UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Type of Work	5. Lease Number
	DRILL	NMSF-079049-B Unit Repo <mark>ŗt[nĝ Numbe</mark> r
b.	Type of Well GAS	6. If Indian, All. or Tribe
		27.1418
•	Operator BURLINGTON	7. Unit Agreement Name
	RESOURCES Oil & Gas Company	San Juan 28-6 Unito
•	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name
	(505) 326-9700	9. Well Number #170N
•	Location of Well Unit P (SESE) 180' FSL, 80' FEL	10. Field, Pool, Wildcat Blanco Mesaverde/Basin Dakota
/	Latitude 36° 35.7778'N	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 5, T27N, R06W
	Longitude 107° 28.8349'W	API# 30-039- 29573
4.	Distance in Miles from Nearest Town	12. County 13. State
	34.1 miles to the Blanco Post Office	Rio Arriba NM
5.	Distance from Proposed Location to Nearest Property or Leas	se Line
6.	Acres in Lease	17. Acres Assigned to Well 320.88 E2 MV/DK
8.	Distance from Proposed Location to Nearest Well, Drlg, Comp 3482' - San Juan 28-6 Unit #104N	pl, or Applied for on this Lease
9.	Proposed Depth	20. Rotary or Cable Tools
9.		20. Rotary or Cable Tools Rotary
	Proposed Depth	•
9.	Proposed Depth 7367' Elevations (DF, FT, GR, Etc.)	Rotary
1.	Proposed Depth 7367' Elevations (DF, FT, GR, Etc.) 6207' GL Proposed Casing and Cementing Program	Rotary 22. Approx. Date Work will Start
1. 3. 4.	Proposed Depth 7367' Elevations (DF, FT, GR, Etc.) 6207' GL Proposed Casing and Cementing Program See Operations Plan attached Authorized by:	22. Approx. Date Work will Start 6-23-05 Date
1. 3. 4.	Proposed Depth 7367' Elevations (DF, FT, GR, Etc.) 6207'GL Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Compliance Assistant	22. Approx. Date Work will Start 6-23-05 Date

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

MMOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

DESCRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

1000 Rio Bresos Rd., Astee, M.M. 87410

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe. NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

2040 South Pacheco, Santa Fe, Mi 67505

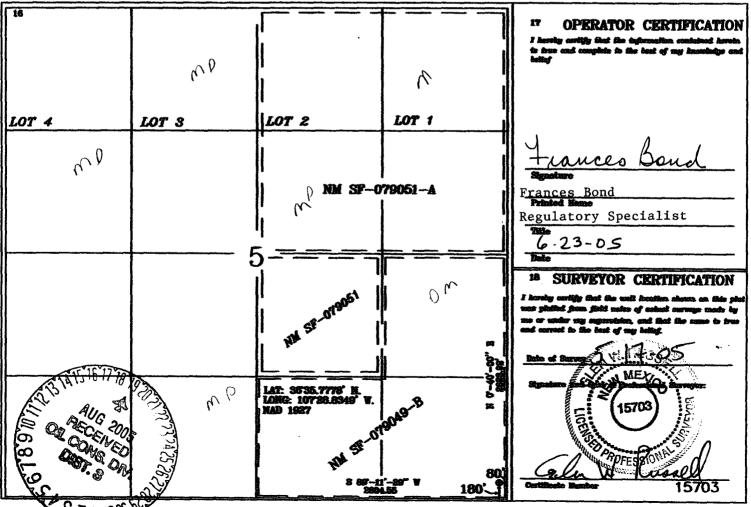
2005 JUN 24 PM 2 10

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT *Pool Code 72319/71599 Blanco Mesaverde/Basin Dakota ¹ API Number 30-039-*2*9573 **Well Humber** ⁴Property Code ⁶Property Name 170N SAN JUAN 28-6 UNIT 7462 TOGRED No. ^aOperator Hame * Elevation 14538 BURLINGTON RESOURCES OIL AND GAS COMPANY I.P. 6207

¹⁰ Surface Location Korth/South Bae UL or lot no. Peet from the Peet from the Bast/West Itne SOUTH RIO ARRIBA 6-W 5 27-N 180' 80, RAST P 11 Bottom Hole Location If Different From Surface Feet from the North/South line UL or lot no. Section Pest from the County Dedicated Acres
MV/DK 320.88 E/2 is Joint or Infill ⁵⁴ Consolidation Code **Order Ho.

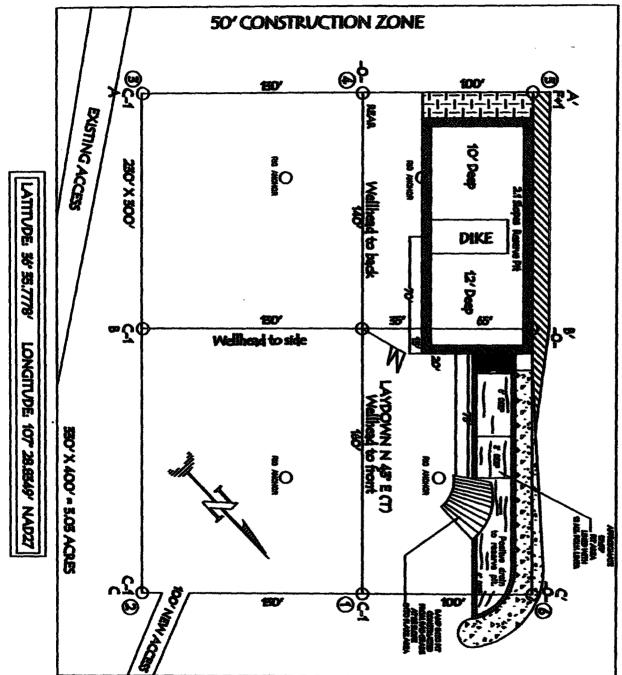
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Office	State of New Mex	KICO .	Form C-103
District I	Energy, Minerals and Natura	Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 	20_
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION I		
<u>District III</u>	1220 South St. Franci		FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 875	6. State Oil & Gas Lease No. NMSF-07	9049B
1220 S. St. Francis Dr., Santa Fe, NM 87505 SUNDRY NOTICES	AND REPORTS ON WELLS	7. Lease Name or Unit Agree	ment Name
(DO NOT USE THIS FORM FOR PROPOSALS TO		OA	
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	FOR PERMIT" (FORM C-101) FOR SUCH	San Juan 28	-6 Unit
1. Type of Well:		8. Well Number	
	Other	170N	·
	RCES OIL & GAS COMPANY LP	9. OGRID Number 1453 8	3
3. Address of Operator	ET EADMINICTON NIA 97400	10. Pool name or Wildcat	(Barin Dalasta
4. Well Location	ET, FARMINGTON, NM 87402	Blanco Mesaverde	Basin Dakota
Unit Letter P :18		line and feet from the	East line
Section 5	Township 27N Ra	nge 6W NMPM Count	y Rio Arriba
	6207'	,,,	
i —	or Closure		4200
Pit type New Drill Depth to Groundwate			
		lumebbls; Construction Materia	
-		ture of Notice, Report or Other Dat	
NOTICE OF INT	ENTION TO: PLUG AND ABANDON	SUBSEQUENT REPO	RT OF: ALTERING CASING
l-m-l	CHANGE PLANS	. —	P AND A
—	MULTIPLE COMPL	CASING/CEMENT JOB	
OTHER: New Dril	1 Pit	OTHER:	П
		t details, and give pertinent dates, including es	timated date
		pletions: Attach wellbore diagram of proposed	
or recompletion.			
Purlington Pagourges proposes to con-	trust a new drilling nit and an associa	ted vent/flare pit. Based on Burlington's inter	mustation aftha
		tailed in Burlington's Revised Drilling / Work	-
		ce. A portion of the vent/flare pit will be design	
		sources anticipates closing these pits according	
Workover Pit Closure Procedure dated	August 2, 2004 on file at the NMOC	D office.	
Thereby partify that the information above	is true and complete to the hart of	y knowledge and belief. I further certify that any	mid on holom
		y knowledge and deliel. I further certify that any neral permit \(\overline{X}\) or an (attached) alternative OCD-a	
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SIGNATURE Aumando	andors TITLE_	Regulatory Assistant II	DATE <u>6/6/2005</u>
Type or print name Amanda S For State Use Only	Sandoval E-mail address:	asandoval@br-inc.com Telephone No. UTY OH. & GAS INSPECTOR, DIST. (1) Hhau 20', no below	505-326-9700
	L// 039	UTY OIL & GAS INSPECTOR INST 1/2	AIRIO
APPPROVED BY	TITLE _	The state of the s	DATE AUU 1 9 20
Conditions of Approval (if any):	11 12 12 12 12 12	the 20', no below	grade site
if ground	, waster 151988		
or tank	s may be used.		
	•		

6195	6205	62(5	6225	ELEY. CC	CAIO	6270	200	0215	6225	ELEV. B'-B	0195	0203	02/15	0225	ELEV. A'-A
						- SILLIIIS									
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															•

NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR VARDERGROUND VIBILITIES OR PHYBLINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ARM MARKED OR VARMARKED BURBED.

PHYLINES OR CABLES ON WELL BAD AND OR ACCESS ROAD AT LEAST TWO CO WORKING DAYS PHIOR TO CONSTRUCTION.

OPERATIONS PLAN

<u>Well Name:</u>

SAN JUAN 28-6 UNIT 170N

Location:

180' FSL & 80' FEL, Section 05 T27N R06W

Rio Arriba County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation:

6207' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2140'	
Ojo Alamo	2140'	2289'	aquifer
Kirtland	2289 '	2699'	gas
Fruitland Coal	2699'	2894'	gas
Pictured Cliffs	2894'	3026'	gas
Lewis	3026 '	3424'	
Huerfanito Bentonite	3424'		
Chacra	3846'	4531'	gas
Massive Cliff House	4531'	4670'	gas
Menefee	4670'	5119'	gas
Massive Point Lookout	5119'	5534'	gas
Mancos Shale	5534 '	6267'	
Upper Gallup	6267 '	7025'	gas
Greenhorn	7025'	7092'	gas
Graneros	7092 '	7127'	gas
Two Wells	7127'	7239'	gas
Upper Cubero	7239'	7273'	gas
Lower Cubero	7273'	7367'	gas
/Encinal	7367'	7367'	gas
Total Depth:	7367'		gas

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:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0 - 128 200	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120 - 3126 ′	LSND	8.4 - 9.0	30 - 60	no control
3126 - 7367 ′	Air/Air Mist/Nitrogen	n/a	n/a	n/a

C. HARRADEN/ June 29, 2005

BURLINGTON RESOURCES/ San Juan 28-6 Unit #170N APD STIPULATION/CONDITION OF APPROVAL

This well is located within a 'vulnerable area'. In order to protect the integrity of the alluvium aquifer, a minimum surface csg. depth of 200' is stipulated as a condition of approval for this APD.

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' 200	9 5/8"	32.3#	H - 40
8 3/4"	0' - 3126'	7"	20/23#	J-55
6 1/4"	0' - 7367'	4 1/2"	10.5#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7367'	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 ½" x 2 3/8" x 2000 psi tree assembly.

<u>General -</u>

- 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 23sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38cu 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 88sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113cu 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 270sacks 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/90sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (699cu 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/19sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (699cu 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 @ 2289'. Two turbolating centralizers at the base of the Ojo Alamo @ 2289'. 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 292sxs 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 (578cu.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 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 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 east half of Section 5 is dedicated to the Mesa Verde formation and Dakota formation.
- This gas is dedicated.

las ISA	MWV	6/14/05
-//	Drilling Engineer	Date



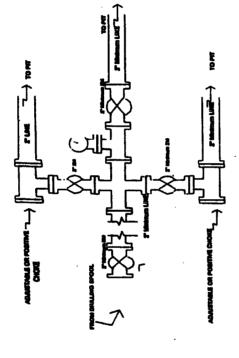
BURLINGTON RESOURCES

2000 pel System

Burlington Resources

2000 psi System **Drilling Rig**

RIG PLOOP

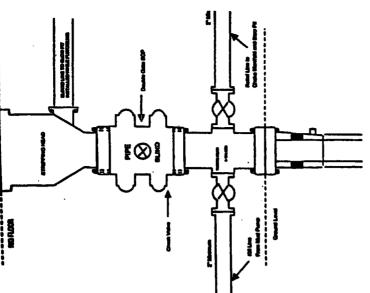


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Figure #3

4-20-01



sure double gate BOP to be equipped with bilind and tpe rams. A stripping head to be installed on the top of preseure or greater excluding 500 pel atripping head. trattons. 7-1/16" bore, 2000 pai minimum worldn the BOP. All BOP equipment is 2000 pal working Intrum 80P installation for all Com

Figure #2

4-20-0