UNITED S	TATES	FORM APPROVED
For \$150-5 DEPARTMENT OF	THE INTERIOR	Burdget Bureau No. 1004-0135
(June 1990) BUREAU OF LAND	MANAGEMENT	Expires March 31, 1993
		5. Lease Designation and Serial No.
SUNDRY NOTICES AND	REPORTS ON WELLS	
Do not use this form for proposals to drill or to	o deepen or reentry to a different reservoir	NMNM-105533
Use "APPLICATION FOR PE	RMIT -" for such proposals\\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	6. If Indian, Allottee or Tribe Name
SUBMIT IN TR	RIPLICATE A. S	100 mm 52 mm 10 mm
1. Type of Well		7. If Unit or CA, Agreement Designation
		A PRECEIVE
Oli Weli 🔀 Gas Weli	Other	<u> </u>
		S Well Name and No.
2. Name of Operator		Pain d' Ara Divida 22 # 2
Synergy Operating, LLC		Bois d' Arc Divide 22 # 2
Address and Telephone No.	X0 - 11	3.74 (106.73)
•	325-5449 OGRUD#163458	30-043-20982
Farmington, NM 87499		10. Field and Pool, or Exploratory
4. Location of Well (Footage, Sec, T. R., M, or Surve	y Description)	Basin Fruitland Coal
Unit Letter P, 690' FSL, 615' FEL,	, Sec 22, T21N-R05W	11. County or Parish, State
		1
1 CONTON APPROPRIATE CONTON	DIOATE MATURE OF MOTOR PERSON	Sandoval, New Mexico
12. CHECK APPROPRIATE BOX(S) TO IN TYPE OF SUBMISSION	IDICATE NATURE OF NOTICE, REPORT, OR O	
TIFE OF SUBMISSION	11FE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
~ <u> </u>	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair	Water Shut-Off
Final Abandonnent Nonce	Altering Casing Other	Conversion to Injection Dispose Water
		(Note: Report results of multiple completion on Well
		Completion or recompilation Report and Log Form)
If well is directionally drilled give subsurface locations SYNERGY OPERATING, LLC PROPOSES TO T	s and measured and true vertical depths for all markers and EMPORARILIY ABANDON THE EXISTING ME	·
FROM 2004) TO 2700) LINDER A CIRD TO DE L	DI ACED AT 2000	
FROM 3694' TO 3766', UNDER A CIBP, TO BE I	PLACED AT 3000.	
THE FRUITLAND COAL WILL BE COMPLETED	FORMING A SOUTH HALF (320-ACRE) SPAC	ING UNIT.
AFTER PRODUCTION TESTING THE FRUITLAI	NO COAL AND ANALYZING THE PRODUCED	MAINTED CYNEDOV MAY
AFTER PRODUCTION TESTING THE PROTECT	TO COAL AND ANALTZING THE PRODUCED	WATER, STRENGT MAT
REQUEST A COMMINGLE ORDER. THIS WOL	JLD ALLOW FOR COMMINGLED MESAVERDI	E AND FRUITLAND COAL PRODUCTION
CONDITIONS OF APPRO	VAL	
Adhere to previously issued stipul	ations.	
Viction 12 provide		
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A I have be a said the said of the said	Contract /	
14. I hereby certify that the forestoing is true and	L. C.	
Signed:	Title: Engineering Manage	or Date: 01-24-2005
Thomas E. Mullins	(505) 325-5449	
This space for federal or state office use		
Approved by:	Title: Acting 7	ean/ead Date: 2/16/05
Title 18 U.S.C. Section 1001, make it a crime for any person knowingly ar	nd willfully to make to any department or agency of the United States	s any fatse, fictitious, or fraudulent statements

Bois d' Arc Divide 22 # 2 T21NR05WSec22-Unit P 690' FSL, 615' FEL – Sandoval County API # 30-043-20982 Fruitland Coal Recompletion

<u>Directions: Coming From Farmington.</u> From Counselors (Approximately 97.5 mile marker), Turn right (South) on the Star Lake Plant Road. Travel 4.4 miles and take the Left fork. Travel 0.2 miles and Turn Left on the Ojo Encino School Road. Travel 11.7 miles (turns to pavement @ 6.2 miles) and turn Left (East) at the gasoline pumps. Travel 3.3 miles and turn Right. Travel 0.8 miles and turn Right. Travel 0.3 miles into location.

<u>Directions: Coming From Cuba.</u> Take Highway 197 West. Travel 15.7 miles and turn Right on the Ojo Encino (Paved) Road. Travel 17.7 Miles. Turn Right (East) at gasoline pumps. Travel 3.3 miles and turn Right. Travel 0.8 miles and turn Right. Travel 0.3 miles into location.

Well History: The second producer of five (5) wells drilled as part of the 40 Acre Divide Menefee Coal Bed Methane Program in this area. The well was drilled by Key Energy Rig # 47 from 08/03/2003 to 08/09/2003. This well has a 12-1/4" hole with 8-5/8" surface casing cemented to surface from 194'. A 7-7/8" hole was mud drilled out from under surface to 4066', and OH logs were run after 2 unsuccessful attempts. 5-1/2" 15.5# K-55 casing was run and cemented to surface in a single stage at 4060'.

On December 9, 2003 completion operations commenced on the Menefee interval. Perforations were placed in the three (3) coal intervals, from 3694' to 3766'. These intervals were individually broken down with a PKR and Plug combination assembly and fracture stimulated below a PKR through the 2-7/8" production tubing.

Fracture Stimulate Menefee Coal Intervals from 3694.5' to 3766' (11 Feet Coal, 26 Holes) Stimulate with 31,500 lbs 20/40 Super LC Proppant in 25# X-Linked Gel, 23,000 gallons Fluid Sand Ramp from 0.5 ppg to 2.0 ppg. One Ball Drop of 10 Bio Ball Sealers, Tripped Pop-off at 6700 psi. Establish rate second time. Initial Frac Gradient of 1.2 psi/ft. After Ball Drop Gradient of 1.9 to 2.1 psi/ft, at reduced rate 5 BPM. Target Rate of 15 BPM achieved throughout the majority of job. Once Sand was started again, it degraded the BioBalls and the Frac Gradient Returned to 1.2 psi/ft from the reduction to 0.89 psi/ft. Good Job. ATP 4150, ATR 12, MTP 6700 ISDP 1475, 5 min 1120, 10 min 1035, 15 min 988. RD BJ Services. See Detailed File. RU Flowback Line open well, 800#, to rig tank, Flow well back 1 hr. Flow Stopped.

The post frac GR log indicated that the majority of the stimulation treatment entered the top two coal intervals. The lower coal interval from 3764' to 3766' did not appear to take proppant from the stimulation.

The well was placed on rod pump, testing to the rig pit on 12/16/2003. A water rate of 300 BWPD, a Trace of oil, and a minor amount of gas is produced from this well. Production commenced to the SWD facility in February 2004 from this well, which within 5 days indicated

Divide 22 # 5 Menefee Abandonment Fruitland Coal Completion Version 01-05-2005 a pumped off condition. Bucket testing indicated that the well was only producing 74 BWPD, with minimal gas. This water rate decreased until the well was placed in a pumped off condition.

It was theorized the Menefee perforations were plugged by coal fines deeper in the proppant pack of the formation. On October 26, 2004, an acid pump was utilized to pump down the annulus in hopes of removing the near perforation blockage. The hole caught pressure after 35 bbls of fluid, indicating a fluid level at approximately 2200'. The well pressured to 1400#, until the acid reached the perforations, at which time the pump pressure went on a vacuum. The rod pump was started at this time, and the well pumped for 2 days before returning to its same pumped off condition, making less than 20 BWPD, no oil, and no gas.

A future restimulation of the Menefee may be warranted to restore production.

A 228 pumping unit w/ gas engine is installed and the well is tied into the SWD gathering system for both gas and water. On 11/05/2003 a cased hole GR-CCL-CBL was run from PBTD of 4008' to surface. Top of cement is at surface.

Dynamometer cards were run on the well, with fluid levels shot indicating that the well is in a pumped off condition.

This procedure is written to temporarily abandon the existing Menefee **Purpose of Work:** perforations from 3694' to 3766' under a CIBP and to recomplete to the Fruitland Coal formation. The acreage dedication will be a South Half (320 Acre) Fruitland Coal spacing unit.

NMOCD spacing rules indicate that a Non-Standard Location (NSL) Application may be necessary to perform this workover because the location is located closer than 660 feet to the east line of the section.

The completion is planned as a rigless fracture stimulation due to frac crew availability and timing constraints.

Notify BLM (Farmington Field Office-Changed from AFO) and NMOCD of the commencement of additional completion activities. Comply with all company and regulatory safety and environmental requirements. Designate a smoking area on location.

5-1/2" 15.5# K-55 Casing @ 4060'

PBTD @ 4008'+/-,

Marker Jt from 3415' to 3420'.

Top Perf @ 3694'

Btm Perf @ 3766'

Zone # 1 3764' to 3766' (2.0') - 8 holes

Zone # 2 3740' to 3743.5' (3.5') - 7 holes

Zone # 3 3694.5' to 3700' (5.5') - 11 holes

Total of 11 feet of coal perforated, 26 perforations, 64 feet of gross interval 2-7/8" tubing at 3860' (118 total its). BP, 1 Jt, 6' perf sub

Menefee Abandonment Fruitland Coal Completion Version 01-05-2005

Divide 22 # 5

DH Pump, 92 - 3/4" Rods, 61 - 7/8" Rods, 6', 4', & 2' 7/8" Ponys, & Polish Rod.

- 1) Spot and fill two (2) 400 bbl frac tanks with 2% KCl water Base Fluid Bloomfield City Water for all completion activities.
- 2) MIRU workover rig, with auxiliary equipment. Check pressures on the WH. Blow down casing as necessary to rig pit.
- 3) ND Horse's Head.
- 4) Unseat Pump. COOH w/ rod string.
- 5) Lay down all rods on a 40 foot trailer.
- 6) ND WH, Install companion flange. NU BOPE w/divertor spool. Function test BOPE. Note ball-valve pressure limitations on wellhead.
- 7) No Tubing Anchor this well.
- 8) COOH, Tally out with 2-7/8" production tubing from 3860' (118 Jts).
- 9) MU Baker 5-1/2" 15.5# CIBP on 2-7/8" tubing and GIH.
- 10) Tubing set CIBP at 3600', above all existing Menefee perforations (3694' to 3700'). THIS PLUG TEMPORARILY ABANDONS THE EXISTING MENEFEE PERFORATIONS.
- 11) Load 5-1/2" casing from bottom with 2% KCl. Note volume taken to circulate back to surface.
- 12) Pressure Test CIBP, 5-1/2" Casing, and BOPE to 1500 psi. Hold pressure 30 mins.
- 13) COOH with setting tool, laying down all 2-7/8" tubing on float (3860' of 6.5# pipe, 25,090 lbs.)
- 14) MIRU Blue Jet to perforate the Fruitland Coal. All Perforation depths referenced to the GR-CCL-CBL run 11-05-2003. Slight depth shift from the openhole logs. Collars at 1376', 1420'+, 1509'+, 1554'-. POOH. RDMO Blue Jet.

1458' to 1464' (6') - 4 SPF, 120 deg phase, 24 holes

- 15) ND BOPE.
- 16) Install WSI 5-1/2" Isolation tool and frac valve equipment to stimulate the Fruitland Coal rigless.
- 17) Rig-Up Immediate Flowback Equipment with a single flowback line to a flowback tank. Install a single ½" positive choke.
- 18) RD and Release Workover Rig to the Divide 22 # 2.
- 19) MIRU Stimulation Company. Connect to wellhead isolation tool. Pressure Test Pumps and Lines to 4000 psi. Maximum allowed surface treating pressure is 3500 psi. Perform all QC tests including foam stability test. RU Protechnics International RA tracer.
- 20) Foam Fracture Stimulate Fruitland Coal (1447' to 1452') down the 5-1/2" casing with a 20# X-linked Gel. Pump 500 gallons 7.5% HCl acid w/ additives ahead, followed by 35,000 lbs 20/40 brady w/ (Flexsand or Sandwedge) in a ramp to 4 ppg.
- 21) Flow well back to flowback tank until dead, report flowing pressures if any.
- 22) MIRU Workover Rig.
- 23) ND Isolation Tool and NU BOPE. Function Test.

Divide 22 # 5 Menefee Abandonment Fruitland Coal Completion Version 01-05-2005

- 24) May have to clean out sand. Plenty of Rathole. RU Slickline. Run Post Frac GR Log down casing.
- 25) GIH w/ 2-7/8" Production Tubing String, configured for top-hold down rod pump assembly (Mud Anchor Jt, six foot 2-7/8" perf sub, 2-7/8" SN, and remaining tubing. Land tubing at 2000'+/-, 500 feet below Fruitland Coal Perforations.
- 26) RU and run 2" top hold down rod pump and designed rod string. Check tubing and pump valves to 500 psi.
- 27) Hang well on and pump well overnight to the SWD Facility.
- 28) Rig Down and Release rig to the next well.
- 29) File Sundry Reports and Notices of Menefee Abandonment and Fruitland Coal completion.
- 30) Connect test meter to casing to monitor gas production.
- 31) Monitor production performance.

Contact List:

COMMON BID.		
PT, Acid, & Stimulation	BJ Services	(505) 327-6222
RA Tracer	Protechnics	(505) 326-7133
Wellhead, Isolation Tools	WSI Machine	(505) 326-0308
DH Tools	Baker Oil Tools	(505) 325-0216
Perforating Services	Blue Jet	(505) 325-5584
DH Pump & Rods	Energy Pump & Supply	(505) 564-2874
Supervision (Tom Mullins)	Synergy Operating	(505) 320-1751
Frac Tanks (1st Choice)	Four Corners Frac Tank	(505) 320-1751
Frac Tanks (2nd Choice)	Lindrith Backhoe Rental	(505) 320-5460

TEM 01/10/2005

Divide 22 # 5 Menefee Abandonment Fruitland Coal Completion Version 01-05-2005 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

ICT II outh First, Artesia, N.M. 88210

ICT III Rio Brazos Rd., Aztec, N.M. 87410

Submit to Appropriate District Office
State Lease - 4 Copies

5 7 3 3 Fee Lease - 3 Copies OIL CONSERVATION DIVISION FEB 15

2040 South Pacheco Santa Fe, NM 87505

Certificate Number

NCT IV South Pache	eco, Santa	Fe, NM 87505		᠕ᡴ᠕ᡯ	N AND AC	REAGE DEDÎ		ECEIVE	<i>D</i> .	NDED REPO	
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⁴ Property Co		<u> </u>		· .	6 Property			 		ell Number	
	}	BOIS d'ARC DIVIDE 22							2		
OGRID No		 , -, ,.	Operator Name						•	^e Elevation	
6345	8	SYNERGY OPERATING LLC								7238'	
					¹⁰ Surface	Location			·		
or lot no.	Section 22	Township 21-N	Range 5W	Lot Idn	Feet from the 690'	North/South line SOUTH	1	from the 15'	Rest/West line EAST	County SANDOVA	
			11 Bott	om Hole	Location 1	lf Different Fr	om S	Surface			
or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet	from the	East/West line	County	
dicated Acre	:s	-</td <td>19 Joint or</td> <td>Infill</td> <td>14 Consolidation</td> <td>Code</td> <td># Ord</td> <td>er No.</td> <td></td> <td><u> </u></td>	19 Joint or	Infill	14 Consolidation	Code	# Ord	er No.		<u> </u>	
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				22 -		FD 2 1 U.S.G.L.O. 19		Signature Signature Momes E. Mullins Printed Name ENGINEERING MANAGER Title 3-3-7003			
		LAT. LON		6" N (N 0'38" W	AD 83) 69 2 1/2"	623'	2 N 00-07-03 W 2	I hereby can was plotted me or under and correct	JRVEYOR CENTRY that the well local from field notes of act or my supervision, and to the best of my better the best of my best of my best of act of the best of th	tion shown on this tual surveys made that the same is :	
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