

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**

<sup>1</sup> Operator Name and Address Samson Resources Samson Plaza, Two West Second St. Tulsa, OK 74103		<sup>2</sup> OGRID Number 20165
<sup>3</sup> Property Code 35083		<sup>3</sup> API Number 30-025-37453
<sup>5</sup> Property Name Eagle 2 State		<sup>6</sup> Well No. 1

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	2	20-S	34-E		660'	South	1600'	East	Lea

<sup>8</sup> 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
<sup>9</sup> Proposed Pool 1 Lea Penn Gas #80040					<sup>10</sup> Proposed Pool 2				

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code G	<sup>13</sup> Cable/Rotary Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3667 GL
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 13,500'	<sup>18</sup> Formation Morrow	<sup>19</sup> Contractor Patterson - UTI Drilling	<sup>20</sup> Spud Date ASAP

<sup>21</sup> 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' - 1,695'	1200 sx	Circ. to surface
12 1/4"	9 5/8"	40.0#	0' - 5,600'	1500 sx	Circ. to surface
8 3/4"	5 1/2"	20.0#	0' - 13,500'	1000 sx	TOC 5,400'

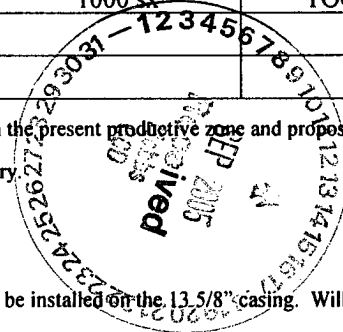
22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Propose to drill to 13,500' to test the Morrow. If well is commercial 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" hole.

**H<sub>2</sub>S:** None expected. None in previously drilled wells in area.



<sup>23</sup> 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 September 13, 2005

Phone: (505) 623-4940

OIL CONSERVATION DIVISION

Approved by: *[Signature]*

Title: PETROLEUM ENGINEER  
Approval Date: SEP 14 2005  
Expiration Date:

Conditions of Approval:

Attached

Permit Expires 1 Year From Approval Date Unless Drilling Underway

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I  
1620 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

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

Form C-102  
Revised JUNE 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number <b>30-025-37453</b>	Pool Code <b>80040</b>	Pool Name <b>Lea Penn Gas</b>
Property Code <b>35083</b>	Property Name <b>EAGLE 2 STATE</b>	Well Number <b>1</b>
OGRID No. <b>20165</b>	Operator Name <b>SAMSON RESOURCES</b>	Elevation <b>3667'</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	2	20-S	34-E		660	SOUTH	1600	EAST	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 <b>160 320</b>	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 4 40.65 AC	LOT 3 40.75 AC	LOT 2 40.85 AC	LOT 1 40.95 AC	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>George R. Smith</i> Signature</p> <p><b>George R. Smith</b> Printed Name</p> <p><b>Agent</b> Title</p> <p><b>September 13, 2005</b> Date</p>
<p><b>GEODETC COORDINATES</b> NAD 27 NME</p> <p>Y=581677.5 N X=748371.6 E</p> <p>LAT.=32°35'47.68" N LONG.=103°31'37.30" W</p>				
				<p><b>SURVEYOR CERTIFICATION</b></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><b>SEPTEMBER 2, 2005</b> Date Surveyed</p> <p>JR Signature &amp; Seal of Professional Surveyor</p> <p><i>Gary H. Edson</i> 9/2/05 05.11.1361</p> <p>Certificate No. <b>GARY EDSON</b> 12641</p>

# Patterson-UTI Drilling Company

Rig # 480

20,000'

## DRAWWORKS

Gardner & Denver 1100 E (1500HP) 1 3/8" drill line (2) GE 752 elec. motors

## ENGINES

3 - Caterpillars 3508, 900HP w/720KW generators

## DERRICK

Ideal 143", 1,000,000# hook load w/12 lines

## SUBSTRUCTURE

24' height 21' vertical clear height under rotary beams

## MUD PUMPS

(2) - Gardner-Denver PZ-10, 1350HP powered by (2) GE 752, 1000HP D.C. Motor

## DRILL STRING

5900' 1950 E 5"  
3400' 1950 5" X95  
1550' 2560 5" X95  
1900' 1950 S 5"

## BLOWOUT PREVENTERS

(1) Shaffer 13 5/8" 10,000 psi SL double ram w/H2S trim w/ (4) 4" outlets; (1) Shaffer 13 5/8" 10,000 psi single ram w/H2S trim w/(2) 4" outlets  
(1) 13 5/8" 5000 psi Shaffer annular

## MUD SYSTEM

3 pits, 1600 bbl capacity w/high and low pressure mixing capability, Harrisburg 10 cone desilter, Harrisburg 2 cone desander, 2 FSI linear motion shale shakers.

## COMMUNICATIONS

24 hour direct cellular telephone

## OTHER EQUIPMENT

Blocks. Gardner-Denver 550 ton 6 sheaves 1 3/8" line

Hook. Joy 500 ton hook

Swivel. Gardner-Denver SW400, 400 tons

Rotary Table. Gardner-Denver 27 1/2", 250 tons @ 100 rpm 500 tons static

Electrical Power.

Fresh Water Storage. Housing. (2) 500 bbl

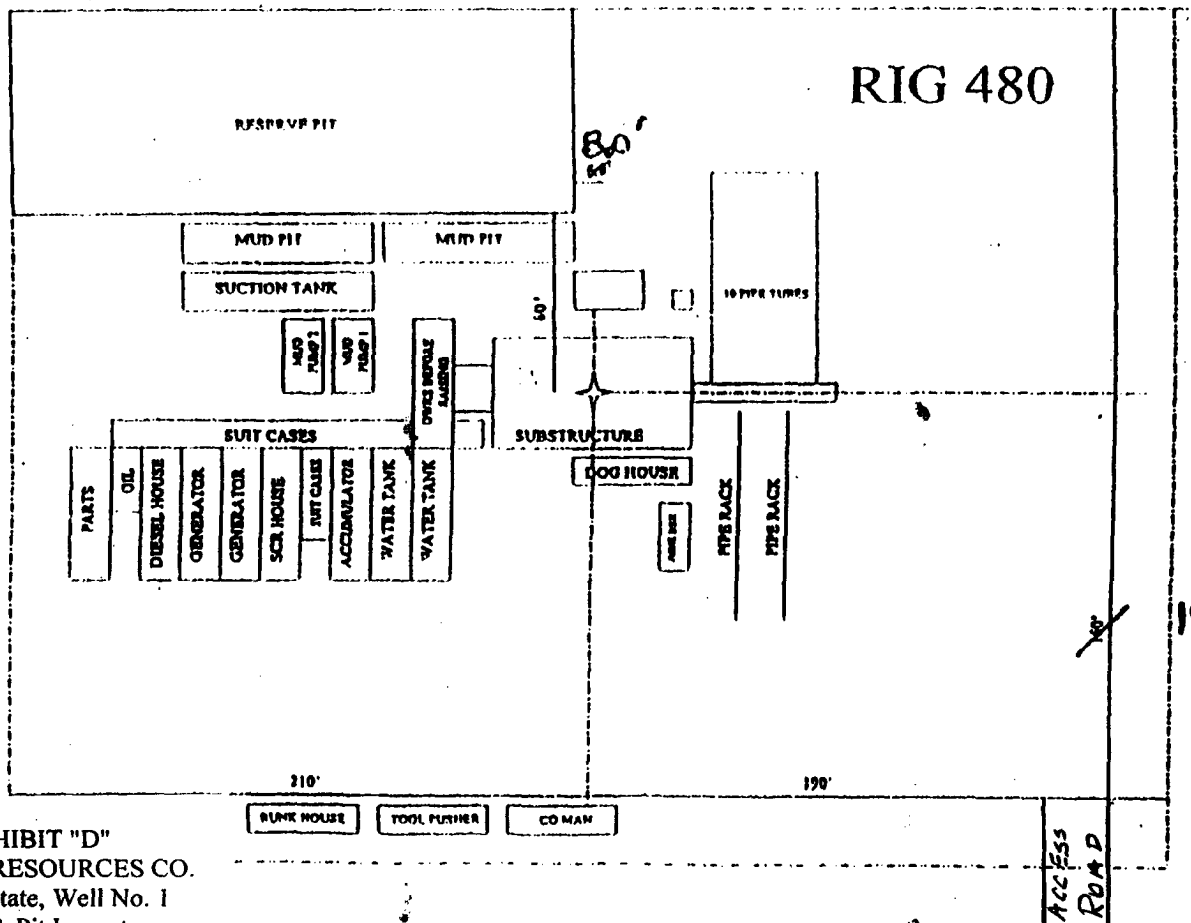
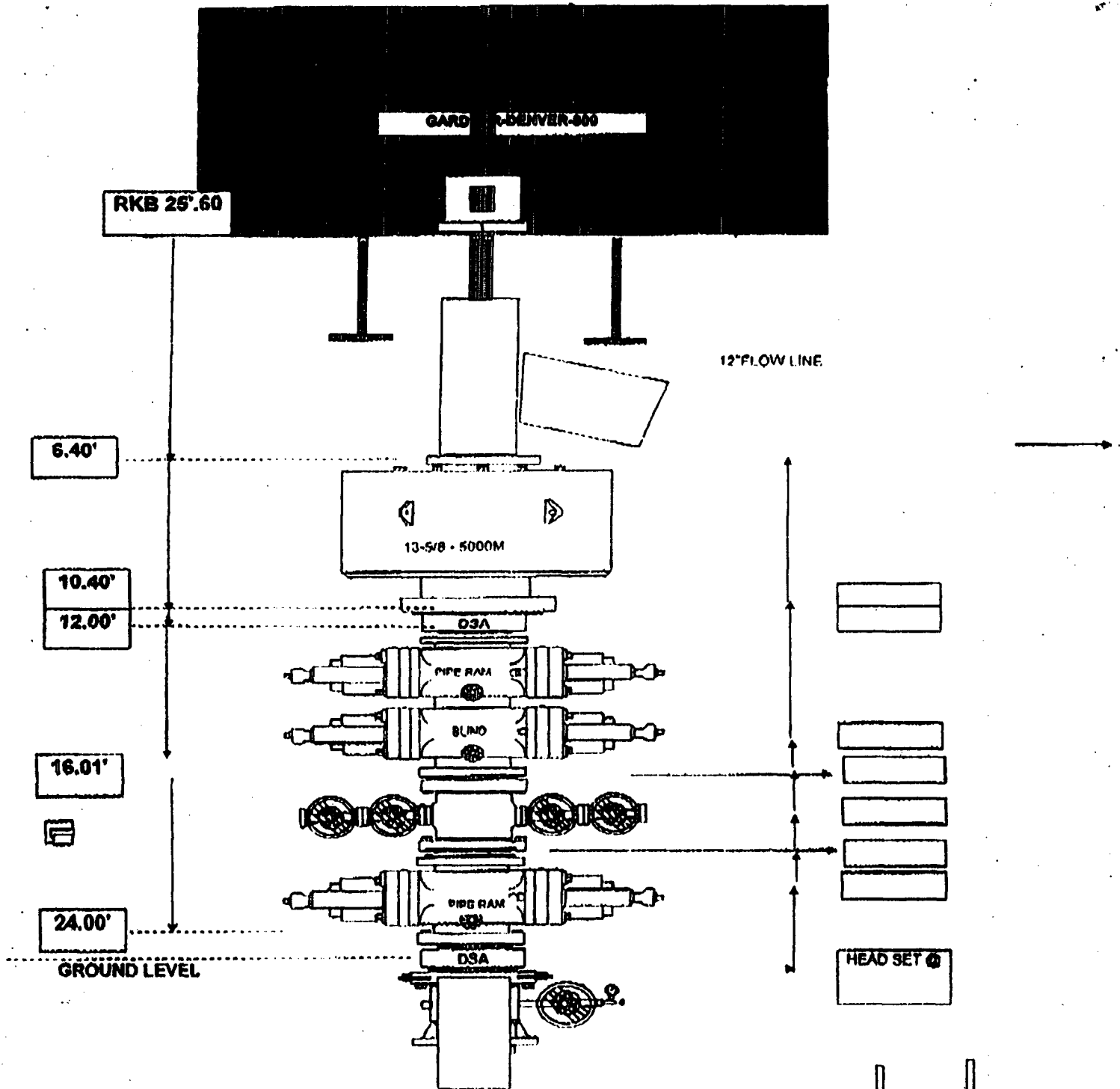


EXHIBIT "D"  
SAMSON RESOURCES CO.  
Eagle 2 State, Well No. 1  
Pad & Pit Layout



ANNULAR	= 13 5/8 - 5M HYDRIL GK ANN
DOUBLE	= 13 5/8 - 10M SHAFFER SL (DBL) BOP
SINGLE	= 13 5/8 - 10M SHAFFER SL POSLOK BOP
WELL HEAD	= 11" 5M
KILL LINE VALVES	= 2.1/16 10M
CHOKE LINE VALVE	= 4 1/16 10M

EXHIBIT "E"  
 SAMSON RESOURCES CO.  
 Eagle 2-State, Well No. 1  
 BOP Specifications



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-144  
March 12, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes  No   
Type of action: Registration of a pit or below-grade tank  Closure of a pit or below-grade tank

Operator: Samson Resources (Brad Hargrove) Telephone: (918) 591-1939 e-mail address:

Address: Samson Plaza Two W. Second St. Tulsa, OK 74103

Facility or well name: Eagle 2 State, Well #1 U/L or Qtr/Qtr SW4SE4 Sec 2\_T\_20S\_R34E

County: Lea Latitude 32°35'47.68" N Longitude 103°31'37.30" W NAD: 1927 X 1983  Surface Owner Federal  State  Private   
Indian  **API 30-025-37453**

**Pit**

Type: Drilling  Production  Disposal   
Workover  Emergency   
Lined  Unlined   
Liner type: Synthetic  Thickness 12 mil Clay  Volume 10,000\_bbl+

**Below-grade tank**

Volume: \_\_\_ bbl Type of fluid: \_\_\_\_\_  
Construction material: \_\_\_\_\_  
Double-walled, with leak detection? Yes  If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)
	No	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	(0 points)
<b>Ranking Score (Total Points)</b>		<b>-0-</b>

**If this is a pit closure:** (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: onsite  offsite  If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No  Yes  If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines X, a general permit , or an (attached) alternative OCD-approved plan .

Date: September 13, 2005

Printed Name/Title: George R. Smith, agent Signature: *George R. Smith*

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approved: **SEP 14 2005**

Date: \_\_\_\_\_  
Printed Name/Title: PETROLEUM ENGINEER

Signature: *[Signature]*