

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-007-20409
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name VPR "A"
8. Well Number 111
9. OGRID Number 300097
10. Pool name or Wildcat Stubblefield Cnyn Raton-Vermejo Gas
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL 8168

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

2. Name of Operator
ARP Production Company, LLC

3. Address of Operator
Park Place Corporate Center One, 4th fl, 1000 Commerce Drive, Pittsburgh, PA 15275

4. Well Location
 Unit Letter B-22 : 1060 feet from the FNL line and 1734 feet from the FEL line
 Section 22 Township 31N Range 19E NMPM NE/160 County Colfax

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: RECOMPLETION <input checked="" type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>	
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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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attached Recompletion Procedure for description of work proposed. Well bore diagram attached. Anticipated start of work between August 18 and August 30, 2014 dependent upon vendor availability.

OIL CONS. DIV DIST. 3

JUL 22 2014

*File new C104 & C105 before returning to production
 Include new & existing perms*

Spud Date: 5/18/2003

Rig Release Date: Not Applicable

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Carla L. Suszkowski TITLE Dir. of Environmental and Regulatory Affairs DATE 7/17/14
 Type or print name Carla L. Suszkowski E-mail address: csuszkowski@atlasenergy.com PHONE: 412.489.0311

For State Use Only

APPROVED BY: Chal TITLE SUPERVISOR DISTRICT # 3 DATE AUG 15 2014
 Conditions of Approval (if any): AV



ARP Production Company, LLC
Vermejo Park Ranch A-111
Colfax County, NM
Recomplete Raton Coals

7/17/14

WELL DATA:

FORMATION: Raton Coal

CASING: 8-5/8", 24# set @ 337'

CASING: 5-1/2", 15.5# set @ 2450'

TOC: 50' (CBL)

PERFORATE:

727' – 732'	5'	20 holes
775' – 777'	2'	8 holes
790' – 802'	12'	48 holes
830' – 834'	4'	16 holes
874' – 878'	4'	16 holes

TD/PBTD: 2480' / 2439'

CURRENT STATUS: Active producer – 200 mcf + 65 bwpd (July 2014)

OBJECTIVE: Complete Raton coal intervals with nitrogen foam

NOTES:

This well was drilled and completed in the Vermejo and Lower Raton coals. Additional coal seams have been identified in the Upper Raton coals as value adding with a combined 831 MMSCF GIP. These coals will be perfed and stimulated with nitrogen foam and sand. All zones are above existing perfs. 20.0 total feet of coal will be stimulated.

Vermejo Park Ranch A-111

PROCEDURE:

1. Test anchors. MIRU pulling unit. Pull rods and pump. ND wellhead. NU BOPs.
2. POOH and stand back tubing in derrick. PU bit and scraper on 2-7/8" tubing. RIH to PBTD @ 2439'. POOH. If more rathole is needed, clean out well to original TD @ 2480'. POOH. RDMO.
3. Install frac valve and frac head.
4. Set flow through BP @ +/- 930' to isolate lower completed zones.

1st Stage

5. MIRU perforators. MU 3-1/8" or 4" perf gun with 23 gram charges, .56 dia., and 120° phasing. RIH with gun and CCL-GR log. Correlate depths to CBL. Perforate the target coal intervals as follows:

830' - 824'	4'	4 SPF	16 holes
874' - 878'	4'	4 SPF	16 holes

POOH and LD perforating gun.

6. MIRU Basic Energy Services. Lay injection lines and pressure test to 1000 psi above maximum anticipated pressure. Hold safety meeting. Establish injection rate down 5-1/2" casing, then acidize interval with 500 gallons of 7.5% HCl acid. Flush with 1000 gallons clean fluid. Frac target interval @ 830' - 878' with 23,000 gallons of 70Q N₂ foam and **52,000** lbs of 16/30 proppant. Treat at 20 - 35 bpm. Max sand concentration at 4 ppg. Flush to top perf, then overflush by 0.5-2 bbls of water. See frac proposal for details - approx. 35,360 gallons.
7. Set flow through BP @ +/- 810'.

2nd Stage

8. RU perforators. MU 3-1/8" or 4" perf gun with 19 gram charges and 120° phasing. RIH with gun and CCL-GR log. Correlate depths to CBL. Perforate the target coal intervals as follows:

727' - 732'	5'	4 SPF	20 holes
775' - 777'	2'	4 SPF	8 holes
790' - 802'	12'	4 SPF	48 holes

POOH and LD perforating gun.

9. RU Basic Energy Services. Establish injection rate down 5-1/2" casing, then acidize interval with 500 gallons of 7.5% HCl acid. Flush with 1000 gallons clean fluid. Frac target interval @ 727' - 802' with 47,800 gallons of 70Q N₂ foam and **108,000** lbs of 16/30 proppant. Treat at 20-35 bpm. Max sand concentration at 4 ppg. Flush to top perf, then overflush by 0.5-2 bbls of water. See frac proposal for details - approx. 70,852 gallons.

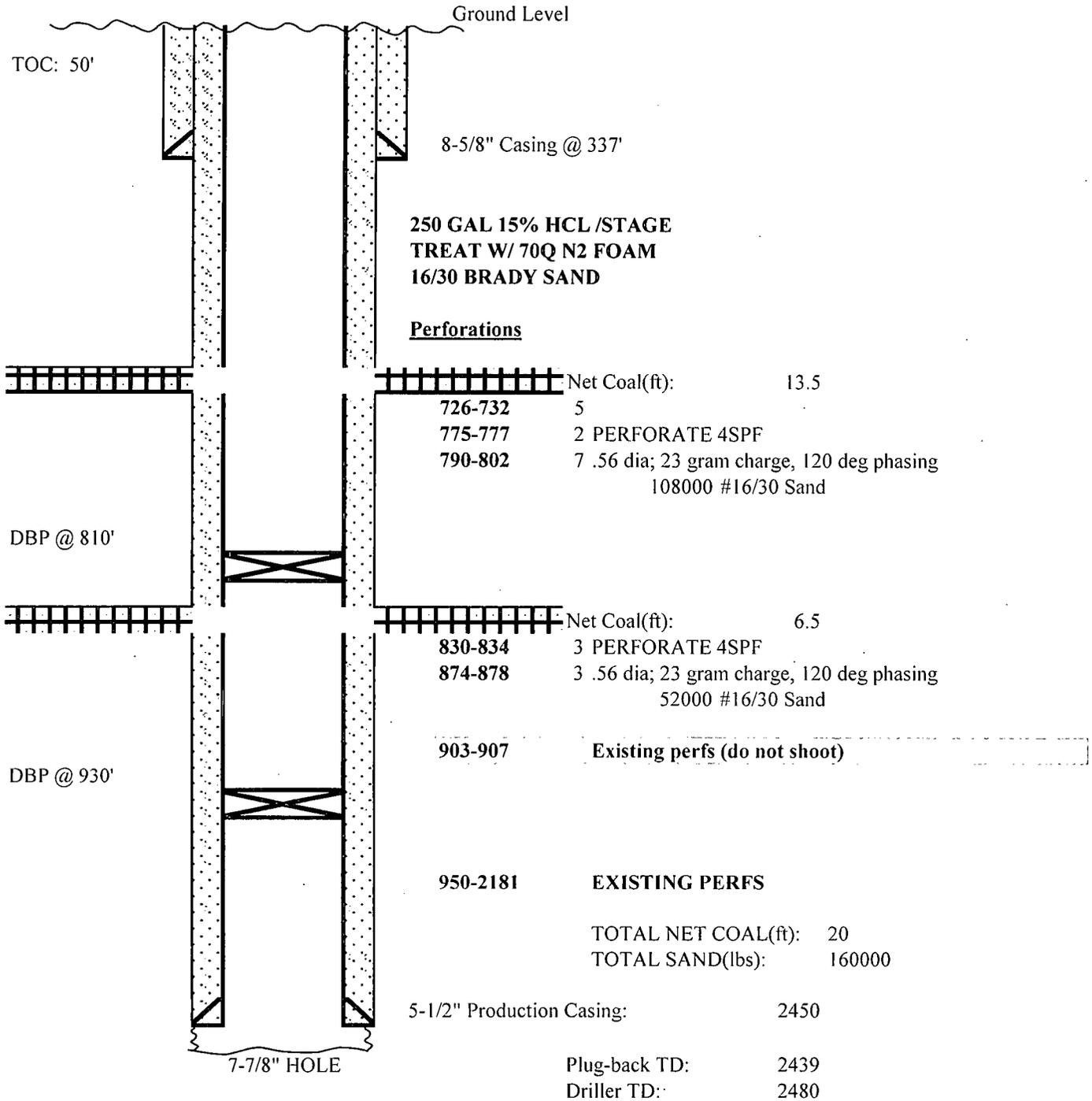
Vermejo Park Ranch A-111

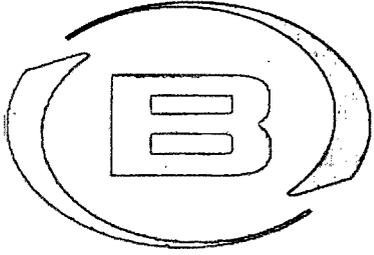
10. RDMO Basic Energy Services & the wireline unit.
11. Shut the well in for 2 hrs and flow to the pit to clean up on 12 to 16/64th choke.
12. MIRU workover rig.
13. PU bit on 2-7/8" tbg. Drill out plugs and clean out hole to PBTD. POOH and LD bit. TIH and land 2-7/8" production tbg approx. 70' below perms (or deeper if possible). Run 1.75" pump and rods.
14. RD workover rig.
15. Put well on pump. Pump to pit until water de-foams. Vent gas to pit until clean to send to sales.

ARP Production Company, LLC

VPR A-111
 RATON FIELD
 2 STAGE: BOTH STAGES ABOVE EXISTING PERFS

July 12, 2014





BASICSM
ENERGY SERVICES

**ATLAS ENERGY
VPR A-111
RATON, NM**

**2 STAGE 160,000 LBS 16/30 BROWN SAND
70 QUALITY FOAM**

**Prepared for CELESTE HAGLER / MATT BERRY
309 SILVER
Raton, NM 87740
505.652.8275**

**Prepared by MATTHEW HOFFMAN
970.867.2766**

**Service Point - Ft Morgan, Colorado
Contact: Jake Cuckow
(970) 867-2766**

7/15/2014

7/15/2014

Celeste Hagler / Matt Berry
Atlas Energy
309 Silver
Raton, Nm 87740

Thank you for the opportunity to present the following treatment proposal. This recommendation is submit for your consideration.

Well Data

Casing: 5 1/2 in 15.5 lb/ft, N-80

Tubing: None

Stage Info	Stage 1	Stage 2
Formation:	COAL	COAL
Packer/ EOT Depth:		
TVD:		
Perf. Top:	830	726
Perf. Btm:	907	802
SPF:	4	4
Total Shots:	48	80
Perf Diam:	0.42	0.42
Bht (deg F)	80	80
Frac Gradient:	0.75	0.75

Treatment Summary

Primary Fluid SpGr:	0.4	0.4
Treat Via:	Casing	Casing
Primary Fluid Type:	MavFoam 70	MavFoam 70
CO2 (y/n):	No	No
Estimated Treat psi:	530	490
Estimated Perf Fric (psi):	11	8
Acid Volume (gls):	250	250
Total Clean Fluid/Foam (gls):	34,530	70,126
Pad Volume (gls):	10,450	21,350
SLF Volume (gls):	23,000	47,800
Estimated Flush Volume (gls):	830	726
Proppant Volume (lbs):	52,000	108,000
Estimated Pump Time (min):	37.4	53.5

*NOTE: Total clean fluid/foam volume does not include flush volume.

FLUID SPECIFICATIONS AND REQUIREMENTS

Tank Requirements:	2	500 bbl tanks	Tank Bottoms:	30	bbl/tank
Fluid1:	28 lb	Gelled Water			30,240 Gallons
Additives:					
	0%				
RM2003	28 ppt	GEL-100, Cmhpq Gel			
RM141	0.05 qpt	BREAKER-503L, Liquid Enzyme Breaker			
RM142	0.3 ppt	GB-3, Oxidative Breaker			
RM323	2 gpt	S-3, Surfactant			
RM411	4 gpt	WF-1, Foamer			
RM582	0.15 ppt	BIO-II, Dry Biocide			
RM631	110 gpt	SI-1, Scale Inhibitor			

Fluid Required (Not Including Tank Bottoms):	30,240 Gallons
	720 Bbls
Tank Bottoms:	60 Bbls
Total Fluid Required:	780 Bbls

ACID REQUIREMENTS

Acid Requirements:			
Acid 1:	15 %	HCL	500 Gallons
Additives:			
RM303	4 gpt	Acid Inhib-3, Acid Inhibitor (Moderate Temp)	

CO2 AND N2 REQUIREMENTS

Nitrogen	671,120 Scf
Nitrogen Cooldown	100,000 Scf
Total Nitrogen Required:	771,120 Scf

PROPPANT REQUIREMENTS

SAND	16/30	Texas Gold	160,000 lbs
		Total:	160,000 lbs
