UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Type of Work 5. Lease Number 1a. NM-017727A FAREINGTON IM DRILL **Unit Reporting Number** 6. If Indian, All. or Tribe 1b. Type of Well GAS 2. 7. Unit Agreement Name Operator BURLINGTON RESOURCES Oil & Gas Compar Address & Phone No. of Operator 8. Farm or Lease Name Neudecker PO Box 4289, Farmington, NM 87499 9. Well Number (505) 326-9700 #7F Location of Well 10. Field, Pool, Wildcat 865' FNL, 1150' FWL Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Latitude 36° 43.8027'N, Longitude 107° 50.4548'W O Sec. 13, T29N, R10W API # 30-03 14. Distance in Miles from Nearest Town 12. County 13. State 1.1 miles to Blanco, NM Post Office San Juan MM 15. Distance from Proposed Location to Nearest Property or Lease Line 8651 16. Acres in Lease 17. Acres Assigned to Well W/2 250 acres 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 19. **Proposed Depth** 20. Rotary or Cable Tools 6703' Rotary 21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start 5753' GR 23. **Proposed Casing and Cementing Program** See Operations Plan attached 24. Authorized by Regulatory Analyst PERMIT NO. APPROVAL DATE APPROVED BY

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.

*DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II 1301 W., Grand Ave., Artesia, N.M. 88210

DISTRICT III 4000 Rio Brazos Rd., Aztec, N.M. 87410 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C~10 Revised October 12, 200

Submit to Appropriate District Offici

State Lease — 4 Copie: Fee Lease — 3 Copie:

☐ AMENDED REPORT

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

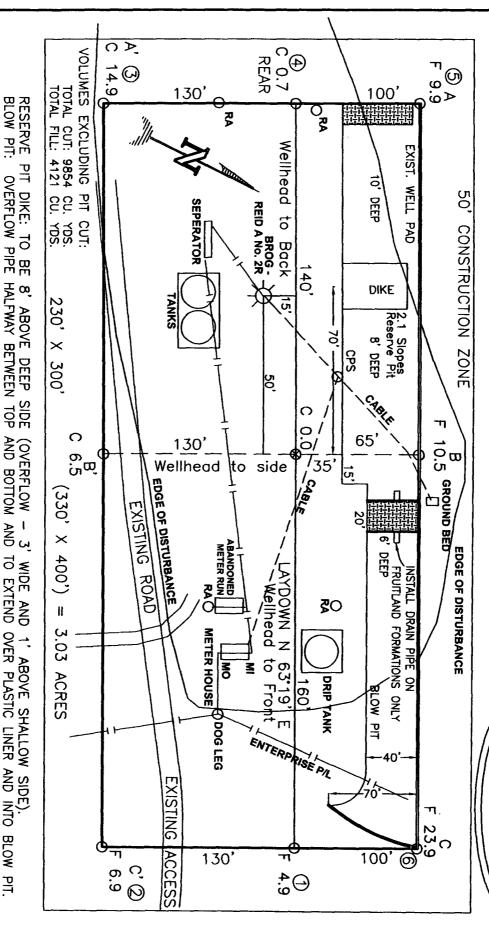
'API Number			OCATION AND ACREAGE DEDICATION PLAT Proof Code Proof Code Basin Dakota						
'Property Code 7355			³ Property Name NEUDECKER			grii baacc	Well Number 7F		
OCRID No.			*Operator Name NGTON RESOURCES OIL & GAS COMPANY L			NY LP	*Elevation LP 5753		
					¹⁰ Surface	Location			
UL or lot no.	Section 13	Township 29-N		Lot 7dn	Feet from the 865	North/South line NORTH	1 '	West line EST	County SAN JUAN
			" Botto	m Hole	Location	lf Different Fr	om Surface		
UL or tot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the East,	West line	County
DK 320 0		_	Joint or Infill		¹⁸ Consolidation C	ode	¹³ Order No.		
NO ALLOW	/ABLE						INTERESTS HAVE D BY THE DIVISION		ONSOLIDATE
TO 3 1/4" BC 1967 BLM LOT 4 39.82 1150'	865,	2633 LO 39. LAT: 36 LONG:10 LAT: 36	8'53" W .75' (M) T 3 .48 5.73005' N. 07.84153' 43.8027' N. 17'50.4548' V) 39 (NAD 83 W. (NAD (NAD 27)	M OT 2 9.37 3) 83)	LOT 1 39.02	I hereby certify that the true and complete to belief, and that this or interest or unleased mincheding the proposed right to drill this well a contract with an owner interest, or to a volunt compulsary pooling order.	e information the best of ganization eithereat interest in bottom hale la t this location of such a mir ary pooling agr	my knowledge and er owns a working in the land coation or has a pursuant to a neral or working reement or a
2 LOT 5 39.97 USA SF-079		l Lo	-01772-A T 6 .63		OT 7 0.00	LOT 8 39.65	Signature Amanda Sa Printed Name	Sand	6-10-(Date
D 2 1/2" BC 963 BLM LOT 11 40.46	SA SF-0	39.	T 10		OT 9 5.50		18 SURVEY I hereby certify that the was plotted from field no or under my supervision, correct to the best of r MAY 24, 2006 Date of Survey Signature and Sed as	welf location ites of actual and that the ry belief.	surveys made by me
LOT 12 40.62	3A 3F-0	LOI	T 13 199				14 Table 14	SISPANI SI	HOLING

	opriate District	State of	of New Mex	cico				Form C-103
Office District I	1 37400040	Energy, Miner	als and Natural	Resources	r us:			May 27, 2004
1625 N. French Dr., Hob District II	bs, NM 88240				WELL AI		0-045	
1301 W. Grand Ave., Art	esia, NM 88210	OIL CONSE			4	e Type of Lease		
District III 1220 South St. Francis Dr.						TATE	FEE	
1000 Rio Brazos Rd., Az District IV	tec, NM 8/410	Santa	Fe, NM 8750	05	6. State C	oil & Gas Lease	No.	
1220 S. St. Francis Dr., S							1772-A	
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PROPOSALS.)					8. Well N			
1. Type of Well: Oil Well	Gas Well X	Other			o. Well N		7 F	
2. Name of Operator			······································	·	9. OGRID	Number		
BURL 3. Address of Operator		JRCES OIL & GAS C	OMPANY LP		10 Pool m	14 ame or Wildcat	538	
1		ET, FARMINGTON,	NM 87402		10. Pool i		Dakota	
4. Well Location								
Unit Letter Section	D : 8	65 feet from the Township	North 29N R	line and ng 10W	1150 NMP	feet from the Co	West unty	line San Juan
Section		levation (Show whether			14141			Jan Juan
Pit or Below-grade Tank A	polication T	or Closure	5753'					
	Depth to Groundwa		e from nearest fresi	water well	>1000	Distance from nea	rost surfana)200
Pit Liner Thickness:	12	mil Below-Grad		lume	bbls;	Construction Mat		water
		ppropriate Box to	indicate Na	iture of Not I	_			F .
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BURLINGTON RESOURCES OIL & GAS COMPANY LP SECTION 13, T-29-N, R-10-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO NEUDECKER No. 7F, 865 FNL 1150 FWL

GROUND ELEVATION: 5753, DATE: MAY 24, 2006

LONG. A LONG. ΣŦ. = 36.43.8027' N = 10 % 50.4548'NAD 36.73005° N 107.84153° NAD 27



, NOTE:

CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO

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

NOTE:

DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE:

ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN

Daggett Enterprises, Inc

P. O. Box 15068 • Farmington, NM 87401 Surveying and Oil Field Services Phone (505) 326-1772 • Fax (505) 326-6019

BURLINGTON RESOURCES OIL & GAS COMPANY LP NEUDECKER No. 7F, 865 FNL 1150 FWL

SECTION 13, T-29-N, R-10-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 5753, DATE: MAY 24, 2006

LAT. = 36.73005° N LONG. = 107.84153° W NAD 27 LAT. = 36"43.8027' N LONG. = 107"50.4548' W

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

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.

				IJ
z	Phone	P. O.	Surve	Dag

Daggett Enterprises, Inc.
Surveying and Oli Field Services
P. O. Box 15068 • Farmington, NM 67401
Phone (505) 326-1772 • Fax (505) 326-8019

OPERATIONS PLAN

<u>Well Name:</u>

NEUDECKER 7F

Location:

865' FNL & 1150' FWL, Section 13 T29N R10W

San Juan County, New Mexico

Formation:

Basin Dakota

Elevation:

5753' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	1039'	
Ojo Alamo	1039'	1112'	aquifer
Kirtland	1112'	1942'	gas
Fruitland Coal	1942'	2152'	gas
Pictured Cliffs	2152'	2324'	gas
Lewis	2324 '	2792 '	
Huerfanito Bentonite	2792 '		
Chacra	3172'	3822'	gas
Massive Cliff House	3822 '	3846'	gas
Menefee	3846'	4479'	gas
Massive Point Lookout	4479'	4835'	gas
Mancos Shale	4835'	5660'	
Upper Gallup	5660'	6409'	gas
Greenhorn	6409'	6469'	gas
Graneros	6469 '	6530'	gas
Two Wells	6530'	6599'	gas
Paguate	6599'	6653 '	gas
Cubero	6653'	6703 '	gas
Encinal	6703'	6703'	gas
Total Depth:	6703'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

<u>Interval</u>	<u>Туре</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 2424'	LSND	8.4 - 9.0	30 - 60	no control
2424' - 6703'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2424'	7 ⁿ	20#	J-55
6 1/4"	0' - 6703'	4 1/2"	10.5#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u> Grade</u>
0' - 6703'	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, BOPE 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, BOPE 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.

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 -

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. (38 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, 2% CaCl. (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 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 195 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 (124 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/24 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 176 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (540 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 @ 1112'. Two turbolating centralizers at the base of the Ojo Alamo @ 1112'. 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 279 sxs 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 (553 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 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:

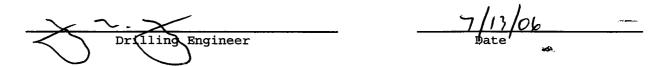
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite 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:

- This will be a Dakota only.
- 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 25 is dedicated to the Dakota formation.
- This gas is dedicated.



Blowout preventor equipment (BOPE) tests must be performed using an appropriately sized test plug. The BOPE test must be performed and recorded using a test pump, calibrated test gauges and a properly calibrated strip or chart recorder. The test must be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise authorized in the Application for Permit to Drill (APD). A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which the BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than a 10 percent pressure drop during the duration of the test.

BURLINGTON RESOURCES

Burlington Resources

Drilling Rig

Drilling Rig Choke Menifold Configuration 2000 pel System

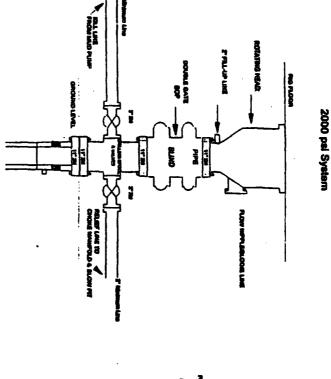


Figure #1

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Potet to Total Depth. 2,000/pei working pressure alphaeral with two chokes.

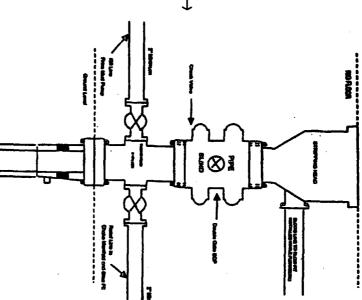
Figure #3

MOL (- Ems POPE

Minimum BOP installation for all Completion/Workove

BURLINGTON RESOURCES

Completion/Workover Rig BOP Configuration 2,000 pel System



the BOP. All BOP equipment is 2000 pel working pressure or greater excluding 500 pel stripping head. pipe rame. A stripping head to be installed on the top of pressure double gate BCP to be equipped with blind and Operations. 7-1/16" bors, 2000 pei minimum working Figure /2

4-20-01

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