# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work DRILL	RECEIVED	5. Lease Number SF-078423 k Unit Reporting Numl 8910005380	oottomhole.
lb.	Type of Well GAS	MAR - 3 1997	6. If Indian, All. or Tribe	•
	<b>6</b>		7. Unit Agreement Nam	<del></del>
2.	Operator  BURLING  RESOURCE	CON DIST. 3	J	
	14538	ES Oil & Gas Company	San Juan 29	9-7 UNIL
	Address & Phone N	o of Operator	8. Farm or Lease Name	<del></del>
,.		Farmington, NM 87499	7465 San Juan 29	
	20 2011 1203,	Turning con, in or in	9. Well Number	
	(505) 326-97	00	64B .	
<b>I</b> .	Location of Well		10. Field, Pool, Wildca	
٠.	1510 FSL, 1640	'FEL - surface	723/9 Blanco Mesa	
		EL - bottomhole	(23.)	
			11. Sec., Twn, Rge, Mei	
	Latitude 36 <sup>0</sup> 4	4.3, Longitude 107 <sup>0</sup> 32.2	J Sec 11, T-29	9-N, R-7-W
			API # 30-039-25649	-
14.	Distance in Miles fro	om Nearest Town	12. County	13. State
	3 miles to Nav	ajo City	Rio Arriba	NM
15.	Distance from Prop	osed Location to Nearest Property or Lease Li	ne	
		150' bottomhole		
16.	Acres in Lease		17. Acres Assigned to	Well
			320 E/2	
18.		osed Location to Nearest Well, Drlg, Compl, or	Applied for on this Leas	se
	100'	This action is subject to technical and	00 Datama on Cable Te	-l-
19.	Proposed Depth	procedural review pursuant to 43 OFR 3165.3		
	5821'TVD	and appeal pursuant to 43 CFR 3165.4.	Rota	r y
21.	Elevations (DF, FT,	GR. Etc.)	22. Approx. Date Wor	k will Start
	6391'GR	,	••	
23.	•	nd Cementing Program		SECTION AND AN
	See Operatio	ns Plan attached	\$00000000000000000000000000000000000000	Will With AWAYS
		$\supset$	"GENERAL REQUIRE	MENTS"
		1.60	2-24	1.90
24.	Authorized by:	liggy Dradfield		
	(Re	gulatory/Compliance Administrator	Cate	
ERN	MIT NO.	APPROVAL DA		
	/S/ Duar	ne W. Spencer	DATE	FEB 28 1997

Archaeological Report submitted by Arboles Contract Archaeology Technical Report #926
Threatened and Endangered Species Report submitted by Ecosphere

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

NOTE: Order R-10720 dated January 9, 1997 covers well density and well location requirements

R-10720

District i PO Box 1980, Hobbs, NM 88241-1988 PO Drawer DD, Artesia, NM \$2211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

PO Box 2088, Santa Fe, NM 87504-2088

## State of New Mexico Energy, Minerais & Natural Resources Department

Revised February 21, 1994 Instructions on back OIL CONSERVATION DEVISION A Submit to Appropriate District Office

PO Box 2088 Santa Fe, NM 87504-2088

State Lease - 4 Copies Fee Lease - 3 Copies

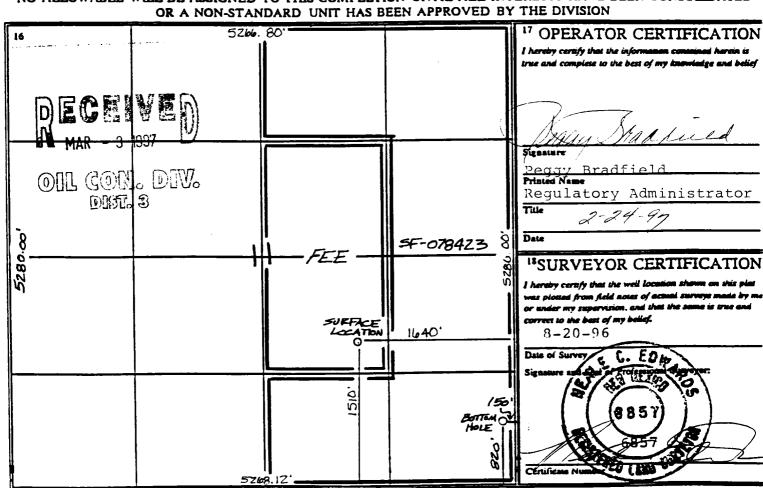
Form C-102

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number			1 Poel Code		' Pool Name				
30-039-25649				В1	Blanco Mēsaverde				
* Property Code			' Property Name					' Well Number	
7465 San Jua									
'OGRID No.			Operator Name						
14538 BURJ				ON RESOURCES OIL AND GAS COMPANY					
	<del></del>			10 Surface	Location				
Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West time	County	
11	29 N	7 W		1510	South	1640	East	R.A.	
	·	11 Bott	tom Hol	e Location I	f Different Fr	om Surface			
Section	Toweship	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West tipe	County	
11	29 N	7 W		820	South	150	East	R.A.	
es "Joint	or letti (4 (	Consolidatio	Code 15 C	rder No.				_	
1			ļ						
	2564 Code Na. Section 11	25649  Code  No. BUI  Section Township  11 29 N  Section Township  11 29 N	25649   72319	25649   72319		Township   Range   Lot Idn   Feet from the   North/South line   11   29 N   7 W   820   South   Sout	Property Name   San Juan 29-7 Unit	Property Name   San Juan 29-7 Unit   San Juan 29-7 Unit   San Juan 29-7 Unit   San Juan 29-7 Unit   Surface Location   Section   Township   Range   Lot Idn   Feet from the   Location   Location   South   Location   Loc	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



#### OPERATIONS PLAN

Well Name:

Surface Location: Bottomhole Location: San Juan 29-7 Unit #64B

1510'FSL, 1640'FEL Section 11, T-29-N, R-7-W 820'FSL, 150'FEL Section 11, T-29-N, R-7-W Rio Arriba County, New Mexico

Latitude  $36^{\circ}$  44.3, Longitude  $107^{\circ}$  32.2

Blanco Mesa Verde

Formation: Elevation:

6391'GL

Formation Tops:	Top - TVD		Bottom Contents
Surface	San Jose	2331'	aquifer
Ojo Alamo	2331'	2861 <b>′</b>	aquifer
Fruitland	2861 <b>′</b>	3251'	gas
Pictured Cliffs	3251'	3441'	gas
Lewis	3441 <b>′</b>	4001′	gas
Intermediate TD	3541'		
Mesa Verde	4001'	4991'	gas
Massive Cliff House	4991′	5091 <b>′</b>	gas
Menefee	5091'	5421'	gais
Point Lookout	5421'		gas
Total Depth	5821'TVD		

Logging Program:
Cased hole logging - Gamma Ray Neutron from 2800' to TD Mud Logs/Coring/DST - none

#### Mud Program:

Interval- MD	Type	Weight	Vis.	Fluid Loss
0- 500'	Spud	8.4 - 9.0	40-50	no control
500-3848′	LSND	8.4-9.0	30-60	no control
3848-6211'	Gas/Mist	n/a	n/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):

Measure	t
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Hole Size	Depth	TVD	Csg Size	Weight	Grade
12 1/4"	0' - 500'	<del>0-</del> 500 <b>′</b>	9 5/8"	32.3#	H - 40
8 3/4"	0' - 3848'	0-3541'	7"	20.0#	J-55
6 1/4"	3748' - 6211'	3441-5821'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 5821' 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.

#### BOP Specifications, Wellhead and Tests (cont'd):

#### 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 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 - cement with 409 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (470 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 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/441 sx Class "B" w/3% sodium metasilicate, 5# gilsonite/sx and 0.375# flocele/sx. Tail w/100 sx 50/50 Class "B" Poz w/2% calcium chloride, 5# gilsonite/sx and 0.25# flocele/sx (1158 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 12 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

Cement float shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom in the hold section, 2070'MD to 3848'MD. Bowspring centralizers on every joint in the build section, 1000' MD to 2070'MD. Bowspring centralizers spaced everyh 4th joint from 1000' MD to surface. Two cement baskets placed at the base of the Ojo Alamo at 2861' TVD.

4 1/2" Production Liner -

Cement to circulate liner top. Lead with 150 sx 65/35 Class "B" poz w/6% gel, 3# gilsonite/sx and 1/4# flocele/sx. Tail with 125 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 5# gilsonite/sx and 0.3% fluid loss additive (444 cu.ft., 75% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff. Bowspring centralizers run every other joint off bottom to 7" casing shoe at 3848' MD.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.
- The pipe will be rotated and/or reciprocated, if hole conditions permit.

#### 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.
- 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 formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 800 psi Pictured Cliffs 800 psi Mesa Verde 700 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 east half is dedicated to the Mesa Verde.
- This gas is dedicated.

Jones 21	2/24/97		
Drilling Engineer	Date		

