

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

¹ Operator Name and Address Energen Resources Corporation 3300 N. A St., Bldg. 4, Ste. 100 Midland, TX 79705		² OGRID Number 162928	
⁴ Property Code 34935		³ API Number 30-025-37362	
⁵ Property Name TEXAS DEEP STATE		⁶ Well No. 1	
⁹ Proposed Pool 1 Wildcat <i>Devonian</i>		¹⁰ Proposed Pool 2	

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	3	15-S	33-E		1810	North	2210	West	Lea

⁸ 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

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4194'
¹⁶ Multiple No	¹⁷ Proposed Depth 14,000	¹⁸ Formation Siluro-Devonian	¹⁹ Contractor Unknown	²⁰ Spud Date ASAP
Depth to ground water 95'		Distance from nearest fresh water well 3900'		Distance from nearest surface water 3425'
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume 12M 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"/>				

²¹ 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'	400	Surface
12-1/4"	9-5/8"	40.00#	6,000'	2,000	Surface
8-3/4"/7-7/8"	5-1/2"	17.00#	14,000'	1,500	5,500'

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

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.

Plan to drill a 17-1/2" hole to approx. 400', run 13-3/8" 48.00# 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" hole to approx. 6,000'; run 9-5/8" 40.00# casing and attempt to cement to surface. Will then NU and test the same BOP stack and drill an 8-3/4"/7-7/8" hole to approx. 14,000'. 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 9-5/8" intermediate casing. If non-commercial, will P&A as per the OCD's requirements.

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 ☐.
Signature: *Carolyn Larson*

Printed name: Carolyn Larson

Title: Regulatory Analyst

E-mail Address: clarson@energen.com

Date: 7-11-05

Phone: (432) 684-3693

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

JUL 14 2005

PETROLEUM ENGINEER

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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-37362	Pool Code 97455	Pool Name Wildcat Devonian
Property Code 34935	Property Name TEXAS DEEP STATE	Well Number 1
OGRID No. 162928	Operator Name ENERGEN RESOURCES CORPORATION	Elevation 4194'

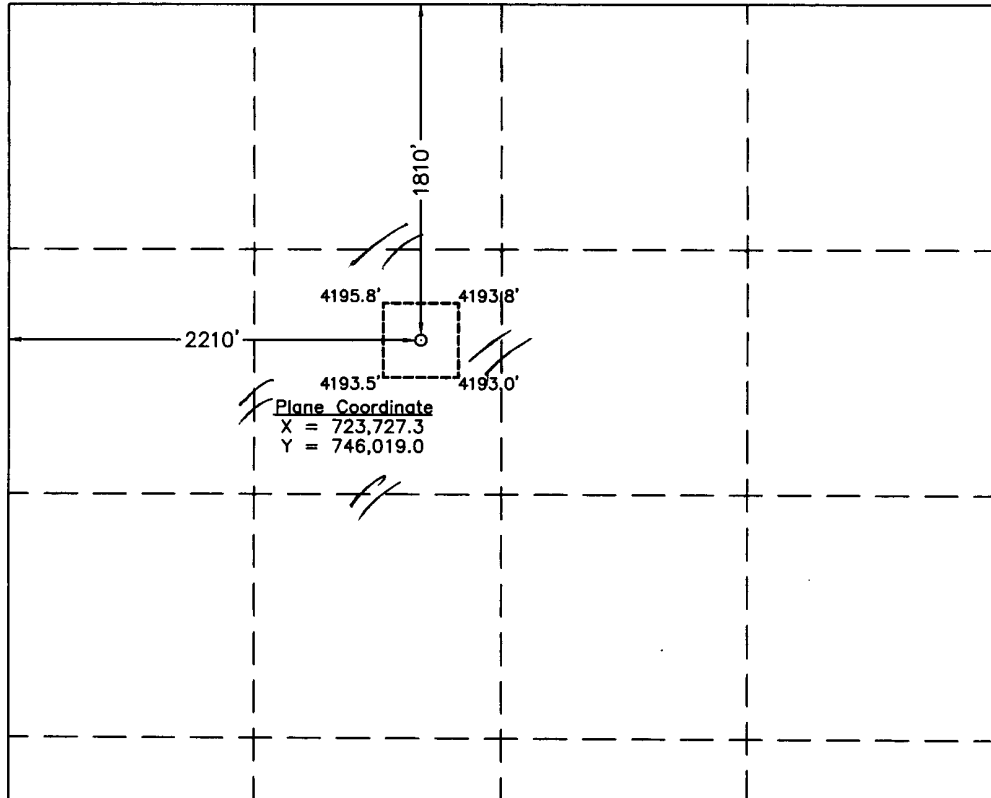
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	3	15 S	33 E		1810	NORTH	2210	WEST	LEA

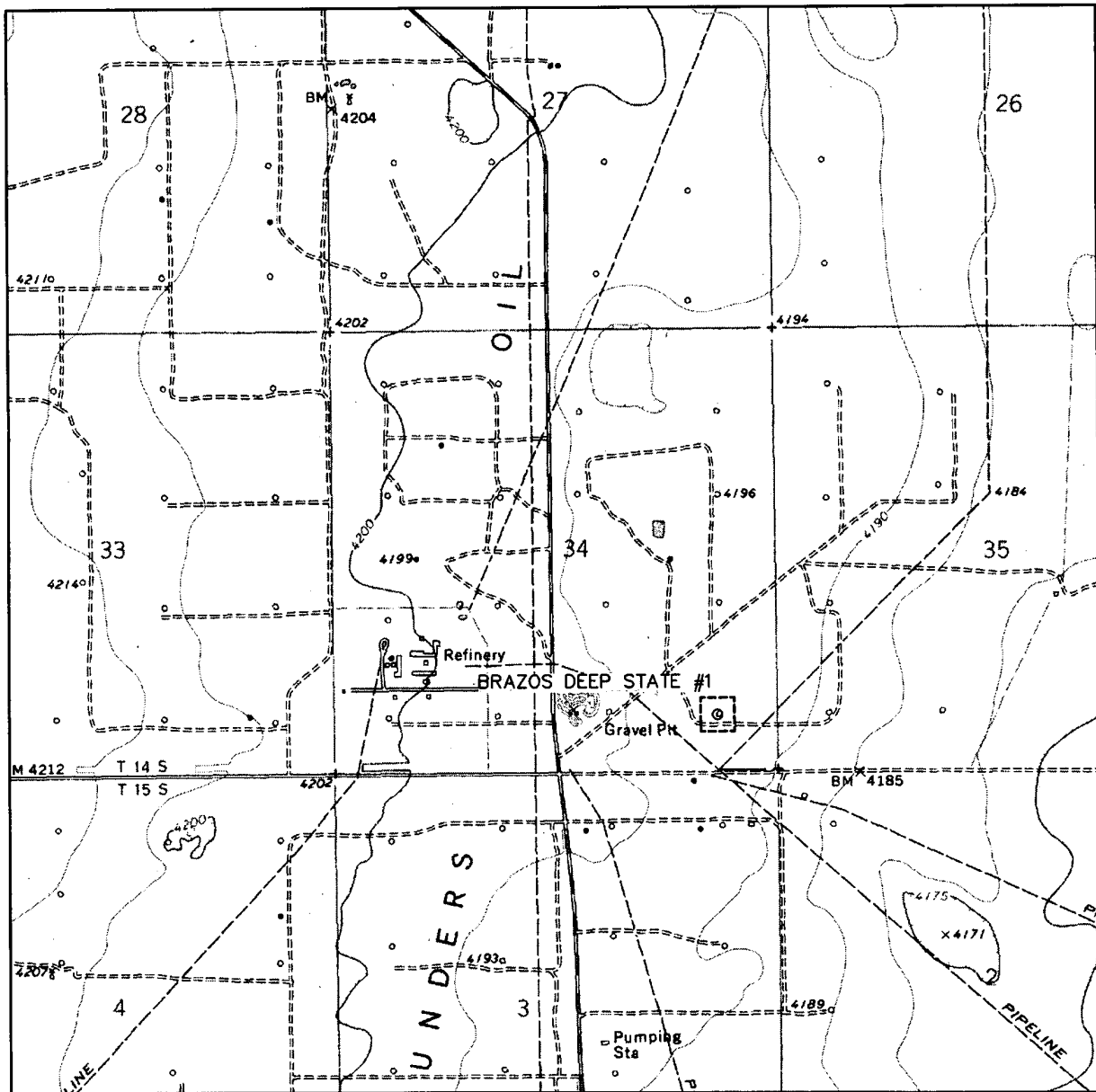
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	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>NOTE:</p> <p>1) Plane Coordinates shown hereon are Transverse Mercator Grid 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><i>Carolyn Larson</i> Signature</p> <p>Carolyn Larson Printed Name</p> <p>Regulatory Analyst Title</p> <p>7-11-05 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 upervison and that the same is true and orrect to the best of my belief.</p> <p>June 22, 2005 Date Surveyed</p> <p>Signature & Seal of Professional Surveyor</p> <p>W.O. Num. 2005-0575</p> <p>Certificate No. MACON McDONALD 12185</p>
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LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
FORT RANCH - 5'

SEC. 34 TWP. 15-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 660' FSL & 710' FEL

ELEVATION 4192'

OPERATOR ENERGEN RESOURCES CORPORATION

LEASE BRAZOS DEEP STATE

U.S.G.S. TOPOGRAPHIC MAP

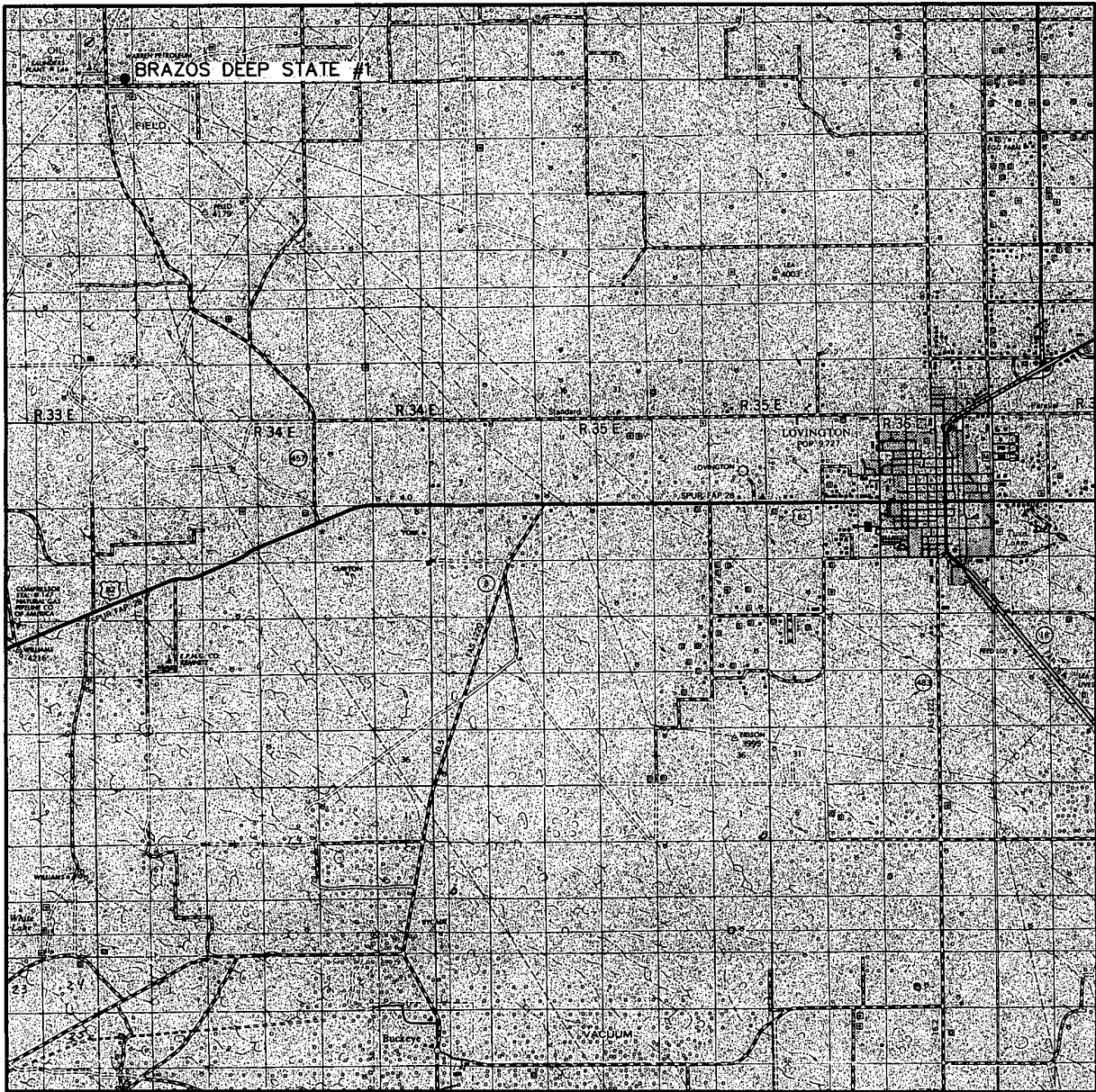
FORT RANCH, N.M.



**WEST
COMPANY**
of Midland, Inc.

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

VICINITY MAP



SCALE: 1" = 3 MILES

SEC. 34 TWP. 14-S RGE. 33-E

SURVEY _____ N.M.P.M.

COUNTY _____ LEA

DESCRIPTION 660' FSL & 710' FEL

ELEVATION 4192'

OPERATOR ENERGEN RESOURCES CORPORATION

LEASE BRAZOS DEEP STATE



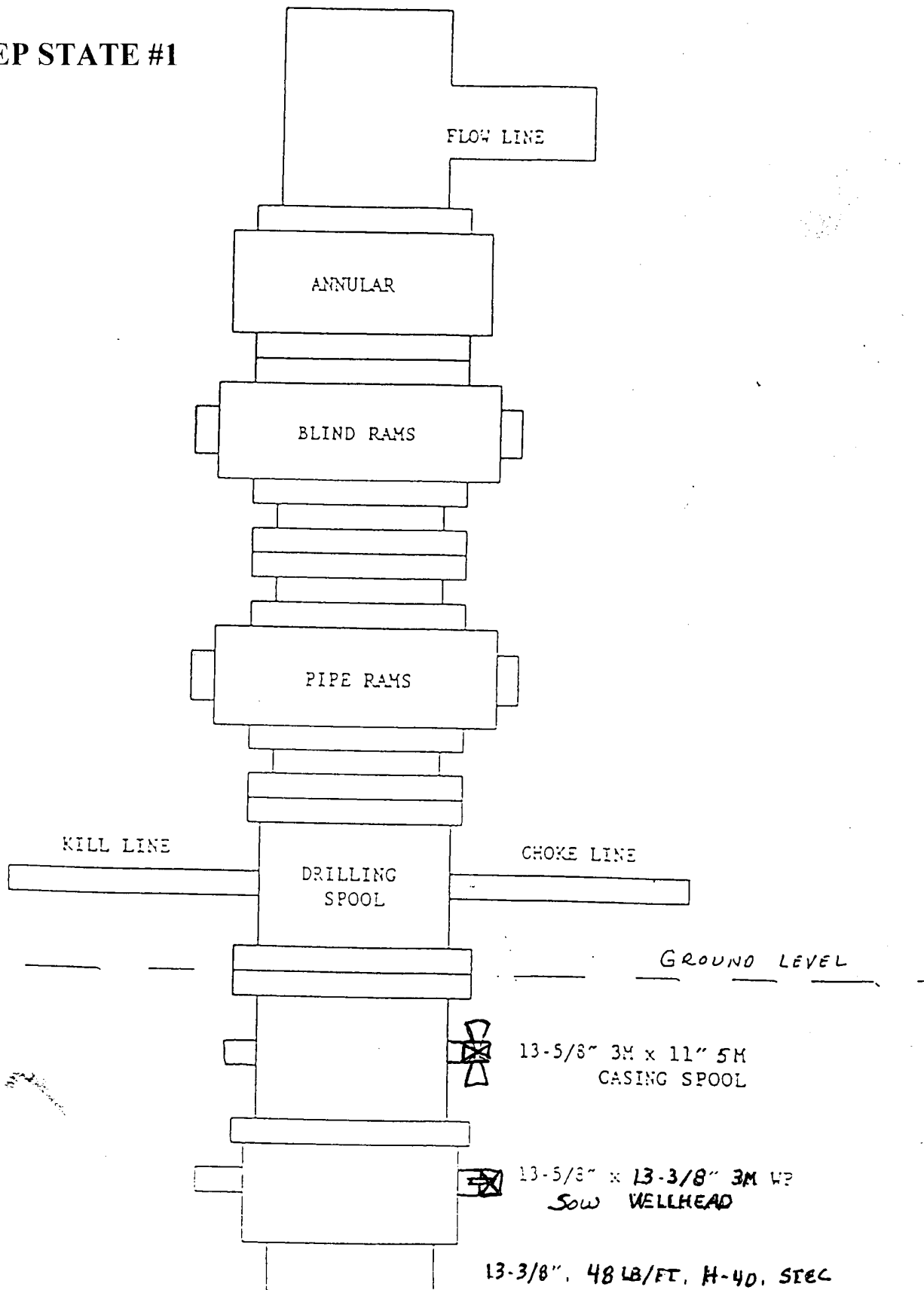
**WEST
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ENERGEN RESOURCES CORPORATION

BOP EQUIPMENT

TEXAS DEEP STATE #1



MINIMUM BOP REQUIREMENT 5,000 PSI W.P.