						Silt of						
Form 3160-3						NIM O	IN TRI	i A <b>Ç</b>	ommissio	Nved.		c
December 1990)	_	UNITED STATES								11 PO ON N	No. 1004-013	$_{36}(V)$
	E	DEPARTI	EPARTMENT OF THE INTERIOR						5. LEASE DESIG	NATION	AND SERIAL NO	
		BUREA	AU OF	LAND M	ANAGEME	INT			NM-4350			
AP	PLICA	TION FC	DR PE	ERMIT	TO DRI	L OR DEEP	EN		6. IF INDIAN, AI	LOTTER	OR TRIBE NAME	C
A. TYPE OF WORK						······································						
D. TYPE OF WELL	DRILL X				EN 🗌				7. UNIT AGREEMENT NAME			
OIL X	GAS WELL		HER				MULTIPLI	; ["]	8. FARM OR LEASE !	AMR WRU		
NAME OF OPERAT						.214-739-002	20NE		Unocal		$\sim$	
		ENCE ENE	ERGY (	COMPANY		×.			9. API WELL NO.		23 110.3	
ADDRESS AND TELEPHO	NBNO. 484	49 Green	nville	e Ave.,	Ste.38	1 ,			30-01	· · · ·	2717	
LOCATION OF WE	Da]	llas, Te	exas 7	75206	an with any	State requirements.			10. FIELD AND North Hacl	<b>РООL, О</b> cherr	WILDCAT	
At surface					ice with any	State requirements.	 Ka Su			Seve	n Rivers	
2310'FNL, At proposed proc		WL, Sec.	.23-19	9S-30E		(Units	£');;;;;	°€	11. SBC., T., R., M., OR BLE. And Survey of Area			
ne proposed pro		ame				(SENW)			Sec.23, T	.19S,	R.30E.	
. DISTANCE IN MI	ILES AND DI	IRECTION FRO	OM NEAR	EST TOWN (	DE POST OFF	CE.			12. COUNTY OB	PARISH	13. BTATE	
23 miles		ast of C	Carlsh	oad, Ne					Eddy Count	ty	Ν.Μ.	
5. DISTANCE FROM LOCATION TO NE	TEBEST				16.	NO. OF ACRES IN LE.	A81	17. NO. 0 TO TH	F ACRES ASSIGNE	D		—
PROPERTY OR LE (Also to neares	st drlg, unit	t line, if any	)	660'		240		4	10			
B. DISTANCE FROM TO NEAREST WE OR APPLIED FOR, C	ELL, DRILLIN	G, COMPLETE	ED,	2001	19.	PROPOSED DEPTH		20. ROTAL	RY OR CABLE TOOL	.8		
L. ELEVATIONS (Sho			etc.)	783'		2000'		Rota				_
	6.8' GR		eu.j								LE WILL START	•
5.									As Soon i			_
						ND CEMENTING PR			8-111-P	Potes	h	
SIZE OF HOLE	GI	RADE, SIZE OF CAS	SINO	WEIGHT	PER FOOT	SETTING DEPT						
17 1/04	1 1 1	2 2 /0 11 5		10.1					QUANTITY OF			
17-1/2"		3-3/8" S		48#	н-40	500'±	-		sx (Circula	ated	to Sur.)	
<u>17-1/2"</u> <u>12-1/4"</u> 7-7/8"		8-5/8" 5	ST&C	28#	H-40 H-40	<u>500'±</u> 1600'±		800± s	sx (Circula sx (Circula	ated ated	to Sur.) to Sur.)	
12-1/4"			ST&C		н-40	500'±		800± s	sx (Circula sx (Circula sx (Tie Bac	ated ated ck 20	<u>to Sur.)</u> <u>to Sur.)</u> 0'	 
<u>12-1/4"</u> 7-7/8"	6	8-5/8" s 5-1/2" I	ST&C LT&C	28# 17#	H-40 H-40 K-55	<u>500'±</u> <u>1600'±</u> 2000'±		800± s 122± s	SX (Circula SX (Circula SX (Tie Bad into 8-	ated ated ck 20 -5/8"	<u>to_Sur.</u> ) <u>to_Sur.</u> ) <u>0'</u> )	
<u>12-1/4"</u> 7-7/8" Prop	ose to	<u>8-5/8" s</u> 5-1/2" I o drill	ST&C LT&C	28# 17# 2000 ' <u>+</u>	H-40 H-40 K-55	500'± 1600'± 2000'± est Yates	and	800± s 122± s Seven	sx (Circula sx (Circula sx (Tie Bad into 8- n Rivers	ated ck 20 -5/8" form	to Sur.) to Sur.) O' ) nation.	
<u>12-1/4"</u> 7-7/8" Prop Perf	ose to orate	<u>8-5/8" s</u> 5-1/2" I drill favora	ST&C LT&C L to able	28# 17# 2000 ' <u>+</u> zones	H-40 H-40 K-55 t to t . Run	500'± 1600'± 2000'± est Yates tubing to	and per	800± s 122± s Seven fs, s	sx (Circula sx (Circula sx (Tie Bac into 8- n Rivers stimulate	ated ck 20 -5/8" form	to Sur.) to Sur.) O' ) nation.	
<u>12-1/4"</u> 7-7/8" Prop Perf	ose to orate	<u>8-5/8" s</u> 5-1/2" I drill favora	ST&C LT&C L to able	28# 17# 2000 ' <u>+</u> zones	H-40 H-40 K-55 t to t . Run	500'± 1600'± 2000'± est Yates	and per	800± s 122± s Seven fs, s	sx (Circula sx (Circula sx (Tie Bac into 8- n Rivers stimulate	ated ck 20 -5/8" form	to Sur.) to Sur.) O' ) nation.	
12-1/4" 7-7/8" Prop Perf to t This	ose to orate ank. S well	<u>B-5/8" s</u> 5-1/2" I favora See att is wit	T&C T&C L to able tache	28# 17# 2000' <u>+</u> zones ed " <u>Dr</u> the P	H-40 $H-40$ $K-55$ to t to t . Run illing otash	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s	and per BOP	800± s 122± s Seven fs, s Diag ct tc	sx (Circula sx (Circula sx (Tie Bad into 8- into 8- restinulate gram.	ated ated ck 20 -5/8" form and	to Sur.) to Sur.) O' ) nation. L test	
12-1/4" 7-7/8" Prop Perf to t This See	ose to orate ank. S well attach	<u>B-5/8" s</u> 5-1/2" I favora See att is wit	T&C T&C L to able tache thin ncurr	28# 17# 2000' <u>+</u> zones ed " <u>Dr</u> the Posence	H-40 H-40 K-55 t to t . Run illing otash from B	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining	and per BOP subje	800± s 122± s Seven fs, s Diag ct tc ion.	sx ( <u>Circul</u> sx ( <u>Circul</u> sx ( <u>Tie Bad</u> into 8- n Rivers stimulate <u>tram</u> . NMOCD O Waivers	ated ated ck 20 -5/8" form and rder	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy	
12-1/4" 7-7/8" Prop Perf to t This See	ose to orate ank. S well attach	<u>B-5/8" s</u> 5-1/2" I favora See att is wit	T&C T&C L to able tache thin ncurr	28# 17# 2000' <u>+</u> zones ed " <u>Dr</u> the Posence	H-40 H-40 K-55 t to t . Run illing otash from B	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s	and per BOP subje	800± s 122± s Seven fs, s Diag ct tc ion.	sx ( <u>Circul</u> sx ( <u>Circul</u> sx ( <u>Tie Bad</u> into 8- n Rivers stimulate <u>tram</u> . NMOCD O Waivers	ated ated ck 20 -5/8" form and rder	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy	  - P.
12-1/4" 7-7/8" Prop Perf to t This See Pota	ose to orate ank. S well attach sh, In	B-5/8" s 5-1/2" I favora See att is wit ned con nc. and	T&C L to able tache thin ncurr	28# 17# 2000' <u>+</u> zones ed " <u>Dr</u> the P the P cence	H-40 H-40 K-55 t to t . Run illing otash from B	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining	and per BOP subje	800± s 122± s Seven fs, s Diag ct tc ion.	sx ( <u>Circul</u> sx ( <u>Circul</u> sx ( <u>Tie Bad</u> into 8- n Rivers stimulate <u>tram</u> . NMOCD O Waivers	ated ated ck 20 -5/8" form and rder	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy	
12-1/4" 7-7/8" Prop Perf to t This See Pota	ose to orate ank. S well attach sh, In	<u>B-5/8" s</u> 5-1/2" I favora See att is wit	T&C L to able tache thin ncurr	28# 17# 2000' <u>+</u> zones ed " <u>Dr</u> the P the P cence	H-40 H-40 K-55 t to t . Run illing otash from B	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining	and per BOP subje	800± s 122± s Seven fs, s Diag ct tc ion.	sx ( <u>Circul</u> sx ( <u>Circul</u> sx ( <u>Tie Bad</u> into 8- n Rivers stimulate <u>tram</u> . NMOCD O Waivers	ated ated ck 20 -5/8" form and rder	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy	
12-1/4" 7-7/8" Prop Perf to t This See Pota	ose to orate ank. S well attach sh, In	B-5/8" s 5-1/2" I favora See att is wit ned con nc. and	T&C L to able tache thin ncurr	28# 17# 2000' <u>+</u> zones ed " <u>Dr</u> the P the P cence	H-40 H-40 K-55 t to t . Run illing otash from B	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining	and per BOP subje	800± s 122± s Seven fs, s Diag ct tc ion.	sx (Circula sx (Circula sx (Tie Bad into 8 Rivers timulate ram. NMOCD O Waivers be furnis	ated ated ck 20 -5/8" form and rder fro hed	to Sur.) to Sur.) O' ) nation. test R-111- m Eddy	
12-1/4" 7-7/8" Prop Perf to t This See Pota	ose to orate ank. S well attach sh, In	B-5/8" s 5-1/2" I favora See att is wit ned con nc. and	T&C L to able tache thin ncurr	28# 17# 2000' <u>+</u> zones ed " <u>Dr</u> the P the P cence	H-40 H-40 K-55 t to t . Run illing otash from B	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining	and per BOP Subje Sect on w	800± s 122± s Seven fs, s Diag ct tc ion. ill b	sx (Circula sx (Circula sx (Tie Bad into 8 Rivers timulate ram. NMOCD O Waivers be furnis	ated ated ck 20 -5/8" form and rder fro hed	to Sur.) to Sur.) O' ) nation. test R-111- m Eddy	- p .
12-1/4" 7-7/8" Prop Perf to t This See Pota	ose to orate ank. S well attach sh, In	B-5/8" s 5-1/2" I favora See att is wit ned con nc. and	T&C L to able tache thin ncurr	28# 17# 2000' <u>+</u> zones ed " <u>Dr</u> the P the P cence	H-40 H-40 K-55 t to t . Run illing otash from B	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining	and per BOP subje Sect on w	800± s 122± s Seven fs, s Diag ct tc ion. ill b	sx (Circula sx (Circula sx (Tie Bad into 8 Rivers timulate ram. NMOCD O Waivers be furnis	ated ated ck 20 -5/8" form and rder fro hed f	to Sur.) to Sur.) O' ) nation. test R-111- m_Eddy 1993	- P.
12-1/4" 7-7/8" Prop Perf to t This See Pota Gas	ose to orate ank. S well attach sh, In is not	B-5/8" s 5-1/2" I favora See att is wit ned con nc. and t dedic	T&C T&C able tache tache thin hcurr d Hor cated	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the P the P the P the P	H-40 H-40 K-55 t to t . Run illing otash from <u>B</u> Potash	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining Corporati	and per BOP Sect Sect On W	800± s 122± s Seven fs, s Diag ct tc ion. ill b	sx (Circula sx (Circula sx (Circula sx (Tie Bac into 8- into 8	ated ated ck 20 -5/8" form and rder fro hed for hed for for for for for for for for for for	to Sur.) to Sur.) O' ) nation. test R-111- m Eddy 1993 N	
12-1/4" 7-7/8" Prop Perf to t This See Pota Gas	ose to orate ank. S well attach sh, In is not	B-5/8" S 5-1/2" I favora See att is wit ned com nc. and c dedic	T&C T&C L to able tache thin ncurr d Hor cated	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the Pr the Pr izon i.	H-40 H-40 K-55 t to t . Run illing otash from <u>B</u> Potash	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining Corporati	and per BOP Sect Sect On w IG-) Ray T MCAN	800± s 122± s Seven fs, s Diag ct tc ion. ill b I d proposed	sx (Circula sx (Circula sx (Circula sx (Tie Bac into 8 n Rivers stimulate ram. NMOCD O Waivers be furnis	ated ated ck 20 -5/8" form and rder fro hed f	to Sur.) to Sur.) O' ) nation. test R-111- m Eddy 1993 N	
12-1/4" 7-7/8" Prop Perf to t This See Pota Gas ABOVE SPACE DES epen directonally, giv	ose to orate ank. S well attach sh, In is not	B-5/8" S 5-1/2" I favora See att is wit ned com nc. and c dedic	T&C T&C L to able tache thin ncurr d Hor cated	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the Pr the Pr izon i.	H-40 H-40 K-55 t to t . Run illing otash from <u>B</u> Potash	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining Corporati	and per BOP Sect Sect On w IG-) Ray T MCAN	800± s 122± s Seven fs, s Diag ct tc ion. ill b I d proposed	sx (Circula sx (Circula sx (Circula sx (Tie Bac into 8 n Rivers stimulate ram. NMOCD O Waivers be furnis	ated ated ck 20 -5/8" form and rder fro hed f	to Sur.) to Sur.) O' ) nation. test R-111- m Eddy 1993 N	
12-1/4" 7-7/8" Prop Perf to t This See Pota Gas ABOVE SPACE DES epen directionally, giv	ose to orate ank. S well attach sh, In is not	B-5/8" S 5-1/2" I favora See att is wit ned com nc. and c dedic	T&C T&C L to able tache thin ncurr d Hor cated	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the Pr the Pr izon i.	H-40 H-40 K-55 t to t Run illing otash from <u>B</u> Potash	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining Corporati Corporati	and per BOP Subje Sect on w I(-) R:15 C MC4N <sup>2</sup> We zone an out prevents	800± s 122± s Seven fs, s Diag ct tc ion. ill b I d proposed	sx (Circula sx (Circula sx (Circula sx (Tie Baa into 8- into	ated ated ck 20 -5/8" form and rder fro hed for for hed for for hed for for for for for hed for hed for for for for for for for for for for	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy 1993 N Sposal is to drill	
12-1/4" 7-7/8" Prop Perf to t This See <u>Pota</u> Gas Gas	ose to orate ank. S well attach <u>sh, In</u> is not SCRIBE PROI ve pertinent da	B-5/8" S 5-1/2" I favora See att is wit ned con nc. and c dedic	T&C T&C L to able tache thin ncurr d Hor cated	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the Pr the Pr izon i.	H-40 H-40 K-55 t to t Run illing otash from <u>B</u> Potash	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining Corporati	and per BOP Subje Sect on w I(-) R:15 C MC4N <sup>2</sup> We zone an out prevents	800± s 122± s Seven fs, s Diag ct tc ion. ill b I d proposed	sx (Circul: sx (Circul: sx (Tie Bad into 8- into 8-	ated ated ck 20 -5/8" form and rder fro hed for hed for hed for hed for for hed for for for hed for for hed for for hed for for hed for for hed for for for hed for hed for hed for for hed for hed for hed for for hed for for for hed for for for for for hed for for for for for hed for for for for for hed for for for for hed for for for for for for for for for for	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy 1593 N Sposal is to drill 1793	or
12-1/4" 7-7/8" Prop Perf to t This See Pota Gas ABOVE SPACE DES epen directionally, giv	ose to orate ank. S well attach <u>sh, In</u> is not SCRIBE PROI ve pertinent da	B-5/8" S 5-1/2" I favora See att is wit ned con nc. and c dedic	T&C T&C L to able tache thin ncurr d Hor cated	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the Pr the Pr izon i.	H-40 H-40 K-55 t to t Run illing otash from <u>B</u> Potash	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining Corporati Corporati	and per BOP Subje Sect on w I(-) R:15 C MC4N <sup>2</sup> We zone an out prevents	800± s 122± s Seven fs, s Diag ct tc ion. ill b I d proposed	sx (Circula sx (Circula sx (Circula sx (Tie Baa into 8- into	ted ated ck 20 -5/8" form and rder fro hed for for hed for for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for for hed for hed for hed for hed for hed for hed for for for for for for hed for hed for for for for for for for for for for	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy 1593 N SUBJECT TC	or T
12-1/4" 7-7/8" Prop Perf to t This See <u>Pota</u> Gas Gas ABOVE SPACE DES repen directionally, giv LEREY (This space for	ose to orate ank. S well attach sh, In is not SCRIBE PROI ve pertinent da	B-5/8" S 5-1/2" I favora See att is wit ned con nc. and c dedic	T&C T&C L to to to to to to to to to to	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the P cence izon 4. xoposal is to a synd measure	H-40 H-40 K-55 t to t Run illing otash from <u>B</u> Potash deepen, give di and true vert	ta on present productivical depths. Give bloww	and per BOP subje Sect on w I(-) R:15 W(4A) we zone an uut preventu	800± s 122± s Seven fs, s Diag ct tc ion. ill b I d proposed r program,	sx (Circula sx (Circula sx (Circula sx (Tie Baa into 8 into 8 in	ated ated ck 20 -5/8" form and rder fro hed for for hed for for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for for hed for for hed for for hed for hed for for hed for for for for for for for for for for	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy 1593 N 1593 N SUBJECT TC EQUIREMEN	or TTS /
12-1/4" 7-7/8" Prop Perf to t This See <u>Pota</u> Gas Gas ABOVE SPACE DES repen directionally, giv SIGNED <u>JERFY</u> (This space for	ose to orate ank. S well attach sh, In is not SCRIBE PROI ve pertinent da	B-5/8" S 5-1/2" I favora See att is wit ned con nc. and c dedic	T&C T&C L to to to to to to to to to to	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the P cence izon 4. xoposal is to a synd measure	H-40 H-40 K-55 t to t Run illing otash from <u>B</u> Potash deepen, give di and true vert	500'± 1600'± 2000'± est Yates tubing to Data" and Area and s LM Mining Corporati corporati	and per BOP subje Sect on w I(-) R:15 W(4A) we zone an uut preventu	800± s 122± s Seven fs, s Diag ct tc ion. ill b I d proposed r program,	sx (Circula sx (Circula sx (Circula sx (Tie Baa into 8 into 8 in	ated ated ck 20 -5/8" form and rder fro hed for for hed for for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for hed for for hed for for hed for for hed for hed for for hed for for for for for for for for for for	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy 1593 N 1593 N SUBJECT TC EQUIREMEN	or JTS
12-1/4" 7-7/8" Prop Perf to t This See <u>Pota</u> Gas Gas ABOVE SPACE DES epen directionally, giv SIGNED <u>JERFY</u> (This space for	ose to orate ank. S well attach sh, In is not SCRIBE PROI ve pertinent da	B-5/8" S 5-1/2" I favora See att is wit ned con nc. and c dedic	T&C T&C L to to to to to to to to to to	28# 17# 2000 ' <u>+</u> zones ed " <u>Dr</u> the P cence izon 4. xoposal is to a synd measure	H-40 H-40 K-55 t to t Run illing otash from <u>B</u> Potash deepen, give di and true vert	ta on present productivical depths. Give blows	and per BOP subje Sect on w I(-) R:15 W(4A) we zone an uut preventu	800± s 122± s Seven fs, s Diag ct tc ion. ill b f d proposed r program, se which we	sx (Circul: sx (Circul: sx (Circul: sx (Tie Bac into 8- into	ted ated ck 20 -5/8" form and rder fro hed form fro hed form and rder fro hed form and rder fro hed form fro hed form fro hed form fro hed form fro hed form form form form form form form form	to Sur.) to Sur.) O' ) nation. test R-111- om Eddy 1593 N 1593 N 1593 SUBJECT TO EQUIREMEN TPULATIONS	or JTS

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false fictitious or fraudulent statements or representations of to any make within the initial data of the United States and false.

Submit to Appropriate District Office State Lease ~ 4 copies Fee Lease - 3 copies State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

# WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	SPENCE ENE	RGY CO.	Lease UNCCAL FEDERAL (2)			Well No.		
Unit Letter	Section Township		Range		<u> </u>	County		
F	23	19 SOUTH	Mange	30 EAST	NMPM	EDDY		
Actual Footage Loc			_L		tuni n			
2310 ree	t from the NO	RTH line and	1980		feet from	the WEST line		
Ground Level Elev	7. Producing Fo	rmation	Pool			Dedicated Acreage:		
3286.8'	Yates	5	North	Hackberry	- Yate	S-SR 40 Acres		
1. Outline the a	creage dedicated to	the subject well by colored	pencil or haci	nure marks on th	he plat below			
2. If more than	one lease is dedic	ated to the well, outline each	and identify	the ownership t	hereof (both	as to working interest and royalty).		
	one lease of differ force-pooling, etc.?	o the well, h	ave the interest of	of all owners	been consolidated by communitization,			
Yes Yes	No No	If answer is "yes" type	of consolidat:	on				
		nd tract descriptions which	have actually	been consolidat	ed. (Use reve	erse side of		
	rill be assigned to	o the well unit all interest rd unit, eliminating such in				itization, unitization, forced-pooling, on.		
		۱		1		OPERATOR CERTIFICATION		
	1					I hereby certify the the information contained herein is true and complete to the		
				. 		best of my knowledge and belief.		
						Signature		
		310				Printed Name		
L				 +	(	JERRY W. LONG		
	7					Permit Agent		
	3					Company SPENCE ENERGY COMPANY		
	3301 6	· 3005 7				Date		
	1980'	'r + -1 <sup>3285.7</sup> '		1		October 19, 1993		
	3303.4	·L 3285.0'				SURVEYOR CERTIFICATION		
				1		I hereby certify that the well location shown i on this plat was plotted from field notes of		
	1			1		actual surveys made by me or under my		
	1			1		supervison, and that the same is true and		
				1		correct to the best of my knowledge and belief.		
				1		Date Survey of L. LOAND		
				1		Signature & Stall VEX		
	1			1		REGISTION LAND		
				1		Certificate No. JOHN W. WEST. 876		
	ا ا			I 		RONALD J. EDBON, 3239		
0 330 660	990 1320 1850	0 1980 2310 2640 2	000 1500	1000 50		GARY L JONES, 7977		
				1000 50	0 0	93-11-1860		

#### SUPPLEMENTAL DRILLING DATA

SPENCE ENERGY COMPANY No.3 Unocal Federal 23 SENW Sec.23-19S-30E Eddy County, New Mexico Federal Lease NM-4350

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No.1:

- 1. SURFACE FORMATION: Recent
- 2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	230'	Yates	1700'
Salt	500'	Seven Rivers	1925'
Base Salt	1500'		

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

Water - Possible groundwater from 0' to 325'

Oil - 1700' to TD

Gas - Entrained Gas from 1700' to TD

4. PROPOSED CASING PROGRAM:

13-3/8" (	Casing -	Set 500' of 48#, H-40, ST&C Surface Casing. Circulate cement to the surface. Pressure tested to 600 psi, before and after drilling the plug.
8-5/8" (	Casing -	Set 1600' of 28#, H-40, ST&C Salt Protection Casing. Circulate cement to the surface. Pressure tested to 1000 psi, before and after drilling the plug.
5-1/2" (	Casing -	Set 2000' of 17#, K-55 production casing. Pressure tested to 1000 psi. Cemented to

tie back 200' into 8-5/8".

5. <u>PRESSURE CONTROL EQUIPMENT</u>: Install a 3M, Series 900, Type "LWP" Shaffer Double-ram Hydraulic BOP on the 8-5/8" Intermediate casing prior to drilling out cement. <u>EXHIBIT D</u> is a diagrammatic sketch of the BOP equipment. 6. <u>CIRCULATING MEDIUM</u>: Drill with fresh water mud from surface to setting depth of surface casing. Drill remainder of hole with brine mud, using additives to control salt wash-out, viscosity and mud weight.

#### 7. AUXILIARY EQUIPMENT:

- A. Equipment will include a full-opening safety valve, to fit the drill string in use, on the rig floor during drilling operations.
- B. H2S alarm monitors will be installed at the cellar and mud circulating pit.
- C. Breathing equipment will be located at the dog house and designated briefing area.
- D. Wind direction indicators will be positioned on opposite sides of the location.

### 8. TESTING, LOGGING AND CORING PROGRAM:

Samples: Samples will be caught at 10' intervals from the intermediate casing shoe to total depth.

DST and Cores: None anticipated

- Logging: Density-Neutron Log Gamma Ray-Neutron Log Other logs at discretion of wellsite geologist.
- 9. <u>ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:</u> This is a waterflood area so no abnormal pressures or temperatures are anticipated. H2S gas may be present at low pressure and volume. See attached H2S Drilling Plan.
- 10. <u>ANTICIPATED STARTING DATE</u>: Drilling will commence upon approval. Drilling and completion will require about 30 days.

# HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

# I. HYDROGEN SULFIDE TRAINING

All personnel will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. Hazards and characteristics of H2S.
- 2. Proper use of personal protective equipment.
- 3. Proper use of H2S detectors, warning systems, briefing areas and evacuation procedures.
- 4. A copy of this plan will be available at the well site.

### II. H2S SAFETY EQUIPMENT

H2S equipment and systems will be operational prior to drilling into a probable H2S zone.

- 1. Double-ram BOP and choke manifold will be installed prior to drilling the surface casing plug.
- 2. Air Pack breathing equipment will be located at the dog house and briefing area.
- 3. H2S monitors will be positioned at the cellar and mud circulating pit.
- 4. Wind direction indicators will be located on opposite sides of the drill pad.
- 5. H2S Danger sign will be installed on the well access road.
- 6. Rig radio and/or mobile car phones will be available at all times.

#### MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SPENCE ENERGY COMPANY No.3 Unocal Federal 23 SENW Sec.23-19S-30E Eddy County, New Mexico Federal Lease NM-4350

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

- 1. EXISTING ROADS:
  - A. <u>Exhibit "A"</u> is a portion of a road map showing the location of the proposed well as staked. The well is approximately 23 air miles northeast of Carlsbad, New Mexico.
  - B. <u>Directions</u>: Go northeast from Carlsbad, N.M. on U.S. 62 a distance of 15 miles. Turn northeast on NM 31 and go 5.6 miles to Eddy 222. Go northeast on Eddy 222 for 1.8 miles. Turn north on caliche lease road and go 2.5 miles to well No. 106. Go 1000' southwest to No.1 well. Go 610' north to No.2 well. Proposed well is 783' northwest.
- 2. PLANNED ACCESS ROAD:
  - A. Length and Width: The access road will be about 500' long and 14' wide.
  - B. <u>Surfacing Material</u>: If necessary the road and well pad will be surfaced with 6" of caliche.
  - C. Maximum Grade: Less than 2%
  - D. <u>Turnouts</u>: No traffic turnouts are necessary.
  - E. <u>Drainage Design</u>: The road will be maintained with a 6" crown and appropriate water turnouts to provide proper drainage.
  - F. Culverts: None

- G. Cuts and Fills: Construction of the well pad and new access road will require levelling of 4' sand dunes.
- H. Gates, Cattleguards: None
- 3. LOCATION OF EXISTING WELLS:
  - A. See EXHIBIT B.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. Test facilities will be located on the well pad.
  - B. Flow line to battery will be constructed along the new access road.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
  - A. Water for drilling and completion will be obtained from a commercial source and trucked over existing roads.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
  - A. In-situ material will be used to surface the road and well pad.
  - B. Any additional off-lease caliche for surfacing the road and pad will be obtained from a Federal pit located in the NESW Sec.31-19S-31E. This pit has had Archaeological clearance.

# 7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during test will be disposed of in the drilling pits. Oil produced during test will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash will be stored in an acceptable container and removed to an approved land fill.
- F. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.

#### 8. ANCILLARY FACILITIES:

A. On-lease R-O-W is requested to construct a 2" steel flow line on the surface beside the access road from No.3 well to the battery at the No.1 well.

# 9. WELL SITE LAYOUT:

- A. The wellsite, surrounded by a 400' X 400' area, has been surveyed and flagged.
- B. Dimensions and relative location of the drill pad and pit are shown on EXHIBIT C.
- C. Location of H2S equipment is indicated on EXHIBIT C.

# 10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is non-productive, the disturbed area will be rehabilitated to Federal Agency requirements and will be accomplished as expeditiously as possible.

### 11. OTHER INFORMATION:

- A. Topography: The wellsite slopes to the east.
- B. <u>Soil</u>: The surface soil is sandy loam with caliche and chert inclusions.
- C. <u>Flora and Fauna</u>: Vegetation consists of mesquite, greasewood and various weeds and grasses. Ground cover is about 5%. Wildlife in the area is that typical of semi-arid desert land, such as rodents, reptiles and small birds.
- D. Ponds or Streams: Seasonal Hackberry Lake is 1 mile southeast.
- E. <u>Residences and Other Structures</u>: The Horizon Potash Corporation mine shaft and refinery are located about 5 miles northwest. The Eddy Potash mine shaft is located 7 miles southwest. There are no residences in the area.

- F. <u>Archaeological, Historical and Other Cultural Sites</u>: No cultural sites were noted during staking of the location. A contract Archaeologist will furnish a separate report to BLM after an on-site review.
- G. Land Use: The surface is used for cattle grazing.
- H. <u>Surface Ownership</u>: The drillsite and access road are on Federal surface. The grazing lessee is Snyder Ranches, P.O. Box 726, Lovington, New Mexico 88260.

# 12. OPERATOR'S REPRESENTATIVE:

Representative responsible for assuring compliance with the approved Surface Use Plan:

Mr. L. O. Spence 4849 Greenville Ave., Ste.381 Dallas, Texas 75206 Phone 214-739-0027

#### 13. CERTIFICATION:

I hereby certify that I, or person under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; that the work associated with the operations proposed herein will be performed by SPENCE ENERGY COMPANY and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

October 19, 1993	Aurry the Tang
Date:	JERRY W. LONG, Permit Agent for: SPENCE ENERGY COMPANY







Prevailing Wind From Southwest

 $\triangle$  H<sub>2</sub>S Monitor

P

Wind Indicator

Protective Equipment

DRILL PAD LAYOUT

EXHIBIT C



### BOP DIAGRAM

3000# Working Pressure Rams Operated Daily

