

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rjo Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised March 17, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Read & Stevens, Inc. P. O. Box 1518 Roswell, New Mexico 88202		² OGRID Number 018917
		³ API Number 30-025-35947
³ Property Code 27169	³ Property Name Liberty 4	⁶ Well No. 2

⁷ Surface Location

U/L or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	4	20S	36E		2020	South	2310	East	Lea

⁸ Proposed Bottom Hole Location If Different From Surface

U/L or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

⁹ Proposed Pool 1 Wildcat (Bone Spring)	¹⁰ Proposed Pool 2
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¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3,629'
¹⁶ Multiple No	¹⁷ Proposed Depth 9,800'	¹⁸ Formation Bone Spring	¹⁹ Contractor Patterson	²⁰ Spud Date ASAP

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	54.5#	400'	420	Surface
11"	8 5/8"	32#	3,500'	950	Surface
7 7/8"	5 1/2"	15.5#	9,800'	1000	Tie Back

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

The proposed well will test the Bone Spring interval.

Depth	Mud	WL	Vis
0' - 400'	FW	NC	28
400' - 3,500'	Brine W	NC	28
3,500' - 9,000'	FW	NC	28
9,000' - 9,800'	FW Mud	10 cc	35-40

3,000 psi BOP equipment will be utilized on the 13 3/8" casing, and 5,000 psi double rams w/ a 3000 psi annular on the 8 5/8" casing.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *John C. Moxey, Jr.*
Printed name: **John C. Moxey, Jr.**
Title: **Operations Manager**
Date: **7-11-02**
Phone: **505/622-3770**

OIL CONSERVATION DIVISION

Approved by: **ORIGINAL SIGNED BY PAUL F. KAUTZ**
Title: **PETROLEUM ENGINEER**
Approval Date: **JUL 16 2002**
Expiration Date:
Conditions of Approval:
Attached

Permit Expires 1 Year From Approval Date Unless Drilling Underway

400

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, 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 Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 copies
Fee Lease - 3 copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30025-35947		² Pool Code ✓	³ Pool Name Wildcat (Bone Spring)	
⁴ Property Code 27169	⁵ Property Name LIBERTY "4"		⁶ Well Number 2	
⁷ OGRID No. 018917	⁸ Operator Name READ & STEVENS, INC.		⁹ Elevation 3629'	

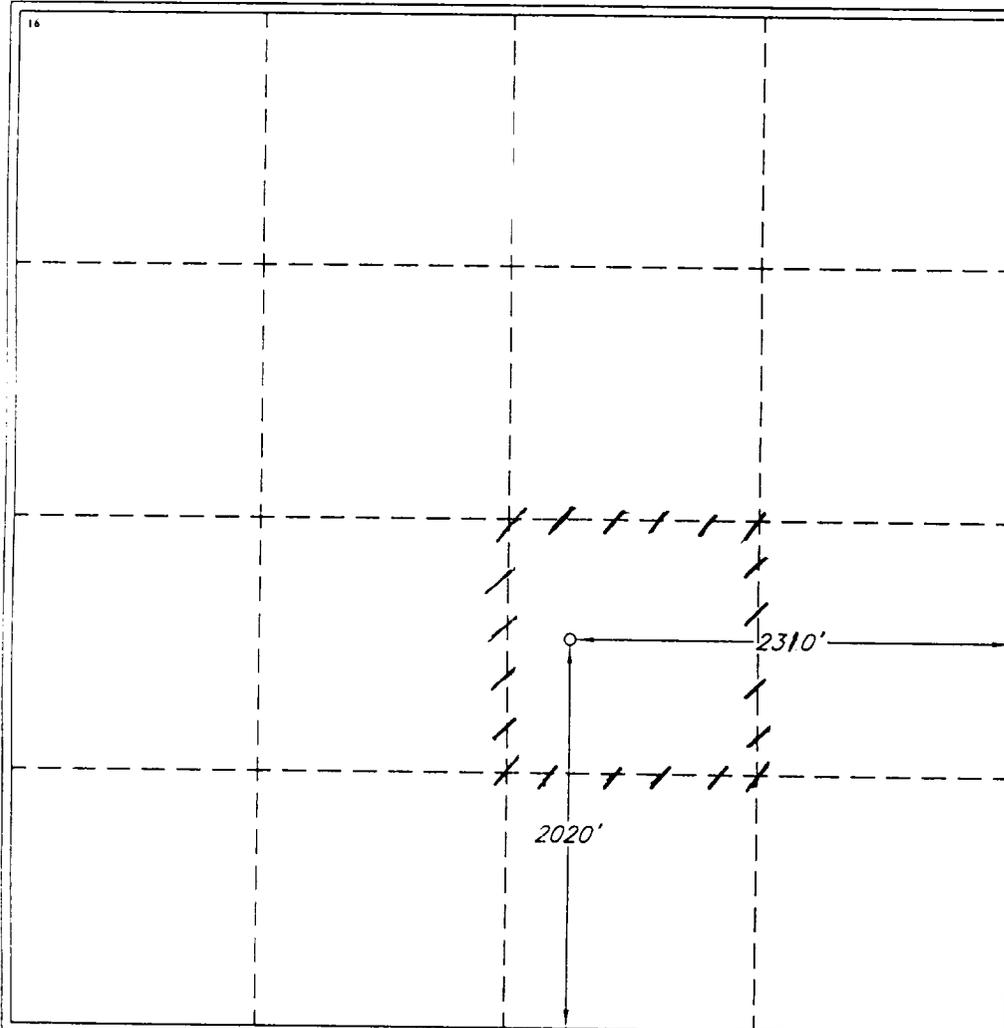
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	4	20 SOUTH	36 EAST, N.M.P.M.		2020'	SOUTH	2310'	EAST	LEA

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
¹² Dedicated Acres 40		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

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

Susan Rodrigue
Signature

Susan Rodrigue
Printed Name

Production Analyst
Title

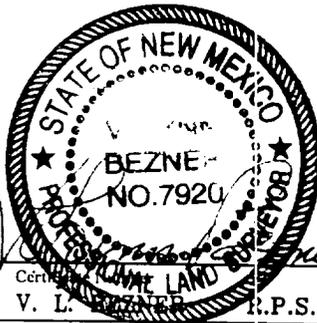
7-11-02
Date

¹⁸ 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.

JULY 2, 2002
Date of Survey

Signature and Seal of Professional Surveyor



JOB # 82546 / 71 SE / J.C.P.

TIMBER//SHARP DRILLING

B.O.P. Equipment Intended for use on Rig # _____

Well To Be drilled for Patterson

- * All B.O.P equipment is H2S Trim *
- * All Accumulators are Kookey Type-80 : Dual Power Electric/Air *
- * Choke Manifold: * See sheet 2
- 4" Valves : Cameron F/FC, Shaffer DB Hydraulic
- 2" Check Valve: Cameron Type R
- 2" Valves : Cameron or Shaffer

Annular Shaffer Type: Spherical

Annular PSI: 3000

(If Shaffer: Spherical , If Hydril: Type OK)

BOP Type Shaffer LWS

(If Shaffer: LWS or SL, If Cameron: Type U)

BOP Size: 13 5/8" - 5000 PSI

Rotating Head Type Smith

Rot-Head Furnished By Timpe

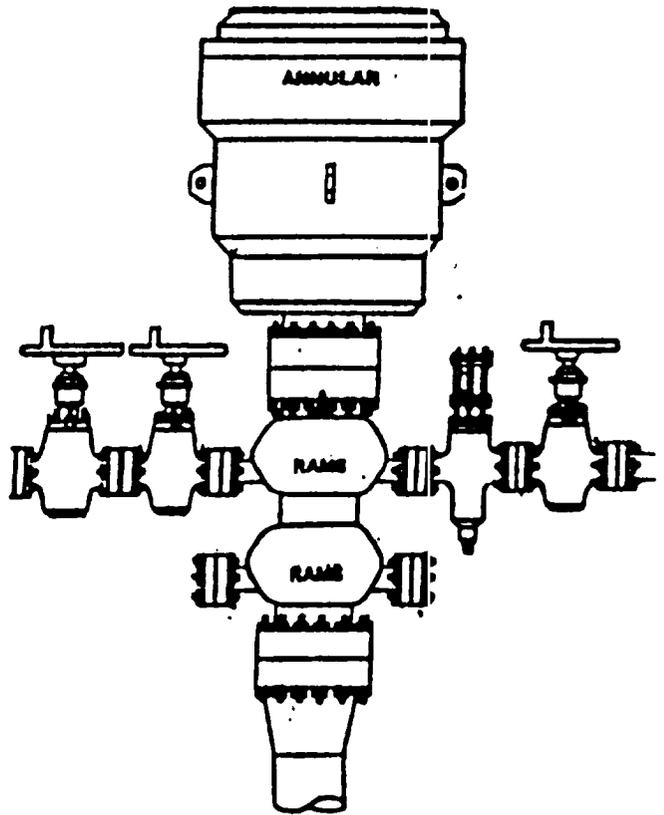
Rams in top gate: 4 1/2" pipe

Rams in bottom: Blinds

Side Outlets used:

Bottom Top _____

4" Valves on Tee



B.O.P. Equipment Intended for use on Rig # _____

Well To Be drilled for Patterson

* All Valves (H2S) *

Choke Manifold:

Pressure Rating 3,000 or 5,000 (as Req.)

1 - 4" Valves

2 - 2" Valves

2 - 2" Adjustable Chokes

Valve Types Used:

Cameron - F or FC

Shaffer - B Floseal

WKM type 2

Chokes - Cameron H2 or TC unibolt

