

District I  
1625 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

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-101  
May 27, 2004

Oil Conservation Division  
1220 S. 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

<sup>1</sup> Operator Name and Address Energen Resources Corporation 3300 N. A St., Bldg. 4 Ste. 100 Midland, TX 79705		<sup>2</sup> OGRID Number 162928
<sup>3</sup> API Number 30-025-37246		<sup>6</sup> Well No. 1
<sup>4</sup> Property Code 34819	<sup>5</sup> Property Name Big Dog Baer	
<sup>9</sup> Proposed Pool 1 Big Dog; Strawn, South		<sup>10</sup> Proposed Pool 2 Lovington; Strawn, West

<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
G	32	15-S	35-E		1650	North	1672	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

Additional Well Location

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3998'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 12,000'	<sup>18</sup> Formation Strawn	<sup>19</sup> Contractor Big Dog Rig #1	<sup>20</sup> Spud Date ASAP
Depth to ground water 68'		Distance from nearest fresh water well 865'		Distance from nearest surface water N/A
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume 10M bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

<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"	48.00#	400'	450	Surface
12-1/4"/11"	8-5/8"	32.00#	4,800'	1200	Surface
7-7/8"	5-1/2"	17.00#	12,000	1200	4500'

<sup>22</sup> 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.

Plan to drill a 17-1/2" hole to approx. 400', run 13-3/8" 48# casing and cement to surface. Will then install a 13-3/8" SOW wellhead, NU a 13-5/8"/5M# hydraulic double ram and annular BOP stack with a 4"/5M# choke manifold. Drill a 12-1/4"/11" hole to approx. 4800', run 8-5/8" 32# csg and attempt to tie to surface. Will then NU and test the same BOP stack and drill a 7-7/8" hole to approx. 12,000'. If the primary objective shows to be commercial, will run 5-1/2" 17# casing and attempt to tie the cmt back into the 8-5/8" intermediate casing. If non-commercial, will P&A as per the OCD's requirements.

<sup>23</sup> 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 ☐  
Signature: *Carolyn Larson*

Printed name: Carolyn Larson

Title: Regulatory Analyst

E-mail Address: clarson@energen.com

Date:

5-16-05

Phone:

(432) 684-3693

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway