

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-101  
May 27, 2004

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

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 30-025-37254
<sup>4</sup> Property Code 027803 ✓	<sup>5</sup> Property Name Hodge	<sup>6</sup> Well No. 2 ✓
<sup>9</sup> Proposed Pool 1 Trinity; Wolfcamp		<sup>10</sup> Proposed Pool 2

**<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
K	27	12-S	38-E		2240	South	2310	West	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 3798' ✓
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 9900'	<sup>18</sup> Formation Wolfcamp ✓	<sup>19</sup> Contractor Big Dog	<sup>20</sup> Spud Date ASAP
Depth to ground water 42'		Distance from nearest fresh water well >1000'		Distance from nearest surface water
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 checked="" 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#	4600'	1200	Surface
7-7/8"	5-1/2"	17.00#	10,000'	900	4000'
Permit Expires 1 Year From Approval Date Unless Drilling Underway					

<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# csg and cmt 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. 4600', run 8-5/8" 32.00# csg and attempt to cement to surface. Will then NU and test the same BOP stack and drill a 7-7/8" hole to approx. 10,000'. If the primary objective shows to be commercial, will run 5-1/2" 17.00# casing and attempt to tie the cement back into the 8-5/8" intermediate csg. 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: 5-18-05

Phone: (432) 684-3693

**OIL CONSERVATION DIVISION**

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date: MAY 20 2005

Expiration Date:

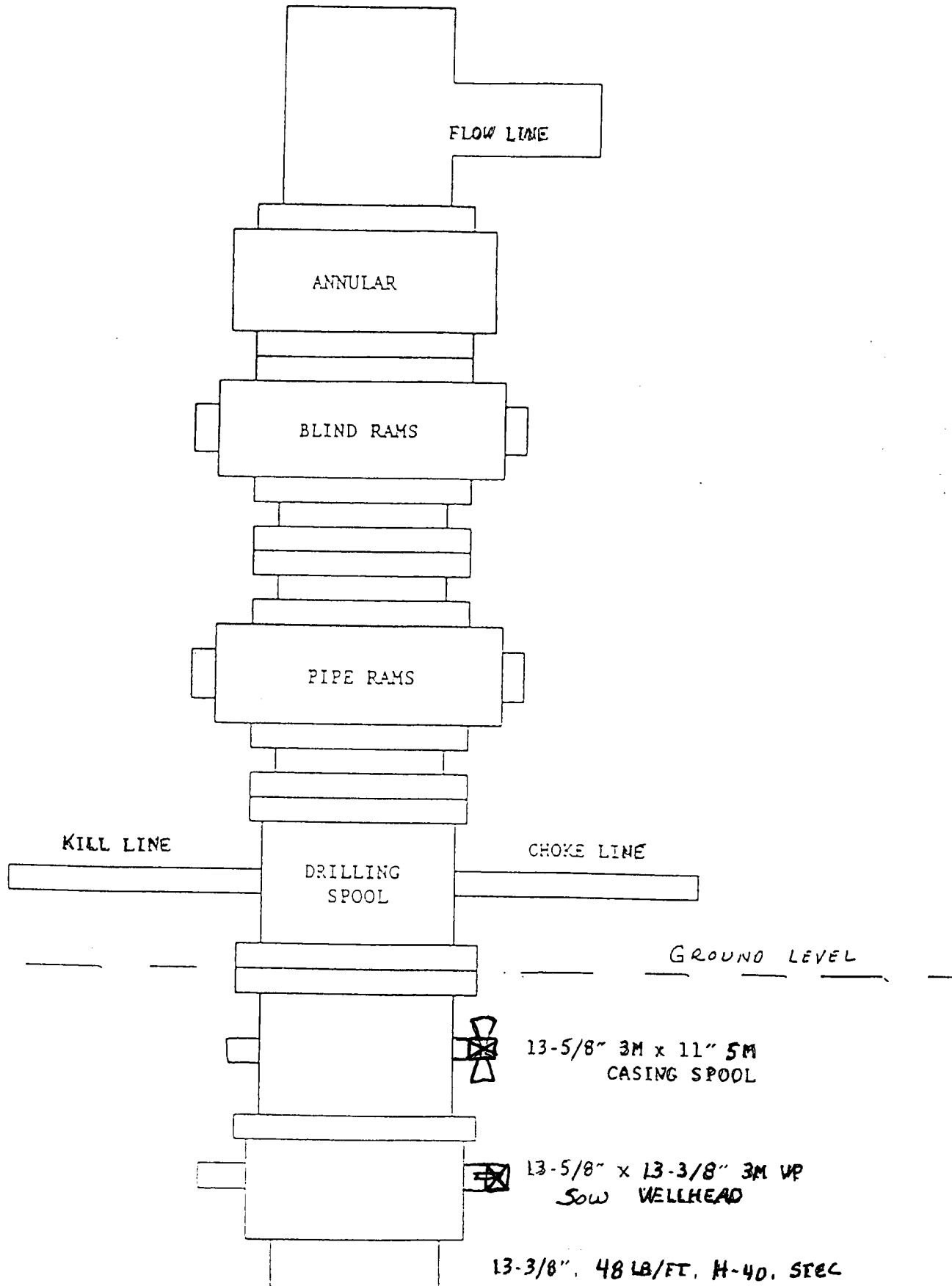
Conditions of Approval:

Attached ☐

# ENERGEN RESOURCES CORPORATION

## BOP EQUIPMENT

HODGE #2



MINIMUM BOP REQUIREMENT 5,000 PSI W.P.

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30.025.37254</b>	Pool Code 59890	Pool Name TRINITY;WOLFCAMP
Property Code 027803	Property Name HODGE	Well Number 2
OGRID No. <b>16298</b>	Operator Name ENERGEN RESOURCES CORPORATION	Elevation 3798'

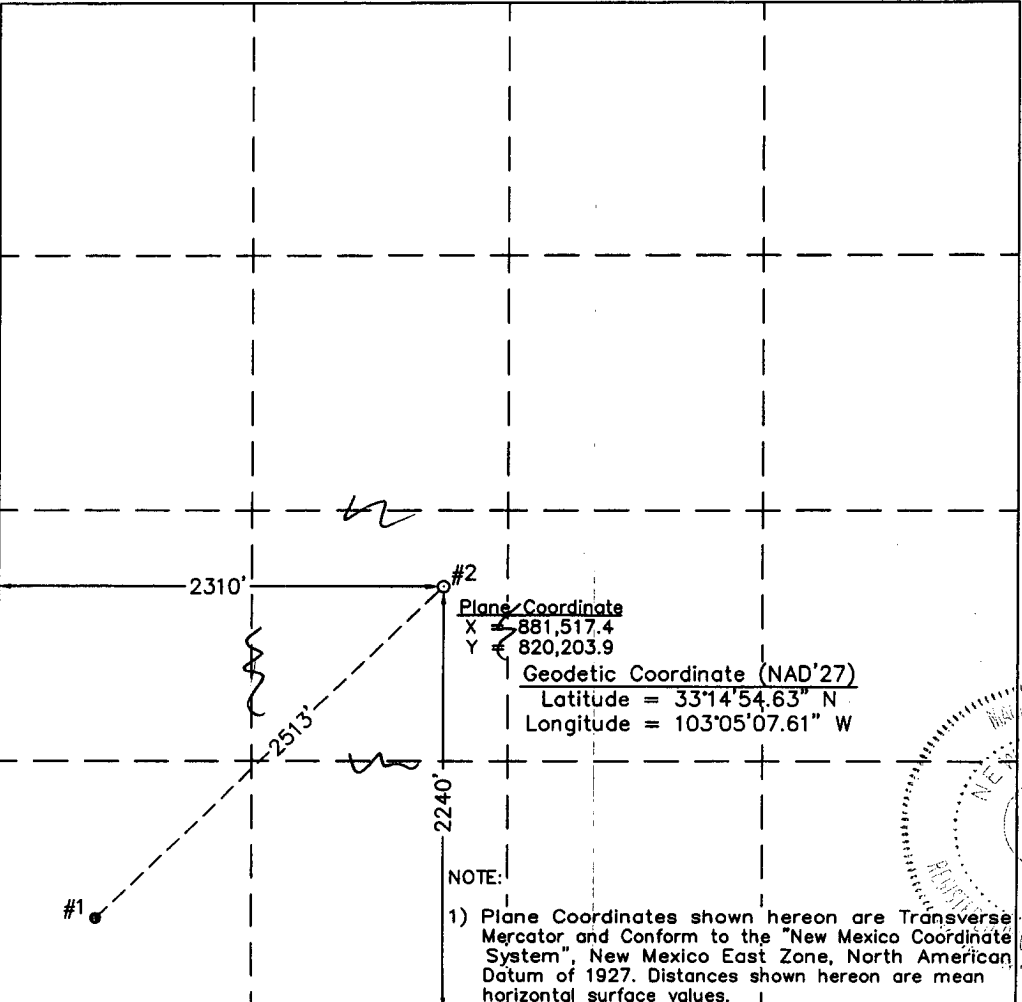
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	27	12 S	38 E		2240	SOUTH	2310	WEST	LEA

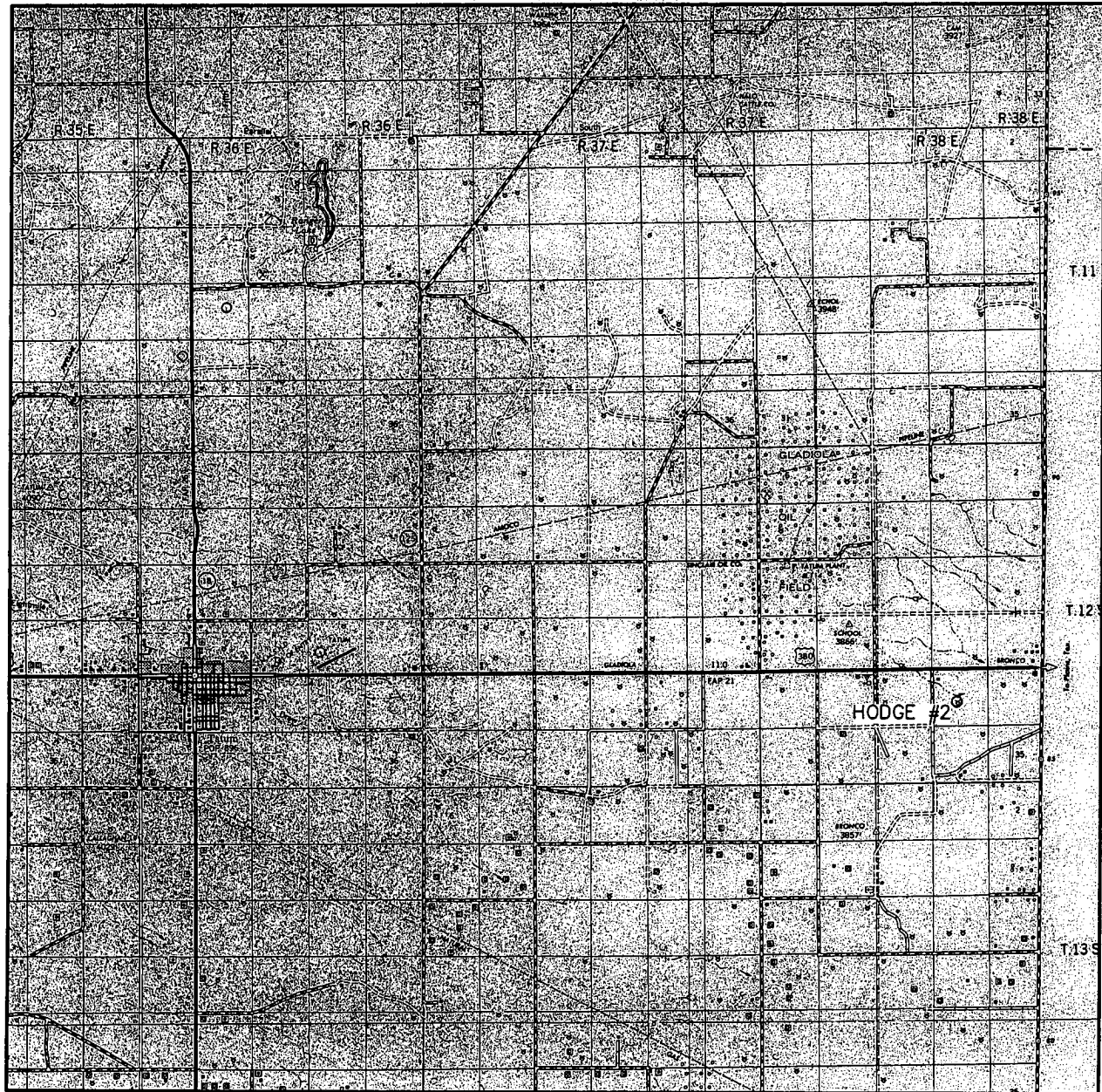
Bottom Hole Location If Different From Surface

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>40</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

 <p>Plane Coordinate X = 881,517.4 Y = 820,203.9 Geodetic Coordinate (NAD'27) Latitude = 33°14'54.63" N Longitude = 103°05'07.61" W</p> <p>NOTE: 1) Plane Coordinates shown hereon are Transverse Mercator and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Carolyn Larson</u> Signature Carolyn Larson Printed Name Regulatory Analyst Title 5-18-05 Date</p> <p>SURVEYOR CERTIFICATION</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>May 10, 2005 Date Surveyed Signature &amp; Seal of Professional Surveyor W.O. Num. 2005-0407 Certificate No. MACON McDONALD 12185</p>
---	---

# VICINITY MAP



SCALE: 1" = 3 MILES

SEC. 27 TWP. 12-S RGE. 38-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 2240' FSL & 2310' FWL

ELEVATION 3798'

OPERATOR ENERGEN RESOURCES CORPORATION

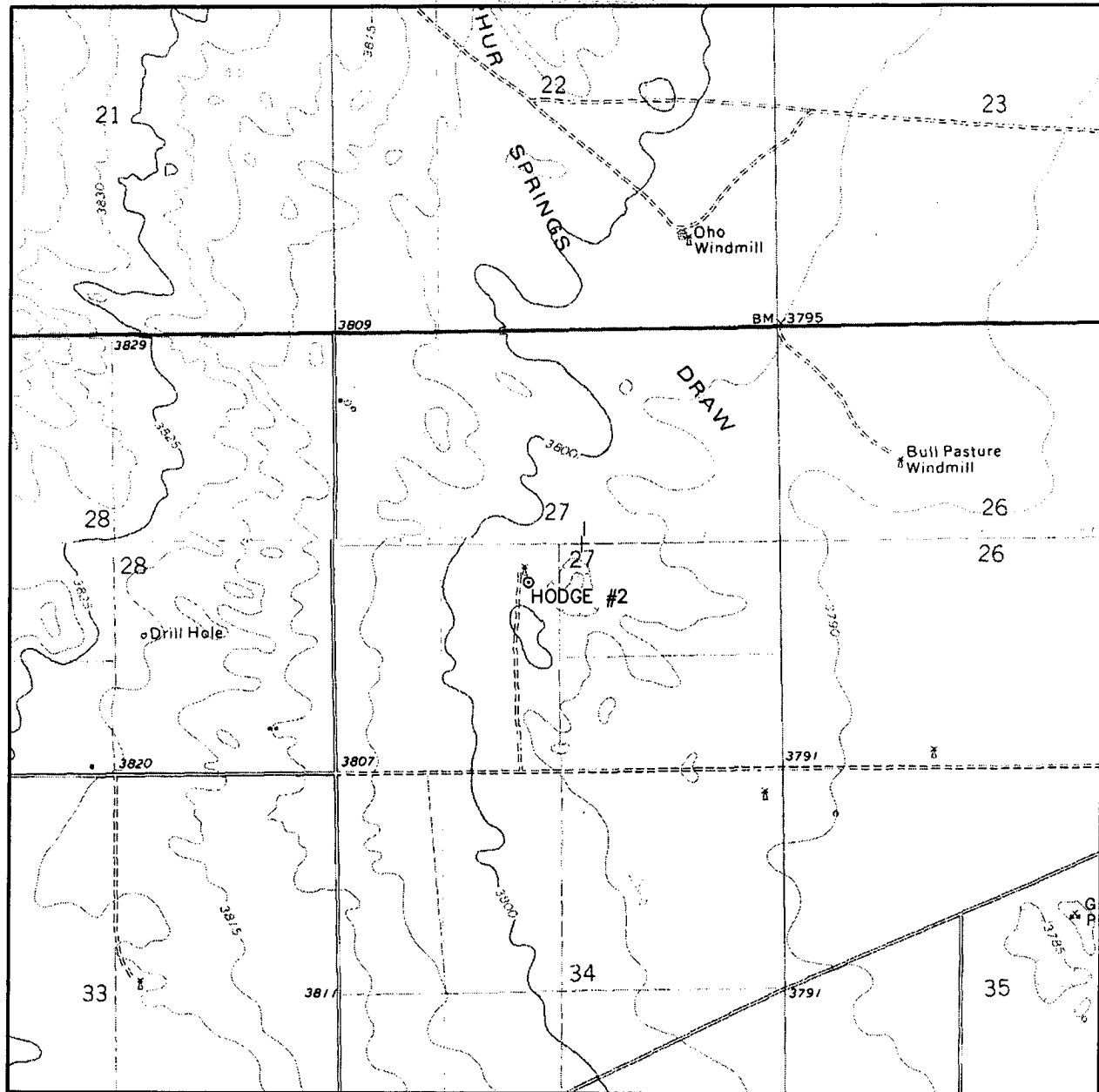
LEASE HODGE



**WEST  
COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701  
(432) 687-0865 - (432) 687-0868 FAX

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
PRARIEVIEW NE- 5'

SEC. 27 TWP. 12-S RGE. 38-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 2240' FSL & 2310' FWL

ELEVATION 3798'

OPERATOR ENERGEN RESOURCES CORPORATION

LEASE HODGE

U.S.G.S. TOPOGRAPHIC MAP  
PRARIEVIEW NE, N.M.



**WEST  
COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701  
(432) 687-0865 - (432) 687-0868 FAX