- · · · · · · · · · · · · · · · · · · ·	12 13 74°						
Form 3160-3 (September 2001)	200 <del>5</del>	THING 1	2 0		APPROVEI 5. 1004-0136 anuary 31,	5	
UNITED STATES  DEPARTMENT OF THE	INTERIOR		ECEIVI	5. Lease Serial No. NM04208			
BUREAU OF LANDEMAN APPLICATION FOR PERMIT TO		~~~~~	1	6. If Indian, Allotee	or Tribe l	Vame	
la. Type of work: DRILL REENT	ER Called	<u>~</u>		7 If Unit or CA Agre	ement, Na	me and No.	
lb. Type of Well: Oil Well Gas Well Other							
Name of Operator     West Largo Corp.				9. API Well No. 3 U - 0 4 5 - 3 2 5 1 8			
3a. Address 8801 So. Yale, Suite 240, Tulsa, OK 74137-3535	3b. Phone N	0. (include area code) 192-3239		10. Field and Pool, or Exploratory  Basin Fruitland Coal			
4. Location of Well (Report location clearly and in accordance with an	ny State require	ments.*)		11. Sec., T. R. M. or B	lk. and Su	vey or Area	
At surface 900' FSL - 840' FEL, Section 14, To At proposed prod. zone Same	28N, R9W, I	NMPM		ρ Section 14, T2	8N, R9W	, NMPM	
14. Distance in miles and direction from nearest town or post office* 7 miles southeast of Blanco, NM				12. County or Parish San Juan		13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft.	nearest						
(Also to nearest drig. unit line, if any) 840	at drig. unit line, if any) 840° 2520.15				320.0 acs		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  600	drilling, completed,				/BIA Bond No. on file 2283		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6059' GL	22. Approx	imate date work will sta 09/01/2004	rt*	23. Estimated duration 10 days			
	24. Atta	nchments					
The following, completed in accordance with the requirements of Onsho	re Oil and Gas	Order No.1, shall be a	ttached to th	is form:			
Well plat certified by a registered surveyor.     A Drilling Plan.		4. Bond to cover the litem 20 above).	he operation	ns unless covered by an	existing t	ond on file (see	
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the	5. Operator certific	specific info	ormation and/or plans as	may be re	equired by the	
25. Signature Rebut E. Filde	Name	(Printed/Typed)  Robert E. Fielder			Date <b>08</b> /0	)9/2004	
Title Agent							
Approved by (Signature)		c (Printed/Typed)			Date		
Titles	Offic		Dani	<u> </u>	08	109/05	
Acting Arm		ARMINETO		157210	OFFI		
Application approval/does not warrant or certify that the applicant hole conduct operations thereon.  Conditions of approval, if any, are attached.	is legal or equ	utable title to those righ	ts in the sub	ject lease which would e	entitle the a	pplicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any to any matter	person knowingly and w within its jurisdiction.	villfully to m	ake to any department of	or agency	of the United	
*(Instructions on page 2)		<del></del>	DRILLING	OPERATIONS			
This action is subject to technical ដីក៏ដ procedural review pursuant to 43 CFR 3165.3			SUBJECT "GENERA	OPERATIONS AUTH TO COMPLIANCE W L REQUIREMENTS".	HORIZED ITH ATT	ARE ACHED	

and appeal pursuant to 43 CFR 3165.4

NMOCD

PO Box 2088
Santa Fe, NM 87504-2088

Ppp1 Code

District III 1000 Ajo Brazos Ad., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

APT Number

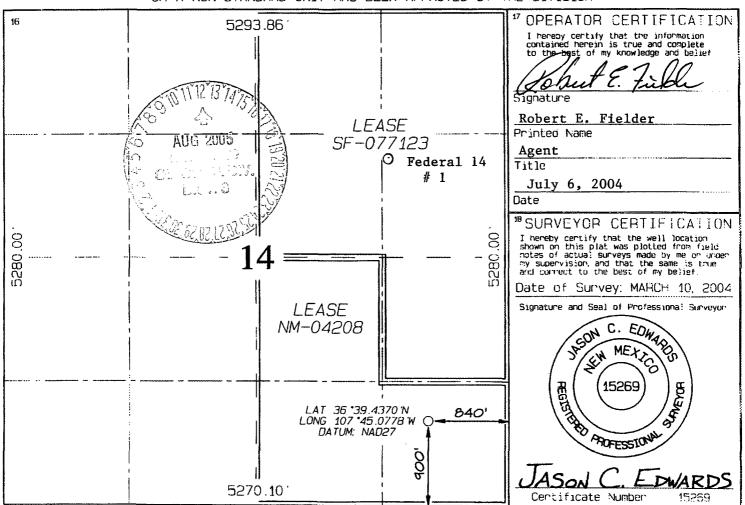
# RECHIVEDEPORT

AUG 1 2 2004

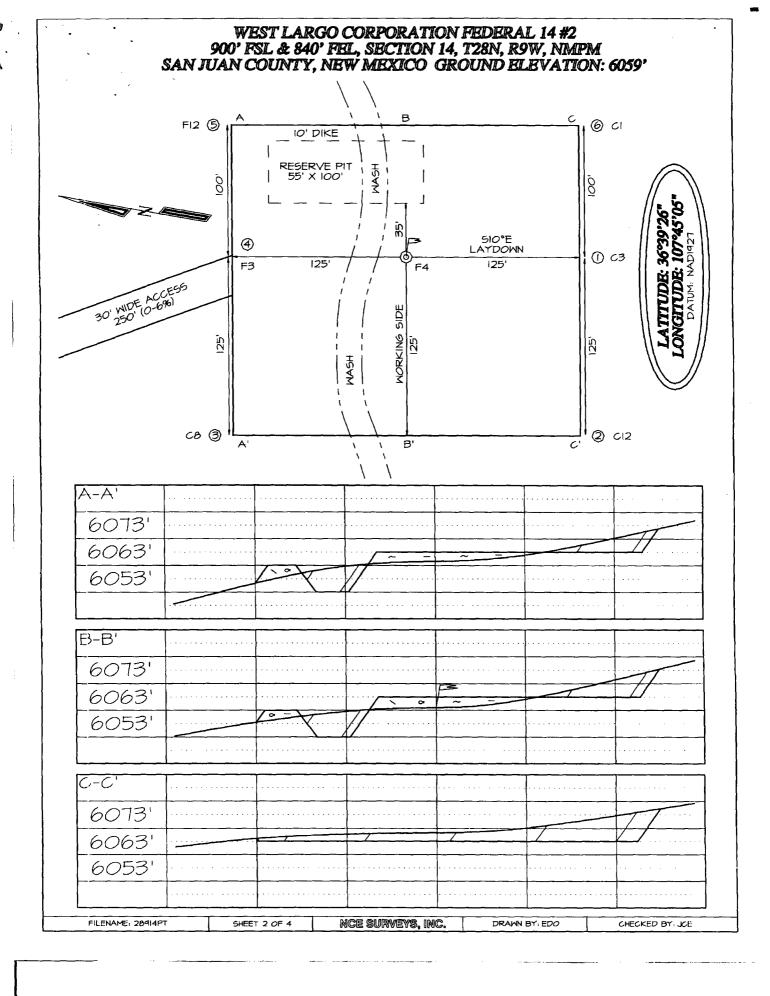
Pool Namington Field Office

WELL LOCATION AND ACREAGE DEDICATION BURGE of Land Management

	AFI NUMBE			74000	1	DACTAL MOLITILAND COAL					
30-04	15-3	2518		71629		BASIN FRUITLAND COAL					
*Property	Code	Property Name					5 W	*Well Number			
1416	3	FEDERAL 14					2				
'OGRID I	No.	*Operator Name					•	*Elevation			
3719	7		WEST LARGO CORPORATION 6059					60591			
			1		<sup>10</sup> Surface	Location					
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County		
Þ	14	28N	9W		900	00 SOUTH 840 EAST SAN JUA					
		<sup>11</sup> Bottom Hole Location If Different From Surface									
UL, or lot no	Section	QKR2NWO*	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County		
<sup>12</sup> Deducated Acres		.0 Acres	s - (E	/2)	figure of Infill	<sup>14</sup> Consolidation Code	<sup>25</sup> Order No.				
NO ALLOV	NABLE W					ON UNTIL ALL EEN APPROVED			NSOLIDATED		
40			_				17 ODED	ATOR CERT	TETCATION		



Submit 3 Copies To Appropriate Dist Office	trict	State of N	New Mex	xico				Form C	-103
District I		Energy, Minerals and Natural Resources			March 4, 2004				
1625 N. French Dr., Hobbs, NM 8824 District II	40	OIL CONSERVATION DIVISION			WELL API NO.				
1301 W. Grand Ave., Artesia, NM 88	3210				5. Indicate Type of Lease				
District III 1000 Rio Brazos Rd., Aztec, NM 874	<b>‡</b> 10	1220 South			STATE FEE				
District IV		Santa Fe,	, NM 87	505	6. State Oi	l & Ga	s Lease No		
1220 S. St. Francis Dr., Santa Fe, NM 87505	1								
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH						7. Lease Name or Unit Agreement Name Federal 14			
PROPOSALS.)  1. Type of Well:	/	•			8. Well Nu	ımber		<del></del>	
Oil Well Gas Well	1 🗹 Ot	ther			2				
2. Name of Operator					9. OGRID	Numb	er		
West Largo Corp  3. Address of Operator					37197 10. Pool na	ame or	Wildest		
8801 S. Yale, Suite 240 Tulsa	a. OK 74	4137-3535			Basin Fruit				
4. Well Location	<del>.,,</del>				1				
Unit LetterP	:90	900feet from the _	South	line and	_840f	eet fror	n theE	ast	line
Section 14		Township 2	8N	Range 9W	NMP	PM S	an Juan	Co	unty
	1	11. Elevation (Show who							
AND THE STREET,		6059' GL	_						
	(E) **				ear				
Pit or Below-grade Tank Applicatio  Pit Location: UL_P_Sect_14_Twp  Distance from nearest surface wa	p_28N_Rng	ng9W Pit typeDrilling	gDepth	to Groundwater_>10	oft_Distance fro			er well>1	000 ft_
Pit Location: UL_P_Sect_14_Twp Distance from nearest surface wafeet from theline  12. Che	p_28N_Rnn hter_>1499 and eck App	og_9W Pit typeDrilling  ft_ Below-grade Tank Locfeet from the  propriate Box to Inc.	gDepth of the cation ULline	to Groundwater_>10SectT	oft_Distance frowpRng_	Other	Data	7.5	000 ft_
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## 900' FSL & 840' FEL, SECTION 14, T28N, R9W, NMPM SAN JUAN COUNTY, NEW MEXICO GROUND BLEVATION: 6059' В FI2 (5) ⑥ CI 10' DIKE RESERVE PIT 55' X 100' <u>0</u> ATITUDE: 36'39'26 35 SIO°E LAYDOWN 4 ① c3 125 125 F3 30' MOE ALCESS 30' 1250' (0-6%) MORKING SIDE 125 125 MASH CB 3 ② Ci2 ₿' A-A' 6073' 6063' 6053 B-B' 6073' 6063' 6053' C--C' 6073' 6063 6053' FILENAME: 28414PT SHEET 2 OF 4 NCE SURVEYS, INC. DRAWN BY EDO CHECKED BY: JOE

# West Largo Corp. Federal 14 No. 2 980' FSL & 840' FEL Section 14, T28N, R9W, NMPM San Juan County, New Mexico

#### TEN POINT DRILLING PROGRAM

1. Surface Formation: Nacimiento

2. Surface Elevation: 5853'GL.

#### 3. Estimated Formation Tops:

Formation	Top - feet	Expected Production
Nacimiento	surface	
Ojo Alamo	1345	
Kirtland	1498	
Farmington	1734	
Fruitland	2049	
Fruitland Coal	2355	GAS
Pictured Cliffs	2382	GAS
Lewis	2532	
TOTAL DEPTH	2590	

#### 4. Surface Hole Program:

Bit: Drill an 124" hole to 200' using a retip mill tooth, IADC Class 115 or 116, bit. WOB: all. RPM: 70 - 100.

Mud: Use a fresh water base spud mud with the following properties:

Interval (ft)	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
0 - 200	8.6 or less	9.0-9.	5 40 - 50	No Control

Casing and Cementing: A string of 8%" 24 ppf J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 140 sacks (165.2 cf) of Class "B" cement (yield = 1.18 cf/sk) containing 3% CaCl<sub>2</sub> and 1/4 lb/sack celloflake. Slurry volume assumes 100% excess over calculated hole volume. If cement does not circulate to surface, cement will be topped off using 1" pipe down the 12%" by 8%" annulus. Minimum clearance between couplings and hole is 1.3125". Prior to drilling out the shoe, casing and BOPE will be tested to a minimum of 600 psig. Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb overpull, whichever is greater.

WOC 12 HOURS. Nipple up 11" 2000# BOPE. Pressure test surface casing and BOPE to 600 psi for 15 minutes.

Centralizers: Run two (2) 8%" X 124" regular bowspring centralizers. Install first one on stop ring in middle of shoe joint.

Float Equipment: Cement nose guide shoe thread locked. Also thread lock connection between first and second joint run.

Drilling Program West Largo Corp. Federal 14 No. 2 Page Two

#### 5. Production Hole Program:

**Bit:** Drill an 7%" hole to 2590' using a TCI, IADC Class 447 bit. WOB: 30-35K. RPM: 60 - 75. Reduce RPM to 55 - 65 through Ojo Alamo.

**Mud:** Use a fresh water base polymer and water system to drill this section. If hole conditions dictate, mud up with a fresh water base LSND mud with the following properties:

Interval (ft)	Weight (ppg)	<u>Ph</u>	Vis(sec/qt)	Water Loss
200 - 2590	8.6 - 8.8	9.0-9.5	28 - 35	10 - 12

Fresh water will be used for dilution and building volume. Sufficient materials will be on location at all times to maintain mud properties and to control any lost circulation problem or unforeseen abnormal pressures. The mud volume in the surface pit will be visually monitored and recorded on a routine basis.

Note: If mud up is required, raise **viscosity** to 55 - 60 for logging. Thin to 40 - 45 viscosity to run casing.

**pH** is to be maintained with lime or caustic soda at the recommended levels to assure drill pipe corrosion protection.

Drispac will be used for control of fluid loss.

<u>Lost Circulation</u> can occur in the Fruitland Coal and Pictured Cliffs formation. Mud weights should be controlled as low as possible with solids control equipment then as low as practical with water dilution.

Pressure Control: A 2M psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested to a minimum of 600 psig before drilling out from under surface casing. Mechanical operation of pipe rams will be checked daily and blind rams will be checked on each trip out of hole. 4½" rams will be installed before running production casing. A full opening internal blowout preventor or drill pipe safety valve will be on the drill floor at all times and will be capable of fitting all connections.

Logging Program: Dual Induction and Compensated Neutron/Formation Density logs will be run from TD to the surface casing shoe.

Casing and Cementing Program: Run 4½" 10.5 ppf J-55 production casing from surface to TD and cement in a single stage with 300 sacks (765.0 cf) of Class B containing 3% sodium metasilicate extender, 5 pps Gilsonite and 1/4 pps celloflake. Lead slurry mixed at 11.8 PPG to yield 2.55 cf/sk. Tail in with 100 sacks (119.0 cf) of Class B with 0.25 pps celloflake, 0.3% FLA and 5 pps gilsonite mixed at 15.6 PPG to yield 1.19 cf/sk.

Drilling Program West Largo Corp. Federal 14 No. 2 Page Three

#### 5. Production Hole Program: -continued

Slurry volumes assume a 50% excess over gauge hole volume to circulate to surface. Minimum clearance between couplings and hole is 1.4375". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb over pull, whichever is greater.

Centralizers: 5 - 4½" X 7½" bowspring centralizers will be run across all prospective pays and 2 - 4½" X 7½" turbolizers will be spaced such that one (1) is just below the base of the Ojo Alamo and one (1) in the Ojo Alamo.

Float Equipment: Cement nose guide shoe, 1 joint 4½" casing, and float collar.

#### 6. Auxiliary Equipment:

An upper kelly cock will be utilized. The handle will be available on rig floor at all times

#### 7. Logging Program:

Dual Induction and Compensated Neutron / Formation Density will be run from TD to surface casing shoe. Bulk density will be presented on a 5 "scale through the coals. Deep induction curve will be merged onto the porosity log.

#### Coring and Testing Program:

No cores or drill stem tests are planned.

#### 8. Abnormal Pressure:

Although not expected, abnormal pressures are possible in the  $\operatorname{Fruitland}$  formation.

#### Estimated Bottom Hole Pressure:

250 - 300 psig.

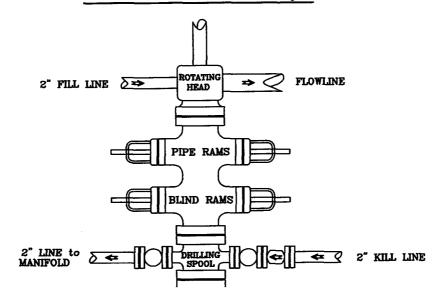
#### 9. Anticipated Starting Date:

September 1, 2004

**Duration of Operations:** It is estimated a total of 6 days will be required for drilling operations and 5 days for the completion operation.

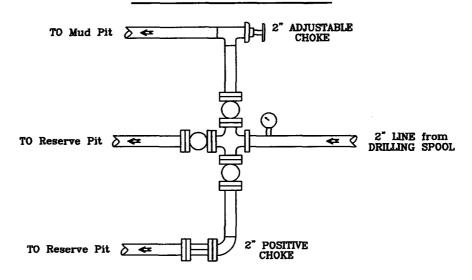
# PRESSURE CONTROL

## Wellhead Assembly



Preventer and Spools are to have a 6" Bore or larger and a 2000 PSI or higher Pressure Rating

### Choke Manifold



# West Largo Corp

Federal 14 No. 2 900' FSL - 840' FEL Section 14, T28N, R9W, NMPM San Juan County, New Mexico