Form 3160-3 (September 2001)

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT, O FORMAGE COMMENTS SF077123 6. If Indian, Allotee or Tribe Name

Lease Serial No. SF077123

APPLICATION FOR PERMIT TO	DRILL OF	REENTER		,			
la. Type of work: DRILL REENTER				7 If Unit or CA Agreement, Name and No.			
lb. Type of Well: Oil Well Gas Well Other	Sir	ngle ZoneMultip	8. Lease Name and Well No. Federal 12 No. 1				
2. Name of Operator West Largo Corp.				9. API Well No.	fs 3	319	702
3a. Address 8801 S. Yale, Suite 240 Tulsa, OK 74137-3535 3b. Phone No. (include area code) 918-492-3239			10. Field and Pool, or Exploratory Basin Fruitland Coal				
4. Location of Well (Report location clearly and in accordance with a	ny State requirem	ents.*)		11. Sec., T. R. M. or E	31k. and Surv	ey or Ar	rea
At surface 1200' FSL - 1475' FEL At proposed prod. zone Same				O Section 12, T2	8N, R9W,	NMPN	1
14. Distance in miles and direction from nearest town or post office* 7 miles southeast of Blanco, NM	100			12. County or Parish San Juan		13. State	NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of a	cres in lease	A!	ing Unit dedicated to this well 269.88 acs(all of section)			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 300	19. Proposed	i Depth	20. BLM/ NM2	/BIA Bond No. on file 2283			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5739' GL	22. Approximate date work will start* 10/15/2003			23. Estimated duration 3 weeks			
	24. Attac	hments					
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas	Order No.1, shall be a	ttached to th	is form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	Lands, the	Item 20 above). 5. Operator certific	cation	ons unless covered by an	Ü		·
SUPO shall be filed with the appropriate Forest Service Office).		6. Such other site authorized office	specific inf er.	ormation and/or plans as	s may be re	quired by	y the
25. Signature Lahut E. Filde		(Printed/Typed) Robert E. Fielder			Date 09/18	8/2003	
Title Agent							
Approved by (Signature) Approved J. Menkiewicz	Name	(Printed/Typed)		·	DMOV	10	2003
Title	Office				L		
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	is legal or equi	table title to those righ	ts in the sub	oject lease which would o	entitle the ap	plicantt	to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c	rime for any pe	erson knowingly and w	villfully to n	nake to any department of	or agency o	f the Un	ited

*(Instructions on page 2) .

This action is subject to technical and propodural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRULING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED SENERAL REQUIREMENTS".

District I , PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

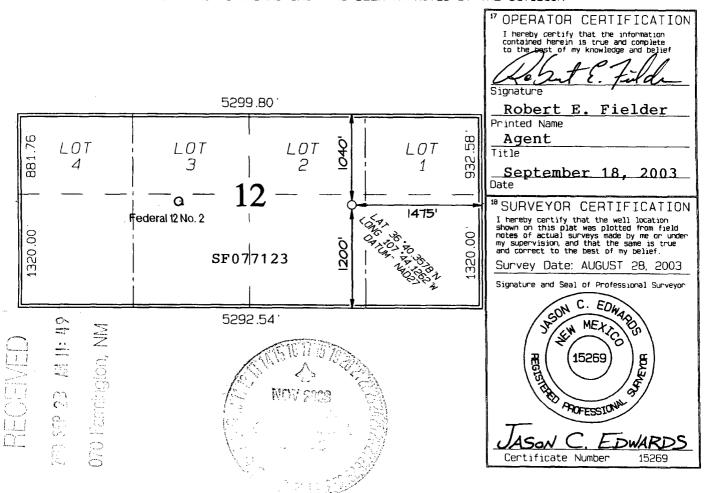
State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

) ' <i>A</i>	√PI Numbei	_	1	*Pool Coc	te i	'Pool Name					
30-00	15-3	31907	2	71629)	BASIN FRUITLAND COAL					
*Property	Code	<u> </u>	⁵ Property Name					er			
14171			FEDERAL 12					1			
'OGRID I	No.		*Operator Name *Elevatio					levation	า		
37197	7			WE	EST LARGO CORPORATION 5739						
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	Co	unty
0	12	28N	9W		1200	SOUTH	1475	EAST SAN		JUAN	
¹¹ Bottom Hole Location If Different From Surface											
Ut or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	Co	unty
12 Dedicated Acres					13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.				
269.8	8 Acre	s – Ent	ire Se	ction	Y						

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



West Largo Corp. Federal 12 No. 1 1200' FSL & 1475' FEL Section 12, T28N, R9W, NMPM San Juan County, New Mexico

TEN POINT DRILLING PROGRAM

1. Surface Formation: Nacimiento

2. Surface Elevation: 5739'GL.

3. Estimated Formation Tops:

Formation	Top - <u>fe</u> et	Expected Production
Nacimiento	surface	
Ojo Alamo	979	
Kirtland	1228	
Fruitland	1809	
Fruitland Coal	2107	GAS
Pictured Cliffs	2132	GAS
Lewis	2325	
TOTAL DEPTH	2332	

4. Surface Hole Program:

Bit: Drill an 8 3/4" 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 7" 20 ppf J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 55 sacks of Class "B" cement (yield = 1.18 cf/sk) containing $3\% \text{ CaCl}_2$ 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 8 3/4" by 7" annulus. Minimum clearance between couplings and hole is 0.5470". 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 7 1/16" 2000# BOPE. Pressure test surface casing and BOPE to 600 psi for 15 minutes.

Centralizers: Run two (2) 7" X 8 34" 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.

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5. Production Hole Program:

Bit: Drill an 6 4" hole to 2332' 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 - 2332	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 115 sacks (293.3 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 65 sacks (77.4 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 12 No. 1
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 0.6250". 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: $5-4\frac{1}{2}$ " X $6\frac{1}{4}$ " bowspring centralizers will be run across all prospective pays and $2-4\frac{1}{2}$ " X $6\frac{1}{4}$ " 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 $4\frac{1}{2}$ " 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 Fruitland formation.

Estimated Bottom Hole Pressure:

250 - 300 psig.

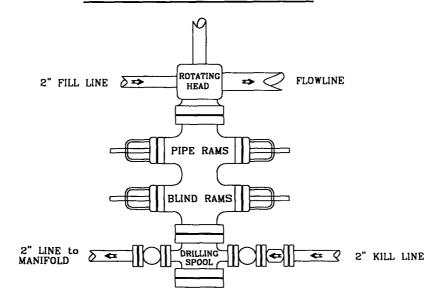
9. Anticipated Starting Date:

October 15, 2003.

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

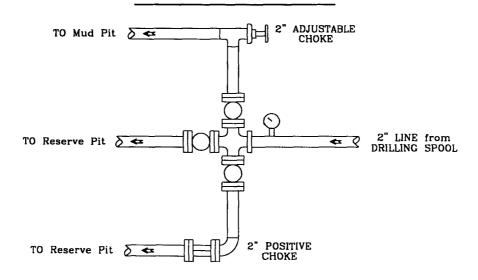
PRESSURE CONTROL

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 12 No. 1 1200'FSL - 1475'FEL Section 12, T28N, R9W, NMPM San Juan County, New Mexico