

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Southwestern Energy Production Company 2350 North Sam Houston Parkway East, Suite 300 Houston, TX 77032		² OGRID Number 148111
		³ API Number 30-025-35025
³ Property Code 25747	⁵ Property Name Victoria "28" State Com.	⁶ Well No. 1

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
P	28	21S	35E		950	South	1100	East	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

⁹ Proposed Pool 1

Grama Ridge Morrow East (Gas)

¹⁰ Proposed Pool 2

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3,614'
¹⁶ Multiple N	¹⁷ Proposed Depth 12,800'	¹⁸ Formation Morrow	¹⁹ Contractor Patterson	²⁰ Spud Date 05/08/00

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"		40'	Ready Mix	Surface
17 1/2"	13 3/8"	61#	1,200'	1035	Surface
12 1/4"	9 5/8"	40#	5,600'	1,125	1,200'
8 1/2"	7"	26#	11,800'	860	4,800'
6 1/8"	4 1/2"	13.5#	12,800'	150	11,300'

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.

SEE ATTACHMENT

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Cathy Rowan

Printed name: **Cathy Rowan**

Title: **Drilling Technician**

Date: **May 2, 2000**

Phone: **281-618-4733**

OIL CONSERVATION DIVISION

Approved by:

DRILLING SUPERVISOR

Approval Date:

MAY 10 2000

Expiration Date:

Conditions of Approval:

Attached ☐

GENERAL DRILLING PROGRAM- Attachment to Form C-101

Southwestern Energy Production Company- Victoria "28" State Com. #1
950' FSL 1100' FEL Section 28-T21S-R35E
Lea County, New Mexico

Elevation: 3614' GR

Proposed Total Depth: 12,800'

Estimated Formation Tops

Anhydrite	1825'
B/Salt	3557'
Yates	3800'
Cherry Canyon	6026'
Bone Spring	7746'
Wolfcamp	10,540'
Strawn	11,085'
B. Strawn	11,660'
Atoka	11,850'
Morrow	12,330'

Casing/Cement Program

<u>Hole Size</u>	<u>Casing Size/Weight/Grade</u>	<u>Setting Depth</u>	<u>Cement</u>	<u>Est. TOC</u>
	20" Conductor pipe	40'	ready mix	surface
17-1/2"	13-3/8" 61# J-55 ST&C	1200'	Lead: 800 sx 35:65 Poz: Class C + 6% D20+ 0.25 pps D29 Tail: 235 sx Class C+ 2% S1 +0.25 pps D29	surface
12-1/4"	9-5/8" 40# N-80/K-55 LT&C	5600'	Lead: 925 sx 35:65 Poz: Class C + 6% D20+0.25 pps D29 Tail: 200 sx Class C Neat	1200'
8-1/2"	7" 26# HCP-110 LT&C	11,800'	860 sx 50:50 Poz: Class H + 6% D44 +2% D20+0.4% D59	4800'
6-1/8"	4-1/2" 13.5# HCP-110 LT&C liner 11,500'-12,800'	12,800'	150 sx Class H+1 gps D600+0.03 gps M45+0.1 gps D801+0.05 gps D604AM	11,300'

Drilling Fluids Program

<u>Depth</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Comments</u>
0-1200'	8.4-8.8	32-34	NC	fresh gel, caustic, paper
1200'-5600'	9.9-10.0	28-30	NC	cut brine water, lime, paper Star NP-110
5600'-11,800'	9.0-9.5	28-32	NC	fresh/cut brine, caustic, paper Star NP-110
11,800'-12,800'	10.0-12.0	38-45	<10 cc	xanthan gum, white starch, caustic, barite if needed

Blowout Prevention Program- Attachment to Form C-101

0-1200'	20" 2000# annular preventer system.
1200'-5600'	13-5/8" 3000# double ram type preventers and a 3000# annular preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Test BOP to 1000 psi.
5600'-11,800'	11" 10,000# triple ram type preventers, 5000# annular preventer and rotating head body. Test BOP to 3000 psi. Install hydraulic drilling choke and mud/gas separator prior to 11,000'.
11,800'-12,800'	11" 10,000# triple ram type preventers, 5000# annular preventer and rotating head body. Test all rams, choke manifold, kill line, upper and lower kelly valves to 10,000 psi. Test annular BOP to 3000 psi.

Any equipment failing to test satisfactorily, will be repaired or replaced. Results of the BOP test will be recorded in the Driller's Log.

The BOP's will be maintained ready for use until drilling operations are completed. BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulator shall maintain a pressure capacity reserve at all times to provide for the close-open-close sequence of the blind and pipe rams of the hydraulic preventers.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer 88, Artesia, NM 88211-0719

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35025	Pool Code 77690	Pool Name Grana Ridge; Morrow East
Property Code 25747	Property Name VICTORIA "28" STATE COM.	Well Number 1
OGRID No. 148111	Operator Name SOUTHWESTERN ENERGY PRODUCTION CO.	Elevation 3614

Surface Location

UL or lot No. P	Section 28	Township 21 S	Range 35 E	Lot Idn	Feet from the 950	North/South line SOUTH	Feet from the 1100	East/West line EAST	County LEA
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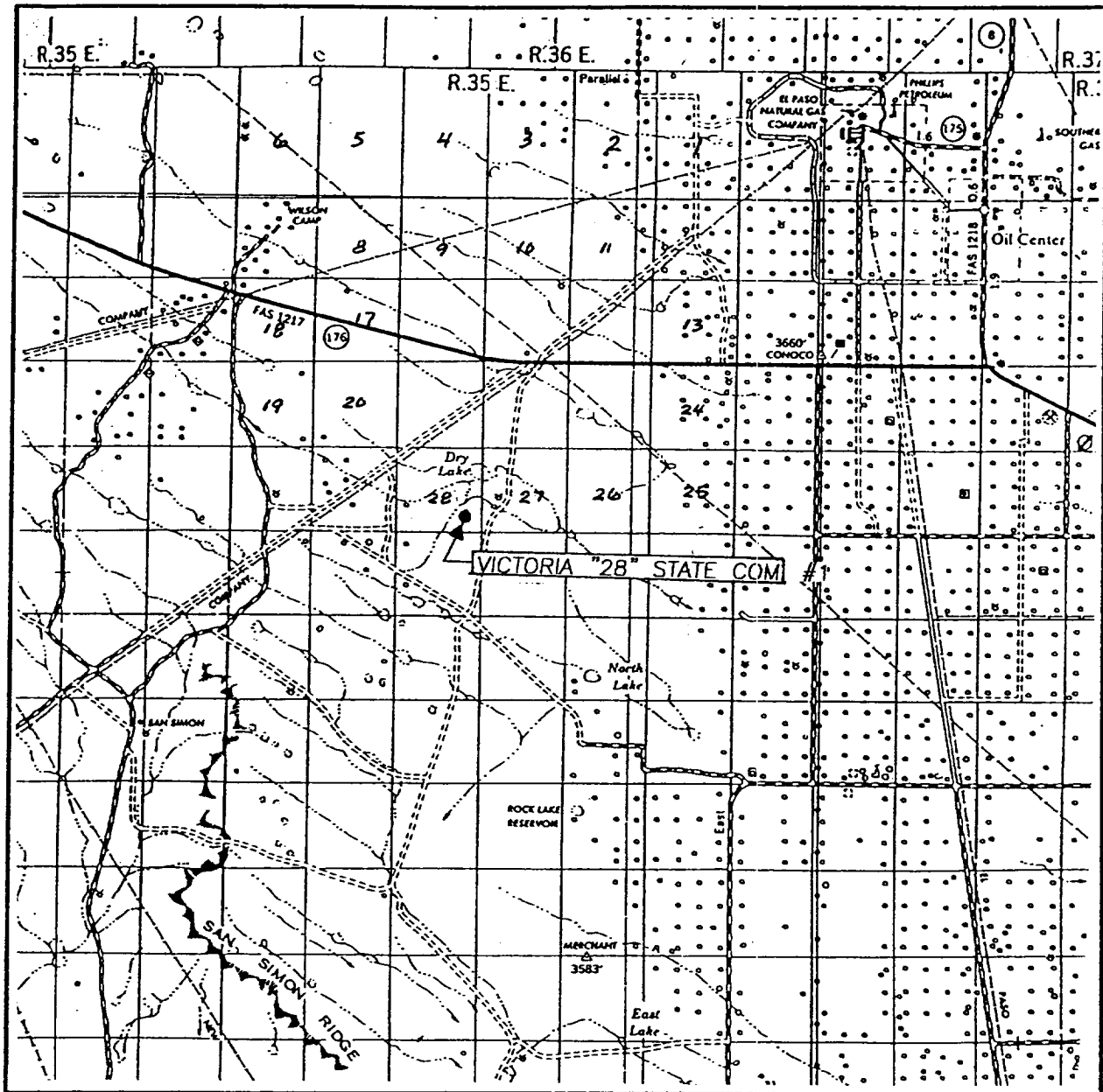
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Cathy Rowan Printed Name Drilling Technician Title 5/2/00 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 supervision and that the same is true and correct to the best of my belief. APRIL 20, 2000 Date Surveyed Signature & Seal of Professional Surveyor RONALD E. EDSON Cert. No. 8228 GARY EDSON WASON EDONALD
	LMP 3239 12641 12185

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 28 TWP. 21-S RGE. 35-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 950' FSL & 1100' FEL

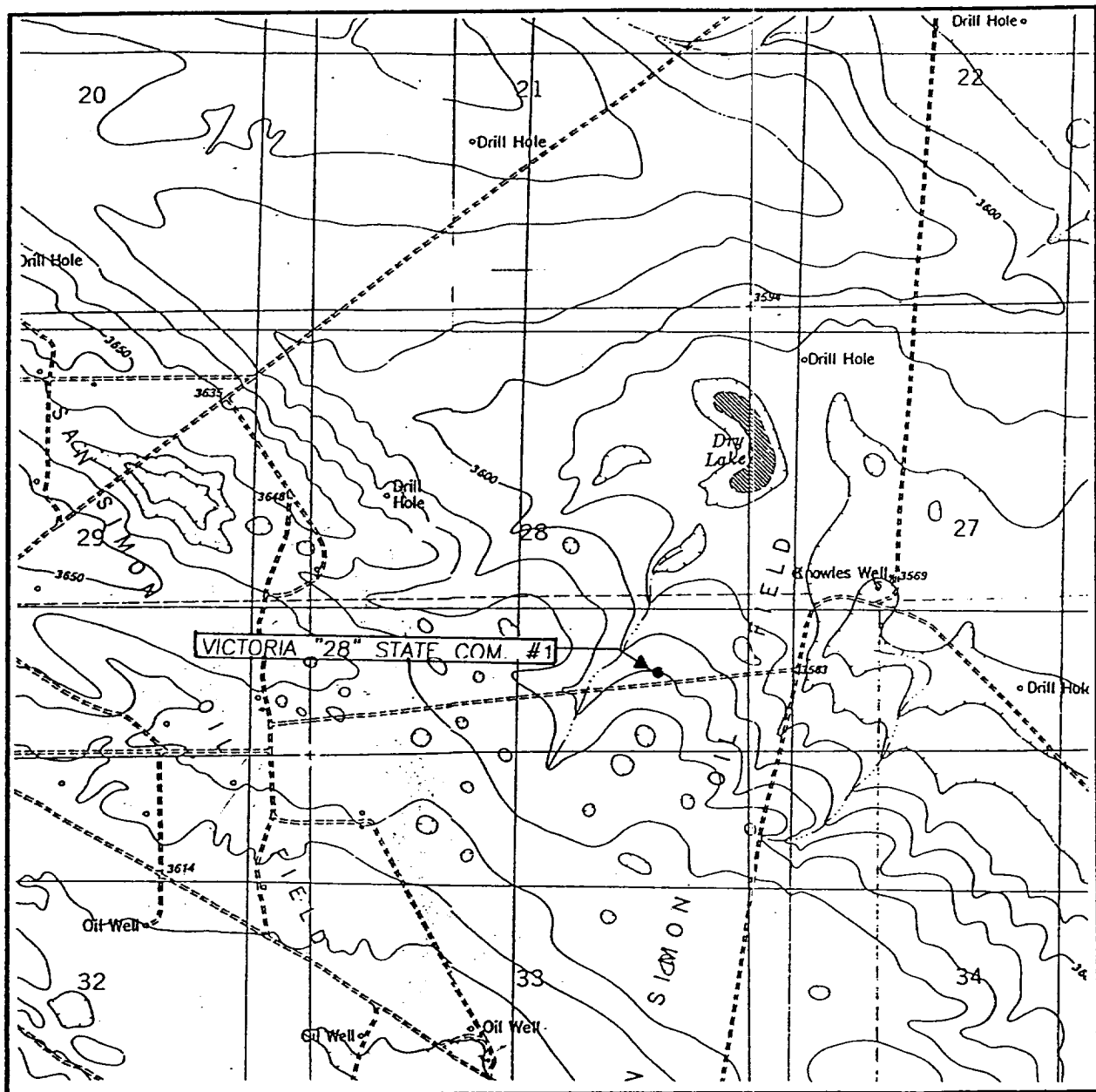
ELEVATION 3614

OPERATOR SOUTHWESTERN ENERGY PRODUCTION CO.

LEASE VICTORIA "28" STATE COM.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
OIL CENTER, N.M. - 10'

SEC. 28 TWP. 21-S RGE. 35-E

SURVEY _____ N.M.P.M. _____

COUNTY _____ LEA _____

DESCRIPTION 950' FSL & 1100' FEL

ELEVATION 3614

OPERATOR SOUTHWESTERN ENERGY PRODUCTION CO.

LEASE VICTORIA "28" STATE COM.

U.S.G.S. TOPOGRAPHIC MAP
OIL CENTER, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED

ELF

5/1/00

Received
Hobbs
000