UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



a.	Type of Work	5. Lease Number
u.	DRILL	sf-08067070
*	DITTE	Unit Reporting Number MV-8910010510
	10.110	MV-8910010510
	3 13 18 13 16 77	DK-891001051B
L.	Time of Mall	~
b.	Type of Well	்டு6. If Indian, All. or Tribe
	GAS (O) (F) (A)	- S
	∞ ∞ ∞	
·•	Operator C	7. Unit Agreement Name
	BURLINGTON to A CONTROL TO THE CONTROL THE CONTROL TO THE CONTROL THE CONTROL TO THE CONTROL THE CO	
	RESOURCES Oil & Gas Company to	San Juan 27-4 Unit
	Address & Phone No. of Operator	8. Farm or Lease Name
•	PO Box 4289, Farmington, NM 87499 ALE (E. D. D.)	San Juan 27-4 Unit
	FO BOX 4209, Parmingcon, NA 07499	
	(FOE) 204 0700	9. Well Number
	(505) 326-9700	#51M
	Location of Well	10. Field, Pool, Wildcat
	1510' FSL, 2140' FEL	Blanco Mesaverde/Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM)
Latit	tude 36° 32.4782'N, Longitude 107° 16.3072' W	J Sec. 29, T27N, R04W
		API # 30-039-
		API # 30-039- 27648
4.	Distance in Miles from Nearest Town	12. County 13. State
	22 miles to Gobernador	Rio Arriba , NM
	EL MIIOD CO CONCINUACI	111111111111111111111111111111111111111
5.	Distance from Proposed Location to Nearest Property or Lease	Line
	1510'	
6.	Acres in Lease	17. Acres Assigned to Well
ΙΟ.	ACIES III LEASE	
		MV-320 E/2
		DK-320 E/2
•	Distance from Decreased Location to Newscat Well Dala Court	an Annalis al Company Alain Indiana
8.	Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease
		00 0 4 0 11 7 1
9.	Proposed Depth	20. Rotary or Cable Tools
	8484'	Rotary
1.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	7197' GR	
3.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
	(\ A	A
24.	Authorized by: Your (lark	1/30/04
. .	, <u> </u>	
	Regulatory Specialist	Date
	·	
	ITNO /	
	IT NO. APPROVAL D	DATE
PERM		_
	OVER DY ASSESSED ASSESSEDA	M 9 14 1 C
	OVED BY AMBOR TITLE AF	M DATE 2.14-05
	OVED BY AMBOX TITLE AF	M DATE 2.14-05

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.

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

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

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION

PO Box 2088 nc

State Lease - 4 Copies Fee Lease - 3 Copies

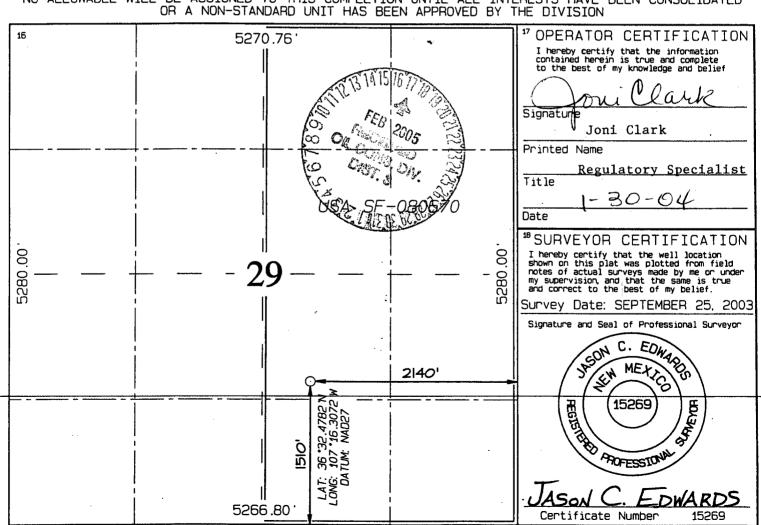
Santa Fe. NM 87504+2088

			mai	17.	25	AMENDED	REPORT
**	750	25	1-11	17.	20		

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number				Pool Code		³Pool Name				
30-039- ,	276	48	723	19/71599	Blanco Mesaverde/Basin Dakota					
*Property					*Property	e Me	⁴Well Number			
7452					SAN JUAN 27-4 UNIT				51M	
'OGRID N	lo.				*Operator	*E	"Elevation			
14538			BURLI	NGTON F	RESOURCES (URCES OIL & GAS COMPANY, LP			7197	
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	
J	29	27N	4W		1510	SOUTH	2140	EAST	RIO ARRIBA	
¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres MV-E/320	-			·	¹³ Joint or Infill	³⁴ Consolidation Code	⁵⁵ Order No.		J	
DK-E/320					<u></u>					

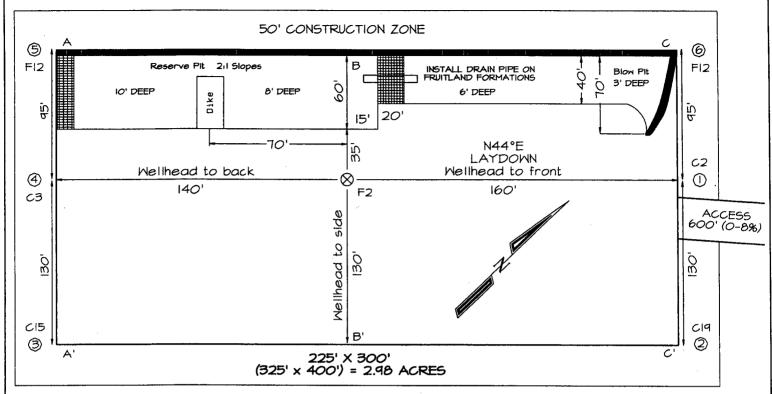
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



SAN JUAN 27-4 UNIT #51M, 1510' FSL & 2140' FEL SECTION 29, T27N, R4W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 7197' DATE: SEPTEMBER 25, 2003

LATITUDE: 36°32'29"
LONGITUDE: 107°16'18"

DATUM: NADI927



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'

7209'

7189'

B-B'

7209'

7189'

7189'

7189'

7189'

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: San Juan 27-4 Unit #51M

Location: 1510'FSL, 2140' FEL, Section 29, T-27-N, R-4-W

Rio Arriba County, New Mexico

Latitude 36° 32.48'N, Longitude 107° 16.31'W

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 7197'GL

Formation Tops:	<u>Top</u>	Bottom Conte	nts
Surface	San Jose	3461'	
Ojo Alamo	3461'	3676'	aquifer
Kirtland	3676'	3865'	gas
Fruitland	3865′	4040'	
Pictured Cliffs	4040'	4119'	gas
Lewis	4119'	4543'	gas
Intermediate TD	4219'		
Huerfanito Bentonite	4543'	5006′	gas
Chacra	5006′	5624'	gas
Upper Cliff House	5624'	5731′	
Massive Cliff House	5731 ′	5845′	
Menefee	5845′	6221′	gas
Point Lookout	6221'	6709 ′	gas
Mancos	6709 '	7354'	gas
Gallup	7354′	8159'	gas
Greenhorn	8159'	8219'	gas
Graneros	8219'	8242'	gas
Dakota	8242'	8374	gas
Upper Cubero	8374′	8412'	gas
Lower Cubero	8412'	8474'	gas
Oak Canyon	8474'		
TD	8484'		

Logging Program:

Mud Logs/Coring/DST -

Mud logs - none
Coring - none
DST - none
Open hole - none

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

Mud Program:

Interval	Type	Weight	Vis. Fluid Loss
0- 200'	Spud MUD/Air/Air Mist	8.4-9.0	40-50 no control
200- 4219'	LSND	8.4-9.0	30-60 no control
4219- 8484'	Air/Air Mist/Nitrogen	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):

Hole Size	Depth Interval	Csg.Size Wt.	Grade
12 1/4"	0' - 200'	9 5/8" 32.3#	H-40
8 3/4"	0' - 4000'	7" 20.0#	J-55
8 3/4"	4000' - 4219'	7" 23.0#	L-80
6 1/4"	0' - 7800'	4 1/2" 10.5#	J-55
6 4"	7800' - 8484'	4 ½′ 11.6#	N-80

<u>Tubing Program:</u> 0' - 8484' 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 conventionally drilled -

Cement with 147 sacks Type III cement with 0.25 pps Celloflake, 3% calcium chloride. (188 cu ft - 200% excess, bring cement to 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.

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

7" intermediate casing -

Lead with 384 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 (941 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/11 sxs Premium Lite w/ 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% SMS. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 373 sacks with Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (941 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 @ 3676'. Two turbolating centralizers at the base of the Ojo Alamo 3676'. 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. Cement with 293 sks Premium Lite HS w/ 0.25 pps Celloflake, 0.3% CD-32, 6.25 pps LCM-1 and 1% FL-52. (581 cu ft-30% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

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 bloose 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 the Dakota formations will be completed.
- 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 below the top of the Pictured Cliffs.
- The east half of Section 29 is dedicated to the Mesa Verde and the Dakota.
- This gas is dedicated.

Drilling Engineer

February 24, 2004

BURLINGTON RESOURCES

BURLINGTON RESOURCES

Cempletion/Workover Rig BOP Configuration 2,000 psi System

Drilling Rig Choke Menifold Configuration 2000 psi System

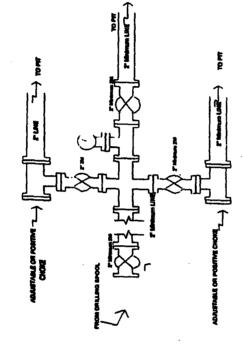
Burlington Resources

Drilling Rig 2000 psi System

AND PLOOR

ROTATING HEAD.

S. FRLLUP LINE

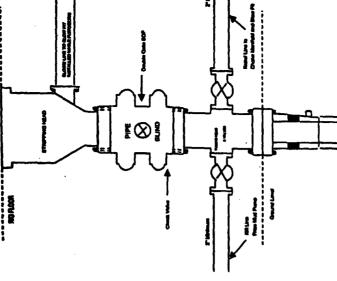


TOP

Choke menifold installation from Surface Cesing Point to Total Depth. 2,000pal working pressure equipment with two chokes.

Figure #3

4-20-01



Minhmum BOP installation for all Completion/Workover Operations, 7-1/16" bore, 2000 pel minhmum 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 pel working pressure or greater excluding 500 pel stripping head.

4-20-01