District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III

State of New Mexico Energy Minerals and Natural Resources

Revised March 17, 1999

Oil Conservation Division

Oil Conservation Division

State Lease - 6 Copies

2040 South Pacheco, Santa Fe, NM 87505 Sc						South Fe, NI	Pached M 8750	S OCL	PECE, Co	617 18 19	Fee	Lease - 5 Copies Lease - 5 Copies NDED REPORT
A PPI J	CATIC	N FOR	PERMIT T	O DRIL	L. RE-E	NTE	R. DE	EPEN.	PLEGBAC	K20	R ADD	A ZONE
ATE	S	outhweste	Operator Name and rn Energy Promise Houston Part Houston, TX	d Address oduction C rkway Eas	ompany			Co Color		PAOCRI	D Number	
									30 - COS	³ API	Number スクスく	
³ Propert	ty Code				⁵ Property N Lost Lake				130 000		6 Well N	No.
				7	Surface I	ocatio	on					
UL or lot no.	Section	Township	Range	Lot Idn	Feet fr	om the	North/S	outh line	Feet from the	East	/West line	County
М	25	88	29E			50		uth	660		West	Chaves
		8	Proposed Bo	ottom Ho	le Locati	on If I	Differe	nt Froi	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet fr	om the	North/S	outh line	Feet from the	East	/West line	County
			roposed Pool 1 dcat Atoka	9.	6049				¹⁰ Propo	sed Poo	12	
11 Work Type Code 12 Well Type Code N G			:		Rotary S Lease Type Code			7₹	Ground Level Elevation 4,062'			
¹⁶ Mu N	iltiple V		¹⁷ Proposed Depth 8,750'			mation oka		N	19 Contractor Vabors Drlg			Spud Date 2/27/00
			²¹ Pr	roposed C	Casing an	d Cen	nent Pr	ogram			· · · · · · · · · · · · · · · · · · ·	
Hole Si	ze	Casi	ng Size	Casing we	ight/foot	S	Setting De	epth	Sacks of Ce	ment	Е	stimated TOC
26"		2	20"		*****		40'		Ready N	⁄Iix_		Surface
17 1/2	,,	13	3/8"	61	#		325'		305	Surface		
12 1/4	,,	8:	5/8"	32	#		2,600	,	915			Surface
7 7/8	,,	5	1/2"	17	#		8,750	,	400			6,750'
	scribe the b		f this application in tion program, if a					ta on the p	present productive z	zone an	d proposed	new productive
²³ I hereby certifies best of my know Signature:	· · /	4	iven above is true	and complete	e to the				ONSERVATI			
- 	Jeg W	1				Appro	vea by: T	RIGIN			W. GU	BGA
Printed name:	Cathy Ro	owan					U	13 1 NIC	T II SUPERVI	JUR		•
	Technician	_				Appro	val Date:	7-2	7.00 E	xpiratio	on Date: Z	-22-01
Date: February 14, 2000 Phone: 281-618-4733						Condit	ions of Ap	pproval:				

Attached

GENERAL DRILLING PROGRAM- Attachment to Form C-101

Southwestern Energy Production Company- Lost Lake "25" #1 660' FSL 660' FWL Section 25-T8S-R29E Eddy County, New Mexico

Elevation: 4062'GR

Proposed Total Depth: 8750'

Estimated Formation Tops

Rustler Anhydrite	924'
San Andres	2500'
Abo	6130'
Wolfcamp	6970'
Atoka Pay	8435'
Missippi Carbonate	8550'

Casing/Cement Program

Hole Size	Casing Size/Weight/Grade	Setting Depth	Cement	Est. TOC
	20" Conductor pipe	40'	ready mix	surface
17-1/2"	13-3/8" 61# J-55 ST&C	325'	305 sx 15:85 Poz: Class C + 0.25 pps D29+2% S1+2% D20	surface
12-1/4"	8-5/8" 32# J-55 ST&C	2600'	Lead:715 sx 35:65 Poz: Class C + 6% D20+ 0.25 pps D29+5% D44 Tail: 200 sx Class C+ 2% S1	surface
7-7/8"	5-1/2" 17# N-80 LT&C	8750'	400 sx 50:50 Poz: Class H + 5% D44 +2% D20+0.4% D59+ 0.2% D65	6750'

Drilling Fluids Program

<u>Depth</u>	Mud Weight	Viscosity	Fluid Loss	Comments
0-325'	8.4-8.6	32-36	NC	spud mud, paper
325'-2600'	8.4-10.0	30-33	NC	fresh/brine water, native oil, caustic, paper
2600'-6000'	8.4-9.2	28-29	NC	fresh/cut brine,caustic,paper Star NP-110
6000'-8750'	9.2-9.6	36-45	<15 cc	starch, prehydrated fresh gel caustic, oil, salt gel if required

Blowout Prevention Program- Attachment to Form C-101

0'-325'

325'-2600' 20" 2000# annular preventer system.

 $2600^{\circ}-10,150^{\circ}$ 13-5/8" 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 P.O. Box 1980, Rubbe, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Departs.

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 DD, Artesia, NM 88211-0719

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

P.O. BOX 2086, SANTA FE, N.M. 67504-2086

DISTRICT IV

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name		
Property Code	•	LAKE 25	Well Number	
OGRID No.	0pe	rator Name IERGY PRODUCTION CO	Rievation 4062	

Surface Location

į	UL or lot No.	Section	Township	Range	Lot Ido	Feet from the	North/South line	Feet from the	East/West line	County
	М	25	8 S	29 E		660	SOUTH	660	WEST	CHAVES

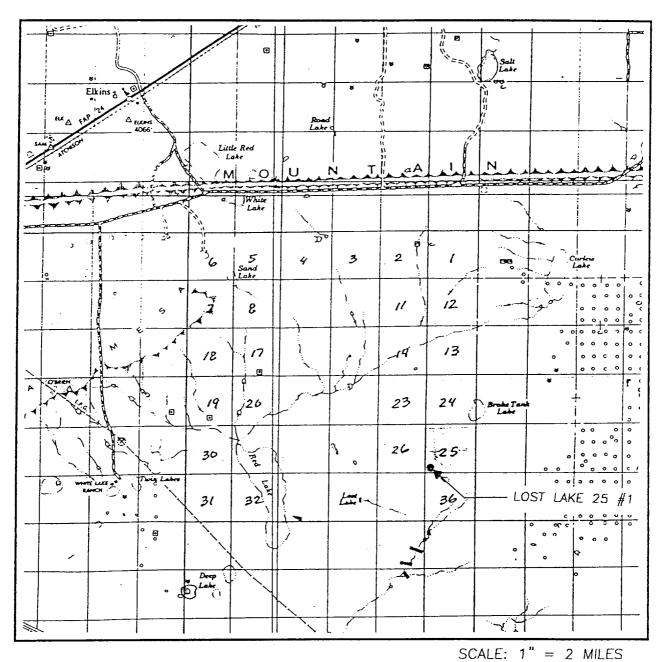
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.				
720									

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.
	James M. Tully Stephature James M. Tully Printed Name Sr. Drilling Engineer Title
1	Dr. Drilling Engineer
	2-7-00
	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
	supervison and that the same is true and
	correct to the best of my belief.
	FEBRUARY 1, 2000
	Date Surveyed Scale of Control Professional Surveyor
	Romal Monday 2/02/2000
,089	Cornificate No. RONALD EIDSON 3239 CARN EUSON 12841 CONTRACTOR McDONALD 12185
	- Walterman

VICINITY MAP



SEC. 25 TWP. 8-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY CHAVES

DESCRIPTION 660' FSL & 660' FWL

ELEVATION 4062

SOUTHWESTERN

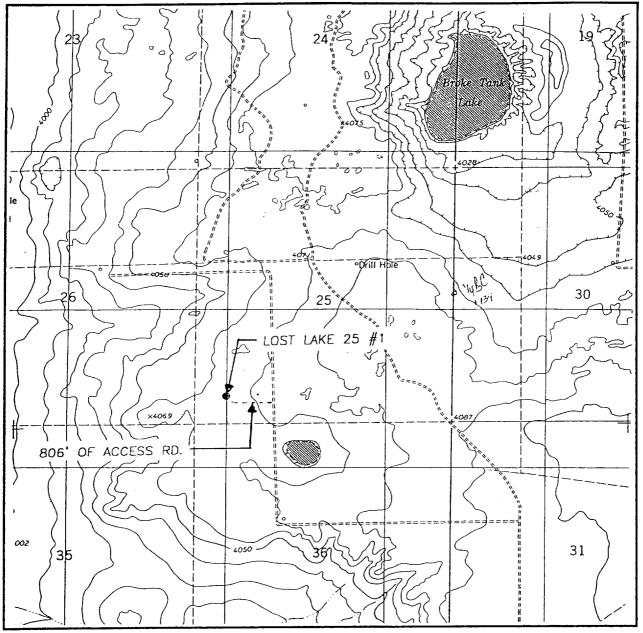
OPERATOR ENERGY PRODUCTION CO.

LEASE LOST LAKE 25

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



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: PRESLER LAKE - 10'

SEC. <u>25</u> TWP. <u>8-S</u> RGE. <u>29-E</u>
SURVEY N.M.P.M.
COUNTYCHAVES
DESCRIPTION 660' FSL & 660' FWL
ELEVATION 4062
SOUTHWESTERN OPERATOR ENERGY PRODUCTION CO.
EASE LOST LAKE 25
U.S.G.S. TOPOGRAPHIC MAP

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