

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work <b>DRILL</b>	5. Lease Number <b>USA SF-077974</b> Unit Reporting Number
1b. Type of Well <b>GAS</b>	6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> <b>RESOURCES Oil &amp; Gas Company, LP</b>	7. Unit Agreement Name
3. Address & Phone No. of Operator <b>PO Box 4289, Farmington, NM 87499</b> <b>(505) 326-9700</b>	8. Farm or Lease Name <b>Lodewick</b> 9. Well Number <b>#1S</b>
4. Location of Well <b>Unit M (SWSW), 880' FSL &amp; 660' FWL</b>  <b>Latitude 36° 34.2177 N</b> <b>Longitude 107° 50.1333 W</b>	10. Field, Pool, Wildcat <b>Basin Fruitland Coal</b>  11. Sec., Twn, Rge, Mer. (NMPM) <b>Sec. 18, T27N, R9W</b>  <b>Int 4</b> <b>API # 30-045- 34271</b>
14. Distance in Miles from Nearest Town <b>26 mile/Bloomfield</b>	12. County <b>San Juan</b> 13. State <b>NM</b>
15. Distance from Proposed Location to Nearest Property or Lease Line <b>660'</b>	17. Acres Assigned to Well <b>FC - 322.4 (W/2)</b>
16. Acres in Lease	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease <b>85' from Lodewick 3</b>	20. Rotary or Cable Tools <b>Rotary</b>
19. Proposed Depth <b>2698'</b>	
21. Elevations (DF, FT, GR, Etc.) <b>6614' GL</b>	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program <b>See Operations Plan attached</b>	
24. Authorized by: <u><i>Rhonda Rogers</i></u> <b>Rhonda Rogers (Regulatory Technician)</b>	<u><i>4-11-07</i></u> Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY *[Signature]* TITLE *ATEN* DATE *5/8/07*

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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 presentations as to any matter within its jurisdiction.

Example Master Plan Type 2

This section is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

NMOCD

B 5/10

DISTRICT I  
1826 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
1220 E. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

2007 APR 13 PM 2  
RECEIVED  
210 FARM  
AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34271		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL	
*Property Code 7273	*Property Name LODEWICK			*Well Number 1S
*OGS No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			*Elevation 8814'

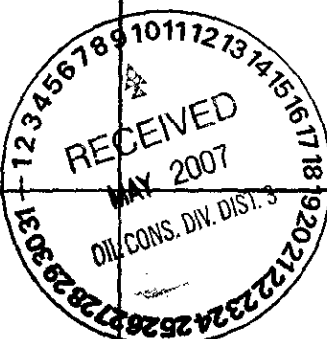
#### 10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	18	27-N	9-W	24	880'	SOUTH	880'	WEST	SAN JUAN

#### 11 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
M									
*Dedicated Acres 322.400 W/2			*Joint or Infill		*Consolidation Code		*Order 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

USA SP-077874			17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this information either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.  Kandis Roland Signature Kandis Roland Printed Name	
LOT 1				
LOT 2				
COPC USA SP-077874				
LOT 3		LAT: 36°34.2177' N. LONG: 107°50.1833' W. NAD 1983  LAT: 36.570304' N. LONG: 107.836171' W. NAD 1983	18 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 supervision, and that the same is true and correct to the best of my belief.  2-28-07 Date of Survey Signature CLAY W. RUSSELL NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR Certificate Number 15703	
LOT 4				

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Energy, Minerals and Natural Resources

**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-045- **34271**

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

Federal Lease # USA SF-077974

7. Lease Name or Unit Agreement Name

Lodewick

8. Well Number

#1S

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal

**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 PROPOSALS.)

1. Type of Well:

Oil Well ☐

Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter M

:

880'

feet from the

South

line and

660'

feet from the

West

line

Section 18

Township

27N

Rng

9W

NMPM

San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6614'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type New Drill

Depth to Groundwater

>100

Distance from nearest fresh water well

>1000

Distance from nearest surface water

>1000

Pit Liner Thickness:

N/A

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☐

TEMPORARILY ABANDON ☐

PULL OR ALTER CASING ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

MULTIPLE COMPL ☐

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING/CEMENT JOB ☐

ALTERING CASING ☐

P AND A ☐

OTHER:

New Drill

☒

OTHER:

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Unlined:

Burlington Resources proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and vent/flare pit will be an unlined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids, and that portion will be unlined, as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

*Rhonda Rogers*

TITLE

Regulatory Technician

DATE

4-11-07

Type or print name

Rhonda Rogers

E-mail address:

ogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

*[Signature]*

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. 4

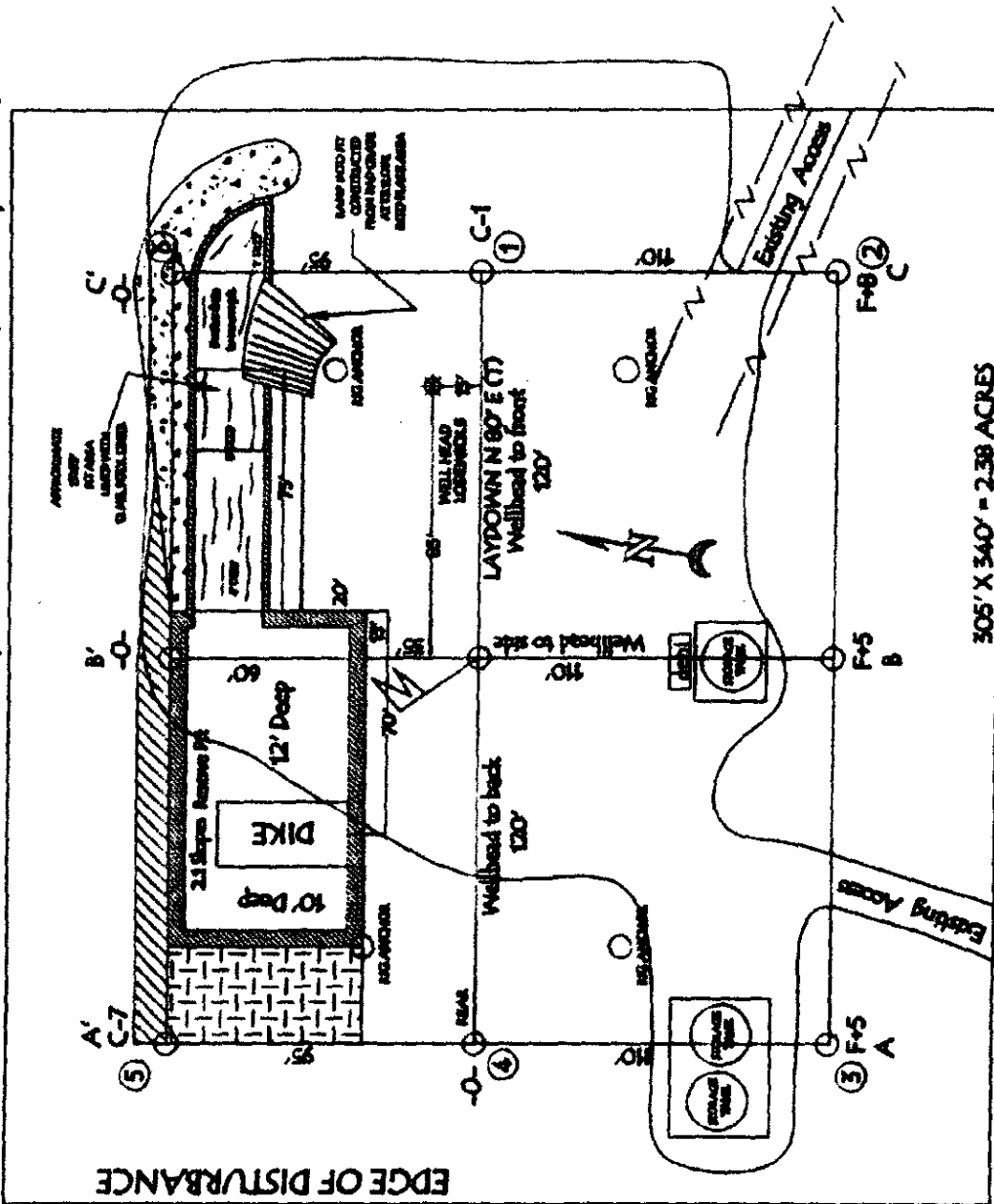
DATE

5/10/07

Conditions of Approval (if any):

6

**BURLINGTON RESOURCES OIL & GAS COMPANY LP**  
**LODEWICK 15, 880' FSL & 660' FWL**  
**SECTION 18, T-27-N, R-9-W, NMPM, SAN JUAN COUNTY, NM**  
**GROUND ELEVATION: 6614', DATE: FEBRUARY 7, 2007**

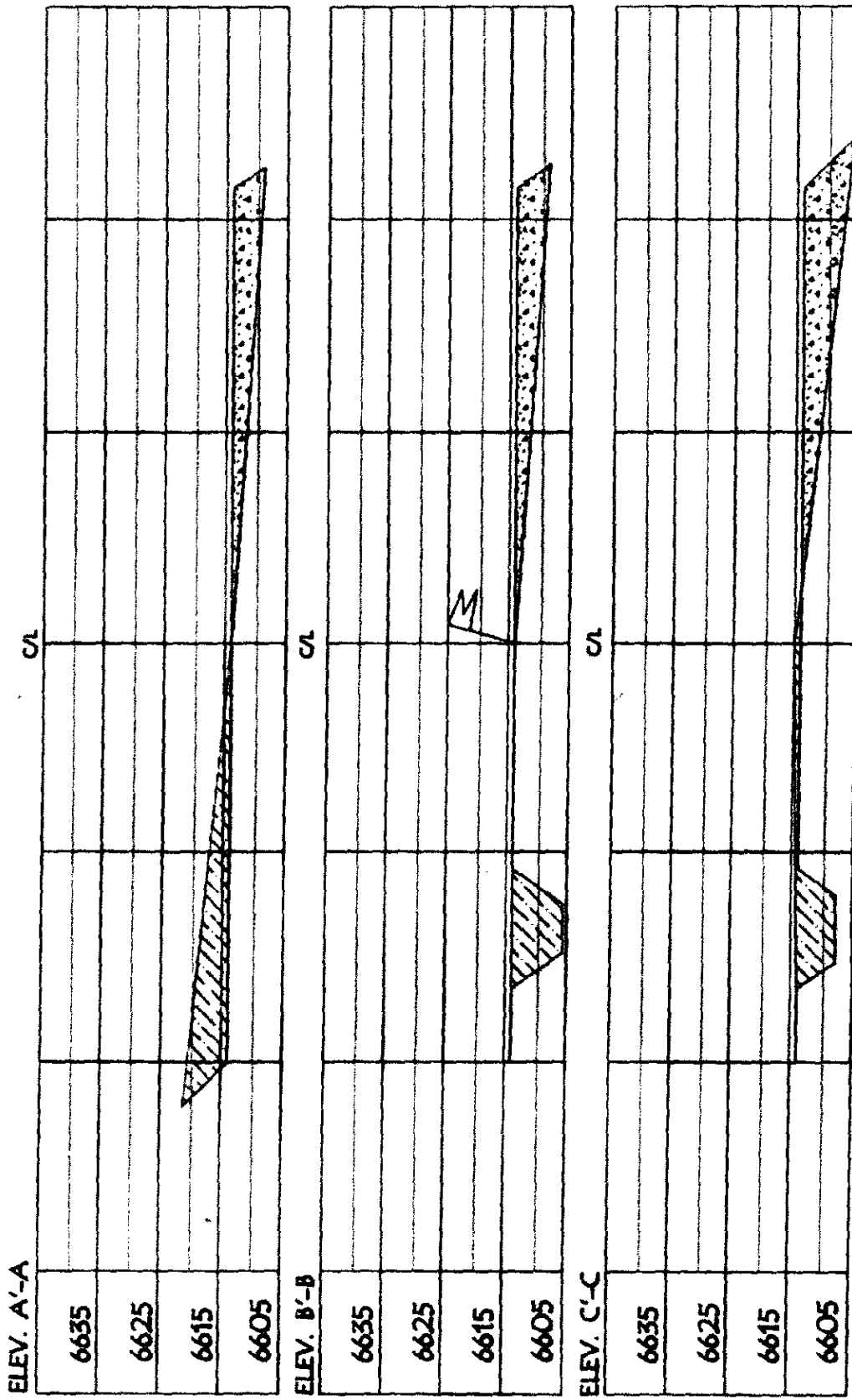


RESERVE PIT DIKE: TO BE 8" ABOVE DEEP SIDE (OVERFLOW - 8" WIDE AND 1" ABOVE SHALLOW SIDE).

NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

LATITUDE 36° 34.2177'N LONGITUDE: 107° 50.1333'W NAD27

**BURLINGTON RESOURCES OIL & GAS COMPANY LP**  
 LODWICK 15, 880' FSL & 660' FWL  
 SECTION 18, T-27-N, R-9-W, NMPM, SAN JUAN COUNTY, NM  
 GROUND ELEVATION: 6614', DATE: FEBRUARY 7, 2007



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.  
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 PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LODEWICK 1S

DEVELOPMENT

Lease:	AFE #: WAN.CDR.7017		AFE \$: 207,115.03
Field Name: hBR_SAN JUAN	Rig: Aztec Rig 580	State: NM	County: SAN JUAN
Geologist:	Phone:	Geophysicist:	Phone:
Geoscientist: Clark, Dave D	Phone: 505-326-9762	Prod. Engineer:	Phone:
Res. Engineer: Schlabaugh, Jim L	Phone: 505-326-9788	Proj. Field Lead:	Phone:

<b>Primary Objective (Zones):</b>	
Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

<b>Location: Surface</b>		<b>Datum Code: NAD 27</b>		<b>Straight Hole</b>	
Latitude: 36.570295	Longitude: -107.835550	X:	Y:	Section: 18	Range: 009W
Footage X: 660 FWL	Footage Y: 880 FSL	Elevation: 6614	(FT)	Township: 027N	
Tolerance:					

Location Type: Year Round	Start Date (Est.):	Completion Date:	Date In Operation:
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Formation Data:	Assume KB = 6626	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6506	<input type="checkbox"/>			8-3/4" hole. 7" 20.0 ppf, J-55, STC casing. Circulate cement to surface. Cement with 50 cuft.
OJO ALAMO	1524	5102	<input type="checkbox"/>			Possible water flows.
KIRTLAND	1710	4916	<input type="checkbox"/>			
FRUITLAND	2205	4421	<input type="checkbox"/>			Possible gas.
PICTURED CLIFFS	2498	4128	<input type="checkbox"/>	125		
Total Depth	2698	3928	<input type="checkbox"/>			6-1/4" hole. 4 1/2" 10.5 ppf, J-55 STC. Circulate cement to surface. Cement with 415 cuft.

<b>Reference Wells:</b>		
Reference Type	Well Name	Comments

<b>Logging Program:</b>	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input type="checkbox"/> TDT <input checked="" type="checkbox"/> Other
GR/CBL	

<b>Additional Information:</b>					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - FCNM027N009W18SW1 Offset used is Lodewick 3 SW18-27N-09W.

Zones - FCNM027N009W18SW1

General/Work Description - 2/19/07 re-stake-possible directional (is economic) wfp. Make sure cost include jet pump funds.