

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

5. Lease Serial No.
NM 105189

6. If Indian, Allottee or Tribe Name
n/a

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

Byrne Federal 2410R

9. API Well No.

30 039 27556

10. Field and Pool, or Exploratory

West Lindreth Gallup Dk / Blanco M.V

11. Sec., T., R., M., or 131k. and Survey or Area

E Section 24, T25N, R3W

12. County or Parish

Rio Arriba

13. State

NM

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator
D.J. Simmons, Inc.

3a. Address
1009 Ridgeway Place, Suite 200, Farmington N.M. 87401

3b. Phone No. (include area code)
(505) 326-3753

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface 1623' FNL x 956' FWL

At proposed prod. zone 1910' FNL x 2250' FWL

14. Distance in miles and direction from nearest town or post office*
7.5 miles northwest of Lindreth, NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)
955' at surface
1910' at TD'

16. No. of Acres in lease
320

17. Spacing Unit dedicated to this well

160 NW 1/4

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
55' @ surface, 1350' @ TD abandoned PC well

19. Proposed Depth
8706' MD, 8243' TVD

20. BLJA/BIA Bond No. on file
NM 1577

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

7206' GL

22. Approximate date work will start*
09/20/03

23. Estimated duration
60 days

24. Attachments drilling plan, surface use plan

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Date

Robert R. Griffiee

08/11/03

Title

Operations Engineer

Approved by (Signature)

Name (Printed/Typed)

Date

DEC 17 2003

Title Acting Assistant Field Manager

Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

(Instructions on reverse)

HOLD C104 FOR Directional Survey

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-27 556	² Pool Code 39189	³ Pool Name W LINDRETH GALLUP/DAKOTA
⁴ Property Code 30996	⁵ Property Name BYRNE FED 24	⁶ Well Number 101
⁷ OGRID No. 5578	⁸ Operator Name D. J. SIMMONS INC.	⁹ Elevation 7206.33

¹⁰ Surface Location

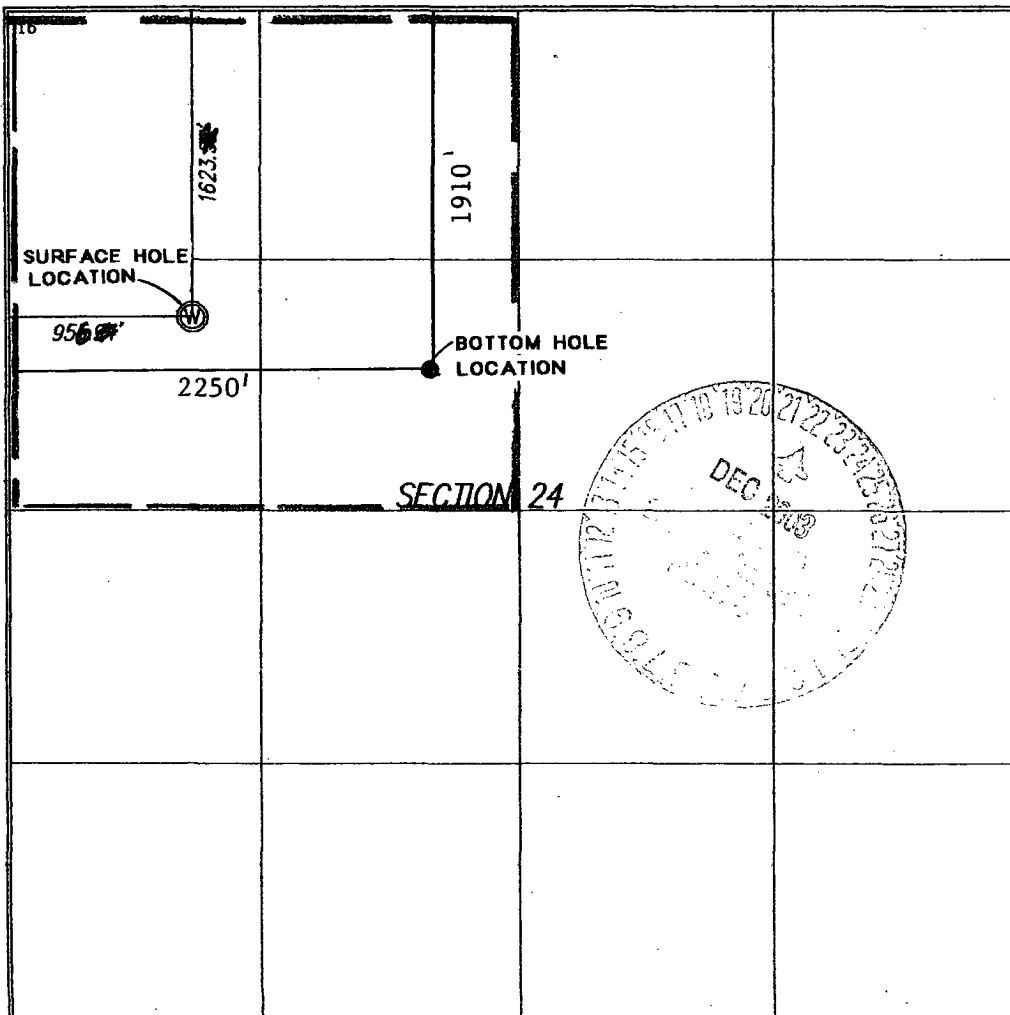
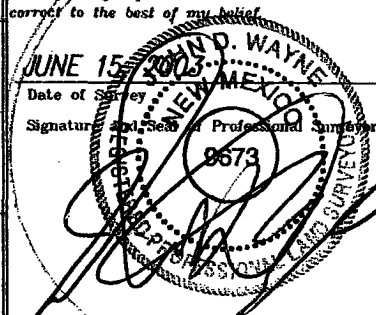
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	24	25N	3W		1623.32	NORTH	956.94	WEST	RIO ARRIBA

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
E	24	25N	3W		1910	NORTH	2250	WEST	RIO ARRIBA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p>Signature <u>Robert R. Griffice</u></p> <p>Printed Name Robert R. Griffice</p> <p>Title Operations Engineer</p> <p>Date 8/15/03</p>
	<p>18 SURVEYOR CERTIFICATION</p> <p>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</p> <p>Date of Survey JUNE 15, 2003</p> <p>Signature and Seal of Professional Surveyor </p> <p>Certificate Number N.M. PLS #9673</p>

Drilling Plan**Well Name:** Byrne Federal 24-1X**Surface Location:** 1623.52 FNL x 955.94 FWL, Section 24, T25N, R3W
Rio Arriba County, NM**Bottom Hole Location:** 1910' FNL x 2250' FWL, Section 24**Formation:** Gallup/Dakota**Elevation:** 7206' GL, 7220' RKB**Geology:**

Formation	Top True Vertical Depth	Top Measured Depth	Probable Content
San Jose	Surface	Surface	
Ojo Alamo	3348	3348	salt water
Kirtland	3448	3448	gas/water
Fruitland	3504	3504	gas/water
Pictured Cliffs	3624	3624	gas
Chacra	4048	4048	gas
Mesa Verde	5258	5258	gas
Menefee	5370	5370	gas
Point Lookout	5768	5768	gas
Mancos	5995	5995	gas/oil
Gallup	6800	6779	gas/oil
Graneros	7888	8243	gas/oil
Dakota	7996	8384	gas/oil
Burro Canyon	8166	8606	gas/water
TD	8243	8706	

Logging Program: Schlumberger Platform Express Suite from 4900' to base of Surface Casing. Platform Express Suite from 6400' to 4900' (air hole). Platform Express Suite from 8706' to 6400'. Mud Logger on from 3400' to TD.

Drilling Fluid Program:

* Note: all depths are Measured Depths

Interval	Fluid Type	Weight	Viscosity	Fluid Loss
0' - 250'	fresh water spud mud	8.4 - 9.0 ppg	30 - 50 sec	no control
250' - 4900'	fresh water LSND gel/poly with Soltex for shale cntrl	8.5 - 9.0 ppg	30 - 50 sec	10 cc
4900' - 6400'	air or air/mist. Shale treat in mist.			
6400' - 8706'	3% KCL / PHPA polymer	8.6 - 9.2 ppg	30 - 50 sec	8 to 10

Casing Program:

* Note: all depths are Measured Depths

Interval	Hole Diameter	Csg Size	Wt.	Grade	Thread
0' - 250'	17 1/2"	13 3/8"	48 ppf	H-40	STC
0' - 4700'	12 1/4"	9 5/8"	36 ppf	J-55	STC
4700' - 4900'	12 1/4"	9 5/8"	47 ppf	J-55	STC
4750' - 6250'	8 1/2"	7"	20 ppf	J-55	LTC
6250' - 6400'	8 1/2"	7"	26 ppf	J-55	LTC
8706' - 6250'	6 1/4"	4 1/2"	11.6 ppg	N-80	LTC

(The heavier weight casing on the bottom of the 9 5/8" and 7" casing strings is to facilitate existing liner hanger inventories only)

Tubing Program: 0 - 8600', 2 3/8", 4.7 ppf, J55, EUE

BOPE and Wellhead Specifications and Testing:

From surface casing shoe to 5000': 13 3/8" 2000 psi threaded casing head with two 2" outlets. 13 5/8", 2000 psi annular BOP and 2000 psi choke manifold (see figures 1 and 2). Pressure test BOPE to 2000 psi and 13 3/8" surface casing to 600 psi prior to drilling surface casing shoe.

From 4900' to 6400': 9 5/8" 3000 threaded casing head. 11" 3000 psi double gate BOP with rotating head and 3000 psi choke manifold (see figures 3 and 4). Pressure test BOPE to 2000 psi and 9 5/8" casing to 1000 psi prior to drilling shoe.

From 6400' - TD: 11" 3000 psi double gate BOP with rotating head and 3000 psi choke manifold (see figures 3 and 4). Pressure test BOPE to 3000 psi and 7" casing to 1500 psi prior to drilling shoe.

For completion operations: 7" x 2 3/8", 3000 psi tree assembly. 7 1/16", 3000 psi double gate BOP system (see figure 5).

General Operation:

- Actuate pipe rams once each day during drilling operations. Actuate blind rams once each trip.
- An upper Kelly cock valve, with handle, will be available on the rig floor to fit each drilling string.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in the daily drilling report.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing Program:

13 3/8" Surface Casing String: Run casing with saw tooth guide shoe on bottom, insert float valve one joint from bottom, and install bowspring centralizers as per Onshore Order #2.

Cement with 340 sks class 'G' with 1/4 #/sk flocele and 2% CaCl₂ (384 cf slurry, 100% excess to circulate to surface).

9 5/8" Intermediate Casing String: Run casing with float shoe on bottom, float collar one joint from bottom and install bowspring centralizers as per Onshore Order #2. Cement with 1275 sks 65/35 poz plus additives followed with 100 sks Class 'G' (1850 cf slurry, 50% excess to circulate to surface).

7" Protection Liner: Run casing with float shoe on bottom, float collar one joint from bottom, and centralizers every other joint from 6400' to 5000'. Cement with 140 sks class 'G' 50/50 poz plus additives followed by 100 sks Class 'G' neat. Precise slurry volumes to be calculated from open hole log caliper plus 25% excess. Top of cement to be at liner top.

4 1/2" Production Liner: Run casing with float shoe on bottom, float collar two joints from bottom. Centralize with one centralizer in the middle of the first joint and one centralizer every other collar. Cement with 200 sks of class 'G' 50/50 poz plus additives followed by 100 sks Class 'G' neat. Precise slurry volumes to be calculated from open hole log caliper plus 25% excess. Top of cement to be at liner top.