

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 200 N. Lorraine Street, Ste 1010 Midland, TX 79701		OGRID Number 20165
Property Code 35083		API Number 30 - 025-38451
Property Name Eagle 2 State		Well No. 005
Proposed Pool 1 Lea, Bone Spring		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
N	2	20S	34E		580	South	2105	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 NW	Well Type Code G	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 3662'
Multiple N	Proposed Depth 11,050'	Formation Bone Spring Dolomite	Contractor	Spud Date
Depth to Groundwater 260'		Distance from nearest fresh water well 8200'		Distance from nearest surface water 6 miles
Pit: Liner: Synthetic <input type="checkbox"/> 12 mils thick Clay <input type="checkbox"/>		Pit Volume: 2000 bbls		Drilling Method:
Closed-Loop System <input type="checkbox"/>		Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		

**Proposed Casing and Cement Program**

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17.50	13.375	54.5	400	350	0
12.25	9.625	40.0	5600	2000	1650
8.75	5.500	17.0	11050	1000	Cover Hydrocarbon Zones

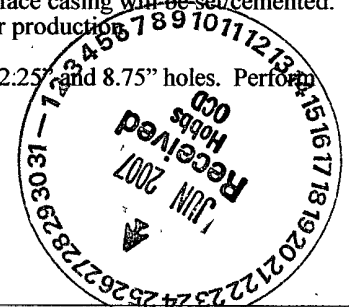
**22** Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Samson proposes to drill and test the Bone Springs Dolomite formation. Approximately 1650' of surface casing will be set/cemented. If commercial, intermediate/production casing will be run/cemented, perforate/stimulate as needed for production.

WELL CONTROL: NU 13.625" 10M WP double 3.625" 5M hydriil annular preventer before drilling 12.25" and 8.75" holes. Perform 3M test before drilling 12.25" hole and 3M test before drilling 8.75" hole.

MUD PROGRAM: 0'-1650' FW/Spud Mud  
1650'-5650' Brine  
5650'-11,050' Cut Brine

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. 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**

Approved by: *Chris Williams*  
Title: OC DISTRICT SUPERVISOR/GENERAL MANAGER

Printed name: Duke Roush  
Title: Landman

Approval Date: JUN 27 2007 Expiration Date:

E-mail Address: droush@samson.com

Date: May 30, 2007

Phone: (432) 683-7063

Conditions of Approval Attached

State of New Mexico

DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

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

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

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

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 <b>30.025.38451</b>	Pool Code <b>37570</b>	Pool Name <b>Lea Bone Spring</b>
Property Code <b>35083</b>	Property Name <b>EAGLE 2 STATE</b>	Well Number <b>5</b>
OGRID No. <b>20165</b>	Operator Name <b>SAMSON RESOURCES</b>	Elevation <b>3662'</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
N	2	20-S	34-E		580	SOUTH	2105	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 <b>80</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
GEODETIC COORDINATES NAD 27 NME Y=581602.0 N X=746741.9 E LAT.=32.596374° N LONG.=103.532160° W			
2105'		580'	

**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: Duke Roush Date: 6/26/07

Printed Name: Duke Roush

---

**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.

Date of Survey: JUNE 20 2007 Signature: Ronald J. Eidson Seal of Professional Surveyor 3239

Certificate No. **GARY EIDSON 12641**  
**RONALD J. EIDSON 3239**

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  
June 1, 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 Co. Telephone: (432) 683-7063 e-mail address: \_\_\_\_\_  
 Address: 200 N. Loraine St., Suite 1010 Midland, TX 79701  
 Facility or well name: Eagle 2 State #5 API #: 30-025-38451 U/L or Qtr/Qtr N Sec 2 T 20S R 34E  
 County: Lea Latitude 32 35'47 73" N Longitude 103 31'53 85" W NAD: 1927  1983   
 Surface Owner: Federal  State  Private  Indian

Pit	Below-grade tank	
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12/20 mil</u> Clay <input type="checkbox"/> Pit Volume <u>10,000+</u> bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> 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) <input checked="" type="checkbox"/>
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) <input checked="" type="checkbox"/>
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) <input checked="" type="checkbox"/>
<b>Ranking Score (Total Points)</b>		<b>0 Points</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. (check the onsite box if you are burying in place) 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.

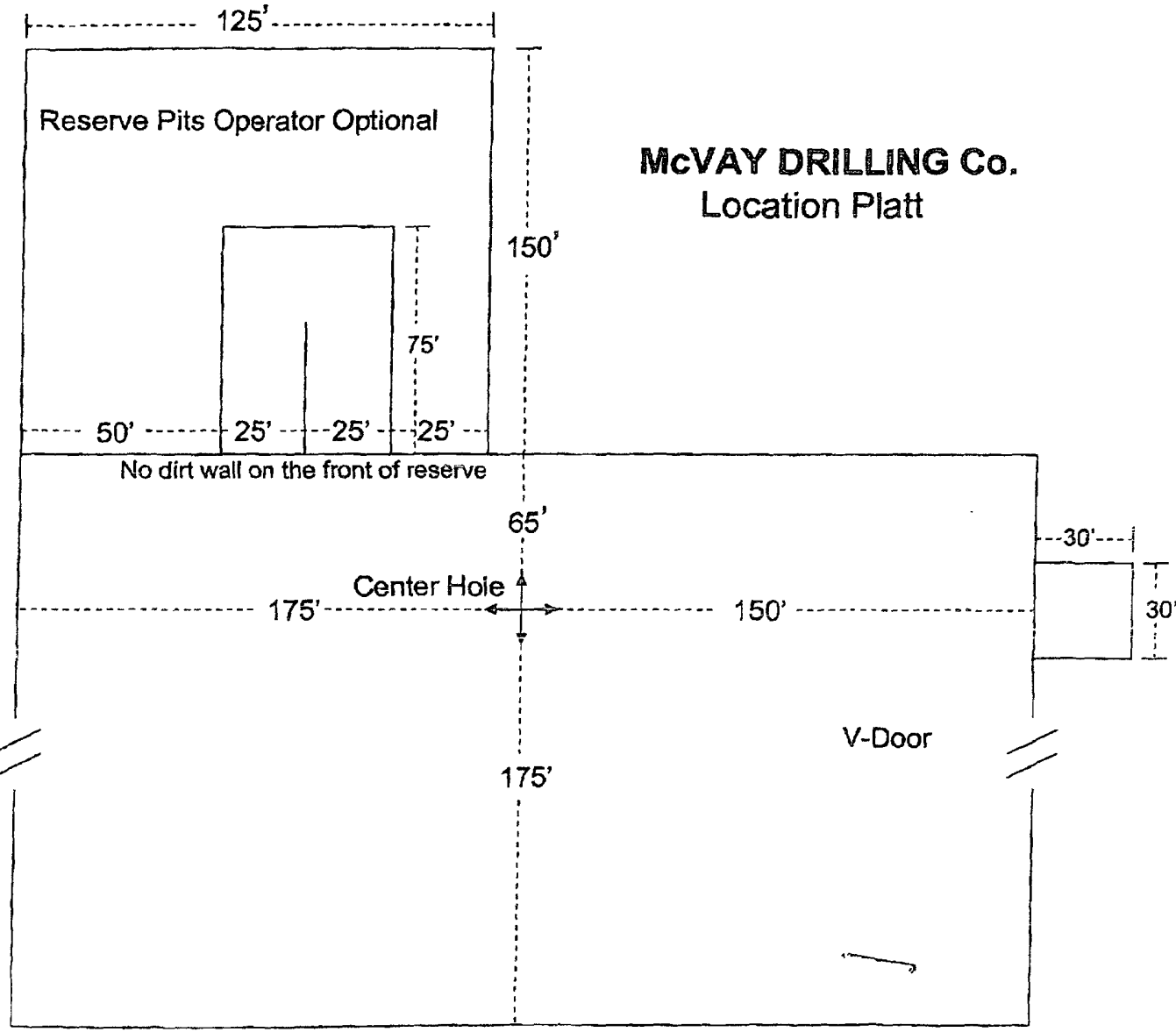
\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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 , a general permit , or an (attached) alternative OCD-approved plan .

Date: April 26, 2007  
 Printed Name/Title Duke Roush/Landman Signature Duke Roush

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.

Approval:  
 Printed Name/Title CARIS WILLIAMS/DIST. SMO. Signature Caris Williams Date: 6/27/07



**McVAY DRILLING Co.**  
Location Platt