

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. 30-007-20175
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name VPR D
8. Well Number 007
9. OGRID Number 300097
10. Pool name or Wildcat Castle Rock Park - Vermejo Gas

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 A-08 : 1181 feet from the FNL line and 806 feet from the FEL line
Section 8 Township 30N Range 18E NMPM NE/160 County Colfax

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
GL 8485

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: RECOMPLETION ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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 C1044 C105 for approval before returning to
Production.

Spud Date: 4/8/2000

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

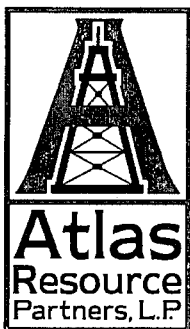
APPROVED BY: Charlie Herrin

TITLE SUPERVISOR DISTRICT #3
AV

DATE

AUG 01 2014

Conditions of Approval (if any):



ARP Production Company, LLC
Vermejo Park Ranch D-007
Colfax County, NM
Recomplete Raton Coals

7/17/14

WELL DATA:

FORMATION: Raton Coal

CASING: 8-5/8", 24# set @ 330'.

CASING: 5-1/2", 15.5# set @ 2183'.

TOC: 30' (CBL)

PERFORATE:	572' – 575'	3'	12 holes
	589' – 593'	4'	16 holes
	633' – 637'	4'	16 holes
	696' – 700'	4'	16 holes
	736' – 747'	11'	44 holes
	786' - 788'	2'	8 holes

TD/PBTD: 2260' / 2240'

CURRENT STATUS: Active producer – 110 mcf/d + 8 bwpd (July 2014)

OBJECTIVE: Complete Raton coal intervals with nitrogen foam

NOTES:

This well was drilled and completed in the Vermejo coals. Additional coal seams have been identified in the Upper and Lower Raton coals as value adding with a combined 382 MMSCF Rec GIP. These coals will be perfed and stimulated with nitrogen foam and sand. All zones are above existing perfs. 23 total feet of coal will be stimulated.

Vermejo Park Ranch D-007

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 @ 2240'. POOH. If more rathole is needed, clean out well to original TD @ 2260'. POOH. RDMO.
3. Install frac valve and frac head.
4. Set flow through BP @ +/- 900' 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:

696' – 700'	4'	16 holes
736' – 747'	11'	44 holes
786' – 788'	2'	8 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 @ 696' – 788' 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. 70,792 gallons.
7. Set flow through BP @ +/- 670'.

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:

572' – 575'	3'	12 holes
589' – 593'	4'	16 holes
633' – 637'	4'	16 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 @ 572' – 637' with 33,700 gallons of 70Q N₂ foam and **76,000** 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. 49,344 gallons.

Vermejo Park Ranch D-007

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 perfs (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.

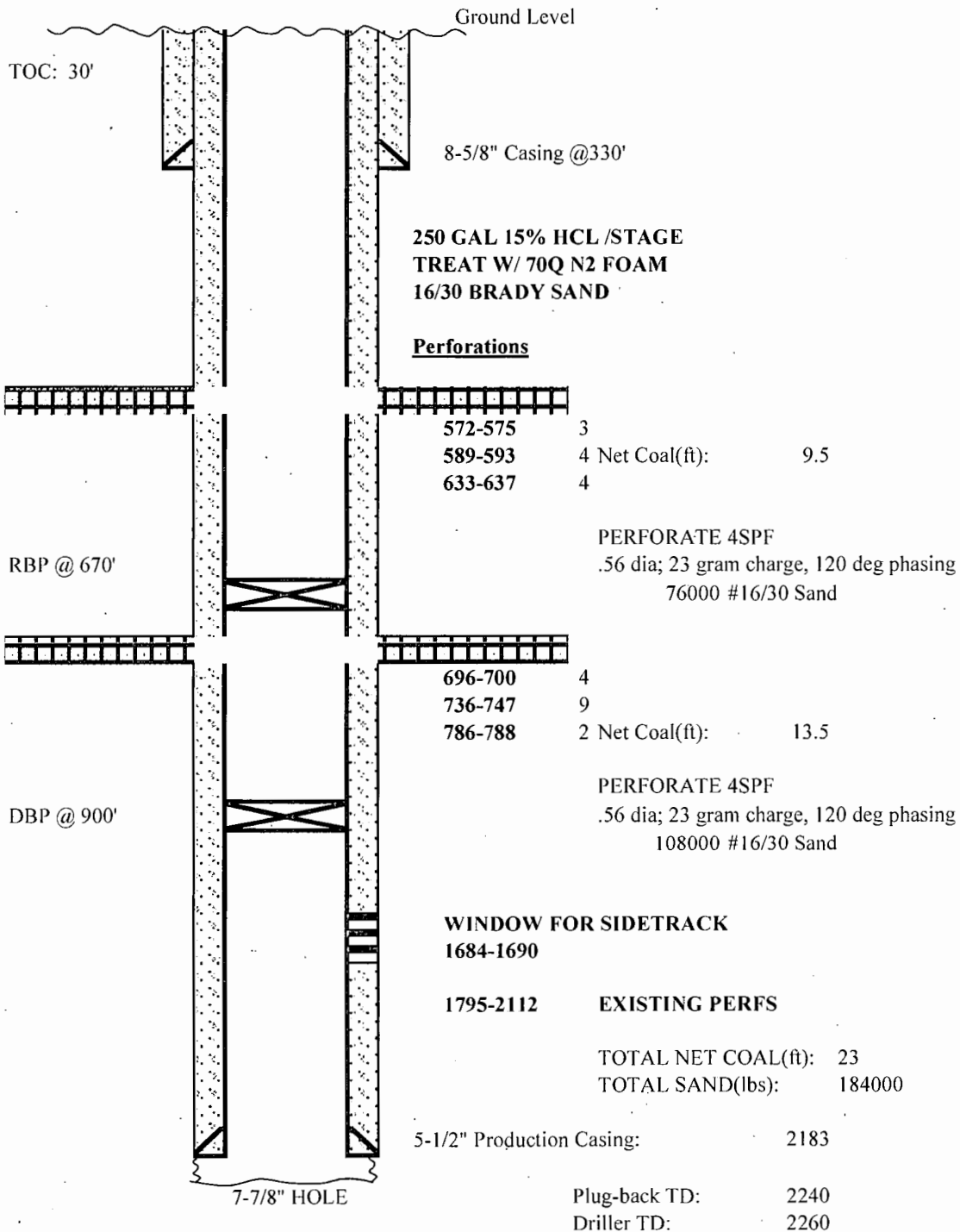
ARP Production Company, LLC

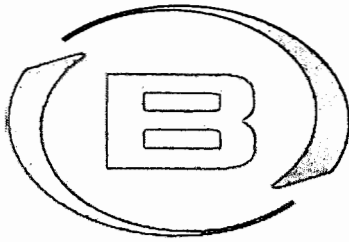
VPR D-07

RATON FIELD

2 STAGE: BOTH STAGES ABOVE EXISTING PERFS

July 12, 2014





BASICSM
ENERGY SERVICES

ATLAS ENERGY
VPR D-07
RATON, NM

2 STAGE 184,000 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 submitted 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:	696	572
Perf. Btm:	788	637
SPF:	4	4
Total Shots:	68	44
Perf Diam:	0.42	0.42
Bht (deg F)	85	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:	480	410
Estimated Perf Fric (psi):	10	24
Acid Volume (gls):	250	250
Total Clean Fluid/Foam (gls):	70,096	48,772
Pad Volume (gls):	21,350	14,250
SLF Volume (gls):	47,800	33,700
Estimated Flush Volume (gls):	696	572
Proppant Volume (lbs):	108,000	76,000
Estimated Pump Time (min):	53.5	37.6

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



BASIC
ENERGY SERVICES

Stage	HCl%/ Prop Mesh	% Cln Fluid	Downhole		Constant Internal Phase	Blndr Conc ppg	Proppant			N2 Stage scf	CO2 Stage tons	Time Stage min	DH Foam Slurry Stage bbbls	Stage	
			Clean Foam/ Clean Fluid gals	Prop Conc ppg			Rate lb/min	Total lbs	Stage lbs					Surf Slurry bbbls	Surf Clean bbbls
PAD		100.0%	850									2.0	20.2	20.2	20.2
HCL	15	100.0%	250									1.2	6.0	6.0	6.0
PAD		100.0%	20,500		70.0%					185,572		13.9	488.1	148.4	148.4
SAND	16/30	98.9%	4,000	0.5	70.7%	1.67	719	2,000	2,000	36,209		2.8	97.4	30.7	28.0
SAND	16/30	97.6%	8,500	1	71.3%	3.33	1,406	10,500	8,500	76,945		6.0	211.5	69.9	80.0
SAND	16/30	95.7%	14,600	2	72.5%	6.67	2,896	39,700	29,200	132,184		10.6	379.0	135.7	104.0
SAND	16/30	93.6%	14,500	3	73.6%	10.00	3,883	83,200	43,500	131,259		11.2	392.1	150.4	103.0
SAND	16/30	91.7%	6,200	4	74.6%	13.33	4,980	108,000	24,800	56,124		5.0	174.3	71.0	44.0
FLUSH		100.0%	696					108,000				0.3	16.8	16.8	16.8
								108,000		<< sum Totals sand >>		53.5		647	53.5

ATLAS V32 C-07 PROPOSAL 071414 v3b



BASIC
ENERGY SERVICES

Stage	HCl%/ Prep Mesh	% Cl _n Fluid	Downhole		Constant Internal Phase	Blndr Conc ppg	Proppant			N ₂ Stage scf	CO ₂ Stage tons	Time Stage min	DH Foam Slurry Stage bbls	Stage	
			Clean Foam/ Clean Fluid gals	Prop Conc ppg			Rate lb/min	Total lbs	Stage lbs					Surf Slurry bbls	Surf Clean bbls
PAD		100.0%	650									1.5	15.5	15.5	15.
HCL	15	100.0%	750									1.2	6.0	6.0	6.
PAD		100.0%	13,600		70.0%					75,053		9.3	373.8	97.1	97.
SAND	15/30	98.9%	2,600	0.5	70.7%	1.67	719	1,300	1,300	14,348		1.8	63.3	20.0	18.
SAND	15/30	97.6%	6,600	1	71.3%	3.33	1,406	7,300	6,000	33,111		4.3	149.3	49.3	42.
SAND	15/30	95.7%	10,600	2	72.5%	6.67	2,696	28,500	21,200	58,497		7.9	275.2	98.5	75.
SAND	15/30	93.6%	10,500	3	73.8%	10.00	3,883	60,000	31,500	57,945		8.1	283.9	108.9	75.
SAND	15/30	91.7%	4,000	4	74.6%	13.33	4,980	76,000	16,000	22,074		3.2	112.5	45.8	28.
FLUSH		100.0%	572					75,000				0.4	13.6	13.6	13.
								76,000	<< === Totals === >>			37.6		455	17.

ATLAS VOR 02 PROPOSAL 071414.xls

FLUID SPECIFICATIONS AND REQUIREMENTS

Tank Requirements:	2	500 bbl tanks	Tank Bottoms:	30	bbl/tank
Fluid1:	28 lb	Gelled Water			34,680 Gallons
Additives:					
	0%				
RM2003	28 ppt	GEL-100, Cmhpg 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):	34,680 Gallons
	826 Bbls
Tank Bottoms:	60 Bbls
Total Fluid Required:	886 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	879,300	Scf
Nitrogen Cooldown	100,000	Scf
Total Nitrogen Required:	979,300	Scf

PROPPANT REQUIREMENTS

SAND	16/30	Texas Gold	184,000	lbs
Total:			184,000	lbs
