District 1 1625 N. French Dr., Hobbs, NM 88240		State of New Mexico	Form C-101
Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210	Enc	Revised November 14, 2012	
Phone: (575) 748-1283 Fax: (575) 748-9720 District III	HOBBS OCD	Oil Conservation Division	AMENDED REPORT
1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170		1220 South St. Francis Dr.	
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462	MAY 1 3 2013	Santa Fe, NM 87505	
APPLICATION FOR		LL, RE-ENTER, DEEPEN, PL	
	¹ Operator Name and Addres	s	² OGRID Number

ache Co	rporation	: 303 Vetera	ns Airpark La	ane, Suite 300	0 Midland, TX	79705	873	3. API Number					
	⁴ Property Code 306624		* Property Name W H Laughlin						³ Property Name		• Well		
				^{7.} Sı	urface Location	1							
UL - Loi E	Section 09	Township 20S	Range 37E	Lot Idn	Feet from 1650	N/S Line North	Feet From 330	E/W Line West	County Lea				
	L	ل ا		* Propose	ed Bottom Hol	e Location							
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County				
	L	1		⁹ Pc	ol Information	1		I					
Pool Name Monument: Abo. Southeast									Pool Code 96764				

	Ad	ditional Well Information		
Work Type	^{12.} Well Type O	^{13.} Cable/Rotary R	^{14.} Lease Type P	^{15.} Ground Level Elevation 3550'
^{16.} Multiple N	^{16.} Multiple ^{17.} Proposed Depth N 7692'		^{19.} Contractor	^{20.} Spud Date 01/03/2011
Depth to Ground water	Distance from	nearest fresh water well	Distance to nearest surface water	

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
S	17-1/2"	13-3/8"	48#	1175'	1010 sx Class C	
1	11"	8-5/8"	32#	4800'	625 sx Class C	
P	7-7/8"	5-1/2"	17#	7692'	1150 sx Class C	

Casing	/Cement Progra	m: Additional C	omments

Apache intends to DO two CIBPs, perforate the Abo, and commingle the B-T-D-A production per the attached procedure.

^{22.} Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer			
		Test Pressure Manufacturer Per mait Expires 2 Years From Approved Per mait Expires 2 Years From Approved				
best of my knowledge and bel		OIL CONSERVA	TION DIVISION			
I further certify that I have 19.15.14.9 (B) NMAC , if Signature:	complied with 19.15.14.9 (A) NMAC 🗌 and/or applicable.	Approved By	and and the second seco			
Printed name: Fatima Vasq	uez	Title: Petroleum Engineer				
Title: Regulatory Tech I		Approved Date: 05/16/13	Expiration Date: 05/16/15			
E-mail Address: Fatima.Vas	squez@apachecorp.com					
Date: 05/10/2013	Phone: (432) 818-1015	Conditions of Approval Attached				

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 District I

 1625 N. French Dr., Hobbs, NM 882340BBS OCD

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 Fax: (575) 393-0720
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 District II
 811 S. First St., Artesia, NM 88210
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 2013

 Phone: (575) 748-1283
 Fax: (575) 74444
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 District III
 1000 Rio Brazos Road, Aztec, NM 87410
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 2013

 Phone: (505) 334-6178
 Fax: (505) 334-6170
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 220 S. St. Francis Dr., Santa Fe, NM 87505

 Phone: (505) 476-3460
 Fax: (505) 476-3462
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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Nun	nber	² Pool Code	³ Pool Name			
30-025-39905		96764	Monument; Abo, Southeast			
⁴ Property Code		⁶ Well Number				
306624	W H Laughli	V H Laughlin 012				
⁷ OGRID No.		⁸ Operator Name				
873	Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705 3550' GR					
" Surface Location						

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	09	20\$	37E		1650	North	330	West	Lea
" Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

						•	
¹² Dedicated Acres	¹³ Joint or Infil)	14 Co	onsolidation	Code	¹⁵ Order No.		
40.00					DHC - 4502-0		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	Ţ			"OPERATOR CERTIFICATION
	1			I hereby certify that the information contained herein is true and complete
	1			to the best of my knowledge and belief, and that this organization either
	1 1			owns a working interest or unleased mineral interest in the land including
	1.8			the proposed bottom hole location or has a right to drill this well at this
	61			location pursuant to a contract with an owner of such a mineral or working
	1-			interest, or to a voluntary pooling agreement or a compulsory pooling
	<u> </u>	B		order heretofore entered by the division.
ſ				9 05/10/2013
				Signature Date
330	·			Fatima Vasquez
L				Printed Name
	-			Fatima.Vasquez@apachecorp.com
				E-mail Address
	/ ·			ISURVEYOR CERTIFICATION
				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.
				Date of Survey
			-	Signature and Seal of Professional Surveyor:
1				
				Certificate Number

W. H. Laughlin #12 API # 30-025-39905 Sec 9, T20S, R37E Elevation: 3562' KB, 3550' GL TD: 7,692' PBTD: 7,646' Casing Record: 13-3/8" 48# H-40 @ 1175' w/ 1010 sxs 8-5/8" 32# J-55 @ 4800' w/ 625 sxs 5-1/2" 17# J-55 @ 7,693' w/ 1150 sxs Burst: 5320 psi; 80%= 4256 psi

Perfs: Blinebry: 6146; 48; 50; 96; 98; 6200; 18; 20; 22; 30; 32; 34; 40; 42; 68; 70; 76; 78; 80; 94; 96; 6305; 07; 09; 18; 20; 24; 26; 28; 38; 40; 42; 48; 50; 52; 54; 56 w/ 1 jspf (37 holes)
Tubb: 6448; 50; 52; 70; 72; 78; 89; 96; 98; 6500; 02; 22; 24; 26; 28; 32; 44; 45; 62; 64; 66; 72; 74; 76; 84; 90; 92; 94; 6632; 52; 54; 56; 58; 60; 62; 64; 86; 88; 90; 92 w/ 1 jspf (40 holes)
Drinkard: 6818-22; 6826-32; 6858-62; 6880-84; 6900-04 w/ 2 jspf (54 holes)
Abo (Behind CIBP): Stage II: 6987-92; 6996-7002 w/ 4 jspf (52 holes)
Stage I: 7144-48; 7153-64; 7167-74; 7178-81; 7184-92; 94; 96; 7205-13 w/ 2 jspf (100 holes)

Objective: Drill out two CIBP's above Abo, perforate and stimulate additional Abo, and commingle B-T-D-A production.

AFE: PA-13-3542

- 1. MIRU unit. Kill well as necessary. Unseat pump. POOH w/ rods and pump.
- 2. ND WH. NU BOP. Release TAC @ 6,094'. POOH w/ tubing and TAC.
- 3. RU reverse unit. PU 4-3/4" bit, bit sub, and 5-1/2" casing scraper on 2-7/8" tubing to be used as work string. RIH and tag the CIBP @ at 6,948'. Break circulation and drill out plugs at 6,948' and CBP at 6,950'. CIH to PBTD @ 7,646'. Circulate hole clean. POOH.
- MIRU WL. PU and RIH w/ perforator and perforate the Abo from 7088-91; 7094-99; 7306-11; 7318-23; 7471-78; 7564-68; 7573-77 w/ 2 jspf using Connex 0.5" diameter BH charges at 60° phasing (66 holes). Correlate to Weatherford Photo Density Compensated Neutron Spectral Gamma Ray log dated 1/19/2011. TOH w/ perforating guns and RDMO WL.
- 5. RIH w/ SN + PKR-RBP straddle assembly and ball catcher on 2-7/8" J-55 tubing string. Set RBP ± 7,610'. TOH and set PKR at ± 7,250'.
- 6. MIRU acid services. Acidize down 2-7/8" WS w/ 2500 gals of 20% NEFE HCL w/ additives using 100 ball sealers to divert evenly spaced through the job as a max rate as a max rate but do not exceed 6,000 psi surface treating pressure. Displace to bottom perf with 50 bbls of flush. Surge balls.
- 7. Release PKR and TIH and latch onto RBP \pm 7,610'. TOH to 7140' and set RBP. TOH and set PKR at \pm 7040'.
- Acidize down tbg w/ 1000 gal of 20% NEFE HCL w/ additives without any ball sealers as a max rate but do not exceed 6,000 psi surface treating pressure. Displace to bottom perf with 42 bbls of flush. Surge balls.
- 9. Release PKR and TIH and latch onto RBP \pm 7,140'. TIH to 7,610' and set RBP. TOH and set PKR at \pm 6,940'.

- 10. Acidize down tbg w/ 4000 gal of 20% NEFE HCL w/ additives using 250 ball sealers to divert evenly spaced throughout the job as a max rate but do not exceed 6,000 psi surface treating pressure. Displace to bottom perf with 55 bbls of flush. Surge balls.
- 11. RU swab equipment and recover load and swab test perfs for fluid entry. Report results to Midland. RD swab equipment. *If unsuccessful, set CIBP 6,946'. RTP in B-T-D.*
- 12. Kill well if necessary. Release PKR and TIH and latch onto RBP at 7,610'. TOH with PKR, ball catcher and RBP and WS.
- 13. RIH w/ 2-7/8" production string as per the Monument office specifications.
- 14. RDMOPU. Return well to production and place into test for 10 days. Have chemical representative test fluids and put well on the appropriate chemical maintenance program.

