District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division RECEIVED Submit to appropriate District Office

T

District IV 2040 South Pacheco, Santa Fe, NM 87505 APPLICATION FOR PERMIT TO DRILL,					2040 South Santa Fe, N	Pache M 875	3 68 , 3 68 , 0€	CD - ARTESIA			e Lease - 6 Copi e Lease - 5 Copi	
A TOOL I	TO A TOTA	ON EQI	o ototoa <i>a</i> rqui	זיט דע	ן זור	**************************************	~ NI	\$5°50	SS120201817	<u> </u>	AMF	ENDED REPOR
APPLI	APPLICATION FOR PERIOT TO DRILL, RE 1 Operator Name and Address Southwestern Energy Production Company 2350 North Sam Houston Parkway East, Suite Houston, TX 77031						OGRID Number) A ZONE	
									30- 315	³ AP	PI Number 3257 \	<u> </u>
³ Propert	y Code 135	,			I	Property Name Falcon "10"					6 Well N	No.
					⁷ Su	urface Locatio	on					
UL or lot no.	Section	Township	Range	Lot	Idn	Feet from the	North/	South line	Feet from the	Eas	st/West line	County
G	10	25S	28E	<u></u>		1793	·	North	2450		East	Eddy
ı———	Г		Proposed Bo	ottom !	Hole	Location If I	Differe	ent Fror	n Surface			
UL or lot no.	Section	Township	Range	Lot 1	Idn	Feet from the	North/S	South line	Feet from the	Eas	st/West line	County
Н	10	25S	28E			1793	N/	Vorth	330	<u> </u>	East	Eddy
	·	Ch	Proposed Pool 1 nerry nyon						¹⁰ Propos	ed Poc	ol 2 ———	
11 Work T	Codo	Willo	Laly D	اعداديد	؛ <u>رودې</u>	54,)		14		<u> </u>		
11 Work T	1		12 Well Type Code	* 1		13 Cable/Rotary	1	7.4.1	Lease Type Code			d Level Elevation 2,936°
¹⁶ Mu	ıltiple	- 65	17 Proposed Depth			18 Formation			19 Contractor	19 Contractor		Spud Date
N	1	00	304'MD/4899''			Cherry Canyon			Patterson			n 2003
77-1- 01-			Pr			sing and Cem			1			
Hole Siz	æ		sing Size	Casing	g weight	/foot Se	etting De	epth	Sacks of Cen			stimated TOC
12 1/4'	,,		5/8"		36#		40' 550'	.—	Ready M	<u>lix</u>		Surface
8 3/4"			5 ½"		36# 17#		550° 5029°		350			Surface
U /4			72	1/#			3029		270			3,500'
											-	
22 Describe th	he proposed	d program.	If this application is	is to DEE	PEN or	PLUG BACK, giv	e the dar	ta or				
	cribe the blo		ention program, if a			=			Cement to cov water be		, 0	s and
0.00.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1151 1							-				
²³ I hereby certify best of my know	- /		given above is true	and comp	plete to	the BU	⁾ (OIL CO	NSERVATIO	I NC	OIVISIO	N
Signature: Multiple Signature:						Approve	-l hays	- ORIG	MAL SIGNET		TIM W. G	BUM
Printed name:	Vonnie J.	. Cermin				Thhrose	<u>a by.</u>	D70 11	NICT H SUPE	RVID	OR	
Title: Productio	n Analyst					Approva	ıl Date:	JAN O	8 2003 Exp	oiratio	n Date: [A/	N 0 8 2004
Date: Decemb	per 19, 2002	1	Phone: 281-6	618 - 473	19	Conditio			-U-400		UPI	N U 8 2004
					Attacher	Attached						

GENERAL DRILLING PROGRAM- Attachment to Form C-101

Southwestern Energy Production Company- Falcon "10" #1

Surface location: 1793' FNL 2450' FEL

Bottom hole location: 1793' FNL 330' FEL end of horizontal lateral

Proposed point of entry (CC6) prod. zone: 1793' FSL 2068' FEL @ 5029'MD / 4837'TVD

Proposed completion as 1738' open horizontal lateral

Section 10-T25S-R28E Eddy County, New Mexico

Elevation: 2936' GR / 2951' RKB

Proposed Total Depth: 6804' MD / 4899' TVD'

Estimated Formation Tops

525'
1000'
2576'
3384'
4785'
4801'

Casing/Cement Program

Hole Size	Casing Size/Weight/Grade	Setting Depth	Cement	Est. TOC
	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	5029'	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>	Mud Weight	Viscosity	Fluid Loss	Comments
0-550'	8.6-9.0	32-36	NC	spud mud, paper
550'-5029'	10.0-10.1	28-29	NC-20 cc	brine, lime, paper, Star NP 110, xanthan gum sweeps
5029'-6804'	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'-5029'

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.

5029'-6804'

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

OIL CONCERNIUM ON DAVING ONLY

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

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name FALCON	Well Number
OGRID No.	Operator Name SOUTHWESTERN ENERGY PRODUCTION	ON COMPANY 2936'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	10	25 S	28 E		1793	NORTH	2450	EAST	EDDY

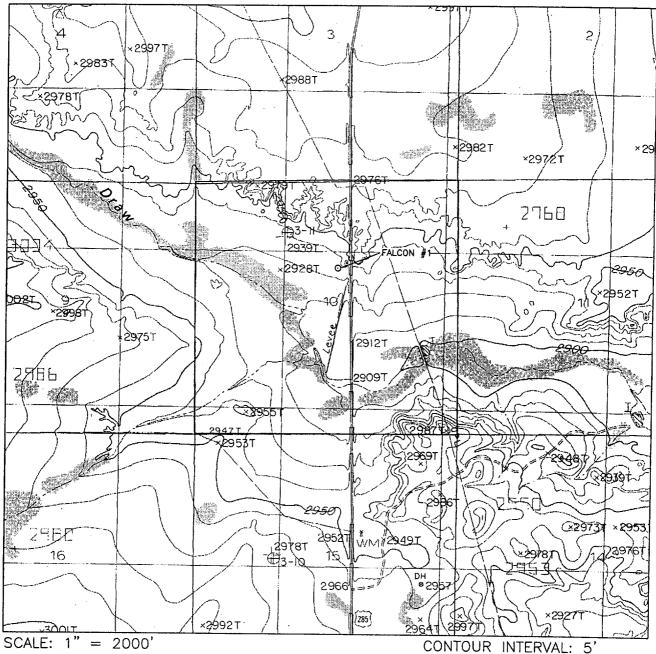
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	10	25 S	28 E		1793.	NORTH	330	EAST	EDDY
Dedicated Acre	Joint o	r Infill Co	nsolidation	Code Or	der 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

[]	1					OPERATOR CERTIFICATION
						I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
		——1793' ——1793'	2	7707	C6/1	Janus &
	N 89'33'40" E 350.0'		N 89'33'40"	(BHL) E - 1770.0'	330'	VONNE J CERMIN Printed Name DRILLING TECH
1	#1 (S Plane Coordinate X = 580,277.4 Y = 417,218.7	(L)		2100'	96.8	Title 12/19/02 Date
				1 - 417,2	J4.5	SURVEYOR CERTIFICATION
Secretary (1997)	Managaran Distriction					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 supervison and that the same is true and correct to the best of my belief.
(12185)		···				December 16, 2002 Date Surveyed Signature & Seal of
NOTE:	Manufacture of the second					Professional Surveyor
NOTE:						W.O. Num. 2002-0809
Plane Coordinates shown Mercator and Conform to the System", New Mexico East hereon are mean horizizonta	e "New Mexico Coord : Zone, Distances si	linate				Certificate No. MACON McDONALD 12185

LOCATION VERIFICATION MAP



SEC. 10 TWP. 25-S RGE. 28-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1793' FNL & 2450' FEL

ELEVATION ____ 2936

OPERATOR SOUTHWESTERN ENERGY PRODUCTION CO.

LEASE FALCON

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

WEST

MALAGA, NM

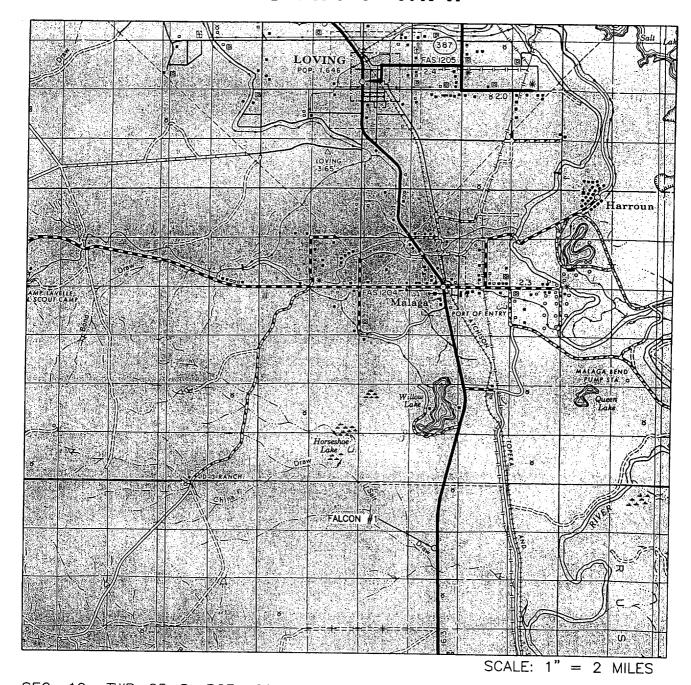
COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

of Midland, Inc. (915) 687–0865 – (915) 687–0868 FAX

VICINITY MAP



SEC. 10 1	WP. <u>25-S</u> RGE. <u>28-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1793' FNL & 2450' FEL
ELEVATION	2936
OPERATOR	SOUTHWESTERN ENERGY PRODUCTION CO.
LFASE	FALCON



WEST

COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

of Midland, Inc. (915) 687–0865 – (915) 687–0868 FAX

