

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

¹ Operator Name and Address Energen Resources Corporation 3300 N. A St., Bldg. 4, Ste. 100 Midland, Tx 79705		² OGRID Number 162928
³ Property Code 34275	⁴ Property Name SAUNDERS DEEP STATE	⁵ API Number 30-025-36859
⁹ Proposed Pool 1 Wildcat		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no. A	Section 3	Township 15-S	Range 33-E	Lot Idn	Feet from the 420	North/South line North	Feet from the 940	East/West line East	County Lea
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Lot 1

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
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Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code 0	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4192'
¹⁶ Multiple No	¹⁷ Proposed Depth 14,000'	¹⁸ Formation Siluro-Devonian	¹⁹ Contractor Unknown	²⁰ Spud Date ASAP
Depth to Groundwater 95'		Distance from nearest fresh water well 1320'		Distance from nearest surface water 3321'
Pit: Liner: Synthetic X 12 mils thick Clay ☐ Pit Volume: 10M bbls Drilling Method:				
Closed-Loop System ☐ Fresh Water X Brine X Diesel/Oil-based ☐ Gas/Air ☐				

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'

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 400'+, run 13-13/8" 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 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 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 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 ☐.

Printed name: Carolyn Larson

Title: Regulatory Analyst

E-mail Address: clarson@energen.com

Date: 9-10-04

Phone: 432/684-3693

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY

PAUL F. KAUTZ

Title:

PETROLEUM ENGINEER

Approval Date:

9/13/04

Expiration Date:

Conditions of Approval Attached ☐

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 <i>30-025-36859</i>	Pool Code	Pool Name <i>Wildcat; Devonian</i>
Property Code <i>34275</i>	Property Name SAUNDERS DEEP STATE	Well Number 1
OGRID No. 162928	Operator Name ENERGEN RESOURCES CORPORATION	Elevation 4192'

Surface Location

UL or lot No. A	Section 3	Township 15 S	Range 33 E	Lot Idn	Feet from the 420	North/South line NORTH	Feet from the 940	East/West line EAST	County LEA
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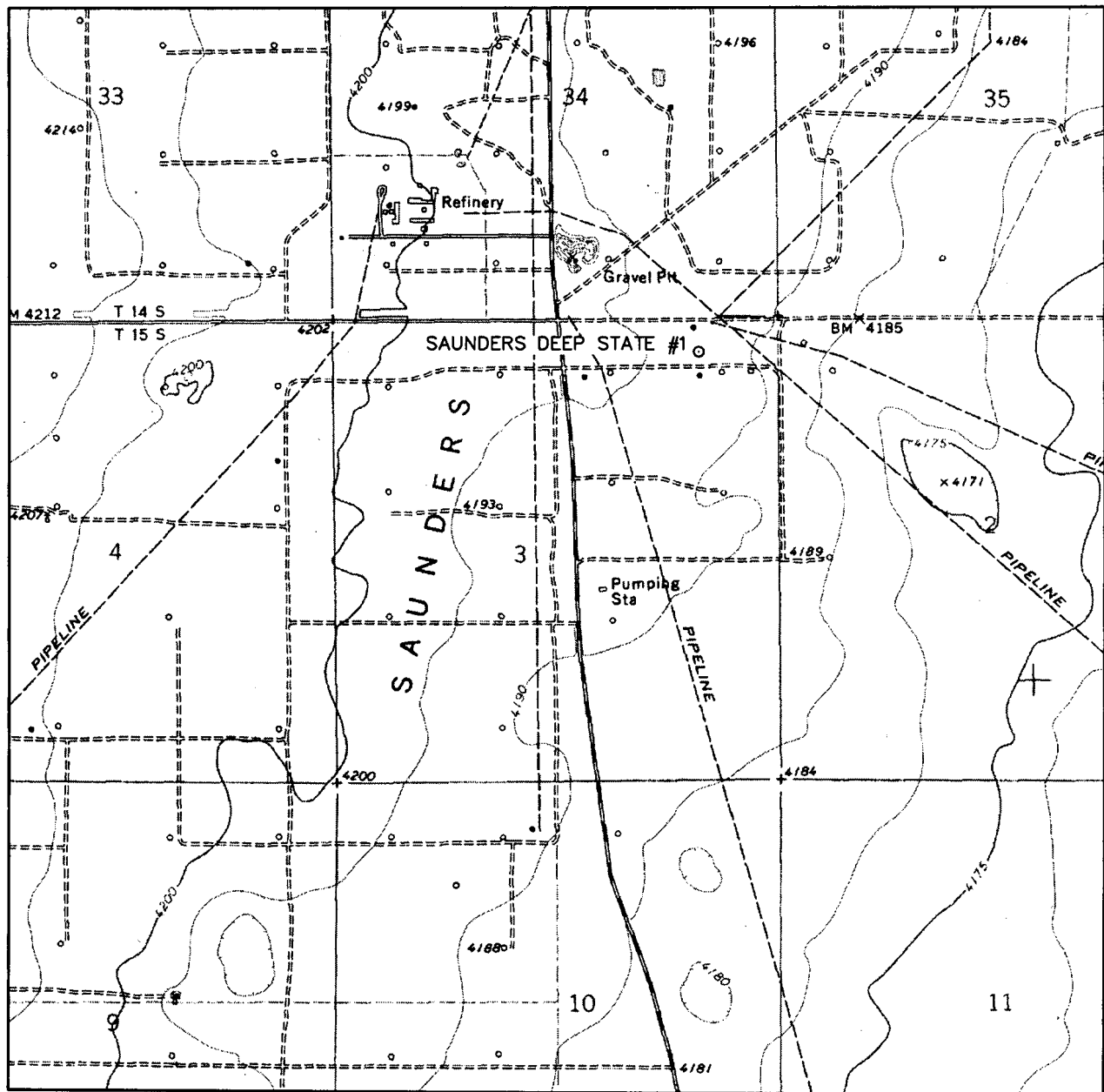
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 48.52	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

NOTE: 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.	Plane Coordinate X = 725,852.7 Y = 747,423.8 <i>Shares location: State 'E' #1 in Permian Super Perm</i>	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Carolyn Larson</i> Signature Carolyn Larson Printed Name Regulatory Analyst Title September 10, 2004 Date
	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 upervision and that the same is true and orrect to the best of my belief. September 2, 2004 Date Surveyed Signature & Seal of Professional Surveyor W.O. Num. 2004-0638 Certificate No. MACON McDONALD 12185	

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
FORT RANCH - 5'

SEC. 3 TWP. 15-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 420' FNL & 940' FEL

ELEVATION 4192

OPERATOR ENERGEN RESOURCES CORPORATION

LEASE SAUNDERS DEEP STATE

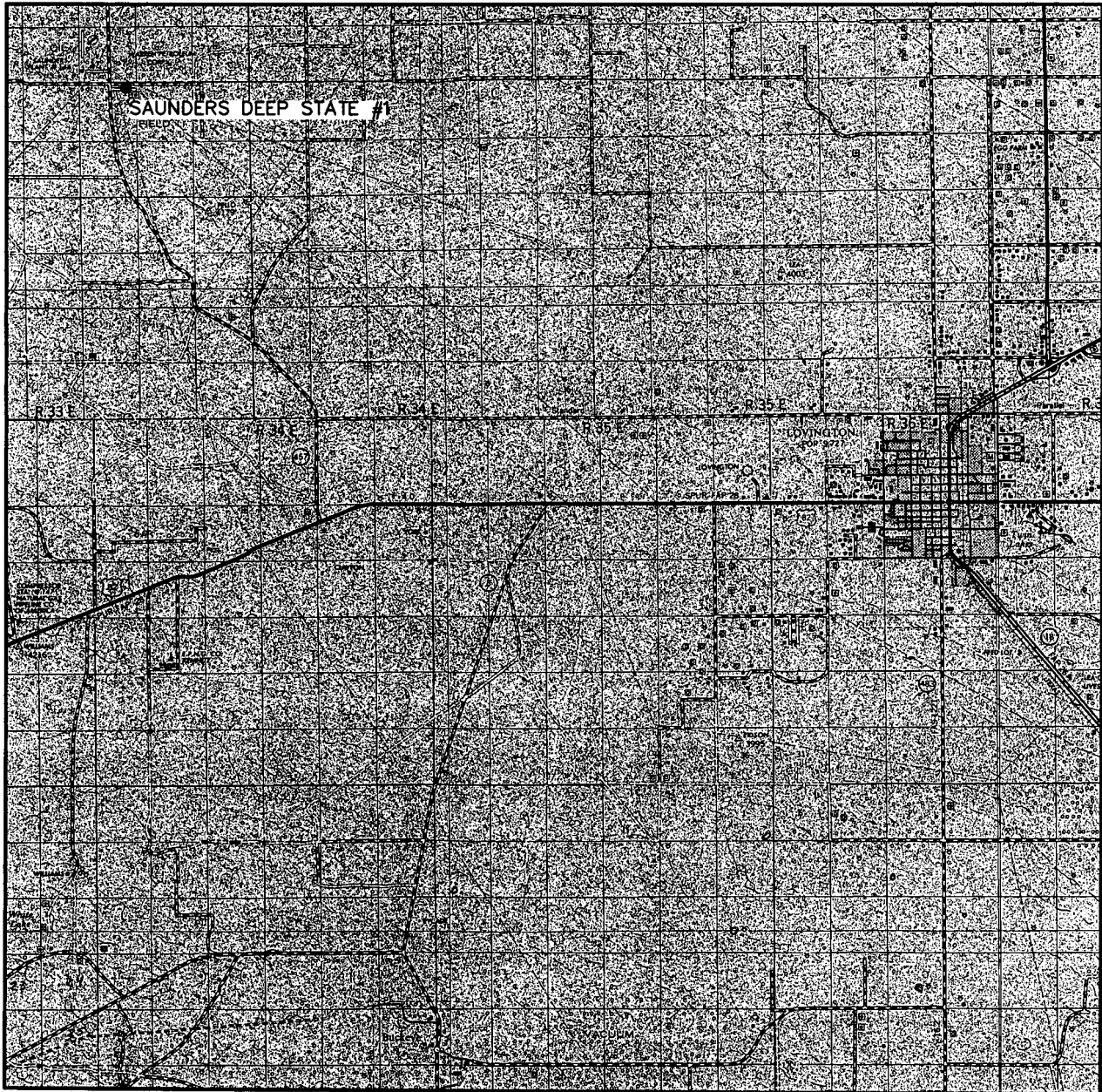
U.S.G.S. TOPOGRAPHIC MAP
FORT RANCH, N.M.



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. 3 TWP. 15-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 420' FNL & 940' FEL

ELEVATION 4192

OPERATOR ENERGEN RESOURCES CORPORATION

LEASE SAUNDERS DEEP STATE



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