SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.       6. If Indum, Allotte of Tribe Name         SUBMIT IN TRIPLICATE - Other instructions on page 2       7. If Unit of CAAgerement, Name and/or No.         C. Type of Well       Gas Well       Other         C. Jong Copy, CORID 371172)       304153421         B. Addres       3b. Phone No. <i>Include area codel</i> Go Cox 270:03, CORPUS CHIEST IN TRAP. 013       3b. From No. <i>Include area codel</i> Go Cox 270:03, CORPUS CHIEST IN TRAP. 013       3b. From No. <i>Include area codel</i> Go Cox 270:03, CORPUS CHIEST IN TRAP. 013       3b. From No. <i>Include area codel</i> Location of Well (Fronzego, Sec F., M., or Survey Description)       10. Field and Pool of Pelipointary Area         Statespicer A states FEL. SEC 7. Take. Rose       EDDY         IN Der OF SUBMISSION       TYPE OF ACTION         Notice of Intent       Addres         Go Dock The Rope Plane       Plag and Abandoment Notice         Statespicer A formation were with the preformation of the propagal state of the average of provide states of the average of provide states of the average of provide the average of provide states of the aver	Form 3160-5 (August 2007)						ON Exp 5. Lease Serial No.	FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010 5. Lease Serial No. NMNM15295			
	Do not	use this f	orm for proposals t	o drill or to	re-enter an	1		Tribe Name			
Autor of Uperator     Series     Serie		SUBMIT	IN TRIPLICATE - Other	instructions or	n page 2.		7. If Unit of CA/Agreen	ment, Name and/or No.			
CK 7 FEDERAL NO. 2  Stand Openation (Correction Correction (Correction Correction Corre	1. Type of Well			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			8. Well Name and No.				
Biddle Engineering Corp. (OGRID 371172)       30-016-33221         Bis. Address       36. Phone No. (Include area code)       Carlsbait: Aloka, South (Gas)         C. Location of Well (Facegae, See, T. R.M., or Survey Description)       II. Country or Parish. State         EDDY       III. Country or Parish. State         III. Country or Parish. State       IIII. Country or Parish. State         III. Country or Parish. State       IIII. Country or Parish. State         III. Country or Parish. State       IIIII. Country or Parish. State         IIII. Country or Parish. State       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Gas W	ell Other				CK 7 FEDERAL NO.	2			
361-452-2703 main, 361-813-895 cell       Carlsbadt: Aloka, South (Gas)         11. Country or Parish, State       EDDY         12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         II. Outry or Parish, State       EDDY         II. Country or Parish, State       EDDY         II. Subsequent Report       Active:       Production (Sart/Resume)       Water Shut-Off         II. Subsequent Report       Change Repart       New Construction       Recomplete       Other         II. Subsequent Report       Change Repart       New Construction       Recomplete       Other       Other         II. Douting of the site is ready for final impection.       Change Repart       Production (Sart/Resume)       Other       Other         II. Dout of the site is ready for final impection.       Integrate Abandoment Notice       Integrate Abandoment Notice       Integrate Abandoment	Riddle Engineering Co	orp. (OGRID 3	71172)				30-015-33421				
								•			
		······································			3 main, 361-813	3-1895 cell					
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF SUBMISSION         Subsequent Report       Acidize         Subsequent Report       Casing Repair         Big and Abandommer Notice       Convert to Ingection         Pring and Abandommer Notice       Convert to Ingection         Statistication of the involved Operations:       Clearly state all pertinent maters and zone Affect to adopt divertical depths of all pertinent maters and zone Affect to adopt divertical depth of all approximate duration there are approved with a Madio torices must be filled only after all requirements, including reclamation, have been completed and the operation the area with sub filled only after all requirements, including reclamation, have been completed and the operation the approximate duration there are approximate duration there are approximate duration and the operation of a material depth on the analy down 2 3/6" operanded tubing.         Ren In hole With 278 65. Ept 160 EUE tubing as inner casing to 11,380' (current plug back total depth).         Comment 27/8" casing in 5 1/2" casing with sufficient volume such that cacluated coreget to in 13 000' to 1030' to 1130' to 1130' to 1130'		-	A., M., Or Survey Description,	,			-	Jac			
TYPE OF SUBMISSION       TYPE OF ACTION         Motice of Intent       Actizz       Deepen       Production (Start/Resum)       Water Shut-Off         Subsequent Report       Casing Repart       New Construction       Reclomation       Other         Is basequent Report       Casing Repart       New Construction       Reclomation       Other         Is Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration ther       Type subscription of the work and approximate duration ther         Is Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated and true vertical depth of all pertinemarkers and 2004       Attach the Bond under which the work will be performed or provide the Bond Vo. on file with BLMBIA. Required and the vertical depth of all pertinemarkers and 2004         13: Describe Proposed or Completed Operation: Clearly state all performed or provide the Bond Vo. on file with BLMBIA. Required and the vertical depth of all pertinemarkers and 2004       Attach the Bond under which the work will be performed or provide the Bond Vo. on file with BLMBIA. Required and the vertical depth of all pertinent markers and 2004         14: Development and the site is reaction.       The operation clearly in the vertical example completion on a new fine of all pertinent markers and 2004         13: Describe Aroba and the site is reaction.       The operation of any down 2.38° openended tubing.       Environment all provide operations.         1: Put out			K THE APPROPRIATE BC	X(ES) TO IND	ICATE NATUR	E OF NOTIC	L CE, REPORT OR OTHE	ER DATA			
Notice of Intent       Acidize       Deepen       Production (Start/Resume)       Water Shak-Off         Subsequent Report       Casing Repair       New Construction       Recomplete       Other         Final Abandonment Notice       Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration there the proposal is deepen directionally or recomplete horizonally, jew substrates Octations and measure and true vertical depth of all pertinent markers and zon Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BLA. Required and true vertical depth of all pertinent and results in a multiple completion or fine works will depth of all pertinent markers and zon Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BLA. Required and true vertical depth of all pertinent and results in a multiple completion or in a new increal, a Form 31604 must be filed to testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)         RECOMPLETE UPHOLE INTO ATOKA         1. Pull out of hole and lay down 2 3/8° openended tubing.         2. Run in hole with 27/8° 5.5 pD 1206 EUE tubing as inner casing to 11,380 (current plug back total depth).         3. Cernet 27/8° casing with Sufficient volumes study that cacluated corpent to is at 3000° (to cover part in 5 1/2° casing at 3508°)         5. Perforate Atoka at 11318° to 11320°, 11316°, 1130°, 10130°, 11309°, 11309°, 11300° to 11301°, 11289° to 11291°, 11281° to 11284°, 11248°	TYPE OF SUBM			. ,				<u></u>			
Motice of Infent       After Casing       Practure Treat       Reclamation       Well Integrity         Subsequent Report       Casing Repair       New Construction       Reclamation       Other         Final Abandonment Notice       Charge Plans       Plug and Abandon       Temporarity Abandon         13. Describe Proposed or Completed Operation:       Clearly state all pertinent defails, including estimated starting date of any proposed work and approximate daration the proposal is to deepen directionally or recomplete horizontally, give subsurface to estatos and measured and true vertical depths of all pertons mats to filed only after all requirements, including reclamation, have been completed and the operators that the filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is casely for final inspection).         RECOMPLETE UPHOLE INTO ATOKA       Recomment Motices         10. Pull out of hole and lay down 2.38° open-ended tubing.       Reclamation is all structuron/coment bond/correlation (og. Sub <i>n</i> ; <i>f</i> (2007 to 11309', 11297', 11300' to 11301', 11289' to 11291', 11281' to 11284', 11248' to 11284', 11248' to 11284', 11248' to 11316', 1			Acidize	Deen			<u></u>	Water Shut-Off			
Subsequent Report       Change Plans       Plug and Abandon       Temporarily Abandon         Subsequent Report       Convert to Injection       Plug Back       Water Disposal         33. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration there the proposal is to deepen directionally or recomplete horizontally, give subscription or recompleted of and work will be performed or provide the Bond No. on file with BLM/BLA. Required subsequent reports must be filed or testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that be site is ready for final inspection.)         RECOMPLETE UPHOLE INTO ATOKA         1. Pull out of hole and lay down 2.3/8° openended tubing.         2. Run in hole with 27/8° 6.5 ppt L80 EUE tubing as inner casing to 11,380° (current plug back total depth).         3. Cernent 27/8° 12 casing with sufficient volume such that calculated comment top is at 3000° (to cover part in 5.1/2° casing at 3508°).         5. Perforate Auka at 1131° 11320° (11316° (11316°, 11307° to 11309°, 11329°, 11300° to 11301°, 11329°, 11329°, 11300° to 11301°, 11289°, 11300° (to 11301°, 11289°, 11328°, 10129°, 11329°, 11329°, 11300° (to 11301°, 1128°, 1012°, 1128°, 10128°, 11300° (S.C.F.APPEROWAL.         10. Swab fluid out of tubing and test well. Acidize if necessary.       SEEE ATTACHED FERA         11. If commercial, initiate gas sales.       If the PRESIDENT       MAR 0 8 2017         Signature Gromed Typed       Date	I Notice of Intent						•				
Final Abandonment Notice           Convert to Injection           Plug and Abandon           Plug Back               Water Disposal             D scribe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration then             the troposal is to depen directionally or recomplete horizontally, give subsurface locations and measured after vertical deptits of all pertinent markers and zone             Attach the Bond under which work will be performed or provide the Bond No. on file will bulk/BIA. Required subsequent reports must be filed willin 30 dg             following completion or the involved operations. If the operation results in a multiple completion or recomplete and the operator has                Public out of hole and lay down 2 38° openended tubing.             2. Run in hole with 7786 6.5 ppl L80 EUE tubing as inner casing to 11,380' (current plug back total depth).             3. Cereme 2 78° casing in 5 1/2° casing at 3508)                 Public out of hubing and test well. Acidize if necessary.                 H commercial, initiate gas sales.                 for onmercial, initiate gas sales.                 Signature                 Mare Diage built of these and correct.             Name of the foregoing is true and correct.             Name of the foregoing is true and correct.             Name of the poly of this notice dees not warrant or certify             hat epricant bot dore tubing and test well.	Subsequent Report		Casing Repair	New New	Construction	Reco	mplete	Other			
3. Describe Proposed or Complete Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration the the proposal is to depen directionally or ecomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zone attach the Bond under which work will be performed or provide the Bond No. on file with BL/BIA. Required subsequent reports must be filed only after all requirements, including reclamation, have been completed.        Pull out of hole and lay down 2 38° openended tubing.         2. Run in hole with 2 78° 6.5 ppl 180 EUE tubing as inner casing to 11.380' (current plug back total depth).         3. Cerrent 2 718° casing in 5 1/2° casing with sufficient volume such that calculated competition to 11300' (to cover part in 5 1/2° casing at 3508')         4. Run in hole with 2 78° 6.5 ppl 180 EUE tubing as inner casing to 11.380' (current plug back total depth).         5. Cerrent 2 1/8° casing in 5 1/2° casing with sufficient volume such that calculated competitor to 11300' (to cover part in 5 1/2° casing at 3508')         4. Run gemma ray/neutron/cement bond/correlation log. Jubary. If CEL + for LMM         5. Perforted Atoka at 11318' 11302' (11315' to 11316', 11307' to 11309', 11309', 11309', 11309', 11315' to 11316', 11307' to 11309', 11315' to 11316', 11307' to 11309', 11329', 1130', 11309', 11309', 11309', 11300' to 11301', 11309', 11309', 11309', 11300' to 11301', 11000' to 11301', 11289', DEC EVER CONSERVER	Subsequent Report		Change Plans	Plug	and Abandon	Temp	oorarily Abandon				
the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertiment markers and zone Attach the Bond under which the work will be performed or provide the Bond No. on file with BLMBIA. Required subsequent reports must be filed within 30 day following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)  RECOMPLETE UPHOLE INTO ATOKA  1. Pull out of hole and lay down 2.3/8° openended tubing. 2. Run in hole with 2.7/8° casing in 5 1/2° casing with sufficient volume such that calculated competitop is at 3000° (to cover part in 5 1/2° casing at 3508°) 3. Cerner 27/8° casing in 5 1/2° casing with sufficient volume such that calculated competitop is at 3000° (to cover part in 5 1/2° casing at 3508°) 4. Run gamma ray/neutron/cerner thond/correlation log. Subprive 11309°, 11300°, 11316°, 11300°, to 11309°, 11300° to 11300°, 11289°, 11300° to 11301°, 11289° to 11291°, 11281° to 11284°, 11248° 11250°. 5. Swab fluid out of tubing and test well. Acidize if necessary. 1. If commercial, initiate gas sales. 8. If ono-commercial, initiate gas sales. 14. I hereby certify that the foregoing is true and correct. Name (Printed Typed) EDUARDO A RIDDLE 14. I hereby certify that the foregoing is true and correct. Name (Printed Typed) EDUARDO A RIDDLE 15. Center 2000 of this notice does not warrant or certify for the operator of the united does not warrant or certify for the price of the one rights in the subject lease which would office upper addition of the set of this notice does not warrant or certify for the price of the one rights in the subject lease which would office upper addition of the one rights in the subject lease which would office upped additing or quitable tiftle to those rights in the subject	Final Abandonmer	nt Notice	Convert to Injection	Plug	Back	Wate	r Disposal				
14. 1 hereby certify that the foregoing is true and correct.         Name (Printed/Typed)         EDUARDO A RIDDLE         Signature       Educate Chickley         Date       02/06/2017         RECEIVED         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Title Eng         Approved b       Title Eng         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify hat the applicant holds legal or equitable title to those rights in the subject lease which would nitile the applicant to conduct operations thereon.       Title Eng       Date       3///7         Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States a	<ol> <li>Run in hole with 2</li> <li>Cement 2 7/8" casi</li> <li>Run gamma ray/ne</li> <li>Perforate Atoka at 11250'.</li> <li>Swab fluid out of tu</li> <li>If commercial, initia</li> <li>If non-commercial,</li> <li>Swab fluid out of</li> </ol>	7/8" 6.5 ppf L£ ing in 5 1/2" ca eutron/cement 11318' to 113 Ibing and test ate gas sales. perforate Atol tubing and tes	30 EUE tubing as inner ca asing with sufficient volum bond/correlation log. Δw 19' 11320', 11315' to 113 well. Acidize if necessary ka at 11006', 11007' to 11 it well. Acidize if necessar	e such that ca bmir Cl 16', 11307' to 1 /. 010' and 1087'	Culated cemen L <b>fo BU</b> 1309', 11299',	t top is at 30 11300' to 11 SEE	000' (to cover part in 5 1301', 11289' to 1129' ATTACHED F DITICHS CF	1', 11281' to 11284', 11248' to GR MPPROVAL NM OIL CONSERVA			
Signature       Educate       Received         Signature       Educate       Conditions       Cond	Name (Printed/Type	d)	rue and correct.								
THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved bf       Approved bf       Itele       Eng       July         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify hat the applicant holds legal or equitable title to those rights in the subject lease which would ntitle the applicant to conduct operations thereon.       Title       Eng       July       July         Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States a	·			•	Title PRESIE	DENT		- AC			
Approved by Market States a state of this notice does not warrant or certify Date 3/1/1/2 Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify Int the applicant holds legal or equitable title to those rights in the subject lease which would Intile the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States a	Signature £	dua	ido a kes	lly	Date 02/06/2	017		RECEIVED			
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify hat the applicant holds legal or equitable title to those rights in the subject lease which would ntitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States a	- <u></u>		THIS SPACE	FOR FEDE	RAL OR ST	ATE OF	FICE USE				
hat the applicant holds legal or equitable title to those rights in the subject lease which would ntitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States a	Approved by	any are attached	Approval of this notice doe	s not warrant or		Eng	Γ	Date 3/1/17			
	that the applicant holds leg	al or equitable ti	itle to those rights in the subje			(Fu					
						and willfully t	o make to any departmen	t or agency of the United States an			

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District III 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

## 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

	API Number 30-015-3342			<sup>2</sup> Pool Coo 73800	le	<sup>3</sup> Pool Name CARLSBAD; ATOKA, SOUTH (GAS)				
<sup>4</sup> Property 34014	Code					<sup>5</sup> Property Name CK 7 FEDERAL 002				
<sup>7</sup> OGRID 37117					<sup>8</sup> Operator Name <sup>9</sup> Elevation RIDDLE ENGINEERING CORP, 3758'					
L		J			" Surface I	Location	<u></u>	I I		
UL or lot no. G	Section 7	Township 24S	Range 26E	Lot ldn	Feet from the         North/South line         Feet from the         East/West line         County           2520         NORTH         1415         EAST         EDDY					
		L	" Bo	ttom Hol	e Location If	Different Fron	n Surface	<b>L_</b>		
UL or lot no. G	Section 7	Township 24S	Range 26E	Lot Idn	Feet from the 1526	North/South line SOUTH	Feet from the 1238	East/West line EAST	County EDDY	
<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or	r Infiil <sup>14</sup> C	onsolidation	Code <sup>15</sup> Or	der No.		<u> </u>	<b></b> , , , , , , , , , , , , , , , , , ,		

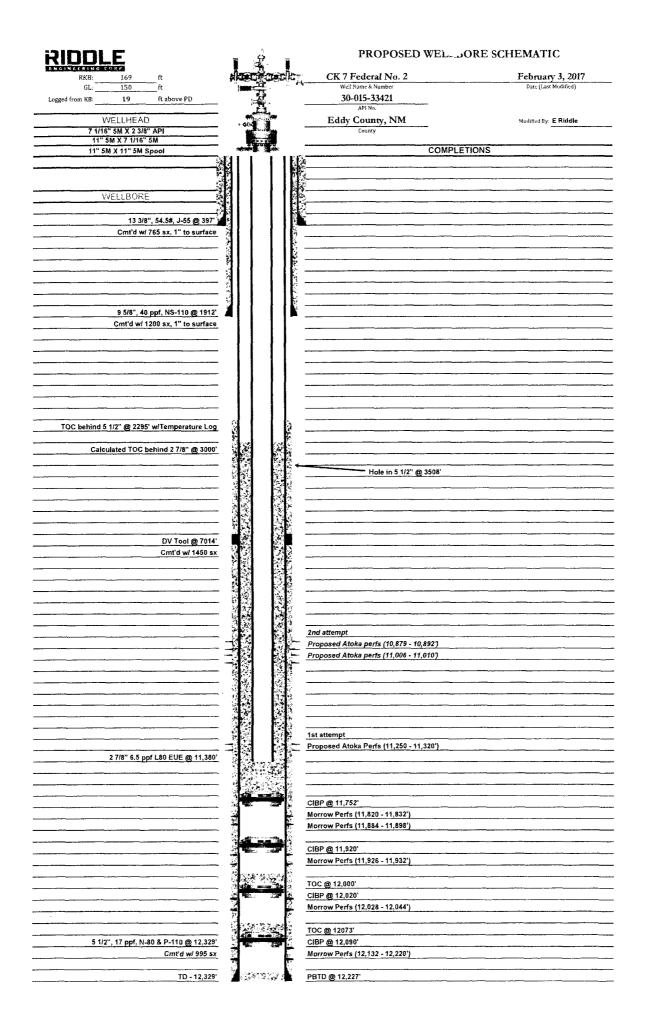
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	<b>▲</b> ,	· · · · · · · · · · · · · · · · · · ·	<sup>17</sup> OPERATOR CERTIFICATION
			I hereby certify that the information contained herein is true and complete
			to the best of my knowledge and belief, and that this organization either
ſ			owns a working interest or unleased mineral interest in the land including
			the proposed bottom hole location or has a right to drill this well at this
			location pursuant to a contract with an owner of such a mineral or working
			interest, or to a voluntary pooling agreement or a compulsory pooling order
	2520'		heretofore entered by the division.
	 		Eduardealide 02/06/2017
			Signature Date
			EDUARDO A RIDDLE
			Printed Name
			e.a.riddle@riddle-eng.com
	SHL L	1415'	E-mail Address
	<sup>5112</sup> ¥{ <b>↓</b>		
	 		<b>*SURVEYOR CERTIFICATION</b>
			I hereby certify that the well location shown on this plat
			was plotted from field notes of actual surveys made by
	ł V		me or under my supervision, and that the same is true
			and correct to the best of my belief.
	BHL	1238	and correct to the best of my belley.
	1 1	₩	
<b> </b>	 	·	Date of Survey
		)	Signature and Seal of Professional Surveyor:
		1526	
		Ţ	Certificate Number
	L	•	

RIDDLE	<b>.</b>	CURRENT WEL	ORE SCHEMATIC
якв: <u>169</u> ft	Management	CK 7 Federal No. 2	December 28, 2016
GL:ft Logged from KB: 19 ft above PD		Well Name & Number 30-015-33421	Date (Last Modified)
WELLHEAD 7 1/16" 5M X 2 3/8" API	e Grist Marrie	API No. Eddy County, NM County	Modified By: <u>E Riddle</u>
11" 5M X 7 1/16" 5M 11" 5M X 11" 5M Spool		COMPLE	TIONS
		PREPARED FROM NOTES P	ROVIDED BY CIMAREX ENERGY
WELLBORE		ý <u> </u>	
13 3/8", 54.5#, J-55 @ 397"		Q	
Cmt'd w/ 765 sx, 1" to surface			······
			······
			· · · · · · · · · · · · · · · · · · ·
9 5/8", 40 ppf, NS-110 @ 1912'	<b>4</b>       <b>N</b>		······································
Cmt'd w/ 1200 sx, 1" to surface			
			······································
			· · · · · · · · · · · · · · · · · · ·
TOC @ 2295' w/Temperature Log			······
		······································	A
		Hole in 5 1/2" @ 3508'	
			<u></u>
	5 		
Cmt'd w/ 1450 sx			
		· · · · · · · · · · · · · · · · · · ·	
		······	
	Ť.		
		353 jts of 2 3/8" 4.7 ppf L80 EUE tbg w/1.875" 5	N & tbg collar on btm
		EOT @ 11,232'	
		TOC 11,380'	
		CIBP @ 11,752'	
		Morrow Perfs (11,820 - 11,832')	
		Morrow Perfs (11,884 - 11,898')	
		CIBP @ 11,920' Morrow Perfs (11,926 - 11,932')	
	and the second		
		TOC @ 12,000' CIBP @ 12,020'	
		Morrow Perfs (12,028 - 12,044')	
5 1/2", 17 ppf, N-80 & P-110 @ 12,329		TOC @ 12073' CIBP @ 12,090'	
5 1/2 , 17 ppr, n-80 & P-110 @ 12,325 Cmt'd w/ 995 sx		Morrow Perfs (12,132 - 12,220')	
TD - 12,329'	and the second	PBTD @ 12,227'	

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# Wadi Petroleum

# **C&K 7 Federal**

# #2

County/State Eddy, TX Legal Loc. --

Set 2 7/8" 6.5# Casing In 5 1/2" 17# Casing @ 11,380'

Terms: Prepared for Ed Riddle

Phone Number: Email Address: e.a.riddle@riddle-eng.com Email Address: Aldo.Mendoza@Basicenergyservices.com

> Prepared by Aldo Mendoza Basic Energy Services Inc. 432-557-2370

Service Point: Midland , TX. Contact Person: Aldo Mendoza 432-687-1994

	Cen	nent Ca	lishe	901	t			E	B		SIC.
Company					ervice F			land , TX.			22 (02 122
	T	Wadi Petrole	um	C	ontact F	- 1		Mendoza Eddy	Ph #		32-687-1994 TX
Well Type		Contractor &K 7 Federal	Well #	2	5	-	unty		Stat		17
Lease Directions:			well #		Sec			Тwp	Rang	ge	
			15 MI SW	<sup>7</sup> of Ca	risba	d, NM	on 62/	/180			
Job Type						Casing Size		Thread	Weight		
		Liner				Tubing/Drill P	2 7/8 ipe Size	Thread	Weight		
Equipiment						Hole Size		Packer	Bridge Pl.	10	
							4 8/9				
Terms:						Plug Containe	er .	Squeeze Mani	lold Field Bin		•
		Set 2.7/	9" 6 <b>5</b> # Cov		n E 11	0" 47#	Yes	ng @ 11,380	, <u>l</u>		
			0 0.5# Ca				Casi	ing @ 11,380	·		
LEAD 1	Weight PPG	Туре	<u></u>		IENTI	Additives					·····
Sacks	Excess	Yield Ft³/sk	Water Gal/sk								
TAIL 1	Weight PPG	Туре				Additives 2% Ge1	+ 5% S	alt + 1/4pps Cel	loflake + 4/10	% C-15	+ 4/10% C-41P
CCT103	14.20	50/50 POZ wi	th Class H (	Cement	t			1/10% C-20			
Sacks 560	Excess	1.29	water Galisk	5.85							
LEAD 2	Weight PPG	Туре				Additives					
Sacks	Excess	Yield Ft <sup>3</sup> sk	Water Gal/sk								
TAIL 2	Weight PPG	· c	<b>I</b>			Additives					
Sacks	Excess	Yield F0/sk	Water Gal/sk								
Mouse/Rat	Weight PPG	Туре				Additives					
		N: 116.1	Water Gal/sk								
Sacks	Excess	Yield Ft <sup>s</sup> sk	Water Gausk			Additives					
Plugs	Weight PPG	Туре				Additives					
Sacks	Excess	Yield Ft <sup>y</sup> sk	Water Gal/sk								
				<u>Els</u> et	. Faul						
Part #	Quanity	De	escription	Float	t Equi	pment			# Used		# Returned
CE101		T D U C		(0)							
CF101	1	Top Rubber Ceme	nt Plug, 27	8			· · ·				
	+										<u></u>
	+										
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	<del></del>		. <u></u>	Misc	. Che	micals				L	
			<u> </u>								
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Operator or D Called	river							Call O	ut Time		



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#### Well Data and Calculations

	Lead 1 Cement	Tail 1 Cement	Lead 2 Cement	Tail 2 Cement	Top Out Cement	Plug Cement
Well Type:	Liner	Liner	Liner	Liner	Liner	
Job Type:	Liner	14.20	Linei	Liner	Liner	
Cement Weight PPG : Hole Size:	4.892	4.892	4,892	4.892		
Casing Size:	2.875	2.875	2.875	2.875		
Bottom of Cement:	2.875	11380	2.075	2,075		
Top of Cement:	5000	3000				
Percent Excess:		3000				
	0.0152	0.0152	0.0152	0.0152		
Annulus Cal: (bbl/ft)	0.0152	0.0152	0.0152	0.0854		
Annulus Cal: (cft/ft)	11.7037	11.7037	11.7037	11.7037		
Annulus Vol: (ft/cft) Annulus Vol: cft	256.31	715.96	11,7037	11.7037		
Annulus Vol: ft	2999.79	8379.40				
Fluid Yield: cft/sk	2999.79 <b>1.32</b>	<b>1.29</b>	1.32	1,32	1.32	1.32
			1.32	1.32	1.52	1.52
Annular Vol.bbls	45.65	173.18 127.51				
Slurry Volume: bbls	45.65		6,31	6,31	6,31	6.31
Fluid Water Ratio: gal/sk	6.31	<b>5.85</b> 33	0.31	0.31	0.31	0,31
Shoe Length: Ft.						
Shoe Calculation: bbl/ft		0.0232				
Pipe ID:Inches		4.8920				
Shoe Volume: bbls		0.77				
Shoe Volume: cft	050.04	4.31				
Cement Plus shoe: cft	256.31	720.27				
Cement Plus shoe: bbls	45.65	128.28				
Total mixing Water: bbls	29.17	77.77				
Displacement: bbls		264.55				
Calculated cement: Sks	194.18	558.35				
Total water required: bbls	29.17	342.32				

Lead 1 Cement		Cement Recommendations		
Tail 1 Cement	560	50/50 POZ with Class H Cement		560 sks
Lead 2 Cement				
Tail 2 Cement				
Top Out Cement				
Plug Cement				
			Total:	560
		Float Equipment		

Top Rubber Cement Plug, 2 7/8"

1 ea

Misc. Chemicals

### BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

### Permanent Abandonment of Production Zone Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within <u>ninety (90)</u> days from this approval.

If you are unable to plug back the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612

3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. <u>Cement Requirement</u>: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth.** 

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. <u>Subsequent Plug back Reporting and Completion Report</u>: Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed and supply current wellbore diagram**.

7. <u>Trash</u>: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.