UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEE	PEN, OR PLUG BACK
1a.	Type of Work DREPEN	5. Lease Number SF-080675 Unit Reporting Number
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Campany District Diff	Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 84499 (505) 326-9700	8. Farm or Lease Name San Juan 27-4 Unit 9. Well Number 120
4.	Location of Well 1560'FSL, 1595' FWL Latitude 36° 31.61', Longitude 107° 14.48'	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 34, T-27N, R-4-W API# 30-039-22122
14.	Distance in Miles from Nearest Town 15 miles east of Lowry Camp, NM	12. County 13. State Rio Arriba NM
15. 16.	Distance from Proposed Location to Nearest Property or Lease 1560' Acres in Lease	e Line 17. Acres Assigned to Well 320 W/2
18. 19.	Distance from Proposed Location to Nearest Well, Drig, Comp ⅓ mile Proposed Depth 8450′	l, or Applied for on this Lease 20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 7251 GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached Authorized by:	5-3-05
24.	Regulatory Specialist	Date 07
	ROVED BY TITLE Manage	DATE TO DATE TO THE TOP TO THE TO
Threa NOTE: Title 18	aeological Report Attached Intered and Endangered Species Report Attached This format is issued in lieu of U.S. BLM Form 3160-3 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully any false, fictitious or fraudulent statements or presentations as to any matter	to make to any department or agency of the United within its jurisdiction.

MMOCD

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 S. St Francis Dr.
Santa Fe, NM 87505

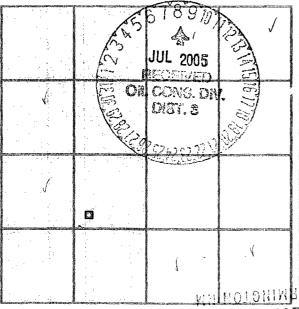
Form C-102 Permit 10672

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Name	Pool Code
30-039-22122	BASIN DAKOTA (PRORATED GAS)	71599
Property Code	Property Name	Well No.
7452	SAN JUAN 27 4 UNIT	120
OGRID No.	Operator Name	Elevation
14538	BURLINGTON RESOURCES OIL & GAS CO	7251

Surface And Bottom Hole Location

UL or Lot K	Section 34	Township 27N	Range 04W	Lot Idn	Feet From 1560	N/S Line S	Feet From 1595	E/W Line W	County Rio Arriba	
Dedicated Acres 320		Joint o	Infill	Consoli	dation Code		Order 1	No.	The state of the s	



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signed By: Frances Bend

Title: Regulatory Specialist

Date: May 3, 2005

SURVEYOR CERTIFICATION

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.

Surveyed By: David Vilven
Date of Survey: 05/15/1974
Certificate Number: 1760

OTO FARMINGTO

3 PM 3 PM 3 46

OPERATIONS PLAN FOR SAN JUAN 27-4 UNIT #120

Well:

San Juan 27-4 Unit #120

Location:

T-27-N, R-4-W, Sect. 34, Unit K; 1560' FSL, 1595' FWL

Rio Arriba County, NM

Latitude 36º 31.61' Longitude 107º 14.48'

Formation:

Blanco Mesaverde and Basin Dakota

Formation Tops: Surface	<u>Top</u> San Jose	<u>Bottom</u>	Contents
Ojo Alamo	3524'	3716'	aquifer
Kirtland	3716'	3913'	gas
Fruitland	3913'	4057'	gas
Pictured Cliffs	4057'	4239'	gas
Lewis	4239'	4553'	gas
Huerfanito Bentonite	4553'	5019'	gas
Chacra	5019'	5642'	gas
Upper Cliff House	5642'	5743'	gas
Massive Cliff House	5743'	5852'	gas
Menefee	5852'	6225'	gas
Massive Point Lookout	6225'	6724'	gas
Mancos	6724'	7362'	gas
Gallup	7362'	8167'	gas
Greenhorn	8167'	8228'	gas
Graneros	8228'	8252'	gas
Two Wells	8252'		gas
Total Depth	8450'		

Logging program:

Cased hole - CBL-CCL-GR - TD to 7000'

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
6667' – 8450'	Air/Nitrogen	n/a	n/a	n/a

Casing Program:

<u>Hole Size</u>	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
3-7/8"	~6550' – 8450'	3-1/2" Flush	9.3#/'	L-80
Tubing Prog		<u>Tbg.Size</u> 2-1/16"	<u>Wt.</u> 3.25#	<u>Grade</u> J-55

Operations:

It is intended to deepen the subject well to the Dakota formation by the following procedure:

- 1. MIRU completion rig. TOOH with tubing.
- 2. Set retrievable bridge plug at +/- 5597'.
- 3. Pressure test casing to 1000 psi for 15 minutes. TOOH with bridge plug.
- 4. Lay in acid soluble cement across entire Mesaverde interval. WOC.
- 5. Drill out cement. Test casing to 500 psi for 15 minutes. Repeat cement work until pressure test holds.
- 6. Drill out shoe. Drill Dakota formation to approximately 8450' with mud logger to call final total depth. TOOH.
- 7. TIH with 3-1/2" flush joint pipe and set at total depth.
- 8. Cement with 26 sxs of type III cement (1.39 yield, 14.5 ppg). WOC. Run CBL. TOC @ 7052'.
- 9. Perforate and fracture stimulate the Dakota formation. Flow back Dakota.
- 10. Set composite plug 50' above top Dakota perforation.
- 11. Chemical cut 3-1/2" casing at +/- 6550'.
- 12. Acidize Mesaverde interval to restore production.

Operations Plan - San Juan 27-4 Unit #120

Page Two

- 13. Drill out composite plug above the Dakota. Clean out to PBTD.
- 14. Land 2-1/16" IJ tubing.
- 15. RDMO rig. Return well to production as a commingled MV/DK producer.

BOP Specifications, Wellhead and Tests:

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 #4). 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 1/2" x 2 1/16" x 2000 psi tree assembly.

General Information:

- 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.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with hand wheels.

Cementing:

3-1/2" Production Liner

Cement to cover minimum of 1200' above the Dakota formation. Minimum TOC @ 7052'. 26 sxs type III cement (1.39 yield, 14.5 ppg). WOC a minimum of 18 hrs prior to completing.

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.
- 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 Mesaverde and/or Dakota formations will be completed and commingled if both formations are completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Dakota 1200 psi

<u>Angela Ibara</u> Sr. Staff Engineer 4/25/05

Date

San Juan 27-4 Unit #120

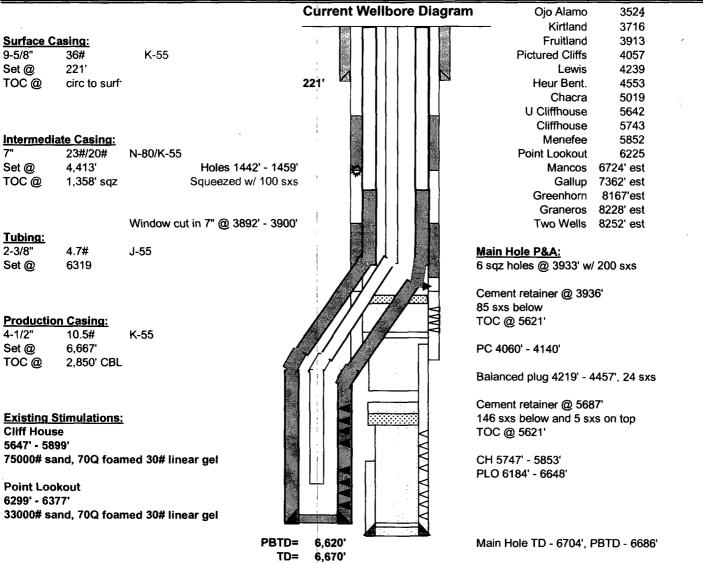
1560' FSL , 1595' FWL Unit K, Section 34, T27N, R04W Rio Arriba County, NM

LAT: 36 deg 31.61 min

LONG: 107 deg 14.48 min

_	_		- 3	_	-	-	Т	•	-	_	_	-	-	-
G	L	=			7		2	51	٠					

' KB= 7,263'



CH: 38 holes from 5647' - 5899', actual depths unknown

PLO: 6229', 43', 50', 59', 72', 81', 89', 6305', 09', 15', 24', 34', 51', 57', 74', 77'

San Juan 27-4 Unit #120

1560' FSL , 1595' FWL Unit K, Section 34, T27N, R04W Rio Arriba County, NM

LAT: 36 deg 31.61 min

LONG: 107 deg 14.48 min

KB= 7,263' GL = 7,251' **Proposed Wellbore Diagram** Ojo Alamo 3524 Kirtland 3716 Fruitland 3913 **Surface Casing: Pictured Cliffs** 4057 9-5/8" 36# K-55 221' Lewis 4239 Set @ 221' TOC@ circ to surf Heur Bent. 4553 5019 Chacra **U** Cliffhouse 5642 Cliffhouse 5743 **Intermediate Casing:** Menefee 5852 23#/20# N-80/K-55 Point Lookout 6225 Set @ 4,413' Holes 1442' - 1459' Mancos 6724' est TOC@ 1,358' sqz Squeezed w/ 100 sxs Gallup 7362' est Greenhorn 8167'est Graneros 8228' est Window cut in 7" @ 3892' - 3900' Two Wells 8252' est **Tubing:** 2-1/16" 3.25# J-55 Main Hole P&A: TBD 6 sqz holes @ 3933' w/ 200 sxs Set @ Cement retainer @ 3936' 85 sxs below TOC @ 5621' **Production Casing:** 4-1/2" 10.5# K-55 PC 4060' - 4140' Set @ 6.667 TOC @ 2,850' CBL Balanced plug 4219' - 4457', 24 sxs Cement retainer @ 5687' **Existing Stimulations:** 146 sxs below and 5 sxs on top **Cliff House** TOC @ 5621' 5647' - 5899' 75000# sand, 70Q foamed 30# linear gel CH 5747' - 5853' PLO 6184' - 6648' **Point Lookout** 6299' - 6377' 33000# sand, 70Q foamed 30# linear gel Main Hole TD - 6704', PBTD - 6686' **Proposed Stimulation:**

> PBTD= 8448' est TD= 8450' est

Proposed Production Liner:

7052

6550'-8450'

3-1/2" ULT FJ

Set @

TOC @

Dakota

40000# TLC, Slickwater frac

TBD

L-80

BURLINGTON RESOURCES

Completion/Workover Ri BOP Configuration 2,000 pai System

BURLINGTON RESOUR

Choke Manifold Configuration 2000 psi System

Burlington Resources

2000 psi System Drilling Rig

AD FLOOR

LOTATION HEAD.

P FELLEP LINE

į

DOVELE GATE

Point to Total Depth. 2,000pal working pressure

Figure #3

he BOP. All BOP equipment is 2000 pel

pe rams. A stripping head to be instr sure double gate BOP to be equit

dintraum BOP installation for eil Comp urations. 7-1/16" bore, 2000 pel mb

4-20-01

Figure #1

4-20-01