UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED

OMB No. 1004-0137 Form 3160-3 BUREAU OF LAND MANAGEMENT Expires March 31, 2007 (April 2004) APPLICATION FOR PERMIT TO DRILL OF REENTER NMNM-99735 6. If Indian, Allottee or Tribe Name DRILL 7. If Unit or CA, Agreement, Name and No. 1a. Type of Work REENTER Oil Well Gas Well Other Single Zone Multiple Zone 8. Lease Name and Well No. 1b. Type of Well: Synergy 21-7-7 # 136 2. Name of Operator 9. API Well No. 30-04<u>3-21022</u> Synergy Operating, LLC NM OGRID # 163458 10. Field and Pool, or Exploratory PO Box 5513 3b. Phone Number **Basin Fruitland Coal** 3a. Address Farmington, NM 87499 (505) 325-5449 11. Sec., T., R., M., or Blk. and Survey or Area 4. Location of Well (Footage, Sec, T. R., M, or Survey Description) **T**Sec 07, T-21-N, R-07-W Unit Letter J, 1835' FSL, 1970' FEL, Sec 7, T21N-R7W At surface: At proposed prod. Zone: 12. County or Parish, 13. State 14. Distance in miles and direction from nearest town or post office* Sandoval **New Mexico** 11 Miles South of Lybrook, New Mexico. Turn South US Hwy 550 MM - 113.25 15. Distance from proposed* 16. No of Acres in lease 17. Spacing Unit deflicated to this well 320.00 location to nearest 1835 Feet from South Line 322:00 Acres - East Half 1.921.60 Acres propety or lease line, ft. (Also to nearest drlg. Unit line, if any) 20. BLM/BIA Bond No. 19. Proposed Depth 18. Distance from proposed* 1970 Feet from East Line NM-2559 850' location to nearest propety or lease line, ft. 21. Elevation (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 22. Approximate date work will start 6606' Ground Level May 15, 2006 30 days ≅ 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. 2. A Drilling Plan Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO shall be filed with the appropriate Forest Service Office. 6. Such other site specific information and/or plans as may be required by the authorized officer Quantity of Cement Size of Hole Grade, Size of Casing Weight per Foot Setting Depth 12-1/4 8-5/8" K-55 52 sxs, 74 ft3 - 100% Excess 24# 7-7/8" 5-1/2" K-55 15.5# 850 211 sxs, 294 ft3 - 100% OH Excess SEE ATTACHED APD INFORMATION Latitude: 36.06402 Deg N Longitude: 107.61515 Deg W Name(Printed/Typed) 25. Signature 4-14-06 Thomas E. Mullins Title **Engineering Manager** Approved by (Signature) Name(Printed/Typed) Title Office

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the United States any false, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

DISTRICT 1 1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 23 2040 South Pacheco Senta Fe, NM 87505

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

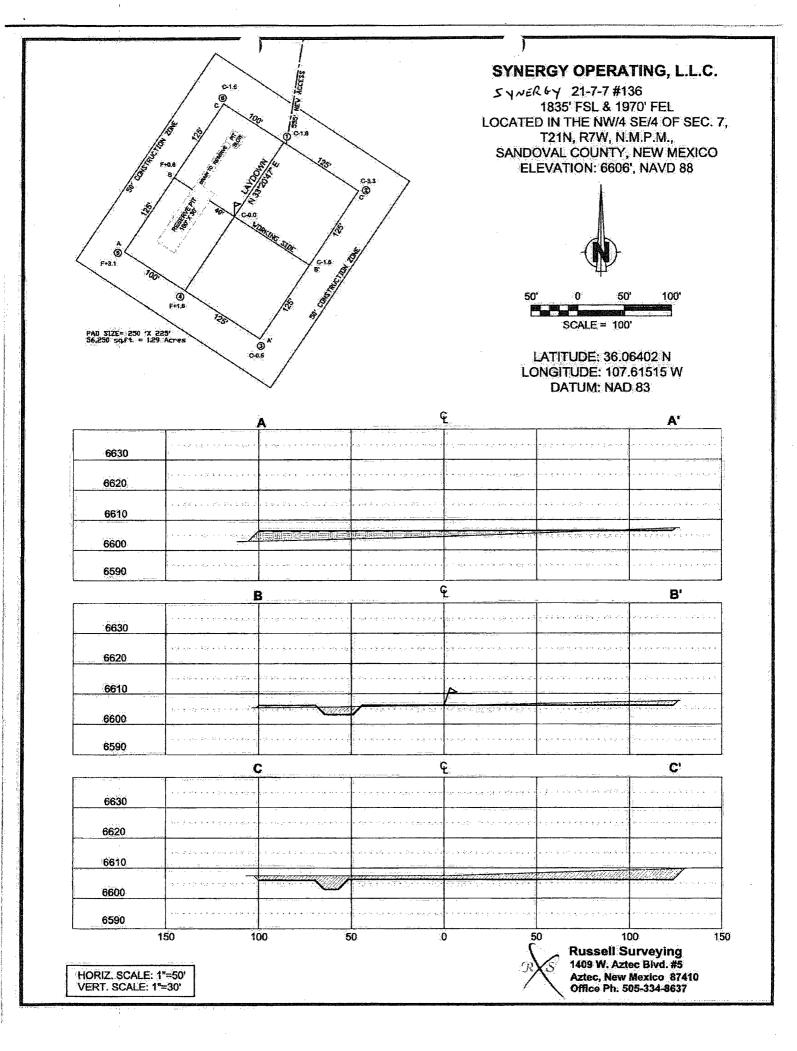
Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT IV

☐ AMENDED REPORT

2040 South Pache	co, Santa				A *** .** pm				
		1	VELL L	OCATIO	n and ac	REAGE [®] DED	ICATION PI	AT	
30-043-21022 Pool Code				1	Pool Name FRUITLAND COAL				
*Property Code		Prop			Name -7	-	Well Number		
**OGRID No. 163458		*Operator Name SYNERGY OPERATING, L.L.C.					Elevation 6606		
4	***************************************				10 Surface	Location			
UL or lot no.	Section 7	Township 21N	Range 7W	Lot Idn	Feet from the 1835	North/South line SOUTH	Feet from the 1970'	East/West line EAST	County SANDOVAL
			11 Bott	om Hole	Location I	f Different Fr	om Surface		
UL or lot no.	Section	Township	Rango	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
** Dedicated Acres 370.0() 322.00 Acres - (E/2)		"Joint or	or Infill ¹⁶ Consolidation Code		Code	¹⁶ Örder No.			
NO ALLOW	ABLE W	Paris (Section 1988)	SSIGNEI ION—ST <i>I</i>		心緒 计二次设计 化双氯磺胺 电电流断线性	ON UNTIL ALL EEN APPROVEE	A Probability of the probability of the	그렇게 함께 하는 것이 나는 것이 되었다.	CONSOLIDATED
FND 2" BC GLO 1948			39'39' W 38'51" W		72 (R) 08 (M)	PND-22 GLO	I hereby	certify that the infor	CERTIFICATION matter contained herein st of my knowledge and

16	OR A NON-STAN	idard unit has been	APPROVED BY	THE DIVISION
FND 2" BC GLD 1945	N 89'38'51" W	5241.72' (R) 5242:08' (M)	PND 27 80 CLO 1946	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
534534' (R) 534923' (M)			5342 04. (R) 5339,78. (W)	Thich
		7		Signature THOMAS E. MULLINS Printed Name ENGINEER IN & MANAGER Title 3-22-06 Date
		(AF: 36.06402 N LONG: 107.81545 W DATUM (NAD 1983)	970' 	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.
N 010'40" E		1883	N COSTOS W	MARCH 16, 2006 Date of Serve Signature by Seal of Englosed Curveyor:
FND 2" BC GLO 1948	N 89'45' W N 89'45'07" W	5266.14 (R) 5268.17 (M)	FND 27 BC GLO 1048	DANGER SELL Certificate Number 10201



Synergy Operating LLC Operations Plan

Well Name: Synergy 21-7-7 # 136

Location: Unit J - 1835' FSL, 1970' FEL, Sec. 7, T-21-N, R-7-W, Sandoval Co. NM

Latitude 36.06402° N, Longitude 107.61515° W (NAD 83)

Field: Basin Fruitland Coal

Elevation: 6606' GL

GEOLOGIC PROGRAM

Formations:	Tops/Depth	Fluids
Base Ojo/Top Kirtland	Surface	None
Fruitland	193'	Natural gas & produced water
Lower Fruitland Coal	531'	Natural gas & produced water
Pictured Cliffs	557'	Natural gas & produced water
TOTAL Depth	850'	

Logging Program:

A) Open Hole: Density/Neutron & Gamma Ray: TD to Surface Csg Shoe

B) Cased Hole: GR-CCL

Mudlogs, Cores, DST's:

No mudlogs, coring or drill-stem testing (DST's) are scheduled.

Anticipated Downhole Conditions:

It is not anticipated that any abnormal temperatures, abnormal pressures or hydrogen sulfide gas will be encountered. The maximum anticipated formation pressures are expected to be less than 500-PSIG. A minimum of MMS Class **2**BOP equipment will be used.

DRILLING PROGRAM

Contractor: A local rotary drilling company is yet to be determined.

Mud Program: Freshwater based mud system will be utilized. Water sourced from commercial suppliers.

Depth 0-96 Mo	Type	Viscosity	#'s/Gal
	Spud	40-50	8.4-8.9
90°-TD	Low Solids, Non-dispersed	30-60	8.4-9.5*

* Barite will be used as a weighting material if needed

Pressure Control / Blow Out Preventers (BOP's):

All BOP systems will be in accordance with MMS Onshore Oil & gas Order No2. Until the drilling contract has been let, the exact make, model and pressure rating of BOP's is unknown. A typical double gate BOP with a rotating head is shown in the attached Exhibit #1. A typical Choke & Kill manifold is also shown in the attached Exhibit #1.

The minimum requirements necessary to drill this well comply with a Class 2 Well Control Equipment rated to 1000 psi operating conditions.

An upper kelly cock valve with handle and drill string safety valves for each size of drill pipe will be available on the rig floor.

BOP Testing:

Surface – TD: An 11" 1000#, 2000#, or 3000# double gate BOP Stack & choke manifold will be utilized. Prior to drilling out the surface casing, the rams will be tested to 500#.

Pipe rams will be hydraulically actuated at least once a day. The blind rams will be function tested on each pipe trip. All ram function testing and BOP pressure testing will be recorded on the daily IADC drilling logs.

Casing & Tubing Program:

All casing shall be new and constructed to API standards.

					Clearance
Hole Size	OD	Weight	Grade	GL Set Depth	Hole/Collar
12-1/4"	8.625"	24#/ft	J-55	0'-90' 120	1.3125"
7-7/8"	5.500"	15.5#/ft	J-55	0' - TD(850' + / -)	0.9125"
2-3/8"	2.375"	4.7#/ft	J-55	Unknown	

Float Equipment & Centralizers:

8-5/8" Surface Casing: Cement Guide Shoe, 1-Jt 8-5/8" casing as shoe joint, float collar and 8-5/8" casing to surface. A centralizer will be run 10' above the shoe, secured with a stop ring, around each of the collars of the planned two (2) casing joints. Surface casing will be run to a minimum depth of 20" to ensure protection of surface waters. No wiper plug will be run, cement will be just be displaced to within 20' of the shoe.

5-1/2" Production Casing: Cement guide shoe w/ auto-fill, 1-Jt 5-1/2" casing as shoe joint, float collar, and 5-1/2" casing to surface. A centralizer will be run 10' above the shoe, secured with a stop ring, and three more centralizers will be applied around the collars of the bottom most five (5) casing joints. Additional centralizers will be deployed every other joint from the fifth most bottom joint to surface. Estimated total of twelve (12) centralizers. No turbolizers are planned to be run, as there are no indications of any problems to be encountered with the cementing of such shallow wells.

All strings of casing and all cement will be circulated to the surface and topped off if necessary.

Wellhead Equipment:

A 8-5/8" x 5-1/2" 1000# or 1500# wellhead will be screwed on to the top joint of the 8-5/8" surface casing.

Cementing Program:

8-5/8" Surface Casing: Pump \$2-sxs (74-ft³) Type III Cement w/ 3% CaCl₂ + ½-#/sx Celloflake. Yield = 1.42 ft³/sx, Slurry Weight = 14.5 PPG. Cement volume is 100% of annular excess to ensure circulation to surface. Wait on Cement (WOC) for 8-Hours. Pressure test surface casing to 1000# for 30-Minutes.

5-1/2" Production Casing: Pump 211-sxs (294-ft³) Type III Cement w/ 1% $CaCl_2 + \frac{1}{4}$ -#/sx Celloflake + 0.2% FL-52 + 2-#/sx Pheno-Seal. Yield = 1.39 ft³/sx, Slurry Weight = 14.6 PPG. Total slurry volume is 294 ft3.

The projected annular hole volume from 850' to surface is: 147 ft3. Cement volume is 100% excess of annular openhole volume to ensure circulation to surface. Cement will be brought to surface on all strings of casing.

Estimated Drilling Time:

Spud date will occur after the APD has been approved, the location built and a drilling contractor selected. Once drilling operations commence, it is anticipated that the drilling phase should be completed within three (3) days.

Estimated Completion Time:

Rig completion activities are estimated to take approximately five (5) days. Surface facilities anticipated will include a rod pumping unit, a small separator, and one four hundred (400) bbl water production tank. No oil production is anticipated from this well. A gas meter will be utilized temporarily for 30 days to measure the anticipated gas production.

Synergy will be installing a 4" Gas Sales Line and a 3" water gathering line to gather all produced waters to a central facility should the well be deemed commercial.

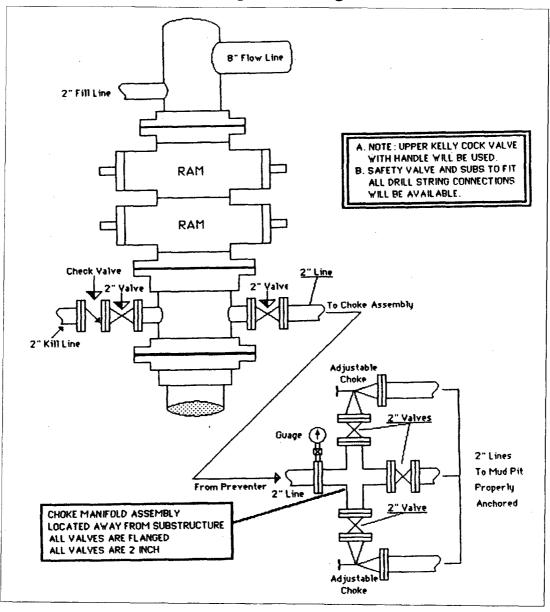
Reserve Pit Construction/Closure:

The planned reserve pit is located on the attached plat. The pit dimensions are projected to be 65 feet by 15 feet. The pit will be lined with an approved lining material, a minimum of a 12 mils in thickness. The pit will be constructed and closed per the November 1, 2004 NMOCD pit guideline information. A form C-144 will be prepared and submitted for the reserve pit in conjunction with this APD submittal.

Synergy Operating, LLC San Juan Basin

2M BOPE - Class 2 BOPE - as show

Minimum of 1000 psi Working Pressure



A BOP Stack consisting of either a manual two(2) ram preventer, (double or 2 singles) or a single Hydraulic annular preventer with a minimum of 1000 psi working pressure. The upper ram cavity Shall contain pipe rams to fit the drill pipe in use. The lower cavity shall contain blind rams.

The choke and kill manifold shall be minimum 2" in diameter and rated to minimum of 1000#.