

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address SYNERGY OPERATING LLC PO Box 5513 Farmington, NM 87499		2. OORID Number 163458
		3. API Number 30-045-33427
4. Property Code	5. Property Name DUFF 29-11-8	6. Well No. 105

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	8	29N	11W	L	1885	S	1085	W	SAN JUAN

8. Pool Information

BASIN FRUITLAND COAL (GAS)	71629
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Additional Well Information

9. Work Type New Well	10. Well Type GAS	11. Cable/Rotary	12. Lease Type Private	13. Ground Level Elevation 5695
14. Multiple N	15. Proposed Depth 1975	16. Formation Fruitland Coal	17. Contractor	18. Spud Date
Depth to Ground water 133		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 3000 bbls Drilling Method: Closed Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	220	150	0
Prod	7.875	5.5	15.5	1975	280	0

Casing/Cement Program: Additional Comments

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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	Shaffer

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCDD guidelines ☒ a general permit ☐ or an (attached) alternative OCD approved plan ☐.

Printed Name: Electronically filed by Glen Papp

Title: Operations Manager

Email Address: gpapp@synergyoperating.com

Date: 11/15/2005

Phone: 505-325-5449

OIL CONSERVATION DIVISION

Approved By: Charlie Perrin

Title: District Supervisor

Approved Date: 11/27/2005

Expiration Date: 11/27/2006

OIL CONSERVATION DIVISION

CASE NUMBER 13663

Synergy EXHIBIT NUMBER 12