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

a.	Type of Work		5. Lease Number	
	DRILL		SF/078415-A	
			Unit Reporting Number	
b.	Type of Well		6. If Indian, All. or Tribe	
-	GAS			
	Operator	EONT A TOTAL OF THE STATE OF TH	7. Unit Agreement Name	
	BURLING RESOURCE	ES Oil & Gas Company	290)
				~
	Address & Phone No		8. Farm or Lease Name	
	PO Box 4289,	Farmington, NM 87499	Roelofs	
	(===) 005 05		9. Well Number	
	(505) 326-97	00	2 N	
·.	Location of Well		10. Field, Pool, Wildcat	
	730'FSL, 1910'	FWL	Blanco MV/Basin DK	
	_	•	11. Sec., Twn, Rge, Mer. (NMPM)	
	Latitude 36 ⁰ 4	4.1'N, Longitude 107 ⁰ 39.9'W	N Sec.10, T-29-N, R-	8-1
			API# 30-045- 30828	
4.	Distance in Miles fro	om Nearest Town	12. County 13. State	9
	9 miles from B	lanco	San Juan	MM
15.	Distance from Propo	osed Location to Nearest Property or Lease	Line	
16.	Acres in Lease		17. Acres Assigned to Well	
٠٠.	Adido III Edudo		320 W/2	
18.	Distance from Prop	osed Location to Nearest Well, Drlg, Compl	, or Applied for on this Lease	
	200'	This action is subject to (security) and		
19.	Proposed Depth	procedural review pursuant to 48 CFR \$	20. Rotary or Cable Tools	
	7558 ′	and appeal pursuant to 45 CFR 3188.4.	Rotary	
21.	Elevations (DF, FT,	GR, Etc.)	22. Approx. Date Work will Start	:
	6323′ GR			
23.	Proposed Casing at	nd Cementing Program		`\.
		ns Plan attached		
			Sorr man designada 1918"	
				
		Sance (Ala	7-28-01	
24.	Authorized by:	pulational Compliance Companies	Date	
	Re	gulátory/Compliance Supervisor		
			1/1/-	
PERM	MIT NO.	APPROVAL	DATE	
	DOVED BY	Illan Konton TITE AF	M DATE / //S	5/
APPF	ROVED BY	111000000) 1115 - 1717	DATE ///O	/
			•	
	aeological Report to be	submitted		

Threatened and Endangered Species Report to be submitted

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.

Was Rollofs A #/B

March Star Basin Dakotain Fill & Lew (80 Ac)

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD. Artesia, NM 88211-0719

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

District IV PO Eox 2088, Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

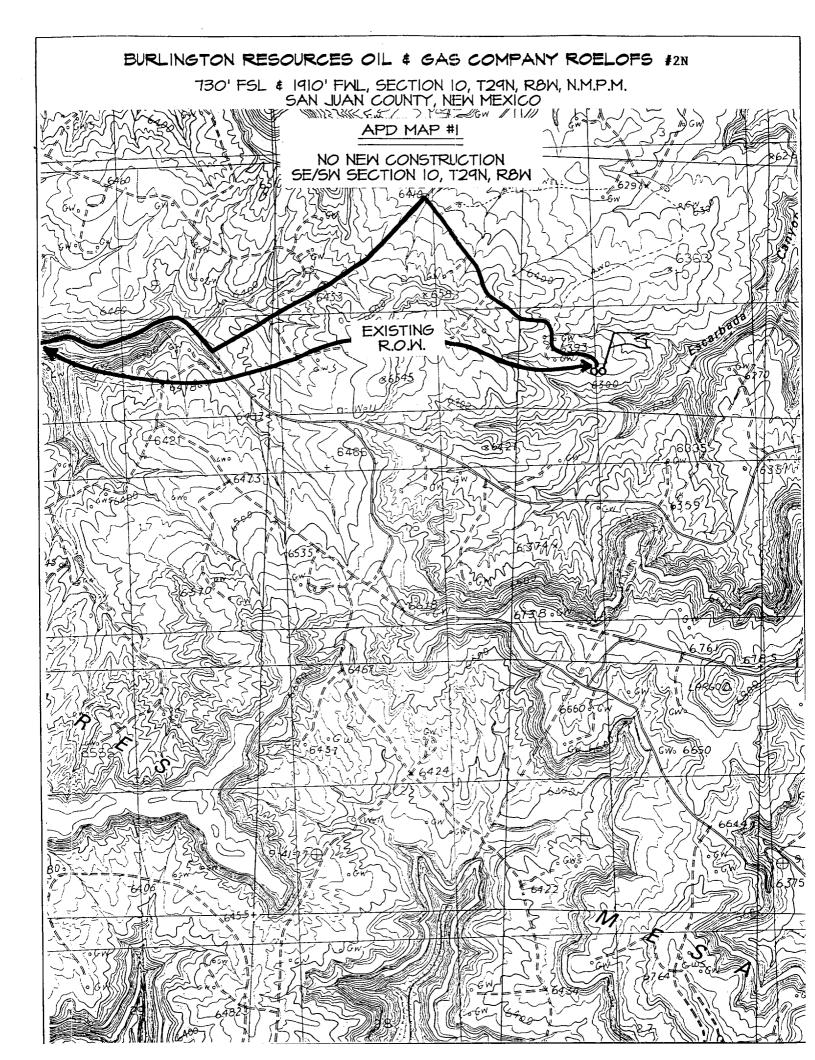
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504–2088

Form C-102 Revised February 21, 1994 Instructions on back

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

AMENDED REPORT

			WELL	LOCATI	ON AND AC	CREAGE DEDI	CATION PL	Al		
'API Number Po				Pool Cod	е		Pool Name	!	 .	
30-04	15- 3	087 8	7231	9/71599		nco Mesaverd	e/Basin Dak	ota		
Property Code				*Property Name				• We	ell Number	
1407 39226				ROELOFS				2N		
'OGRID	٧٥.	_	LIDL TAI	TON D	*Operator	·Name OIL & GAS (*Elevation		6323 ,
14538		В	OHLIM				JUMPANI LE			0323
					¹⁰ Surface	Location		F At		County
UL or lat no.	Section	Township	Range BW	Lat Idn	Feet from the	SOUTH	Feet from the 1910	WE	est line ST	SAN JUAN
N	10	29N		<u> </u>	<u> </u>	L		L		TOAK OUAK
	T	11 E	Bottom	Hole l	ocation I	f Different	From Surf		est line	County
UL or lot no.	Section	IOMISHID	harge .		PEEC II OII C.E.					
-13		13 Joint or Ir	riil 14 Coo	solidation Cod	15 Order No.	<u> </u>	<u> </u>			
DK 320	w/2	John G D								
MV 320/W	2	<u> </u>				COLUMN TO ALL	TATEDECTO	W. D		NCOL TOATED
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OPERATIONS PLAN

Well Name: Roelofs #2N

Location: 730'FSL, 1910'FWL, Sec. 10, T-29-N, R-8-W

San Juan County, NM

Latitude 36° 44.1'N, Longitude 107° 39.9'W

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 6323 GR

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1955'	
Ojo Alamo	1955'	2135 ′	aquifer
Kirtland	2135 ′	2585 ′	gas
Fruitland	2585'	3030'	gas
Pictured Cliffs	3030'	3135'	gas
Lewis	3135'	3655'	gas
Intermediate TD	3235'		
Mesa Verde	3655 '	4010'	gas
Chacra	4010'	4660 ′	gas
Massive Cliff House	4660'	4825'	gas
Menefee	4825'	523 5′	gas
Massive Point Lookout	5235'	5660'	gas
Mancos	5660 ′	6464 ′	gas
Gallup	6464′	7216 '	gas
Greenhorn	7216'	7270'	gas
Graneros	7270 '	7314'	gas
Dakota	7314′		gas
TD	7558'		

Logging Program:

Open hole - none

Cased hole - TMD/L, GR/CBL - TD to surface

Cores - none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 300	' Spud	8.4-9.0	4.0-50	no control
300- 3235	5' LSND	8.4-9.0	30-60	no control
3235- 7558	B' Air/N2	n/a	rı/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 300'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3235'	7"	20.0#	J-55
6 1/4"	3135' - 7558'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7558' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 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" 3000 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, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 3000 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 2 3/8" x 3000 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 drilling crew.
- All BOP tests and 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 - cement with 239 sx Class "B" cement with 1/4# celloflake/sx and 3% calcium chloride (282 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. 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 w/332 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent (972 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 2485'. First stage: cement with 176 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent. Second stage: 290 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (972 cu.ft., 100% 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 at 2135'. Two turbolating centralizers at the base of the Ojo Alamo at 2135'. 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 -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 441 sx 50/50 Class "G" Poz with 5% gel, 0.25# celloflake/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive, 0.15% dispersant, 0.1% antifoam agent (635 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

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

Cement float shoe on bottom with float collar spaced on top of float shoe.

- Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.
- 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 (Gas/Mist Drilling):

The following equipment will be operational while gas/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.
- Deduster equipment will be utilized.
- 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 Dakota and Mesa Verde formations will be completed and commingled.
- 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 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half of Section 10 is dedicated to the Mesaverde and Dakota in this well.
- This gas is dedicated.

Bussan D. Shut 1/24/01
Drilling Engineer Date