Roeld	ofs
PROPOSALS.)				
1. Type of Well: Oil Well Gas Well X	Other		8. Well Number	12F
2. Name of Operator	Un one off a discour		9. OGRID Number	
3. Address of Operator	URCES OIL & GAS COMP	ANY LP	10. Pool name or Wildcat	18
	EET, FARMINGTON, NM	87402	Basin D	akota
4. Well Location Unit Letter D :	840 feet from the	North line and	660 feet from the	West line
Section 10	Township 2		W NMPM Coun	
	Elevation (Show whether DR	R, RKB, RT, GR, etc.) 6345'		
Pit or Below-grade Tank Application	or Closure			
Pit type New Drill Depth to Groundw	ater >100' Distance from	nearest fresh water well	>1000' Distance from neares	st surface water >1000'
Pit Liner Thickness:	mil Below-Grade Tar	nk: Volume	bbls; Construction Materi	al
PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING		REMED COMME	otice, Report or Other Da SUBSEQUENT REPO IAL WORK ENCE DRILLING OPNS. EXCEMENT JOB	
OTHER: New	Drill	X OTHER	:	П
13. Describe proposed or complete		all pertinent details, and		
of starting any proposed work) or recompletion.	. SEE RULE 1103. For Mu	litiple Completions: At	tach wellbore diagram of propose	ed completion
or recompletion.				
New Drill, Unlined:				
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the	new drilling pit and vent/fla	are pit will be an unline	d pit as detailed in Burlington's R	Revised Drilling /
Workover Pit Construction / Operation designed to manage fluids, and that p				
according to the Drilling / Workover		-	-	ates crosing these pits
· ·		·		
I hereby certify that the information abo		a heet of my knowledge	and haliaf To the section has	
	ive is true and complete to th			v nit or below-
grade tank has been/will be constructed or clos			X or an (attached) alternative OCD-	
		es , a general permit	X or an (attached) alternative OCD-	approved plan .
SIGNATURE 1 4manda	ed according to NMOCD guidelin	TITLE	X or an (attached) alternative OCD- Regulatory Analyst	DATE
SIGNATURE	ed according to NMOCD guidelin	TITLE	X or an (attached) alternative OCD-	DATE
SIGNATURE 1 4manda	ed according to NMOCD guidelin	TITLE	X or an (attached) alternative OCD- Regulatory Analyst	DATE

BURLINGTON RESOURCES OIL & GAS COMPANY, LP ROELOFS #2N, 840' FNL & 660' FWL SECTION 10, T29N, R8W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 6345' DATE: JUNE 1, 2006

#

PLAT

LATITUDE: 36.74485° N LONGITUDE: 107.66887° W DATUM: NADI983



Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side). Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit.

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
A-A'		 			
6354'		 			
6344'					
6334'					
В-В'		 			
6354'		 	-		
6344'		7/			
6334'					
C-C'					
6354'		 			
6344'		77			
6334'		 			

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

<u> Well Name:</u>

roelofs \mathcal{ZE}

Location:

840' FNL & 660' FWL, Section 10 T29N R08W

San Juan County, New Mexico

Formation:

Dakota/Mesaverde

Elevation:

6345' GL

Formation Tops:	<u>Top</u>	Bottom	<u>Contents</u>
Surface	San Jose	1962'	
Ojo Alamo	1962'	2147'	aquifer
Kirtland	2147'	2767'	gas
Fruitland Coal	2767'	3047'	gas
Pictured Cliffs	3047'	3177'	gas
Lewis	3177'	3679'	
Huerfanito Bentonite	3679'		
Chacra	4008'	4767'	gas
Massive Cliff House	4767'	4819'	gas
Menefee	4819'	5207'	gas
Massive Point Lookout	5207'	5604'	gas
Mancos Shale	5604'	6485'	
Upper Gallup	6485'	7230'	gas
Greenhorn	7230'	7290'	gas
Graneros	7290'	7332'	gas
Two Wells	7332'	7438'	gas
Paguate	7438'	7460'	gas
Upper Cubero	7460'	7495'	gas
Lower Cubero	7495'	7555'	gas
Encinal	7555'	7555'	gas
Total Depth:	7555'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

0 - 120' Spud MUD/Air/Air Mist 8.4 - 9.0 40	0 - 50 n	o control
120' - 3277' LSND 8.4 - 9.0 30	0 - 60 n	o control
3277' - 7555' Air/Air Mist/Nitrogen n/a	n/a	n/a

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

Hole Size	Depth Interval	<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' - 3277'	7"	20#	J-55
6 1/4"	0' - 7555'	4 1/2"	10.5#/11.6#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u> Grade</u>
0' - 7555'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

ì

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, BOPE 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, BOPE 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 286 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 (124 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/28 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 258 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (733 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 @ 2147'. Two turbolating centralizers at the base of the Ojo Alamo @ 2147'. 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 280 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 (554 cu.ft., 30% excess to achieve 100' overlap in $4-1/2" \times 7"$ annulus). WOC a minimum of 18 hrs prior to completing.

Cementing: Continued

Cement float collar stacked on top of float shoe.

Note: 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 bloose 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:

- This will be a Dakota only.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi
Pictured Cliffs 600 psi
Mesa Verde 700 psi
Dakota 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 West half of Section 10 is dedicated to the Dakota formation.
- This gas is dedicated.



preseure or greater excluding 600 pal atripping head.

10-02-4

Figure #1

the BOP. All BOP equipment is 2000 pel working