

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
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

Operator Name and Address SAMSON RESOURCES COMPANY ATTN: BRENNAN SHORT TWO WEST SECOND STREET, TULSA, OK 74103		Operator Number 20165
Property Code 35083	Property Name EAGLE 2 STATE	Well No. 4
Proposed Pool 1 LEA BONE SPRINGS		Proposed Pool 2

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	2	20S	34E		660	NORTH	660	WEST	LEA

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

Additional Well Information

Work Type Code N	Well Type Code 20	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 3681'
Multiple N	Proposed Depth 11,300'	Formation Lea Penn	Contractor McVay	Spud Date 12/16/07
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit Volume 24000 bbls				
Drilling Method: Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				
Closed-Loop System ☐				

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# H-40	400'	300 sx	Surface
12 1/4"	9 5/8"	40# J-55	5,475'	1250 sx	400'
8 3/4"	5 1/2"	20# P-110	11,300'	1000 sx	5,175'

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.

SAMSON RESOURCES COMPANY proposes to drill/test the Bone Spring formations. Approximately 400' of surface casing will be set/cemented. Intermediate casing will be set at 5,475', cement cir. to surface. If commercial, production casing will be run/cemented, perforate/stimulate as needed for production.

MUD PROGRAM: 0-1600' Fresh water
1600-5400' Brine water
5400-11300' Cut Brine/water

BOP PROGRAM: A 5000# BOPE will be installed on the 9-5/8" casing and tested daily.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .		OIL CONSERVATION DIVISION	
Printed name: Kenneth C. Dickeson		Approved by: Gary W. Wink	
Title: Authorized Agent		Title: JC FIELD MGR, LEA/NM/EL PASO NATURAL	
E-mail Address: bshort@samson.com		Approval Date: DEC 04 2007	
Date:		Expiration Date:	
Phone: (432) 682-4002		Conditions of Approval Attached ☐	

DISTRICT I
1625 N FRENCH DR., BOBBE, NM 86240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 3D-025-38622	Pool Code 37570	Pool Name Lea Bone Spring
Property Code 35083	Property Name EAGLE 2 STATE	Well Number 4
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 3681'

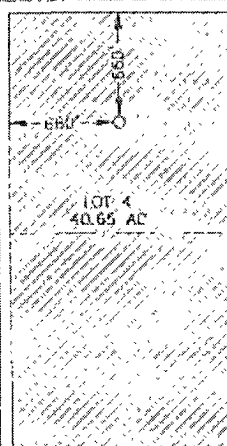
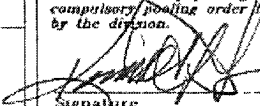
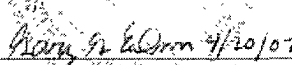
Surface Location

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	20-S	34-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		Joint or Infill		Consolidation Code		Order No.			

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

	LOT 3	LOT 2	LOT 1
	40.75 AC	40.85 AC	40.95 AC
GEODETIC COORDINATES NAD 27 NME Y=585661.7 N X=745275.2 E LAT.=32.607563° N LONG=103.536823° W LAT.=32°36'27.23" N LONG=103°32'12.56" W			
OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature Date 11-28-07 Printed Name Kenneth C. Dickson			
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. APRIL 2, 2007 Date Surveyed Signature & Seal of Professional Surveyor  Certificate No. GARY EIDSON 12641			