DATE IN	6/28/00 SUSPENSE 7/18/00 ENGINEER M.S LOGGED KN THE NSL
	ABOVE THIS LINE FOR DIVISION USE ONLY
	NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -
	ADMINISTRATIVE APPLICATION COVERSHEET
	THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applic	ation Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Directional Drilling XINSL NSP DD SD
	Check One Only for [B] and [C]

- [B] Commingling Storage Measurement DHC CTB PLC PC OLS OLM
- [C] Injection Disposal Pressure Increase Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners

- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Regulatory/Compliance Administrator

Print or Type Name

Peggy Cole



SAN JUAN DIVISION

Sent Federal Express

Mr. Michael Stogner New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505

Re: San Juan 28-5 Unit #56M 1650'FSL, 661'FEL Section 32, T-28-N, R-5-W, Rio Arriba County 30-039-26255

Dear Mr. Stogner:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Basin Dakota. This well is planned as a Blanco Mesaverde/Basin Dakota commingled well, and is a standard location for the Mesaverde by Order R-10987A dated February 3, 1999.

This application for the referenced location is for geologic reasons for placement of the increased density Mesaverde due to the interpreted gas drainage pattern of offset Mesaverde producers as explained on the attachment and map. The presence of Munoz Creek Wash is also a factor in the placement of the well. The well was not proposed further east due to the steep terrain.

Production from both the Dakota and Mesaverde pools is to be included in a 318.72 acre gas spacing and proration unit for the south half (S/2) in Section 32. Production from the Mesaverde and Dakota will be commingled under Order DHC-2577 issued January 4, 2000.

The following attachments are for your review:

- Application for Permit to Drill
- Completed C-102 at referenced location.
- Offset operators/owners plat
- Topographic map
- Geologic explanation and map

Burlington Resources believes there are no correlative rights issues because the encroachment is toward federal unit property. The San Juan 28-5 Unit #56M well is offset by San Juan 28-5 Unit acreage and Burlington is the operator of the San Juan 28-5 Unit.

Sincerely,

Peggy Cole Regulatory Supervisor

xc: NMOCD - Aztec District Office Bureau of Land Management

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Address & Phone No. of Operator 8. Farm or Lease N PO Box 4289, Farmington, NM 87499 San Juan (505) 326-9700 Set Number Location of Well 10. Field, Pool, Wil 1650' FSL, 661' FEL Blanco N Latitude 36° 36.9, Longitude 107° 22.5 Sec. 32, API # 30-039- 2(API # 30-039- 2(I. Distance in Miles from Nearest Town 12. County 40 miles from Blanco Rio Arr: 5. Distance from Proposed Location to Nearest Property or Lease Line 661' 6. Acres in Lease 17. Acres Assigne 318.72 S and appeal pursuant to 43 CFR 3165.3 7728' and appeal pursuant to 43 CFR 3165.4 20. Rotary or Cable Rotary 7728' 22. Approx. Date 6475' GR 22. Approx. Date 6475' GR Subject to Complant 3. Proposed Casing and Cementing Program Subject TO COMPLA See Operations Plan attached "GenerAl REQUIREM	070 F15402, nber
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OPERATOR

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OPERATIONS PLAN

Well Name:	San Juan 28-5 Unit #56M
Location:	1650'FSL, 661'FEL, Sec 32, T-28-N, R-5-W
	Rio Arriba County, NM
	Latitude 36° 36.9, Longitude 107° 22.5
Formation:	Blanco Mesa Verde/Basin Dakota
Elevation:	6475' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2610'	
Ojo Alamo	2610'	2787 '	aquifer
Kirtland	2787 '	2918′	gas
Fruitland	2918'	3300'	gas
Pictured Cli ffs	3300'	3402'	gas
Lewis	3402'	3886'	gas
Intermediate TD	3502'		-
Mesa Verd e	3886'	4252'	gas
Chacra	4252′	4976'	gas
Massive Cliff House	4976'	5140'	gas
Menef ee	5140'	5468′	gas
Massive Point Lookout	5468'	5971'	gas
Manco s	5971 ′	6637 '	gas
Gallup	6637 '	7388 ′	gas
Greenhorn	7388'	7450'	gas
Graneros	7450'	7490'	gas
Dakota	7490'		gas
TD (4 1/2"liner)	7728'		-

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface

Mud Program:

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Interval	Туре	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3502'	LSND	8.4-9.0	30-60	no control
3502- 7728'	Gas	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program	(as listed	i, the	equivalent,	or bette	r):
Hole Size	Depth Ir	nterval	Csg.Size	Wt.	Grade
12 1/4"	- '0	- 200'	9 5/8"	32.3#	WC-50
8 3/4"	0'-	- 3502'	7"	20.0#	J-55
6 1/4"	3402' ~	- 7728'	4 1/2"	10.5#	K-55
Tubing Program:					
	0' -	- 7728′	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.

Page Two

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 -

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9 5/8" x 7" x 2 3/8" x 3000 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 drilling crew.
- All BOP tests and 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 159 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 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/319 sx Class "B" w/3% sodium metasilicate, 7# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride, 2% gel (1035 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 2818'. First stage: cement with w/106 sx Class "B" 50/50 poz w/2% gel, 2% calcium chloride, 0.5 pps Cellophane. Second stage: 291 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 10 pps Gilsonite (1035 cu.ft., 100% 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 at 2787'. Two turbolating centralizers at the base of the Ojo Alamo at 2787'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to cover minimum of 100' of 4 $1/2" \times 7"$ overlap. Lead with 474 sx 50/50 Class "H" Poz with 2% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.2% retardant and 0.4% fluid loss additive (622 cu.ft.), 40% excess to cement 4 $1/2" \times 7"$ overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

- Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.
- 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 (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.
- 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 Dakota and Mesa Verde formations will be completed and commingled.
- 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
Dakota	2500	psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The south half of Section 32 is dedicated to the Mesaverde and the Dakota in this well.

This gas is dedidated Drilling Engineer

10/20/99

BURLINGTON RESOURCES OIL AND GAS COMPANY

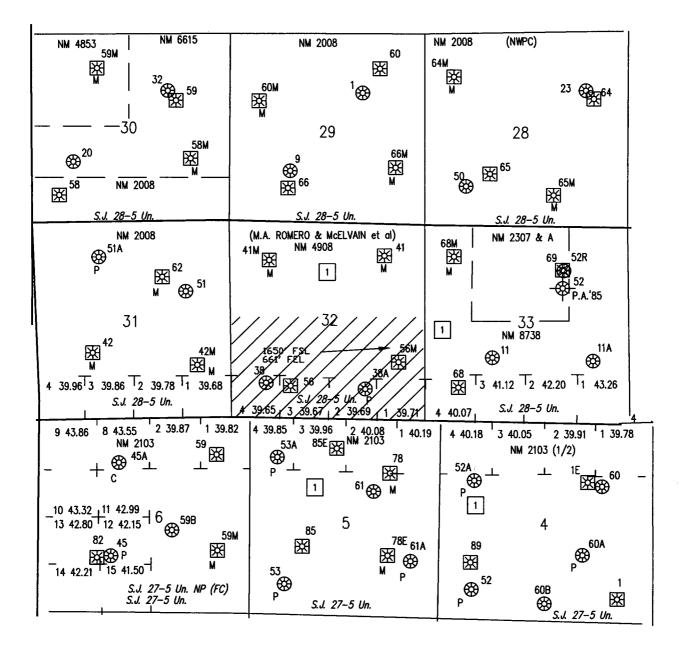
San Juan 28-5 Unit #56M

Section 32, T-28-N, R-5-W

OFFSET OPERATOR/OWNER PLAT

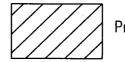
Nonstandard Location

Dakota Formation Well

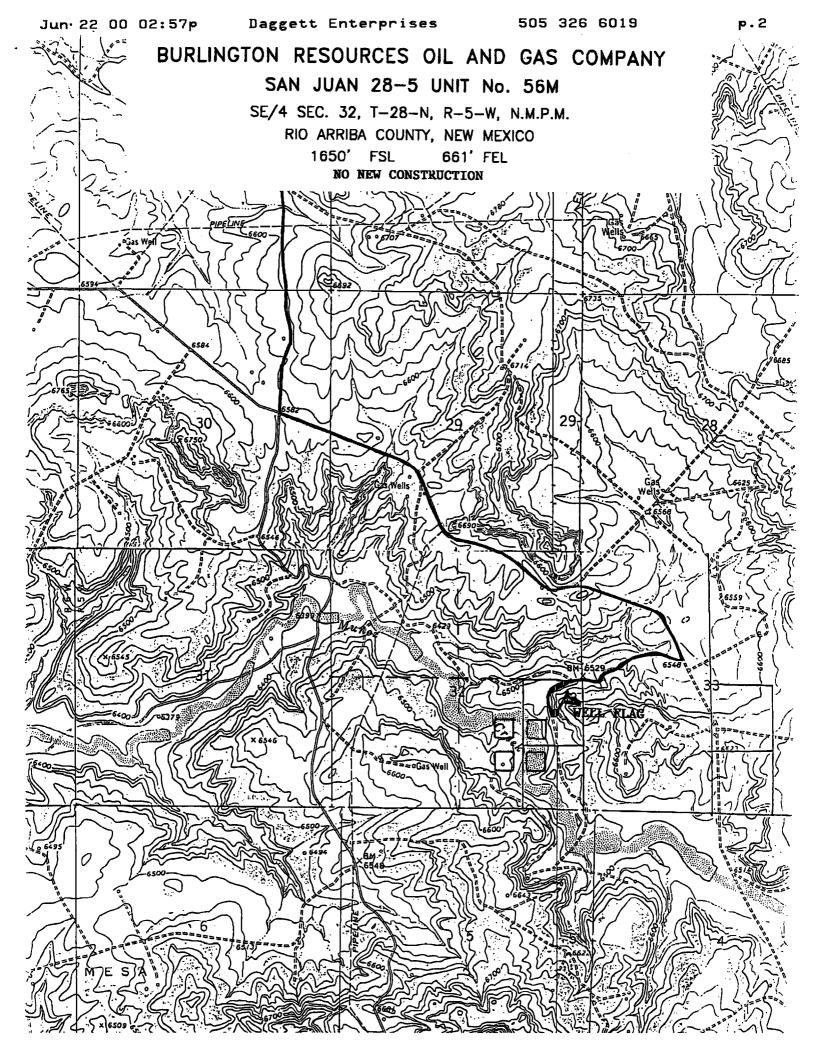


Burlington Resources

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Proposed Well



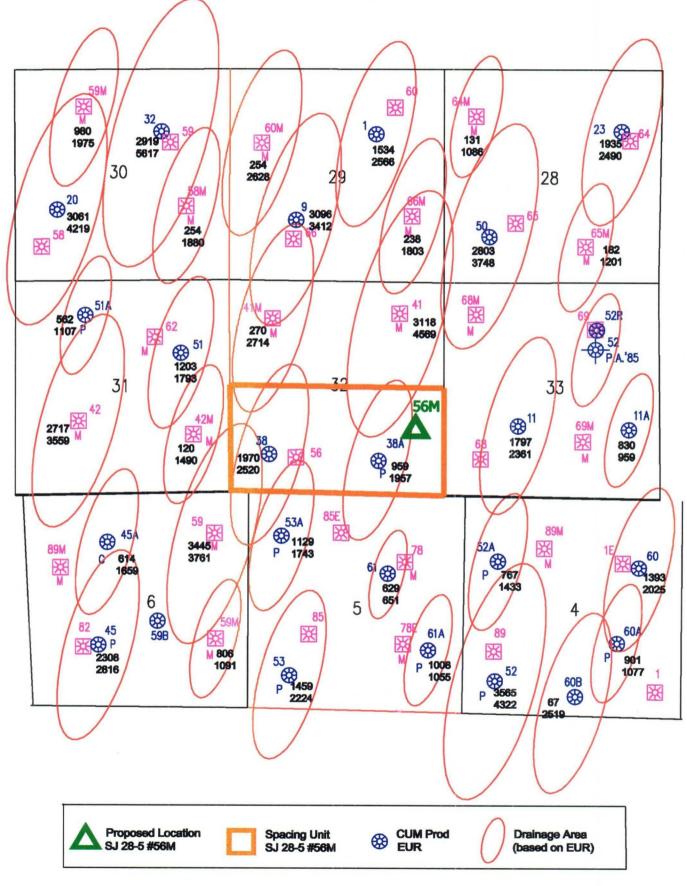
Proposed San Juan 28-5 Unit Well Number 56M 1650' FSL & 661' FEL Section 32, T28N, R5W Rio Arriba County, New Mexico Blanco Mesaverde/Basin Dakota Pool Estimated TD 7728'

The location of the proposed test was selected to optimize recovery from the Mesaverde Group. The primary control on productivity in the Mesaverde is the density of natural fractures. Fracture orientation ranges from due north to north 30 degrees east. Gas drainage areas are elliptical in shape with the long axis parallel to the direction of fracture orientation. A drainage ellipse map of the project vicinity indicates that undeveloped gas reserves remain to be exploited in the E/2SE/4 of Section 32, T28N, R5W. The drainage ellipse map is based upon data derived from a larger study of the entire Blanco Mesaverde Pool (estimated ultimate recovery calculated for all wells in the Blanco Mesaverde Pool, original gas in place values calculated for entire Blanco Mesaverde Pool, etc.). Gross recoverable reserves of 1.5 BCFG are projected from the Mesaverde producing interval for the proposed test.

The San Juan 28-5 Unit 56M is staked near the eastern limit of the orthodox Mesaverde window in the E/2SE/4 of Section 32 to avoid drainage area overlap with the San Juan 28-5 Unit 38A located in the SW/4SE/4 of Section 32, T28N, R5W. Staking the San Juan 28-5 Unit 56M as far east as it is in an orthodox Mesaverde location causes the test to be non standard in the Dakota. A test located at the proposed footages is expected to be geologically comparable in the Dakota with a test located at any standard Dakota location in the E/2SE/4 of Section 32.

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San Juan 28-5 Unit #56M 28N-5W-32 Blanco Mesaverde / Basin Dakota



NSL-4478

From: Perrin, Charlie

Sent: Tuesday, July 11, 2000 8:27 AM

To: Stogner, Michael

Subject: NSL, Burlington San Juan 28-5 unit 56M30-039-26255 & Phillips San Juan 29-6 Unit 77M 30-039-26409 Ok for NSL 7-11-2000 HV/CP