

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED

1a. Type of Work DRILL	5. Lease Number NMSF-079382
1b. Type of Well GAS	Unit Reporting Number 070 Farmington, NM
2. Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	6. If Indian, All. or Tribe
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name San Juan 30-6 Unit
4. Location of Well 1220' FSL, 1155' FEL Latitude 36° 47.39, Longitude 107° 31.00	8. Farm or Lease Name San Juan 30-6 Unit
	9. Well Number 412S
	10. Field, Pool, Wildcat Basin Fruitland Coal
	11. Sec., Twn, Rge, Mer. (NMPM) P Sec. 24, T-30-N, R-7-W API # 30-039- 27756
14. Distance in Miles from Nearest Town 13 miles from Gobernador	12. County Rio Arriba
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1155'	
16. Acres in Lease	17. Acres Assigned to Well 320 E/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 320'	
19. Proposed Depth 3224'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6212' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Vincent Oltemano</u> Senior Staff Specialist	<u>10-19-03</u> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 6-18-04

Archaeological Report attached

Threatened and Endangered Species Report attached

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.

No notification required under Order R-8768-F

NMOC

This action is subject to technical and
approval of the Bureau of Land Management
and is subject to 43 CFR 3165.3
and 43 CFR 3165.4

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

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

OIL CONSERVATION DIVISION

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 CopiesDistrict III
1000 Rio Brazos Rd., Aztec, NM 87410PO Box 2088
Santa Fe, NM 87504-2088District IV
PO Box 2088, Santa Fe, NM 87504-2088☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-27756		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 7469	Property Name SAN JUAN 30-6 UNIT		Well Number 412S
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		Elevation 6212'

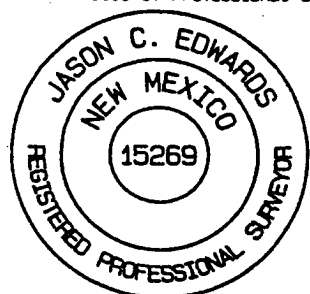
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	30N	7W		1220	SOUTH	1155	EAST	RIO ARriba

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
Dedicated Acres FTC-E/320					Joint or Infill	Consolidation Code	Order No.		

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

<div>16</div> <div>RECEIVED</div> <div>2004 MAY 18 PM 2:24</div> <div>070 Farmington, NM</div> <div>5278.68'</div> <div>5280.00'</div> <div>24</div> <div>1485'</div> <div>1415'</div> <div>1220'</div> <div>1155'</div> <div>5283.96'</div> <div>LAT: 36°47'52.25" N LONG: 107°30'59.82" W DATUM: NAD27</div> <div>USA SF-079382</div>	<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div><i>Nancy Oltmanns</i></div> <div>Signature</div> <div>Nancy Oltmanns</div> <div>Printed Name</div> <div>Senior Staff Specialist</div> <div>Title</div> <div>10-19-03</div> <div>Date</div>
	<div>18 SURVEYOR CERTIFICATION</div> <div>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</div> <div>Date of Survey: JULY 25, 2003</div> <div>Signature and Seal of Professional Surveyor</div> <div></div> <div><i>JASON C. EDWARDS</i></div> <div>Certificate Number 15269</div>

OPERATIONS PLAN

Well Name: San Juan 30-6 Unit #412S
Location: 1220' FSL, 1155' FEL, Section 24, T-30-N, R-7-W
Latitude 36° 47.39, Longitude 107° 31.00
Rio Arriba County, NM
Formation: Basin Fruitland Coal
Elevation: 6212' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	2114'	
Ojo Alamo	2114'	2334'	aquifer
Kirtland	2334'	2659'	gas
Fruitland	2659'	2969'	gas
Intermediate casing	2919'		
Top of Coal	2969'	3139'	
Base of Coal	3139'		
Pictured Cliffs	3141'		
Total Depth	3224'		

Logging Program:

Open hole - GR/RHOB from TD to 2919'
Mud log - TD to 2919'

Coring Program: none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud/Air/Air Mist	8.4-9.0	40-50	no control
120-2919'	Non-dispersed	8.4-9.0	30-60	no control
2919-3224'	Air/Mist			no control

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2919'	7"	20.0#	J-55
6 1/4"	2919' - 3224'	open hole		

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

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2919'	7"	20.0#	J-55
6 1/4"	2879' - 3224'	5 1/2"	15.5#	J-55

Tubing Program:

0' - 3224' 2 3/8" 4.7# J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - guide shoe and self-fill float collar. Standard centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2334'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 9 5/8" x 7" x 2 3/8" x 11" 2000 psi xmas tree assembly.

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. (37 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, 3% calcium chloride (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 until cement establishes 250 psi compressive strength prior to nipple up of BOP.

7" intermediate casing - lead w/250 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 with 90 sacks Type III cement with 1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (658 cu.ft., 50% excess to circulate to surface).

5 1/2" liner - will not be cemented if run.

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

BOP and tests:

Surface to intermediate TD - 11" 2000 psi (minimum) double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test BOPE to 600 psi for 30 min.

Intermediate TD to Total Depth - 7 1/6" 2000 psi (minimum) completion BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test BOPE and casing to 1500 psi for 30 minutes.

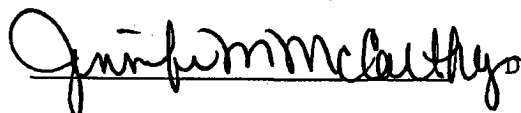
From surface to 7" TD - a choke manifold will be installed in accordance with Onshore Order No. 2 (Reference Figure #3). When the cavitation completion rig drills the production hole, the completion rig configuration will be used (Reference Figure #4).

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

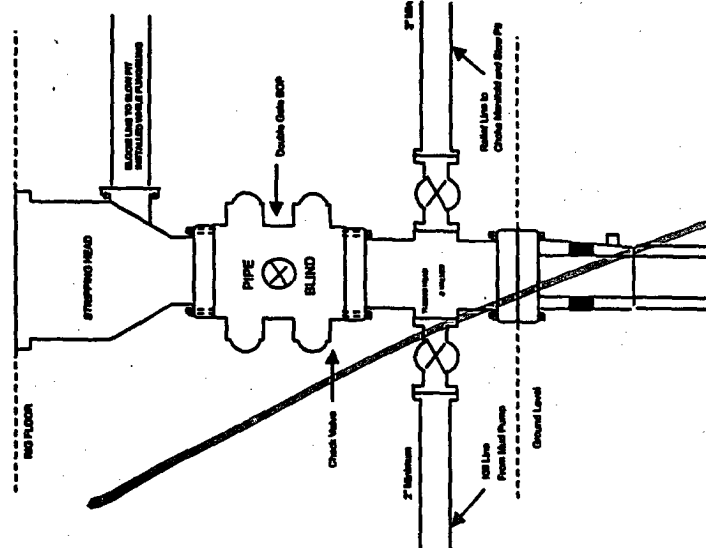
- The Fruitland Coal formation will be completed.
- Anticipated pore pressure for the Fruitland is 500 psi.
- This gas is dedicated.
- The east half of Section 24 is dedicated to this well.

Drilling Engineer:

 Date: 4-21-04

BURLINGTON RESOURCES

**Completion/Workover Rig
BOP Configuration
2,000 psi System**

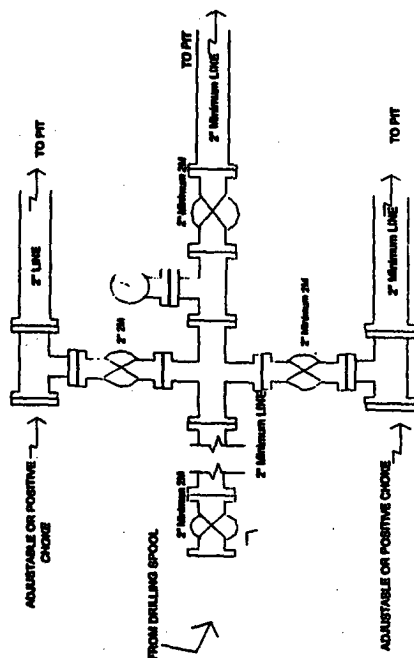


Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment to 2000 psi working pressure or greater excluding 500 psi stripping head.

Figure #2

BURLINGTON RESOURCES

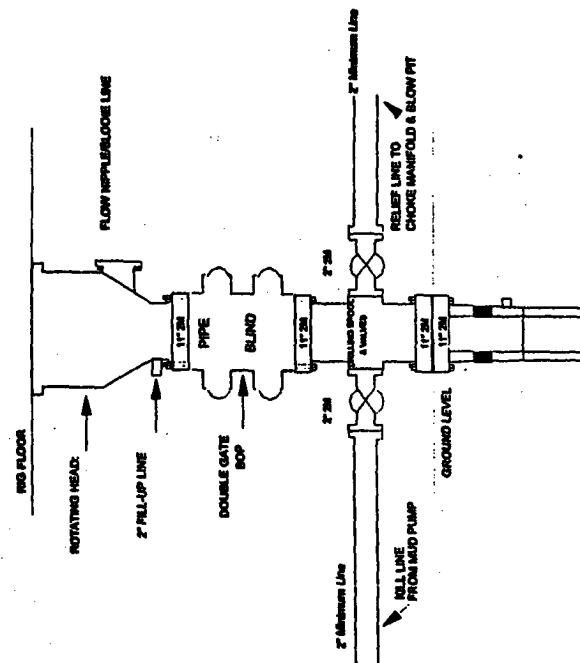
**Drilling Rig
Choke Manifold Configuration
2000 psi System**



Choke manifold installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

4-20-01



BOP installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 2000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi rusting head on top of ram preventers. All BOP equipment is 2,000 psi working pressure

Figure #1

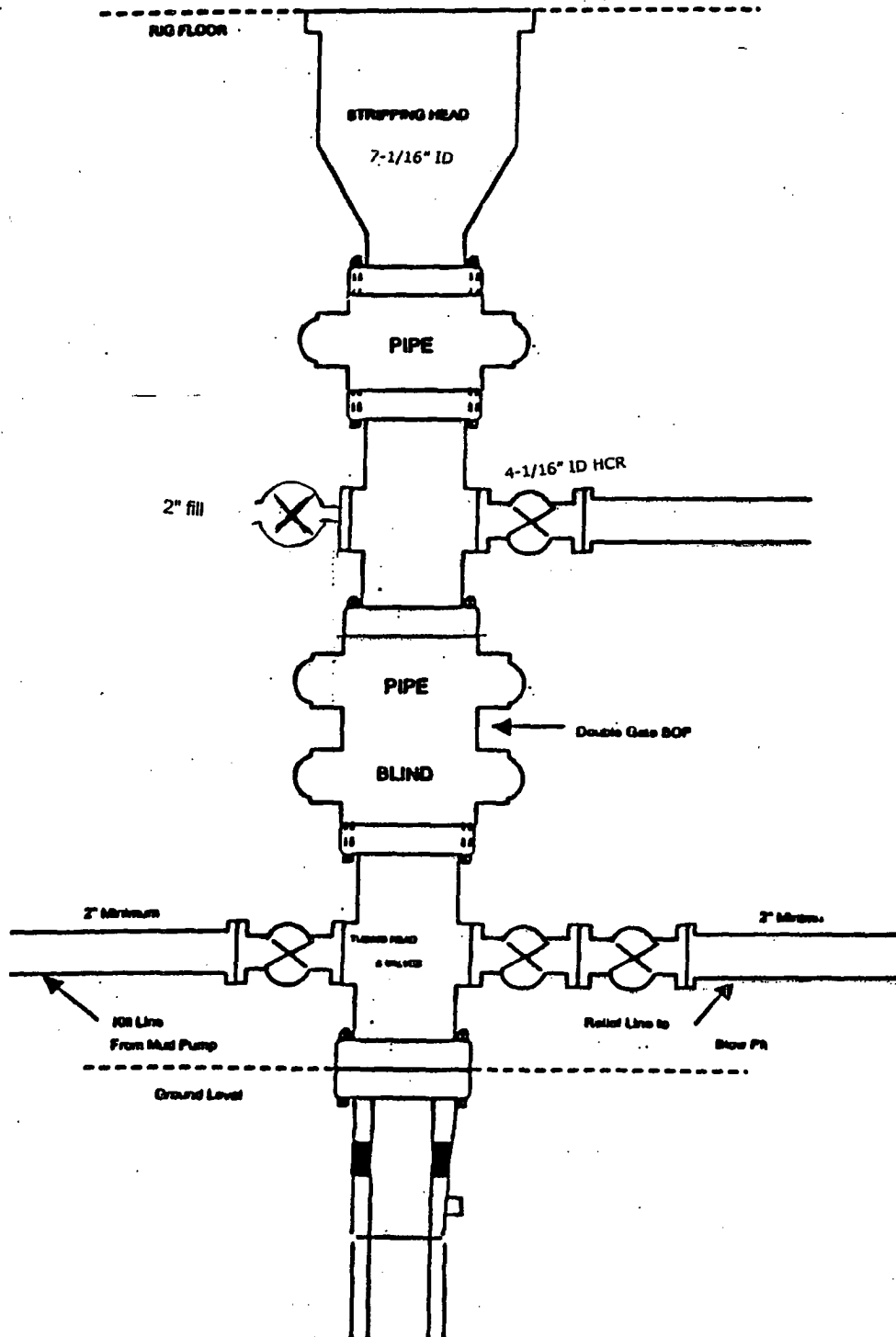
4-20-01

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BURLINGTON RESOURCES

FIGURE #4

Cavitation Rig
BOP Configuration
2,000 psi Minimum System



Submit 3 Copies To Appropriate District Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

March 4, 2004

WELL API NO.

30-039-

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
San Juan 30-6 Unit

8. Well Number #412S

9. OGRID Number 14538

10. Pool name or Wildcat
Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Burlington Resources Oil & Gas Company LP

3. Address of Operator

3401 E. 30th Street, Farmington, NM 87402

4. Well Location

Unit Letter P : 1220 feet from the South line and 1155 feet from the East line

Section 24

Township 30N

Range 7W

NMPM

Rio Arriba County, NM

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 must be attached)

Pit Location: UL P Sect 24 Twp 30N Rng 7W Pit type New Depth to Groundwater > 100' Distance from nearest fresh water well

> 1000' Distance from nearest surface water > 1000' Below-grade Tank Location UL _____ Sect _____ Twp _____ Rng _____ ;

_____ feet from the _____ line and _____ feet from the _____ line

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: New Drill Pit

☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER:

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Burlington Resources proposes to construct a new drill pit. The new drill pit will be an unlined pit as detailed in Burlington's general pit construction plan dated April 26, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

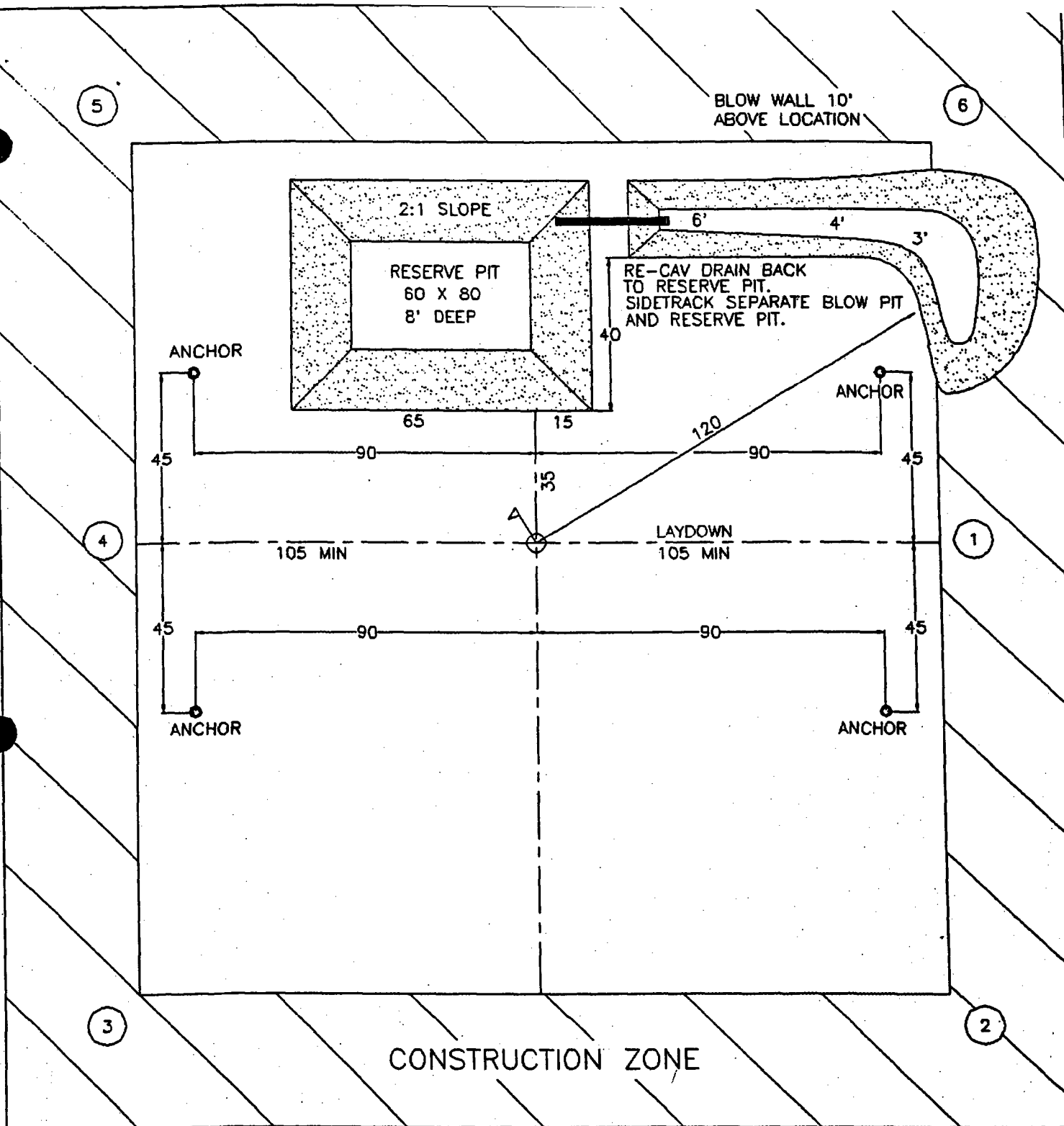
SIGNATURE Cassady Harraden TITLE Regulatory Specialist DATE 5/10/04

Type or print name Cassady Harraden E-mail address: charraden@br-inc.com Telephone No. 326-9700

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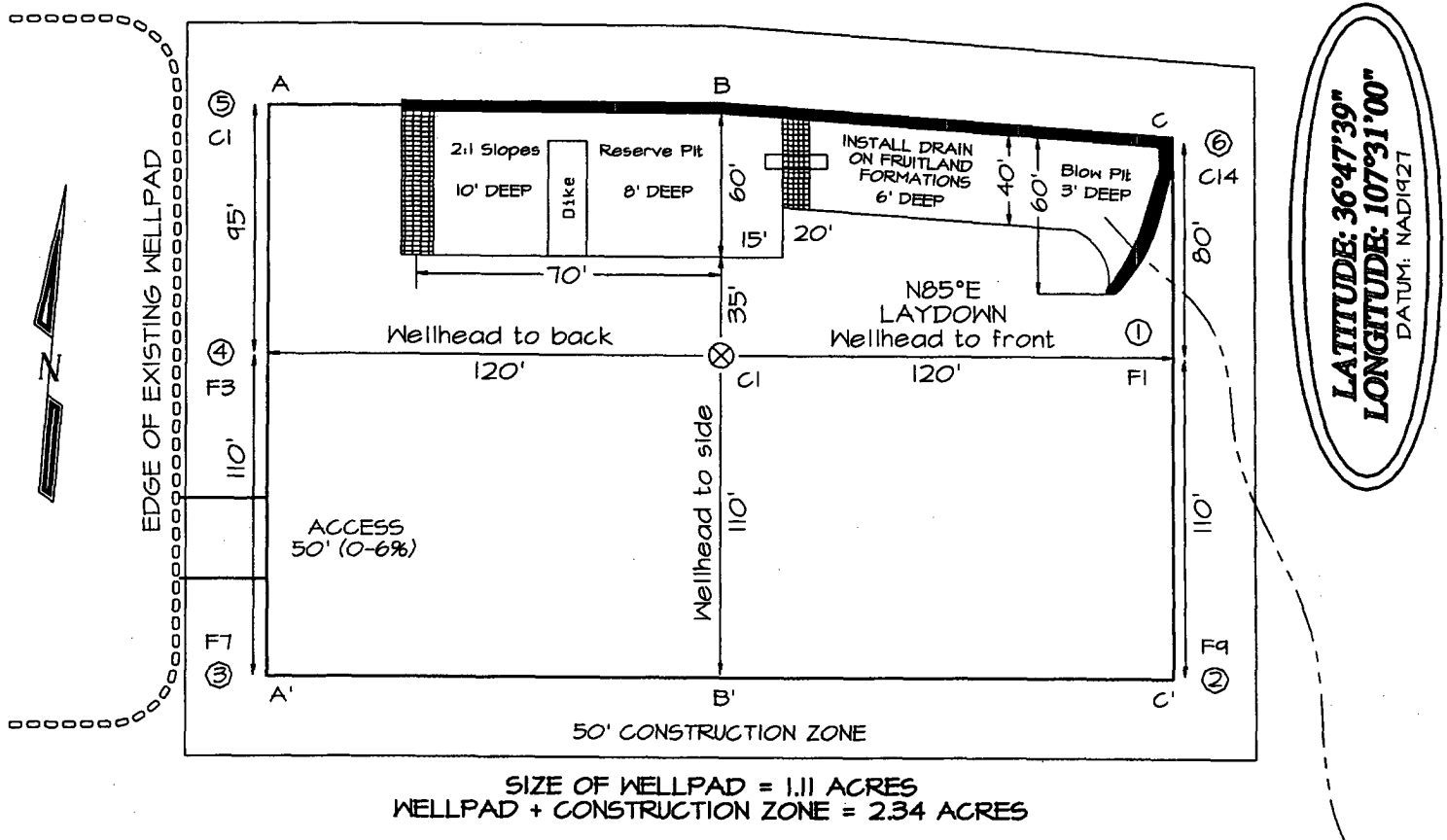
APPROVED BY _____ TITLE _____ DATE _____

Conditions of approval, if any:

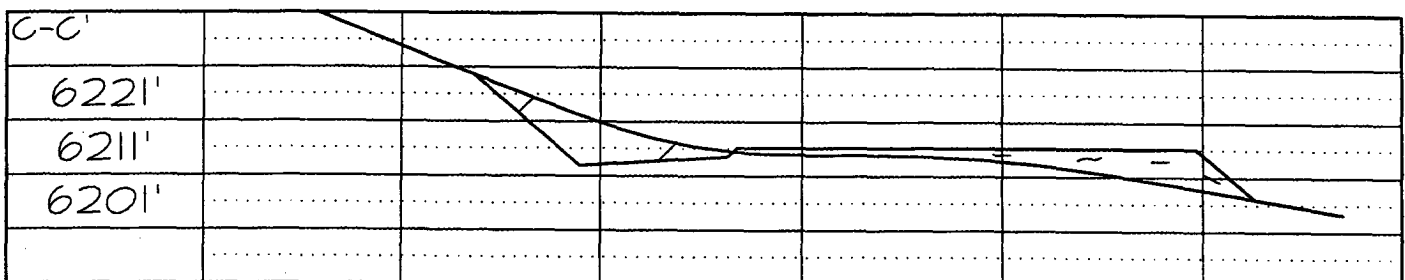
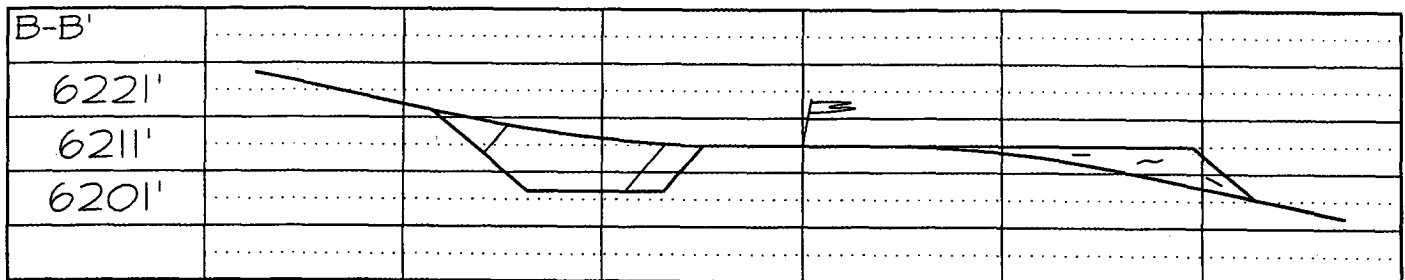
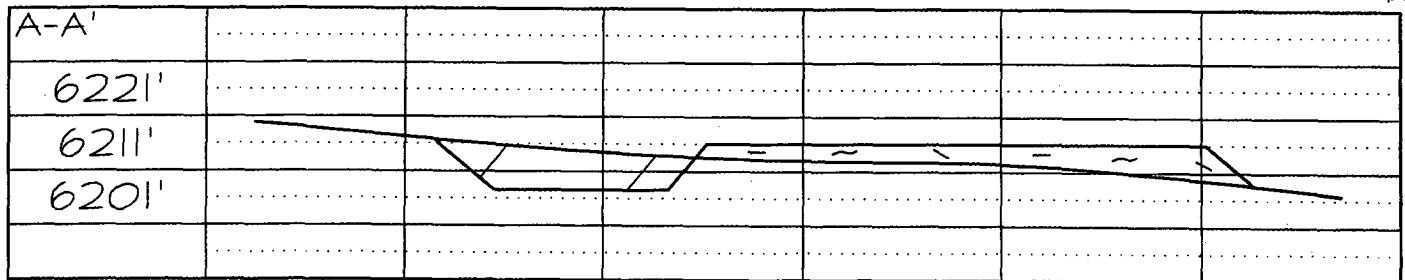


Blow pit overflow dike halfway between top and bottom and extend over plastic liner and into blow pit.

BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 30-6 UNIT #412S
1220' FSL & 1155' FEL, SECTION 24, T30N, R7W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6212' DATE: JULY 25, 2003



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.



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