

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
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 77031		² OGRID Number 148111
		³ API Number 30-015-32569
³ Property Code 31030	⁵ Property Name Eagle "4" State	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
I	4	25S	28E		2310	South	660	East	Eddy

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
H	4	25S	28E		330	South	660	East	Eddy

⁹ Proposed Pool 1

~~Cherry Canyon~~

¹⁰ Proposed Pool 2

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 2,987'
¹⁶ Multiple N	¹⁷ Proposed Depth 6611'MD/4795'TVD	¹⁸ Formation Cherry Canyon	¹⁹ Contractor Patterson	²⁰ Spud Date Jan 2003

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
12 1/4"	9 5/8"	36#	550'	350	Surface
8 3/4"	5 1/2"	17#	5013'	270	3,500'

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data of zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Cement to cover all oil, gas and water bearing zones.

SEE ATTACHMENT

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

Signature:

Printed name: **Vonnie J. Cermin**

Title: **Production Analyst**

Date: **December 19, 2002**

Phone: **281-618-4739**

OIL CONSERVATION DIVISION

Approved by: **ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR**

Approval Date: **JAN 03 2003** Expiration Date: **JAN 03 2004**

Conditions of Approval:

Attached ☐

GENERAL DRILLING PROGRAM- Attachment to Form C-101

Southwestern Energy Production Company- Eagle "4" State #1
Surface location : 2310' FSL 660' FEL
Bottom hole location : 330' FSL 660' FEL end of horizontal lateral
Proposed point of entry (CC6) prod. zone: 1928' FSL 660' FEL @ 5013' MD / 4795' TVD
Proposed completion as 1598' open horizontal lateral
Section 4-T25S-R28E
Eddy County, New Mexico

NOTE: Plan to drill as 5000' TVD straight hole, plug back w/ cement plug and sidetrack as horizontal.

Elevation: 2987' GR / 3002' RKB

Proposed Total Depth: 6611' MD / 4795' TVD'

Estimated Formation Tops

Rustler	525'
Salt	1000'
Bell Canyon	2576'
Cherry Canyon	3384'
Cherry Canyon Mrkr	4770'
Cherry Canyon 6 Sand	4790'

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
12-1/4"	9-5/8" 36# J-55 ST&C	550'	350 sx Class C+ 2% S1 + 0.25 pps D29	surface
7-7/8"	5-1/2" 17.0# N-80 BTC	5013'	Lead: 110 sx 35:65 Poz:C +5% D44 Tail: 160 sx 50:50 Poz: Class C + 3% D44 +1.5 gps D600 + 0.05 gps D604AM+0.05 gps D47 + 3% D174	3400'

Drilling Fluids Program

<u>Depth</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Comments</u>
0-550'	8.6-9.0	32-36	NC	spud mud, paper
550'-5013'	10.0-10.1	28-29	NC-20 cc	brine, lime, paper, Star NP 110, xanthan gum sweeps
5013'-6611'	8.4 - 8.5	28-29	NC	fresh water, caustic, xanthan gum sweeps, Ultra Lube II

Blowout Prevention Program- Attachment to Form C-101

0'-550' 20" 2000# annular preventer system.

550'-5013' 11" 5000# double ram type preventers, 5000# annular preventer and rotating head body. Test all rams choke manifold, kill line upper and lower kelly valves to 5000 psi. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system.

5013'-6611' 11" 5000# double ram type preventers, 5000# annular preventer and rotating head body. Test all rams choke manifold, kill line upper and lower kelly valves to 5000 psi. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system.

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
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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87506

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
Property Code	Property Name EAGLE "4" STATE		Well Number 1
OGRID No.	Operator Name SOUTHWESTERN ENERGY PRODUCTION COMPANY		Elevation 2987'

Surface Location

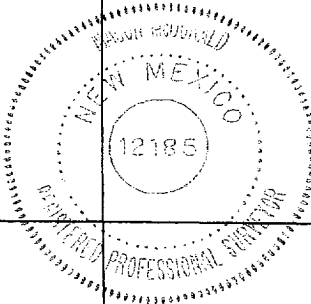
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	4	25 S	28 E		2310	SOUTH	660	EAST	EDDY

Bottom Hole Location If Different From Surface

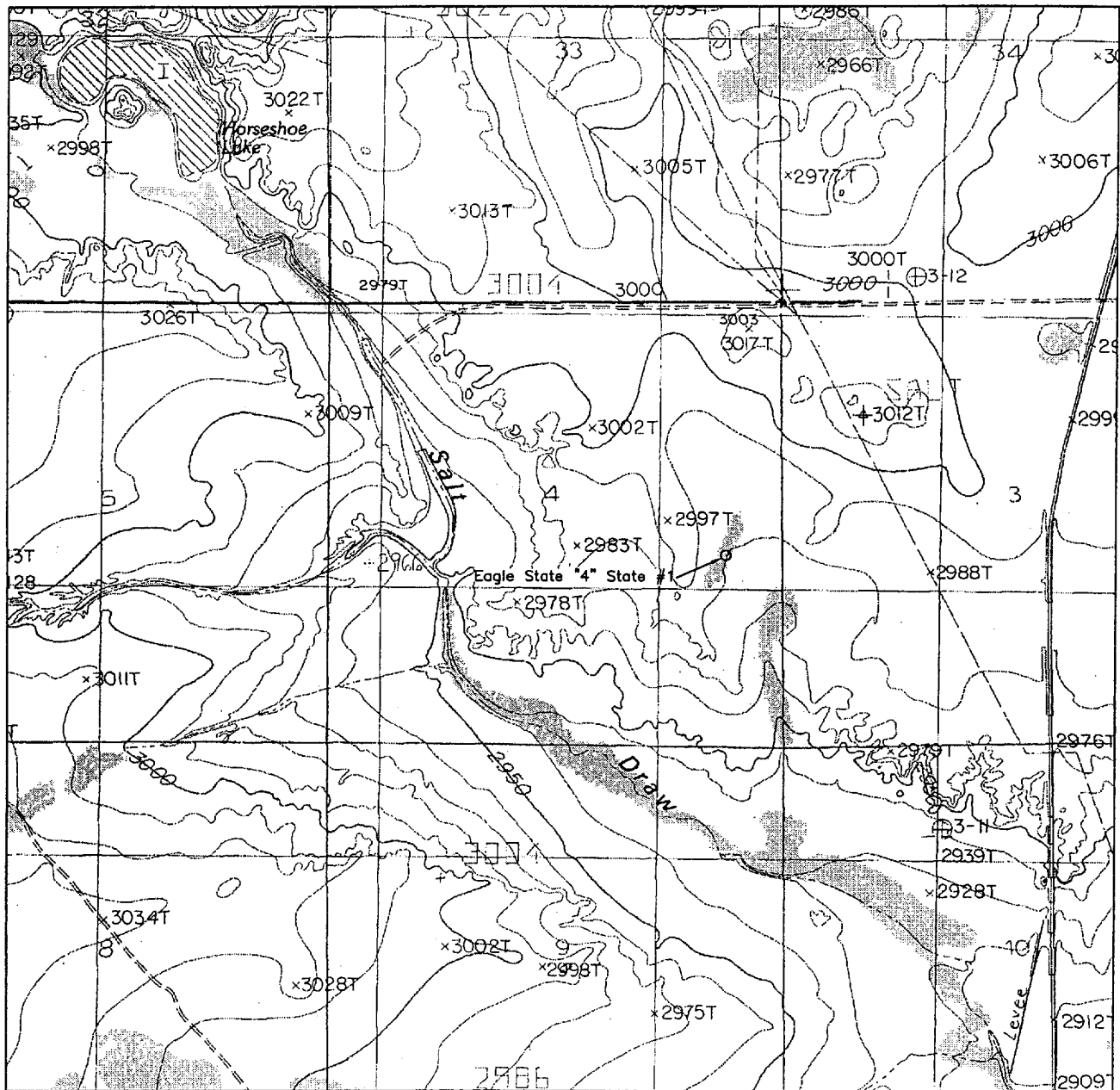
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	25 S	28 E		330	SOUTH	660	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

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, and Conform to the "New Mexico Coordinate System", New Mexico East Zone. Distances shown hereon are mean horizontal surface values.	<u>S 0°12'19" E</u> 350.0' <u>Plane Coordinate</u> X = 576,711.9 Y = 421,277.1 <u>S 0°12'19" E</u> 330.0' <u>Plane Coordinate</u> X = 576,719.3 Y = 419,297.4
OPERATOR CERTIFICATION <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature VONNIE J. CERMIN Printed Name DRILLING TECH Title 12/19/02 Date SURVEYOR CERTIFICATION <i>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.</i> December 16, 2002 Date Surveyed Signature & Seal of Professional Surveyor  LVA W.O. Num. 2002-0808 Certificate No. MACON McDONALD 12185	

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'
MALAGA, NM

SEC. 4 TWP. 25-S RGE. 28-E

SURVEY _____ N.M.P.M.

COUNTY _____ EDDY

DESCRIPTION 2310' FSL & 660' FEL

ELEVATION 2987

OPERATOR SOUTHWESTERN ENERGY
PRODUCTION CO.

LEASE EAGLE "4" STATE

U.S.G.S. TOPOGRAPHIC MAP
MALAGA, NM

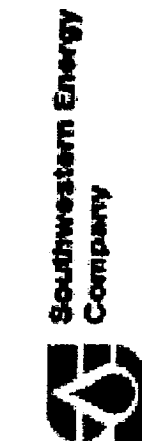


**WEST
COMPANY**
of Midland, Inc.

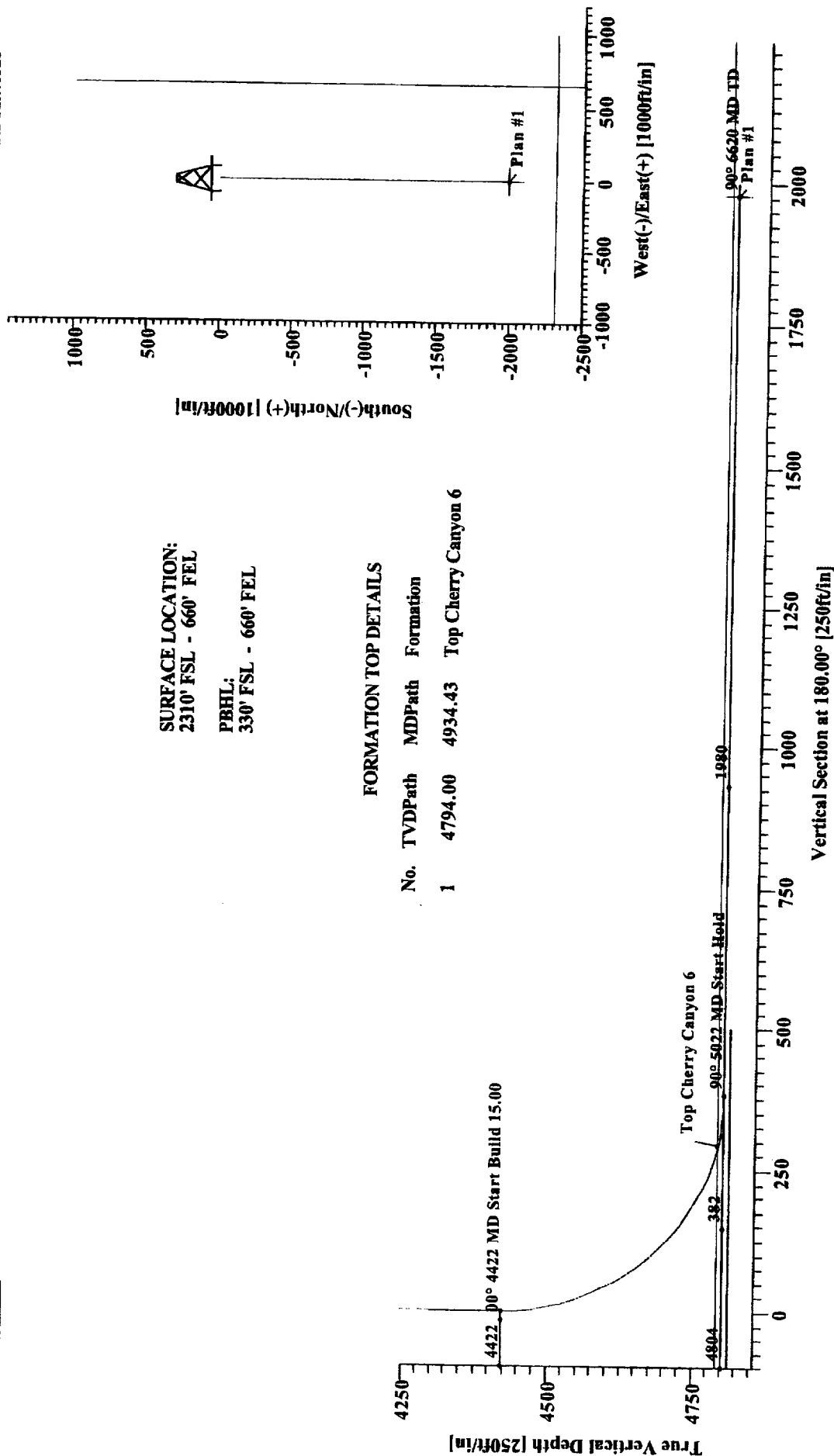
110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(915) 687-0865 - (915) 687-0868 FAX

8400

110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(915) 687-0865 - (915) 687-0868 FAX



SOUTHWESTERN ENERGY PRODUCTION CO.
EAGLE #4, STATE #1
EDDY COUNTY, NEW MEXICO



SURFACE LOCATION:
2310' FSL - 660' FEL

PBHL:
330' FSL - 660' FEL

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	4794.00	4934.43	Top Cherry Canyon 6

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4422.03	0.00	180.00	4422.03	0.00	0.00	0.00	0.00	0.00	
3	5022.03	90.00	180.00	4804.00	-381.97	0.00	15.00	180.00	381.97	
4	6620.06	90.00	180.00	4804.00	-1980.00	0.00	0.00	0.00	1980.00	TGT 1

Created by: Jim Holly
Date: 01/03/03
File: eaglen4a.pdf

Southwestern Energy Company

[illegible]

Weatherford Dailey

Planning Report - Geographic

Southwestern Energy
Company

Company: Southwestern Energy Production
Field: Eddy County, New Mexico
Site: Eagle #4
Well: Eagle #4, State #1
Wellpath: 1

Date: 1/3/2003 Time: 15:03:55 Page: 2
Co-ordinate(N/E) Reference: Site, Eagle #4, Grid North
Vertical (TVD) Reference: SITE 0 0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1

Section 1 : Start Hold

MD ft	Incl deg	Azim bearing	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2000.00	0.00	180.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2100.00	0.00	180.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2200.00	0.00	180.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2300.00	0.00	180.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2400.00	0.00	180.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2500.00	0.00	180.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2600.00	0.00	180.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2700.00	0.00	180.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2800.00	0.00	180.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
2900.00	0.00	180.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3000.00	0.00	180.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3100.00	0.00	180.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3200.00	0.00	180.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3300.00	0.00	180.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3400.00	0.00	180.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3500.00	0.00	180.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3600.00	0.00	180.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3700.00	0.00	180.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3800.00	0.00	180.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
3900.00	0.00	180.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
4000.00	0.00	180.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
4100.00	0.00	180.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
4200.00	0.00	180.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
4300.00	0.00	180.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
4400.00	0.00	180.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	180.00
4422.03	0.00	180.00	4422.03	0.00	0.00	0.00	0.00	0.00	0.00	180.00

Section 2 : Start Build 15.00

MD ft	Incl deg	Azim bearing	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4425.00	0.45	180.00	4425.00	-0.01	0.00	0.01	15.00	15.00	0.00	0.00
4450.00	4.20	180.00	4449.98	-1.02	0.00	1.02	15.00	15.00	0.00	0.00
4475.00	7.95	180.00	4474.83	-3.67	0.00	3.67	15.00	15.00	0.00	0.00
4500.00	11.70	180.00	4499.48	-7.93	0.00	7.93	15.00	15.00	0.00	0.00
4525.00	15.45	180.00	4523.76	-13.80	0.00	13.80	15.00	15.00	0.00	0.00
4550.00	19.20	180.00	4547.62	-21.24	0.00	21.24	15.00	15.00	0.00	0.00
4575.00	22.95	180.00	4570.94	-30.22	0.00	30.22	15.00	15.00	0.00	0.00
4600.00	26.70	180.00	4593.63	-40.72	0.00	40.72	15.00	15.00	0.00	0.00
4625.00	30.45	180.00	4615.58	-52.67	0.00	52.67	15.00	15.00	0.00	0.00
4650.00	34.20	180.00	4636.70	-66.03	0.00	66.03	15.00	15.00	0.00	0.00
4675.00	37.95	180.00	4656.91	-80.75	0.00	80.75	15.00	15.00	0.00	0.00
4700.00	41.70	180.00	4676.11	-96.76	0.00	96.76	15.00	15.00	0.00	0.00
4725.00	45.45	180.00	4694.22	-113.99	0.00	113.99	15.00	15.00	0.00	0.00
4750.00	49.20	180.00	4711.16	-132.36	0.00	132.36	15.00	15.00	0.00	0.00
4775.00	52.95	180.00	4726.87	-151.81	0.00	151.81	15.00	15.00	0.00	0.00
4800.00	56.70	180.00	4741.27	-172.24	0.00	172.24	15.00	15.00	0.00	0.00
4825.00	60.45	180.00	4754.30	-193.57	0.00	193.57	15.00	15.00	0.00	0.00
4850.00	64.20	180.00	4765.91	-215.70	0.00	215.70	15.00	15.00	0.00	0.00
4875.00	67.95	180.00	4776.05	-238.55	0.00	238.55	15.00	15.00	0.00	0.00
4900.00	71.70	180.00	4784.67	-262.01	0.00	262.01	15.00	15.00	0.00	0.00
4925.00	75.45	180.00	4791.74	-285.98	0.00	285.98	15.00	15.00	0.00	0.00
4950.00	79.20	180.00	4797.23	-310.37	0.00	310.37	15.00	15.00	0.00	0.00
4975.00	82.95	180.00	4801.11	-335.06	0.00	335.06	15.00	15.00	0.00	0.00
5000.00	86.70	180.00	4803.36	-359.96	0.00	359.96	15.00	15.00	0.00	0.00
5022.03	90.00	180.00	4804.00	-381.97	0.00	381.97	15.00	15.00	0.00	0.00

Section 3 : Start Hold

MD ft	Incl deg	Azim bearing	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5100.00	90.00	180.00	4804.00	-459.94	0.00	459.94	0.00	0.00	0.00	0.00
5200.00	90.00	180.00	4804.00	-559.94	0.00	559.94	0.00	0.00	0.00	0.00
5300.00	90.00	180.00	4804.00	-659.94	0.00	659.94	0.00	0.00	0.00	0.00

Weatherford Dailey

Planning Report - Geographic



Weatherford Dailey
Company

Company: Southwestern Energy Production
Field: Eddy County, New Mexico
Site: Eagle #4
Well: Eagle #4, State #1
Wellpath: 1

Date: 1/3/2003 Time: 15:03:55
Co-ordinate(NE) Reference: Site: Eagle #4, Grid Norm
Vertical (TVD) Reference: SITE 00
Section (VS) Reference: Well (0.00N,0.00E,180.00Az)
Plan: Plan #1

Page: 3

Section 3 : Start Hold

MD ft	Incl deg	Azim bearing	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5400.00	90.00	180.00	4804.00	-759.94	0.00	759.94	0.00	0.00	0.00	0.00
5500.00	90.00	180.00	4804.00	-859.94	0.00	859.94	0.00	0.00	0.00	0.00
5600.00	90.00	180.00	4804.00	-959.94	0.00	959.94	0.00	0.00	0.00	0.00
5700.00	90.00	180.00	4804.00	-1059.94	0.00	1059.94	0.00	0.00	0.00	0.00
5800.00	90.00	180.00	4804.00	-1159.94	0.00	1159.94	0.00	0.00	0.00	0.00
5900.00	90.00	180.00	4804.00	-1259.94	0.00	1259.94	0.00	0.00	0.00	0.00
6000.00	90.00	180.00	4804.00	-1359.94	0.00	1359.94	0.00	0.00	0.00	0.00
6100.00	90.00	180.00	4804.00	-1459.94	0.00	1459.94	0.00	0.00	0.00	0.00
6200.00	90.00	180.00	4804.00	-1559.94	0.00	1559.94	0.00	0.00	0.00	0.00
6300.00	90.00	180.00	4804.00	-1659.94	0.00	1659.94	0.00	0.00	0.00	0.00
6400.00	90.00	180.00	4804.00	-1759.94	0.00	1759.94	0.00	0.00	0.00	0.00
6500.00	90.00	180.00	4804.00	-1859.94	0.00	1859.94	0.00	0.00	0.00	0.00
6600.00	90.00	180.00	4804.00	-1959.94	0.00	1959.94	0.00	0.00	0.00	0.00
6820.00	90.00	180.00	4804.00	-1980.00	0.00	1980.00	0.00	0.00	0.00	0.00

Survey

MD ft	Incl deg	Azim bearing	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec		← Longitude → Deg Min Sec	
0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
100.00	0.00	180.00	100.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
200.00	0.00	180.00	200.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
300.00	0.00	180.00	300.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
400.00	0.00	180.00	400.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
500.00	0.00	180.00	500.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
600.00	0.00	180.00	600.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
700.00	0.00	180.00	700.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
800.00	0.00	180.00	800.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
900.00	0.00	180.00	900.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1000.00	0.00	180.00	1000.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1100.00	0.00	180.00	1100.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1200.00	0.00	180.00	1200.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1300.00	0.00	180.00	1300.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1400.00	0.00	180.00	1400.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1500.00	0.00	180.00	1500.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1600.00	0.00	180.00	1600.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1700.00	0.00	180.00	1700.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1800.00	0.00	180.00	1800.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
1900.00	0.00	180.00	1900.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2000.00	0.00	180.00	2000.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2100.00	0.00	180.00	2100.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2200.00	0.00	180.00	2200.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2300.00	0.00	180.00	2300.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2400.00	0.00	180.00	2400.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2500.00	0.00	180.00	2500.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2600.00	0.00	180.00	2600.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2700.00	0.00	180.00	2700.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2800.00	0.00	180.00	2800.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
2900.00	0.00	180.00	2900.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
3000.00	0.00	180.00	3000.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
3100.00	0.00	180.00	3100.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
3200.00	0.00	180.00	3200.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
3300.00	0.00	180.00	3300.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
3400.00	0.00	180.00	3400.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
3500.00	0.00	180.00	3500.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W
3600.00	0.00	180.00	3600.00	0.00	0.00	0.00	0.00	30 59	24.512 N	105 55	44.137 W

Weatherford Dailey

Planning Report - Geographic



Southwestern Energy
Company

Company: Southwestern Energy Production
Field: Eddy County, New Mexico
Site: Eagle #4
Well: Eagle #4, State #1
Wellpath: 1

Date: 1/3/2003
Co-ordinate(NE) Reference: Site: Eagle #4, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan:

Time: 15:03:55
Page: 4

Survey

MD ft	Incl deg	Azim bearing	TVD ft	+N/-S ft	+E/-W ft	Map	Map	← Latitude →			← Longitude →		
						Northing ft	Easting ft	Deg	Min	Sec	Deg	Min	Sec
3700.00	0.00	180.00	3700.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
3800.00	0.00	180.00	3800.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
3900.00	0.00	180.00	3900.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4000.00	0.00	180.00	4000.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4100.00	0.00	180.00	4100.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4200.00	0.00	180.00	4200.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4300.00	0.00	180.00	4300.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4400.00	0.00	180.00	4400.00	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4422.03	0.00	180.00	4422.03	0.00	0.00	0.00	0.00	30	59	24.512 N	105	55	44.137 W
4425.00	0.45	180.00	4425.00	-0.01	0.00	-0.01	0.00	30	59	24.512 N	105	55	44.137 W
4450.00	4.20	180.00	4449.98	-1.02	0.00	-1.02	0.00	30	59	24.502 N	105	55	44.137 W
4475.00	7.95	180.00	4474.83	-3.67	0.00	-3.67	0.00	30	59	24.475 N	105	55	44.137 W
4500.00	11.70	180.00	4499.46	-7.93	0.00	-7.93	0.00	30	59	24.433 N	105	55	44.130 W
4525.00	15.45	180.00	4523.76	-13.80	0.00	-13.80	0.00	30	59	24.375 N	105	55	44.135 W
4550.00	19.20	180.00	4547.62	-21.24	0.00	-21.24	0.00	30	59	24.302 N	105	55	44.134 W
4575.00	22.95	180.00	4570.94	-30.22	0.00	-30.22	0.00	30	59	24.213 N	105	55	44.132 W
4600.00	26.70	180.00	4593.63	-40.72	0.00	-40.72	0.00	30	59	24.109 N	105	55	44.131 W
4625.00	30.45	180.00	4615.58	-52.67	0.00	-52.67	0.00	30	59	23.991 N	105	55	44.129 W
4650.00	34.20	180.00	4636.70	-66.03	0.00	-66.03	0.00	30	59	23.858 N	105	55	44.126 W
4675.00	37.95	180.00	4658.91	-80.75	0.00	-80.75	0.00	30	59	23.713 N	105	55	44.124 W
4700.00	41.70	180.00	4676.11	-96.76	0.00	-96.76	0.00	30	59	23.554 N	105	55	44.121 W
4725.00	45.45	180.00	4694.22	-113.99	0.00	-113.99	0.00	30	59	23.384 N	105	55	44.119 W
4750.00	49.20	180.00	4711.16	-132.36	0.00	-132.36	0.00	30	59	23.202 N	105	55	44.116 W
4775.00	52.95	180.00	4726.87	-151.81	0.00	-151.81	0.00	30	59	23.010 N	105	55	44.112 W
4800.00	56.70	180.00	4741.27	-172.24	0.00	-172.24	0.00	30	59	22.807 N	105	55	44.109 W
4825.00	60.45	180.00	4754.30	-193.57	0.00	-193.57	0.00	30	59	22.596 N	105	55	44.105 W
4850.00	64.20	180.00	4765.91	-215.70	0.00	-215.70	0.00	30	59	22.377 N	105	55	44.102 W
4875.00	67.95	180.00	4776.05	-238.55	0.00	-238.55	0.00	30	59	22.151 N	105	55	44.098 W
4900.00	71.70	180.00	4784.67	-262.01	0.00	-262.01	0.00	30	59	21.918 N	105	55	44.094 W
4925.00	75.45	180.00	4791.74	-285.98	0.00	-285.98	0.00	30	59	21.682 N	105	55	44.090 W
4950.00	79.20	180.00	4797.23	-310.37	0.00	-310.37	0.00	30	59	21.441 N	105	55	44.086 W
4975.00	82.95	180.00	4801.11	-335.06	0.00	-335.06	0.00	30	59	21.196 N	105	55	44.082 W
5000.00	86.70	180.00	4803.36	-359.96	0.00	-359.96	0.00	30	59	20.950 N	105	55	44.078 W
5022.03	90.00	180.00	4804.00	-381.97	0.00	-381.97	0.00	30	59	20.732 N	105	55	44.074 W
5100.00	90.00	180.00	4804.00	-459.94	0.00	-459.94	0.00	30	59	19.981 N	105	55	44.062 W
5200.00	90.00	180.00	4804.00	-559.94	0.00	-559.94	0.00	30	59	18.971 N	105	55	44.045 W
5300.00	90.00	180.00	4804.00	-659.94	0.00	-659.94	0.00	30	59	17.982 N	105	55	44.029 W
5400.00	90.00	180.00	4804.00	-759.94	0.00	-759.94	0.00	30	59	16.992 N	105	55	44.012 W
5500.00	90.00	180.00	4804.00	-859.94	0.00	-859.94	0.00	30	59	16.003 N	105	55	43.996 W
5600.00	90.00	180.00	4804.00	-959.94	0.00	-959.94	0.00	30	59	15.014 N	105	55	43.979 W
5700.00	90.00	180.00	4804.00	-1059.94	0.00	-1059.94	0.00	30	59	14.024 N	105	55	43.963 W
5800.00	90.00	180.00	4804.00	-1159.94	0.00	-1159.94	0.00	30	59	13.035 N	105	55	43.946 W
5900.00	90.00	180.00	4804.00	-1259.94	0.00	-1259.94	0.00	30	59	12.045 N	105	55	43.930 W
6000.00	90.00	180.00	4804.00	-1359.94	0.00	-1359.94	0.00	30	59	11.056 N	105	55	43.913 W
6100.00	90.00	180.00	4804.00	-1459.94	0.00	-1459.94	0.00	30	59	10.066 N	105	55	43.897 W
6200.00	90.00	180.00	4804.00	-1559.94	0.00	-1559.94	0.00	30	59	9.077 N	105	55	43.880 W
6300.00	90.00	180.00	4804.00	-1659.94	0.00	-1659.94	0.00	30	59	8.087 N	105	55	43.864 W
6400.00	90.00	180.00	4804.00	-1759.94	0.00	-1759.94	0.00	30	59	7.098 N	105	55	43.847 W
6500.00	90.00	180.00	4804.00	-1859.94	0.00	-1859.94	0.00	30	59	6.108 N	105	55	43.831 W
6600.00	90.00	180.00	4804.00	-1959.94	0.00	-1959.94	0.00	30	59	5.119 N	105	55	43.815 W
6620.06	90.00	180.00	4804.00	-1980.00	0.00	-1980.00	0.00	30	59	4.921 N	105	55	43.811 W

Weatherford Dailey

Planning Report - Geographic

Southwestern Energy
Company

Company: Southwestern Energy Production
Field: Eddy County, New Mexico
Site: Eagle #4
Well: Eagle #4, State #1
Wellpath: 1

Date: 1/9/2003 Time: 15:03:55 Page: 5
Co-ordinate(NE) Reference: Site: Eagle #4, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,180.00Azi)
Plan: Plan #1

Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →		
	Dip.	Dir.						Deg	Min	Sec	Deg	Min	Sec
TGT 1			4804.00	-1980 00	0.00	-1980 00	0.00	30	59	4 921 N	105	55	43 811 W