

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

Form C-101
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
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 Samson Resources Samson Plaza, Two West Second St. Tulsa, OK 74103		² OGRID Number 20165
³ Property Code 33036		³ API Number 30-025-36451
⁵ Property Name Longhorn 28 State Com.		⁶ Well No. 1

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
D	28	21-S	35-E		660'	North	660'	West	Lea

⁸ Proposed 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
⁹ Proposed Pool 1 Osudo Morrow So.						¹⁰ Proposed Pool 2			

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3607' 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"	54.5#	0' - 1,000'	780 sx	Surface
12 1/4"	9 5/8"	40.0#	0' - 5,500'	1750 sx	Surface
8 3/4"	7"	26.0#	0' - 10,800'	650 sx	TOC 5,300'
6 1/8"	4 1/2"	13.5#	0' - 12,900'	190 sx	TOC 10,600'
* Altern. 7 7/8"	5 1/2"	20.0#	0' - 12,900'	800 sx	TOC 5,300'

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. 10,800' 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.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: <i>George R. Smith</i>		Approved by: <i>[Signature]</i>	
Printed name: George R. Smith		Title: PETROLEUM ENGINEER	
Title: agent for Samson Resources		Approval Date: OCT 20 2003	Expiration Date:
E-mail Address: grsmith1@prodigy.net			
Date: October 17, 2003	Phone: (505) 623-4940	Conditions of Approval: Attached <input type="checkbox"/>	

DISTRICT I

P.O. Box 1880, Hobbs, NM 88241-1880

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-36457	Pool Code 82200	Pool Name Osudo Morrow So.
Property Code 33036	Property Name LONGHORN 28 STATE COM.	Well Number 1
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 3607'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	21-S	35-E		660'	NORTH	660'	WEST	LEA

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 com	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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>George R. Smith</u> Signature George R. Smith Printed Name Agent for Samson Resources Title October 17, 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 belief. August 07, 2003 Date Surveyed Signature & Seal of Professional Surveyor Certificate No. RONALD J. EDSON 3239 GARY EDSON 12641	
	GEODETIC COORDINATES NAD 1927 NME Y = 530674.1 N X = 794525.9 E LAT. = 32°27'19.13"N LONG. = 103°22'42.61"W	