NITED STATES FORM APPROVED DERARTMENT OF THE INTERIOR OMB No. 1004-0137 DIST. BUREAU OF LAND MANAGEMENT Expires March 31, 2007 (April 2004) 5. Lease Designation and Serial No. TO DRILL OR REENTER(#1) APPLICATION FOR PERMIT NMNM-99735 6. If Indian, Allottee or Tribe Name 7. If Unit or CA, Agreement, Name and No. \boxtimes 1a. Type of Work DRILL REENTER Oil Well Gas Well 8. Lease Name and Well No. Other Single Zone Multiple Zone 1b. Type of Well: Synergy 21-7-7 # 130 2. Name of Operator 9. API Well No. 30-043-210 20 NM OGRID # 163458 Synergy Operating, LLC 10. Field and Pool, or Exploratory PO Box 5513 **Basin Fruitland Coal** 3b. Phone Number 3a. Address (505) 325-5449 11. Sec., T., R., M., or Blk. and Survey or Area Farmington, NM 87499 4. Location of Well (Footage, Sec, T. R., M, or Survey Description) () Sec 07, T-21-N, R-07-W Unit Letter D, 695' FNL, 710' FWL, Sec 7, T21N-R7W At surface: Same At proposed prod. Zone: 14. Distance in miles and direction from nearest town or post office* 12. County or Parish, 13. State 11 Miles South of Lybrook, New Mexico. Turn South US Hwy 550 MM - 113.25 Sandoval New Mexico 17. Spacing Unit dedicated to this well 15. Distance from proposed* 16. No of Acres in lease 695 Feet from North Line 320.56 322.58Acres - West Half location to nearest 1,921.60 Acres propety or lease line, ft. (Also to nearest drlg. Unit line, if any) 20. BLM/BIA Bond No. on file 18. Distance from proposed* 19. Proposed Depth NM-2559 710 Feet from West Line 850' location to nearest propety or lease line, ft. 22. Approximate date work will start* 23. Estimated duration 21. Elevation (Show whether DF, KDB, RT, GL, etc.) May 15, 2006 30 days 6709' Ground Level 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. 6. Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office. authorized officer Quantity of Cement Size of Hole Grade, Size of Casing Weight per Foot Setting Depth 52 sxs, 34 ft3 - 100% Excess 12-1/4" 8-5/8" K-55 24# 7-7/8" 5-1/2" K-55 15.5# 850 211 sxs, 294 ft3 - 100% OH Excess SEE ATTACHED APD INFORMATION Latitude: 36.07179 Deg N Longitude: 107.62383 Deg W Name(Printed/Typed) 25. Signature 4-12-2006 Thomas E. Mullins Engineering Manager Title Name(Printed/Typed) Approved by (Signature Title 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)

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

NMOCD

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 68240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

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

OIL CONSERVATION DEVISION 10 22 2040 South Pacheco Santa Fe, NM 87505

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

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

2040 South Pacheco, Santa Fe, NM 87505

RECEIVED

☐ AMENDED REPORT

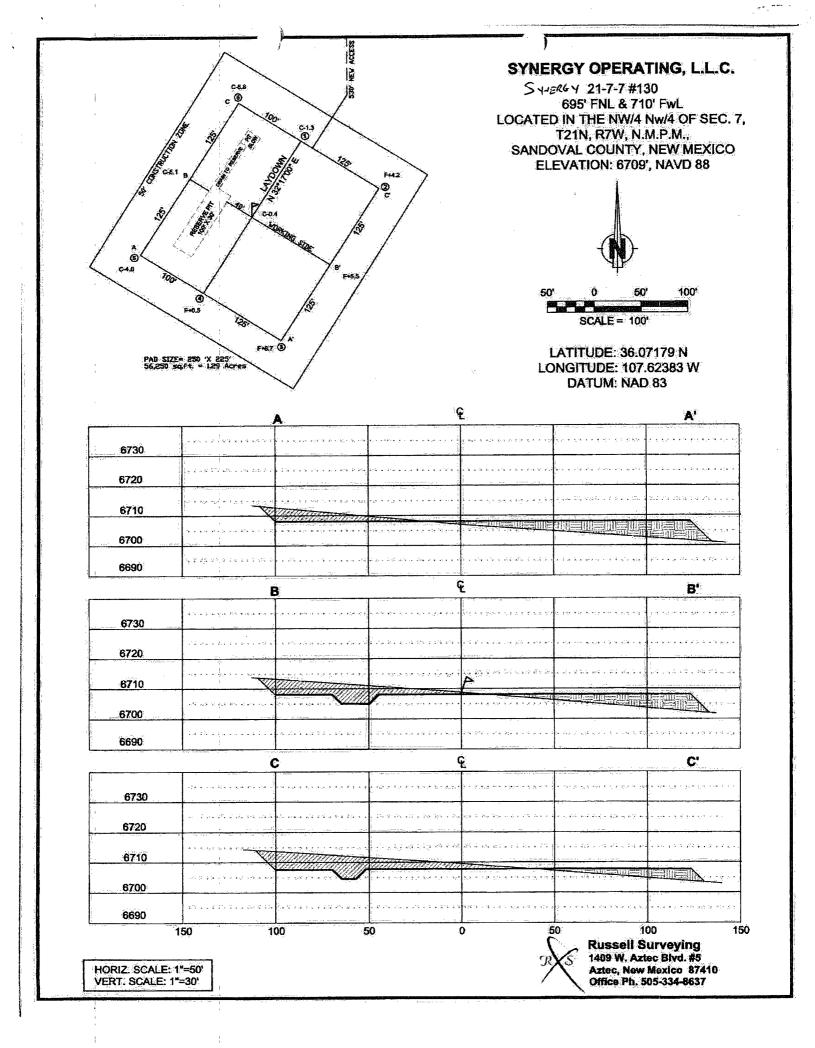
WELL LOCATION AND ACREAGE DEDICATION PLAT

	SO-OUR	-21020 Pool Code -21020 FRUITLAND COAL	
1	Property Code	Property Name	Well Number
	351125	5 Y NERGY 21-7-7	130
I	TOGRID No.	*Operator Name	• Elevation
	163458	SYNERGY OPERATING, LLC.	6709

10 Surface Location North/South line East/West line UL or lot no. Section Township Range Lot Idn Feet from the Feet from the County SANDOVAL 695' NORTH 710' WEST D 7 21N 7W 11 Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line | Feet from the East/West line County ¹² Dedicated Acres is Joint or Infill ** Consolidation Code 15 Order No. 322.58 Acres — (W/2)

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

or a non-stan	dard unit has beei	APPROVED BY	THE DIVISION
N. 89°38'51" W 010 1946 N. 89°38'51" W	5241.72' (R) 5242.08' (M)	FND 2" BC GLO 1948	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein to true and complete to the best of my knowledge and belief
LONG. 107.82383 W DATUM (NAD. 1983) \$ C 5 C 2 C 2 C 2 C 2 C		5342.04" (R) 5339.78" (M)	
14° 26'		.v. ig	Signature THOMAS E. MULLINS Printed Name ENGINEERING MANAGER
	7	, · · · · · · · · · · · · · · · · · · ·	Title 3 - Z Z - 0 6 Date 18 SURVEYOR CERTIFICATION
		W.	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.
w		N 0.04* W	FEBRUARY 28, 2006 Date of Surent Seal of September of Surveyor:
FWD 2* 86 N 89*#5* W 89*#5* O7* W	5266.14* (R) 5268.17* (M)	FND 2" BC GLO 1948	DANDERSSELL Certificate Number 10201



Synergy Operating LLC Operations Plan

Well Name: Synergy 21-7-7 # 130

Location: Unit D, 695' FNL, 710' FWL, Sec. 7, T-21-N, R-7-W, Sandoval Co. NM

Latitude 36.07179° N, Longitude 107.62383° W (NAD 83)

Field: Basin Fruitland Coal

Elevation: 6709' GL

GEOLOGIC PROGRAM

Formations:	Tops/Depth	Fluids
Base Ojo/Top Kirtland	122'	None
Fruitland	310'	Natural gas & produced water
Lower Fruitland Coal	641'	Natural gas & produced water
Pictured Cliffs	670'	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 0-90 NO	Туре	Viscosity	#'s/Gal	
0-90-100	Spud	40-50	8.4-8.9	
120 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.

Hole Size	OD .	Weight	Grade	GL Set Depth	Hole/Collar
12-1/4"	8.625"	24#/ft	J-55	0, -90, 100	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 90' 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.

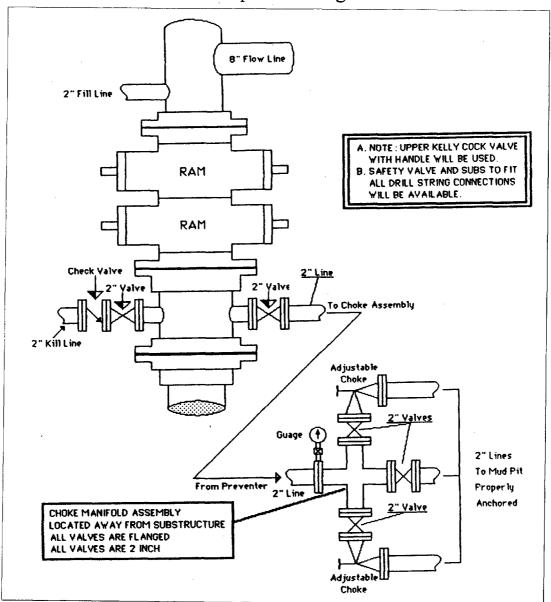
Reserve Pit Construction/Closure:

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 shown)

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#.