

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, 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 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

OCT 29 2003

OCD-ARTESIA

Form C-101
Revised June 10, 2003

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 Samson Resources Samson Plaza, Two West Second St. Tulsa, OK 74103		² OGRID Number 20165
³ Property Code	⁵ Property Name Loving I State	³ API Number 30-015-33084
		⁶ Well No. 4

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	I	24-S	27-E		1980'	South	660'	East	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/S
⁹ Proposed Pool I Black River Morrow						Cement to cover all oil, gas and water bearing zones.

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3102' GL
¹⁶ Multiple N	¹⁷ Proposed Depth 12,900'	¹⁸ Formation Morrow	¹⁹ Contractor Nabors Drilling	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"	48.0#	0' - 550'	383 cu. ft.	Circ. to surface
12 1/4"	9 5/8"	40.0#	0' - 2,400'	788 cu. ft.	Circ. to surface
8 3/4"	7"	26.0#	0' - 10,550'	234 cu. ft.	TOC 9,000'
6 1/8"	4 1/2"	13.5#	0' - 12,900'	327 cu. ft.	TOC 10,700'
* Altern. 7 7/8"	5 1/2"	20.0#	0' - 12,900'	2785 cu. ft.	TOC 1,900'

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.

Propose to drill to 12,900' to test the Morrow. *Alternative: Will drill 8 3/4" to approx. 10,550' and will test for formation integrity for FIT 12 ppg EMW. If FIT is achieved, will reduce hole to 7 7/8" and drill to TD w/o setting 7" casing, then will run 5 1/2" from surface to T.D.

Minimum Specifications for Pressure Control Equipment:

A 13 5/8" 10M WP Shaffer, Double Gate BOP over single with 13 5/8" 5M Hydril annular preventer will be installed on the 13 5/8" casing. Will test to 3M before drilling out 12 1/4" hole and to 5M before drilling the 8 3/4" and 6 1/4" hole.

H₂S: None expected. None in previously drilled wells in area.

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

Signature: *George R. Smith*

Printed name: George R. Smith

Title: agent for Samson Resources

E-mail Address: grsmith1@prodigy.net

Date: October 28, 2003

Phone: (505) 623-4940

OIL CONSERVATION DIVISION

Approved by:

Jim W. Burns

Title:

District Supervisor

Approval Date: OCT 30 2003

Expiration Date:

OCT 30 2004

Conditions of Approval:

Attached ☐

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

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, N M 87505

Form C-102

Revised March 17, 1999
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 72170	Pool Name Black River Morrow
Property Code	Property Name LOVING 1 STATE	Well Number 4
OGRID No. 20165	Operation Name SAMSON RESOURCES	Elevation 3102

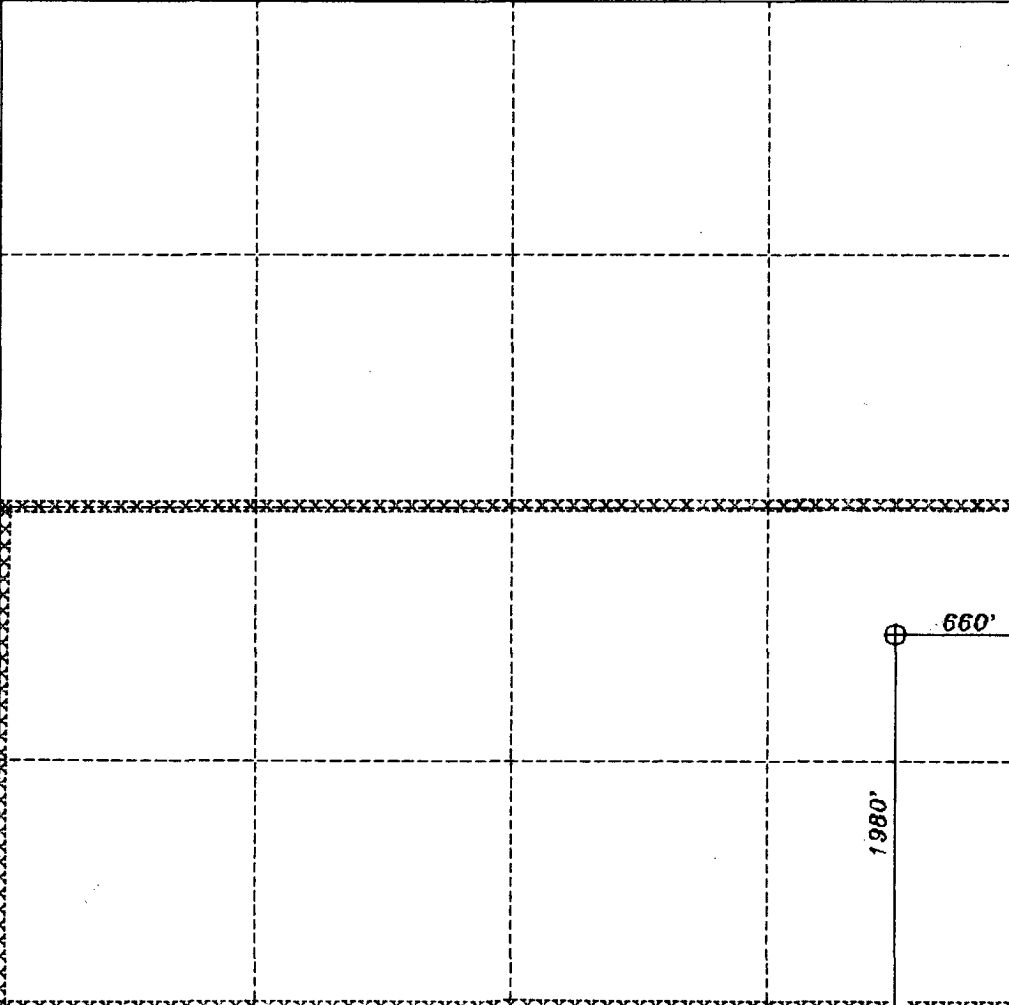
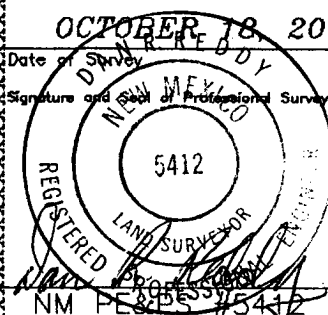
Surface Location

UL or Lot No. I	Section 1	Township 24-S	Range 27-E	Lot Idn.	Feet from the 1980	North/South line SOUTH	Feet from the 660	East/West line EAST	County EDDY
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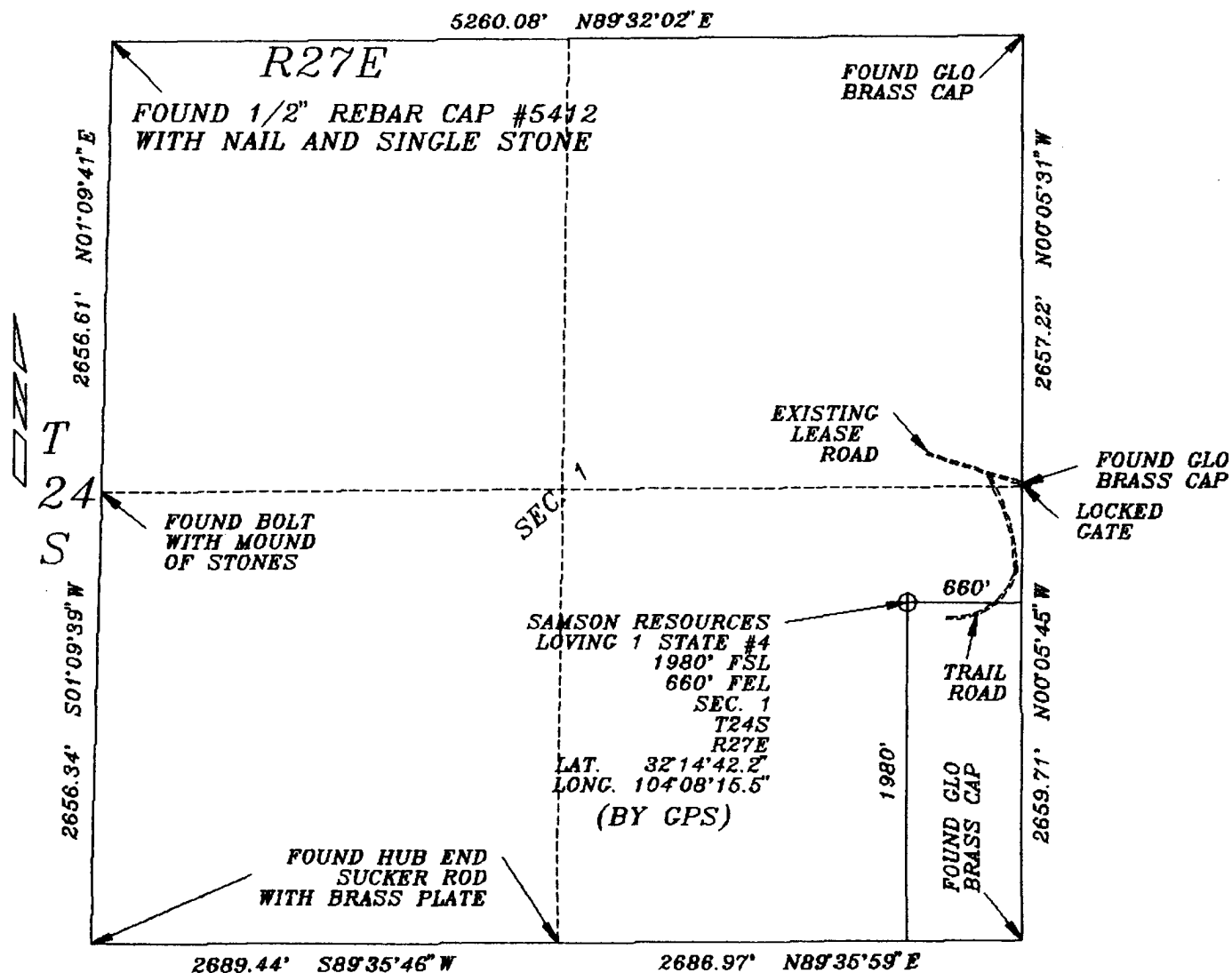
Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

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

	OPERATOR CERTIFICATION I HEREBY CERTIFY THAT THE INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
	<i>George R. Smith</i> Signature George R. Smith
	Printed Name agent
	Title October 28, 2003
	Date
	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 KNOWLEDGE AND BELIEF.
	OCTOBER 18, 2003 Date of Survey
	Signature and Seal of Professional Surveyor 
	Certificate Number

WELL LOCATION SKETCH



Scale 1" = 1000 ft

PREPARED BY: DAN R. REDDY, NM PE&PS #5412
PREPARED FOR: SAMSAM RESOURCES, INC.
OCTOBER 20, 2003