	na an a		ł		CONSERV	VATIO	1				
DEPARTMENT OF CHE INTERIOR     UNIN 11 2015     SUNDER VADICE LAND MARAGEMENT     DEVICE AND REPORTS ON WELLS     On Artsis     Do not use hitsmin for proposals to drill of to re-effer at Device the attemption of the Artsis     Device of the first for proposals to drill of to re-effer at Device the attemption of the Artsis     SUBMIT IN TRIPLICATE - Other instructions on reverse side.     1. TUGAT CALARGEMENT     1. Type of Well     On Well     Cause Well     One of the Arts and Device the Artsis     SUBMIT IN TRIPLICATE - Other instructions on reverse side.     1. TUGAT CALARGEMENT     1. Type of Well     One of the Arts and Device the Artsis of the Artsis     SUBMIT IN TRIPLICATE - Other instructions on reverse side.     1. TUGAT CALARGEMENT     SUBMIT IN TRIPLICATE - Other instructions on reverse side.     1. TUGAT CALARGEMENT     SUBMIT IN TRIPLICATE - Other instructions on reverse side.     1. TUGAT CALARGEMENT     SUBMIT IN TRIPLICATE - Other instructions on reverse side.     1. TUGAT CALARGEMENT     SUBMIT IN TRIPLICATE - Other instructions on reverse side.     1. TUGAT CALARGEMENT     SUBMIT IN TRIPLICATE - Other instructions on reverse side.     1. Tuge of Well     Submit in the Artsis attribute instructions on reverse side.     1. Control of Mell Date     1. Control of Mell Participation     1. Control of Mell Partin     1. Control of Mell Participati	(August 2007)		<b>S</b> .	ART	ESIA DISTRI	ICT	FORM				
SUNDRY NOTICES AND BEPORTS ON WELLS CO Artesia     Donot use this from for prograssis to drift or to rescribe any section of the carbon any section carbon any section of the carbon any section carbon and any section of th	.D	SUREAU OF LAND MANA	GEMENT			15	Expires: July 31, 2010				
Location of Weil (Use form 3 biological (ADD) for such proposal (ECEIVED          (If the init Alloace or Tribe Name:          SUBMIT IN TRIPLICATE - Other Instructions on reverse side.          (If the init Alloace or Tribe Name:          SUBMIT IN TRIPLICATE - Other Instructions on reverse side.          (If the init Alloace or Tribe Name:          SUBMIT IN TRIPLICATE - Other Instructions on reverse side.          (If the init Alloace or Tribe Name:          SUBMIT IN TRIPLICATE - Other Instructions on reverse side.          (If the init Alloace or Tribe Name:          (If the init Alloace or Tribe Name:         (If the	, SUNDRY	NOTICES AND REPO	RTS ON W	ELLS OC	D Artesla						
Subann Ar, MP LCALL - Unit Manufactors of Preuze size     Subann Ar, MP LCALL - Unit Manufactors of Preuze size     Subanna - Compare - Compa	, Do not use the abandoned we	nis form for proposals to ell.  Use form 3160-3 (API	<b>)</b> . <u>6</u> .	If Indian, Allottee of	or Tribe Name						
Boot Well         Case Well         Other         Monte of Department         Other Medium         Other Medium <thother medium<="" th="">         Other Medium</thother>	SUBMIT IN TR	IPLICATE - Other instruc	tions on re	verse side	•	7.	If Unit or CA/Agre	ement, Name and/o	r No.		
Contract MEATHER BREHM     Contract Mean Approx      Contract Mean Approx     C		· · · · · · · · · · · · · · · · · · ·				8.	Well Name and No.	DRAW FEDERA	L 35 6H		
RHE EXPLORATION & PROD LLC       E-Mail: https://doi.org/10.1001/000000000000000000000000000000	2. Name of Operator	Contact:	HEATHER	BREHM		. 9.	API Well No.				
210 PARK AVE SUITE 900 OKLAHOMA CITY, OK 73102       Ph: 405-996-5779 PK 405-996-5772       VC-0/5 4-04       S3523155, Uppec Wolf Canrop         4 Location of Well (Poolage, Sc., T. R. M., or Survey Decryption)       Sec 36 7255 R29E NWNE 175FNL 2290FEL       S3523155, Uppec Wolf Canrop         32,053309 N Lat, 103,571302       FK 405-996-5772       VC-0/5 4-04       S3523155, Uppec Wolf Canrop         10. County of Pfinkl, and State 22,053309 N Lat, 103,571302       FK       EDDY COUNTY, NM         12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA       TYPE OF ACTION       Water Shut-Off, OR Notice of Intent       Actidize       Deceme       Production (Start/Resume)       Water Shut-Off, Change Phas         9 Notice of Intent       Actidize       Deceme       Production (Start/Resume)       Water Shut-Off, Change Phas       Production (Start/Resume)       Water Shut-Off, Change Phas         13. Describe Proposed or Completed Operation (clearly state all pertinent data), including estimated starting date of any proposed work and approximal duration (Production results in a multiple completion ar completion in a new interval, all operation and completion of the involved operation. How Canson and massate all and instanted starting date of any proposed work and approximal durations, how been completion of the involved operations. If the operation results in a multiple completion or resonappletion in a new interval, all operation starts and oncemet. Mol Completion Change. Proposed formation is the Wolfcamp, with proposed MD of 15,000 ft and TVD of 10,400 ft and BHL of 201 ft E1 and 1910 ft E1.	<u></u>	) LLC E-Mail: hbrehm@rl	kixp.com								
4. Location of Well (Produce, Sec. T. K. M., or Survey Decription)       11. County or Parish and State         Sec 35 T2SS P23E NUME 175FNL 2290FEL       22.05309 N Lat, 103.571395 WL cn         12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         I. Subsequent Report       Actidize       Decema         Subsequent Report       Chaing Repair       Notice of Intent       Well Integrity         Subsequent Report       Chaing Repair       Not Costing Repair       Well Costing Repair         To busine Proposed or Completed Operation (clearly state all peritient deals, including estimated starting date of any proposed to drapproximate duration thereof.         13. Describe Proposed or Completed Operation (clearly state all peritient deals, including estimated starting date of any proposed atoreanistic and answere the administer ecompletion or necompletion of the involved operations. If the operation results in a multiple completion or completed of the involved operations. If the operation results in a multiple completion or acompletion and the operation thas detected in the operation of the operation states that the field one at the administer that the date and the operation completed of the involved operations. If the operation results in a multiple completion or the operation form operations and ones. The operation of the operation completed of the involved operations. If the operation results in a multiple completion or the operation and complete of the involved operations. If the operation results in a multiple completion or the operation and ones. The operation Change.	210 PARK AVE SUITE 900	Ph: 405-9	96-5769			CORRAL CANY	(ON . 198	145) mp			
32.053509 N Lat, 103.571390 W Lon         12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION         TYPE OF SUBMISSION         OP Construction         OP Construction Construction         OP Construction Clarity water Advance         OP Construction Clarity water Advance         OP Construction Clarity water Clarity of Construction <td< td=""><td>4. Location of Well (Footage, Sec., 7</td><td>T., R., M., or Survey Description,</td><td>)</td><td></td><td><b>`</b></td><td>1.1</td><td>. County or Parish,</td><td>and State</td><td></td></td<>	4. Location of Well (Footage, Sec., 7	T., R., M., or Survey Description,	)		<b>`</b>	1.1	. County or Parish,	and State			
TYPE OF SUBMISSION       TYPE OF ACTION         Image: Subsequent Report       Actidize       Decepen       Production (Start/Resume)       Water Shut-Off.         Subsequent Report       Casing Repair       New Construction       Recomplete       Image Plans       Other         Change Change Plans       Plug and Abandon       Temporally Abandon       Change to Original A PD         To Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration whereof. If the proposal is to deepen directionally or recomplete horonally, give subsequence locations and measured and the whereit depths of all periment markers and zones. The proposed is to deepen directionally or recomplete horonally, give subsequence locations and measured and the whereit depths of all periment markers and zones. The proposed for final inspectional to the evolution periment markers and zones. The proposed for final inspection.         TKI REQUESTS A FORMATION CHANGE AND DRILLING CHANGES LISTED BELOW.       Formation Change:         Proposed formation is the Wolfcamp, with proposed MD of 15,000 ft and TVD of 10,400 ft and BHL of 200 ft PD and 13 3/8" csg Production casing will be set at 6600 with 12 1/4" hole and 5 1/2" csg         See revised drilling plan and plat attached.       See artification and plat the Steric records of the proposed is the Wolfcamp. With Proposed MD of 15,000 ft and TVD of 10,400 ft and BHL of 200 ft PD and 13 3/8" csg Production casing will be set at 6600 with 13 3/4" hole and 5 1/2" csg         See revised drilling plan and plat attached.       See			t				EDDY COUNTY	Y, NM			
Notice of Intent     Acidize     Production (Start/Resume)     Water Shut-Off,     Alter Casing     Practure Treat     Reclamation     Well Integrity     Change Plans     Plug and Abandon     Premovarily Abandon     Promoverito Ingent Plans     Production (Start/Resume)     Change Plans     Plug and Abandon     Premovarily Abandon     Promoverito Ingent Plans     Production (Start/Resume)     Change Plans     Plug and Abandon     Premovarily Abandon     Promoverito Ingent Plans     Production (Start/Resume)     Change Plans     Production (Change Vintert)     Production (Change)     Production Change     Production Change     Proposed Horn Pfonter     Proposed Horn Pfonter     Proposed Horn Pfonter     Production (Change Vintert)     Production Change     Production Casing will be set at 600° with 12 1/4" hole and 5 1/2" csg     Production Change     Production Casing Will be set at 600° with 13 1/4" hole and 5 1/2" csg     Production System     For Rit EXPLORATION & PRIP DLC, sent to the Caribada     Committee to APRMS for processing by CHing Synthone Prove Plate Million System	12. CHECK APP	ROPRIATE BOX(ES) TO	) INDICATI	E NATURE	E OF NOTIC	CE, REPO	ORT, OR OTHE	R DATA			
Notice of lifent Alter Casing	TYPE OF SUBMISSION			ТҮ	PE OF ACTI	ION			1		
Casing Repair     Casing	Notice of Intent	C Acidize	🗖 Dec	epen	D Pr	roduction	(Start/Resume)	U Water Shut-	Off		
Casing Krown Change Plans Convert to Injection Convert Convert to Injection Convert Conve		🗂 Fra	cture Treat	🗖 Re	eclamatio	n	🗖 Well Integri	ty			
Charles Plans Charles Charles Plans Charles Charles Plans Charles Cha							$\overline{C}$ hange to $\Omega$		vinal A		
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and trice vertical depths of all pertinent markers and zones. Attach the Bord with the vork with be performed to provide the Bord No. on the with BLM/BLA. Required subsequent proorts shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandhoment Notices Shall be filed only after alt requirements, including reclamation, have been completed, and the operator has determined that the site is really for final inspection.)         RKI REQUESTS A FORMATION CHANGE AND DRILLING CHANGES LISTED BELOW.         Formation Change:         Proposed formation is the Wolfcamp, with proposed MD of 15,000 ft and TVD of 10,400 ft and BHL of 230 ft FSL and 1910 ft FEL.         Drilling Change:         Surface casing will be set at 600% with 12 1/4" hole and 9 5/8" csg         Surface casing will be set at 600% with 12 1/4" hole and 9 5/8" csg         Yes revised drilling plan and plat attached.         14. 1 hereby certify that the foregoing is true and correct.         Electronic S RKI EXPLORATION & PRDDLC, sent to the Cariabad         Committed to AFMSS for processing by CHRIS OPHER WALLS on 06/03/2015 (15CRW00705E)         Name (Printed/Typed) HEATHER BREHM         Title       JUN A 201         Approved By <td>Final Abandonment Notice</td> <td colspan="4"></td> <td></td> <td></td> <td></td> <td>,indi / t</td>	Final Abandonment Notice								,indi / t		
If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and trive vertical depths of all pertinent markers and zones. Attack the Bond under which the work will be performed or provide the Bond No. on file with BLM/BLA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. The operation is an multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandnoment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)  RKI REQUESTS A FORMATION CHANGE AND DRILLING CHANGES LISTED BELOW. Formation Change: Proposed formation, is the Wolfcamp, with proposed MD of 15,000 ft and TVD of 10,400 ft and BHL of 230 ft FSL and 1910 ft FEL. Drilling Change: Surface casing will be set at 6680° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/2° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/2° csg Production casing will be set at 6680° with 12 1/4° hole and 9 5/2° csg Production casing will be set at 6680° with 12 1/4° hole and 5 1/2° csg See revised drilling plan and plat attached.		<u> </u>						inter duration that			
Formation Change: Proposed formation is the Wolfcamp, with proposed MD of 15,000 ft and TVD of 10,400 ft and BHL of 230 ft FSL and 1910 ft FLL. Drilling Change: Surface casing will be set at 600° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 600° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 600° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 600° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 600° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 600° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 600° with 12 1/4° hole and 9 5/8° csg Production casing will be set at 600° with 12 1/4° hole and 5 1/2° csg See revised drilling plan and plat attached. Accepted for recorc NMOCD Combined to AFMSS for processing by CHRIS OPHER WALLS on 06/03/2015 (15CRW0070SE) Name (Printed/Typed) HEATHER BREHM Title REPLORATION & PRDD LLC, sent to the Carisbad Committed to AFMSS for processing by CHRIS OPHER WALLS on 06/03/2015 (15CRW0070SE) Title REGULATORY ANALYST  ignature (Electronic Submission) Date 05/27/2015 APPROVED  Approved By Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease Orfice US  Accepted US  ACCEPTED  APPROVED  Title 18 U.S.C. Section 1012, make it a crime for any person knowingly and willfully Conditions of approval.	If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involvec testing has been completed. Final Al	ally or recomplete horizontally, rk will be performed or provide l operations. If the operation res bandonment Notices shall be file	give subsurface the Bond No. o ults in a multip	locations and n file with BL le completion	I measured and t M/BIA. Requin or recompletior	true vertica ired subseq on in a new	al depths of all pertin uent reports shall be interval, a Form 316	ent markers and zon filed within 30 days 0-4 shall be filed on	nes. S Ice		
Proposed formation is the Wolfcamp, with proposed MD of 15,000 ft and TVD of 10,400 ft and BHL of 230 ft FSL and 1910 ft FEL. Drilling Change: Surface casing will be set at 680° with 17 1/2" hole and 13 3/8" csg Intermediate casing will be set at 680° with 12 1/4" hole and 9 5/8" csg Production casing will be set at 15000 with 3 3/4" hole and 9 5/8" csg Production casing will be set at 15000 with 3 3/4" hole and 5 1/2" csg See revised drilling plan and plat attached. 14. Thereby certify that the foregoing is true and correct. Electronic Submission #302976 verified by the BLM Well Information System For RKI EXPLORATION & PRDD LLC, sent to the Carlsbad Committed to AFMSS for processing by CHRIS OPHER WALLS on 06/03/2015 (15CRW0070SE) Name (Printed/Typed) HEATHER BREHM Signature (Electronic Submission) Date 05/27/2015 Approved By Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable tilte to those rights in the subject lease Orfice BUREAU OF LAND MANAGEMENT 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 low make certify depretoment agency of the United	RKI REQUESTS A FORMATI	ON CHANGE AND DRILL	ING CHANC	GES LISTE	D BELOW.						
NMOCD 6/n/i5         Idea Microscopic Submission #302976 verified by the BLM Well Information System For RKI EXPLORATION & PROD LLC, sent to the Carlsbad Committed to AFMSS for processing by CHRIS OPHER WALLS on 06/03/2015 (15CRW0070SE)         Name (Printed/Typed)       HEATHER BREHM       Title       REGULATORY ANALYST         Signature       (Electronic Submission)       Date       05/27/2015       ADPDOVED         Approved By_	Proposed formation is the Wo 230 ft FSL and 1910 ft FEL. Drilling Change: Surface casing will be set at 6 Intermediate casing will be set Production casing will be set a	50 00 <sup>b</sup> with 17 1/2" hole and 1 t at 6800' with 12 1/4" hole at 15000 with 8 3/4" hole a	13 3/8" csg and 9 5/8" :	SEE csg COI	ATTAC	HED I IS OF	OR APPROVA				
14. I hereby certify that the foregoing is true and correct. Electronic Submission #302976 verified by the BLM Well Information System For RKI EXPLORATION & PRDD LLC, sent to the Carlsbad Committed to AFMSS for processing by CHRIS OPHER WALLS on 06/03/2015 (15CRW0070SE)         Name (Printed/Typed)       HEATHER BREHM         Signature       (Electronic Submission)         Date       05/27/2015         Approved By       Title         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Title         JUN       4       2015         BUREAU OF LAND MANAGEMENT       Office         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 the make term of the other of the united							NBACC				
Electronic Submission #302976 verified by the BLM Well Information System For RKI EXPLORATION & PROD LLC, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 06/03/2015 (15CRW0070SE)         Name(Printed/Typed)       HEATHER BREHM       Title       REGULATORY ANALYST         Signature       (Electronic Submission)       Date       05/27/2015       APPROVED         Marce       Title       REGULATORY ANALYST         Signature       (Electronic Submission)       Date       05/27/2015       APPROVED         Approved By       Title       JUN 4 2015       Date         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Office       BUREAU OF LAND MANAGEMENT         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 or make deally detariment or agency of the United       Office       Conditions of aper of the United	14. I hereby certify that the foregoing is	true and correct.				<u> </u>					
Name (Printed/Typed)       HEATHER BREHM       Title       REGULATORY ANALYST         Signature       (Electronic Submission)       Date       05/27/2015 <b>APPROVED</b> THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By       Title       JUN       4       2015         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Title       JS/ Chris Walls         BUREAU OF LAND MANAGEMENT       Office       BUREAU OF LAND MANAGEMENT         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		Electronic Submission #3 For RKI EXPLOR	ATION & PR	DD LLC, se	nt to the Carls	isbad .					
Signature       (Electronic Submission)       Date       05/27/2015       APPROVED         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By			ng by CHRIS			•	•				
MPEROVED         MPEROVED         MPEROVED         Approved By         Title       JUN 4 2019       Date         JOUN 19 2019       Date         Onditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Office       BUREAU OF LAND MANAGEMENT         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	Name (Printed Typed) HEATHEF				GULATORY	Y ANALY	51	۱			
MPEROVEU         MPEROVEU         MPEROVEU         Approved By       JUN 4 2019       Date         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.       Office       JUN 4 2019       Date         JUN 2015       Date         JUN 2015       Date         JOIN 2015       Date         Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease         Office       BUREAU OF LAND MANAGEMENT         CARTESDAD FIELD OFFICE         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 the make to any department or agency of the United	Signature (Electronic S	Submission)		Date 05	/27/2015	[			1		
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable tille to those rights in the subject lease which would entitle 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 or make to any department or agency of the United		THIS SPACE FO	R FEDERA	L OR ST	ATE OFFIC	EUSE-	AFFRU		·		
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable tile to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office USE BUREAU OF LAND MANAGEMENT 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 or make to any department or agency of the United	· · · · · · · · · · · · · · · · · · ·	· · · ·		<u> </u>				2015	<u> </u>		
certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle 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 or make to any department or agency of the United	Approved By			Title	:	1		Daig	<u> </u>		
	certify that the applicant holds legal or equ	itable title to those rights in the		Office		BUF					
						/ <del>lo-make-te</del>	CARESDAD TICLL	igency of the United			

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DISTRICT I 1623 N. French Dr., Hobba, NN 88240 Phone: (573) 393-6161 Fax: (575) 393-6720 DISTRICT II 811 S. Frai St., Antesia, NN 88210 Phone: (573) 744-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd, Aztes, NN 87410 Phone: (503) 34-6178 Pax: (503) 34-6170 DISTRICT IV 1220 S. St. Franci Dr., Santa Fe, NN 87593 Phone: (503) 476-3460 Fax: (503) 416-3462

# State of New MexicoARTESIA DISTRICTForm C-102Energy, Minerals & Natural Resources Department1 1 2045bmit one copy to appropriateOUL CONSERVATION DIVISIONJUN 1 1 2045bmit one copy to appropriate

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

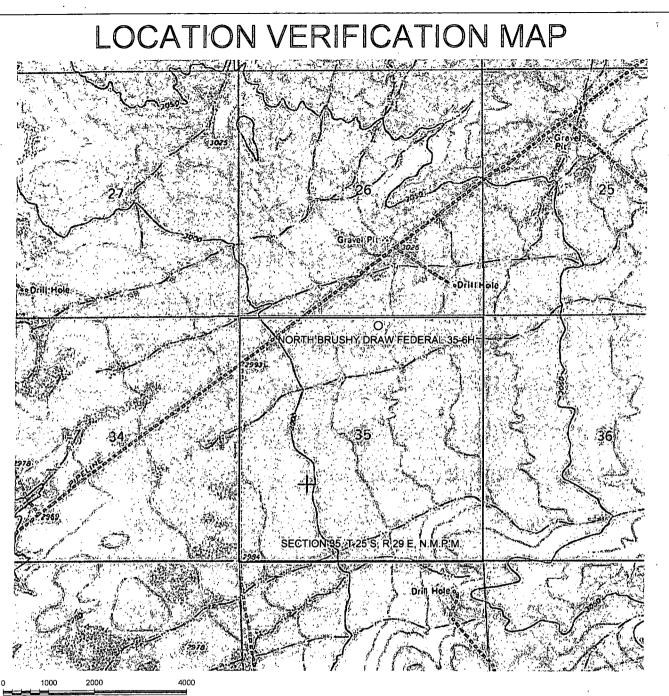
RECEIVED AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

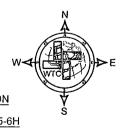
1	API Number		· · · · · · · · · · · · · · · · · · ·	Pool Code			Pool Name		
30-015-	42293			13354	18145	UNDES	SIGNATED WO	LFCAMP	
Property C	Code	· · · · · ·	·		Property Name			Well Nu	mber
389	62		I	NORTH B	RUSHY DRAV	V FEDERAL 35		61	4
OGRID N	No.				Operator Name	1		Eleva	ion
24628	9		R	KI EXPLO	DRATION AND	PRODUCTION		301	4'
		•			Surface Loca	tion			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	35	25 S	29 E		175	EAST	EDDY		
			Bott	om Hole I	Location If Diff	erent From Surfac	e		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	35	25 S	· 29 E		230	SOUTH	1910	EAST	EDDY
Dedicated Acres	Joint or	Infill	Consolidated Co	de Orde	r No.	·•	<b>.</b>	•	
320									

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.

			<u> </u>	OPERATOR CERTIFICATION
NW COR SEC 35	· 175		4	I hereby certify that the information contained
NMSP-E (NAD 83)		2290'		herein is true and complete to the best of my
N (Y) = 397973.5		1	NE COR SEC 35	knowledge and belief, and that this organization
E (X) = 655831.6'	FEDERAL 35 6H SHL		NMSP-E (NAD 83)	either owns a working interest or unleased
LAT.= 32*05'36.84" N	NMSP-E (NAD 83)	1	N (Y) = 397988.3	mineral interest in the land including the
LONG.= 103*57'49.00" W	N (Y) = 397806.7		E (X) = 661140.7	proposed bottom hole location or has a right to
	E (X) = 658851.2	Q	LAT.= 32°05'36.81" N	drill this well at this location pursuant to a contract with an owner of such a mineral or
•	LAT.= 32°05'35.09" N	1 LO	NG.= 103*56'47.27" W	working interest, or to voluntary pooling
	LONG.= 103°57'13.90" W		ł	agreement or a compulsory pooling order
	6	∽ FIRST TAKE	ſ	heretofore entered by the division.
	NMSP-E (NAD 27)	660' FNL	1	
	N (Y) = 397748.8'	1910' FEL		
	E (X) ≈617666.0'	NMSP-E (NAD 83)	· · · · · · · · · · · · · · · · · · ·	
	LAT.= 32.0929574°N	Y = 397323.0' N		Flather Schon 06.03.15
ľ		X = 659233.5' E		7 100000CT 2000003.15
	LONG.= 103.9533766°W	, X = 000200;0 E		Signature Date
· ·		1		
			1	Heather Brehm
	1		1	Print Name
	1			
· · ·				hbrehm@rkixp.com
			1	E-mail Address
			· · · · · · · · · · · · · · · · · · ·	SURVEYORS 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
1				same is true and correct to the best of my belief.
	1		ł	
			1	December 29, 2013
				Date of Survey
				Signature and Seal of Professional Surveyor
		- LAST TAKE		Signature and Seal of Protocology Sirveyor Martin
	NORTH BRUSHY DRAW	660' 591		MEX F
	FEDERAL 35 6H BHL			3463
	NMSP-E (NAD 83)	/		וועושן עובון
	N (Y) = 392904.2'	NMSP-E (NAD 83)		g (14729) g
	E (X) = 659253.2'	Y = 393334.3' N		│
	LAT.= 32°04'46.56" N	/ X = 659251.2' E	SE COR SEC 35	
	LONG = 103°57'09,42" W	4	NMSP E (NAD 83)	
	11	0	N (Y) = 392680.8	
SW COR SEC 35	NMSP-E (NAD 27)		E (X) = 661164.4'	
NMSP-E (NAD 83)	N (Y) = 392846.4'		LAT,= 32°04'44.28" N	( Marga & Margan
N (Y) = 392663.4	E (X) = 618067.9	LUN	IG.= 103°56'47.21" W	X MINIO
E (X) = 655847.1	LAT.= 32.0794770°N	0		Job No. WTC49483
LAT.= 32*04'44.30" N	LONG.= 103.9521345°W	230'		
LONG.= 103°57'49.02" W	LUNG.= 103.9321345 W		<u> </u>	JAMES E. TOMPKINS 14729
		11	· •	Certificate Number



GRAPHIC SCALE 1" = 2000' SECTION 35, T 25 S, R 29 E, N.M.P.M. COUNTY: EDDY STATE: NM DESCRIPTION: 175' FNL & 2290' FEL OPERATOR: RKI EXPLORATION AND PRODUCTION WELL NAME: NORTH BRUSHY DRAW FEDERAL 35-6H



#### DRIVING DIRECTIONS:

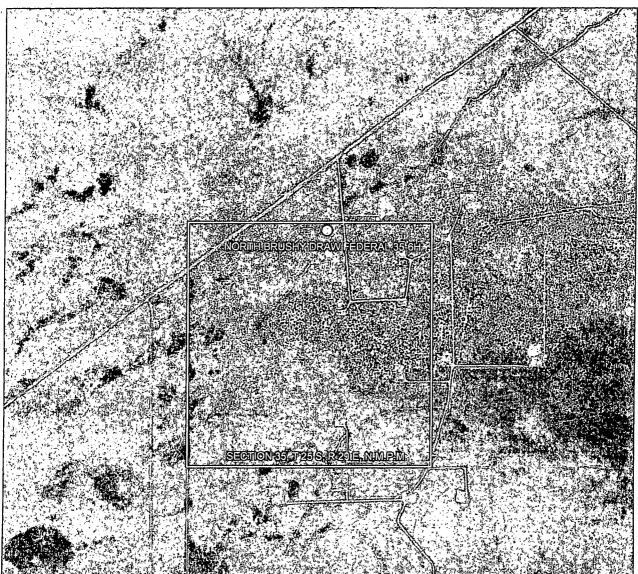
From the intersection of 285 and Longhorn County Road 725 go on 725 for 4.3 miles to a Lease Road. Go Northeast 3.7 miles to another Lease Road. Go South 0.2 mile to the Fed 35 1H Well location and a point 395' East of location.

WTC, INC. 405 S.W. 1st. STREET ANDREWS, TEXAS 79714 (432) 523-2181

**RKI** EXPLORATION & PRODUCTION

JOB No.: WTC49483

# AERIAL MAP



0 1000 2000 4000 GRAPHIC SCALE 1" = 2000'

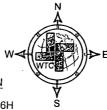
SECTION 35, T 25 S, R 29 E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 175' FNL & 2290' FEL

OPERATOR: RKI EXPLORATION AND PRODUCTION

WELL NAME: NORTH BRUSHY DRAW FEDERAL 35-6H



#### DRIVING DIRECTIONS:

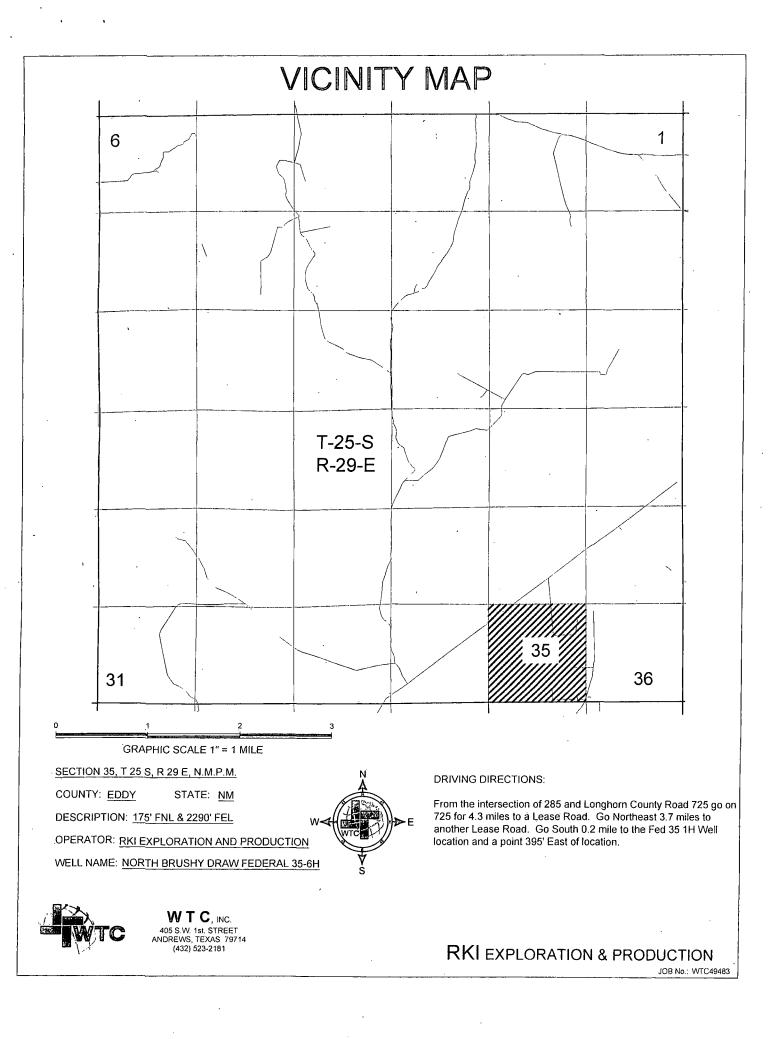
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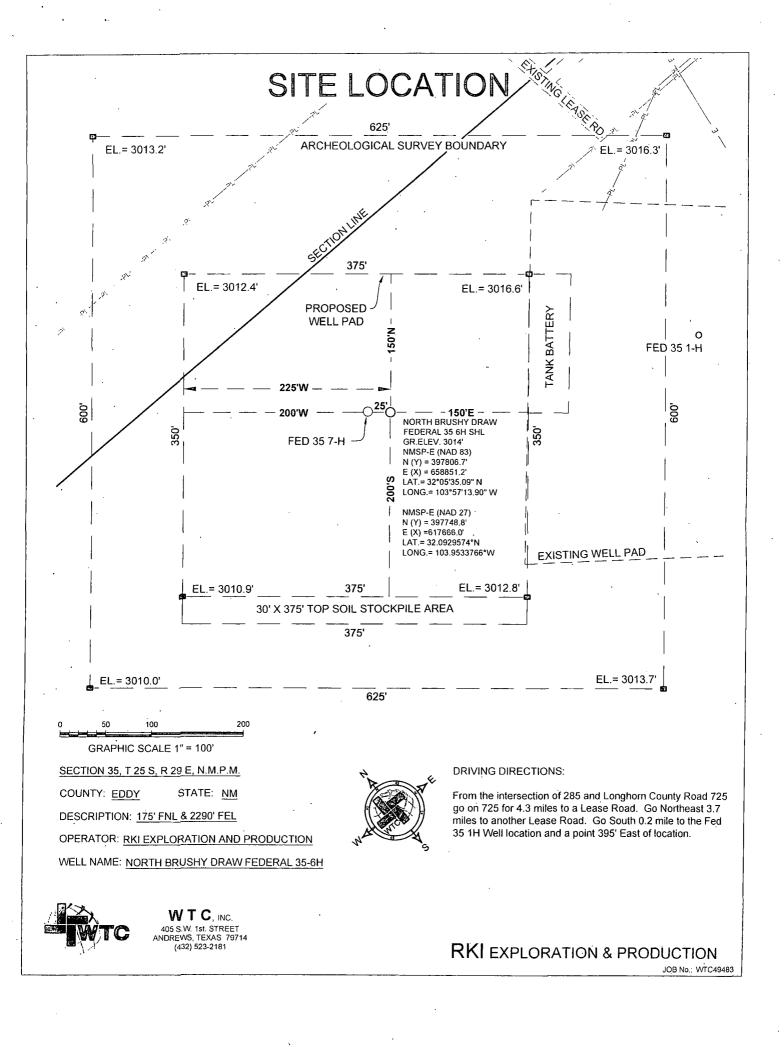


**WTC**, INC. 405 S.W. 1st. STREET ANDREWS, TEXAS 79714 (432) 523-2181

# **RKI** EXPLORATION & PRODUCTION

JOB No.: WTC49483





	•			4							
vniors	ation & Production, LLC										•
ng Pro											
• .											
	North Brushy Draw 35-6			•							
tion	Surface:	175 F		2,290			Sec. 35-255-2			i.	
	Bottom Hole:	230 FS	5L	1,910	FEL	•	Sec. 35-255-2	29E			
nty	Eddy										
9	New Mexico			· .							
	1) The elevation of the un	prepared grou	und is		•	•		3,014	feet above sea		
	)	مطفا التدام مقامم				18	KB .	14.045	3,032		
	<ol><li>A rotary rig will be utiliz This equipment will the</li></ol>			ell will be completed y	with a workove	ar ria		14,945	feet and run ca	asing.	
•	This equipment will the	in be ingged at		,		., 115					
:	<ol><li>Proposed depth is</li></ol>		14,945	feet measured depth							
- ,	4) Estimated tops:										
-	-) Estimated tops.			<u>MD</u>	TVD		Thickness	Fluid			
	Rustler	1		800	:	800	<u></u>	Freshwater			
	Salado			1,100		1,100	5				
	Base Lamar Lime			3,132	·	3,125					
	Delaware Top			3,423		3,415		Oil	ВНР	<b>,</b>	
	Cherry Canyon Sand			4,220		4,209		Oil	1,852		
	Kingrea			5,930		5,930		Oil	1,002	P31	
	Bone Spring Lime			6,950				, Oil	3,051	nsi	
	Bone Spring 1st SS			7,858		6,933		Oil	3,031	psi	
						7,841					
	Bone Spring 2nd SS			8,718		8,701		Oil	3,828		
	Bone Spring 3rd SS			9,762		9,745		Oil	4,288		
	KOP			9,840		9,823		Oil	4,322		
	Wolfcamp			10,209		10,167		Oil	4,473		
	Wolfcamp Target Top			· 10,841	1	10,467 j		Oil	4,605	psi	
	Landing Point		)	10,841	•1	10,467			4,605		
	Tatal Datab			11.045				*		psi	•
	Total Depth			14,945		10,467			230	Degrees F	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			4,104			t across all or	countered rece			
	Lateral Length *Note: All mineral resou	irces encount	ered will be nr/	stected by running ca	sing and raisin		- aci 033 ali cii	countered reso	uices		
	Lateral Length *Note: All mineral resou	irces encount	ered will be pro	otected by running ca	sing and raisin	g cemen					
5		irces encount	ered will be pro	otected by running ca	sing and raisin	g cemen					
5	*Note: All mineral resou	rces encount	ered will be pro	otected by running ca		g cemen	Grade	Connection	Burst	Pressure	Burs
n.e	*Note: All mineral resou				sing and raisin <sub>i</sub> Weight	g cemen	Grade	Connection	Burst	Pressure Max	Burs SF
p.e.	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2"					g cemen	Grade J-55	Connection STC	Burst 2730		SF
e.e nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4"	Тор	Bottom	50 <sup>0d Csg</sup>	Weight	g cemen	•			Max	SF 5.83
ee NA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2"	Top O	Bottom 6.	50 <sup>0D Csg</sup> 13 3/8"	Weight 54.5	g cemen	J-55	STC	2730	Max 468	SF 5.83 1.59
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4"	Тор 0 0	Bottom 1,000 6,950	OD Csg 13 3/8" 9 5/8"	Weight 54.5 40	g cemen	J-55 HCL-80	STC LTC	2730 5750 12630	Max 468 3614	SF 5.83 1.59 1.26
e.e nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4"	Top 0 0 0	Bottom -1,000 6,950 14,945	OD Csg 13 3/8" 9 5/8" 5 1/2"	Weight 54.5 40 20	g cemen	J-55 HCL-80 P-110	STC LTC ВТС	2730 5750 12630	Max 468 3614 10000 *Burst SF = Bu	SF 5.83 1.59 1.26 urst / Pm
ee NA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4"	Тор 0 0	Bottom 1,000 6,950	OD Csg 13 3/8" 9 5/8" 5 1/2"	Weight 54.5 40	g cemen	J-55 HCL-80	STC LTC	2730 5750 12630	Max 468 3614 10000 *Burst SF = Bu Mud	SF 5.83 1.59 1.26 urst / Pm Collap
ee NA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size	Тор 0 0 Тор	Bottom 4,000 6,950 14,945 Bottom	OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg	Weight 54.5 40 20 Weight	g cemen	J-55 HCL-80 P-110 Grade	STC LTC BTC Connection	2730 5750 12630 Collapse	Max 468 3614 10000 *Burst SF = Bu Mud Weight	SF 5.83 1.59 1.26 urst / Pm Collap SF
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2"	Тор 0 0 Тор	Bottom 4,000 6,950 14,945 Bottom -1,000	SO <sup>OD Csg</sup> 13 3/8" 9 5/8" 5 1/2" OD Csg SO 13 3/8"	Weight 54.5 40 20 Weight 54.5	g cemen	J-55 HCL-80 P-110 Grade J-55	STC LTC BTC Connection STC	2730 5750 12630 Collapse 1580	Max 468 3614 10000 *Burst SF = Bu Mud Weight 9.0	SF 5.83 1.59 1.26 urst / Pm Collap SF 3.38
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2" 12 1/4"	Top 0 0 0 Top 0	Bottom 4,000 6,950 14,945 Bottom -1,000 6,950	OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg SO 13 3/8" 9 5/8"	Weight 54.5 40 20 Weight 54.5	g cemen	J-55 HCL-80 P-110 Grade J-55 HCL-80	STC LTC BTC Connection STC LTC	2730 5750 12630 Collapse 1580 4230	Max 468 3614 10000 *Burst SF = Bu Mud Weight 9.0 10.0	SF 5.83 1.55 1.26 urst / Pm Collap SF 3.38 1.17
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2"	Тор 0 0 Тор	Bottom 4,000 6,950 14,945 Bottom -1,000	SO <sup>OD Csg</sup> 13 3/8" 9 5/8" 5 1/2" OD Csg SO 13 3/8"	Weight 54.5 40 20 Weight 54.5		J-55 HCL-80 P-110 Grade J-55	STC LTC BTC Connection STC LTC BTC	2730 5750 12630 Collapse 1580	Max 468 3614 10000 *Burst SF = Bu Mud Weight 9.0 10.0 11.5	SF 5.83 1.59 1.26 urst / Prr Collap SF 3.38 1.17 1.35
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2" 12 1/4" 8 3/4"	Top 0 0 0 Top 0 0 0	Bottom 4,000 6,950 14,945 Bottom -1,000 6,950 14,945	OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg 13 3/8" 9 5/8" 5 1/2"	Weight 54.5 40 20 Weight 54.5 40 20	, .	J-55 HCL-80 P-110 Grade J-55 HCL-80 YP-110	STC LTC BTC Connection STC LTC BTC *Collag	2730 5750 12630 Collapse 1580 4230 12100 pse SF = [Collaps	Max 468 3614 10000 *Burst SF = Bu Mud Weight 9.0 10.0 11.5 se/(mw x 0.05	SF 5.83 1.59 1.2( urst / Prn Collap SF 3.38 1.17 1.35 52 x Dep
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2" 12 1/4" 8 3/4" Hole	Top 0 0 0 Top 0	Bottom 4,000 6,950 14,945 Bottom -1,000 6,950	OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg SO 13 3/8" 9 5/8"	Weight 54.5 40 20 Weight 54.5		J-55 HCL-80 P-110 Grade J-55 HCL-80	STC LTC BTC Connection STC LTC BTC	2730 5750 12630 Collapse 1580 4230 12100	Max 468 3614 10000 *Burst SF = Bu Mud Weight 9.0 10.0 11.5 se/(mw x 0.05 Tension	SF 5.83 1.59 1.20 urst / Pro Collap SF 3.38 1.17 1.35 52 x Dep Tensio
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size	Тор 0 0 Тор 0 0 Тор	Bottom 4,000 6,950 14,945 Bottom 1,000 6,950 14,945 Bottom	OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg	Weight 54.5 40 20 Weight 54.5 40 20 Weight	۰. ۲.	J-55 HCL-80 P-110 Grade J-55 HCL-80 P-110 Grade	STC LTC BTC Connection STC LTC BTC *Collag Connection	2730 5750 12630 Collapse 1580 4230 12100 pse SF = [Collaps Tension	Max 468 3614 10000 *Burst SF = Bu Mud Weight 9.0 10.0 11.5 se/(mw x 0.05 Tension Load	SF 5.83 1.59 1.20 urst / Pm Collap SF 3.38 1.17 1.35 52 x Dep Tensid SF
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2"	Тор 0 0 0 Тор 0 0 Тор 0 0	Bottom 1,000 6,950 14,945 Bottom 1,000 6,950 14,945 Bottom 1,000	OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg 00 Csg 13 3/8" 9 5/8" 5 1/2"	Weight 54.5 40 20 Weight 54.5 Weight 54.5		J-55 HCL-80 P-110 Grade J-55 HCL-80 P-110 Grade J-55	STC LTC BTC Connection STC LTC BTC *Collag Connection STC	2730 5750 12630 Collapse 1580 4230 12100 pse SF = [Collaps	Max 468 3614 10000 *Burst SF = Bu Mud Weight 9.0 10.0 11.5 se/(mw x 0.05 Tension	SF 5.83 1.59 1.26 urst / Pm Collap SF 3.38 1.17 1.35 52 × Dept Tensic SF
ee nA	*Note: All mineral resou 5) Casing program: Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size 17 1/2" 12 1/4" 8 3/4" Hole Size	Тор 0 0 Тор 0 0 Тор	Bottom 4,000 6,950 14,945 Bottom 1,000 6,950 14,945 Bottom	OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg 13 3/8" 9 5/8" 5 1/2" OD Csg	Weight 54.5 40 20 Weight 54.5 40 20 Weight	۰. ۲.	J-55 HCL-80 P-110 Grade J-55 HCL-80 P-110 Grade	STC LTC BTC Connection STC LTC BTC *Collag Connection	2730 5750 12630 Collapse 1580 4230 12100 pse SF = [Collaps Tension	Max 468 3614 10000 *Burst SF = Bu Mud Weight 9.0 10.0 11.5 se/(mw x 0.05 Tension Load	5.83 1.59 1.26 urst / Pm Collap SF 3.38 1.17 1.35 52 × Dept Tensic

\*All casing load assumptions are based on Air Wt. Burst design assumes Max Frac Pressure (10K), & Collapse design assumes evacuated & max Mud Weight during interval.

Collapse1.1All casing will be newBurst1Casing design subject to revision based on geologic conditions encountered	Minimum Design	Standards	·
Burst 1 Casing design subject to revision based on geologic conditions encountered	Collapse	1.1	All casing will be new
	Burst	1 .	Casing design subject to revision based on geologic conditions encountered
Tension 1.9	Tension	1.9	

Cement program:							
Surface		17 1/2" hole					
Pipe OD		13 3/8"	•				
Setting Depth		1,000 ft					
Annular Volume		0.6947 cf/ft					
Tail		200					
Shoe Joint		36.5					
Excess		1				100 %	
		-			•	383 ft	
Lead	642	2 sx	1.75 cf/sk		13.5 ppg		9.13 gal/sl
Tail		) sx	1.33 cf/sk		14.8 ppg		6.32 gal/s
i un	Lead:	"C" + 4% PF20 (gel) + 2% PF		9 (CelloFlake) + .4 p		n)	
	Tail:	"C" + 1% PF1 (CC)		- , - , - ,		•	•
		Top of cement:	Surface				
		3 centralizers on bottom 3 j		ery other jt			
Intermediate		12 1/4" hole					`
Pipe OD		9 5/8"					
Setting Depth		6,950 ft					
Annular Volume		0.3132 cf/ft		0.323 cf/ft			
DV Tool		5,500 ft		0.020 0000			
Excess	1st Stage	0.6				60 %	
LYCE33	2nd Stage	1.6				160 %	
Stage 1:	2nd Stage	. 1.0				100 /0	
Lead	491	1 sx	1.48 cf/sk		13 ppg		7.609 gal/s
	Lead:	PVL + 1.3% PF44 + 5% PF174	4 + .5% PF606 + .4% F	PF13 + .1% PF153 + 5,500 ft	.4 pps PF45 DV tool:		5,500 ft
		1 per joint bottom 3 joints,	then 1 every 3th jt		57 (00).		0,000 11
Stage 2:							
Lead	· `1308	3 sx	2.87 cf/sk		11.6 ppg		16.793 gal/s
Tail		5 sx	1.33 cf/sk		14.8 ppg		6.331 gal/sl
	Lead:	35/65 Poz "C" + 5% PF44 + 6	5% PF20 + .2% PF13 +	.125 ps PF29 + .4 p			-
	Tail:	"C" + .2% PF13					
		Top of cement: SURFACE		- ft			
		1 per joint bottom 3 joints,	then 1 every 3th jt				
Production		8 3/4" hole					
Pipe OD (in OH)		5 1/2"					
Setting Depth		14,945 ft					
Annular Volume		0.2526 cf/ft		0.2526 cf/ft			
Excess		0.35				35 %	
Lead	690	) sx	1.47 cf/sk		13 ppg		gal/sl
Tail	921	L sx	1.89 cf/sk		13 ppg		9.632 gal/s
	Lead:	PVL +1.3% PF44 + 5% PF174	+ .5% PF606 + .3% P	F 813 + .1% PF153 -	+.4pps PF45		
	, Tail:	AcidSolid PVL + 5% PF174 +	.7% PF606 + .2% PF1	53 + .5% PF13 + 30	% PF151 + .4 pps f	PF47	
		Top of cement:		6,650 ft			
				0,000 11			

\*NOTE: A cement bond log will be ran across 9 5/8" Intermediate casing

#### 7) Pressure control equipment:

The blowout preventer equipment will be 5,000 psi rated as shown in the attached BOP diagram and consist of the following Annular preventer Pipe rams Blind rams Pipe rams Drilling spool or blowout preventer with 2 side outlets (choke side shall be a 3" minimum diameter, kill side shall be at least 2" diamete Choke line shall be 3" minimum diameter 2 choke line valves, 3" minimum diameter 2 chokes with 1 remotely controlled from the rig floor Kill line, 2" minimum diameter 2 kill line valves and a check valve, 2" minimum diametei Upper and lower kelly cock valves with handles readily available Safety valves and subs to fit all drill string connections in use shall be readily available Inside BOP or float available

Pressure gauge on choke manifold

All BOPE subjected to pressure shall be flanged, welded, or clamped

Fill-up line above uppermost preventer

A 13 3/8" SOW x 13 5/8" 5M multi-bowl casing head will be installed and utilized until Total Depth is reached.

The 9 5/8" casing will be landed in the head on a casing mandrel, and the stack will not be broker

until total depth has been reached. Before drilling out the 9 5/8" casing will be tested to .22 psi/ft of casing setting

depth or 1,500 psi whichever is greater, but not exceeding 70% of the burst rating of the pipe.

After drilling approximately 10 feet of new formation an EMW test of 11.0 ppg will be performed.

Pipe rams will be operated and checked each 24 hour period and each time the drill string is

out of the hole. These function test will be documented on the daily driller's log.

8) Mud program:

Тор	Bottom	Mud Wt.	Vis .	PV	YP	Fluid Loss	Type System
0-0		8.3 to 8.5	28 to 30	1-6	1-6	NC	Fresh Water ND
60	1,000 6,950	9.8 to 10	28 to 30	1 - 10	1 - 12	NC	Brine
	6,950 9,840	8.8 to 9.3	35 to 40	8 - 10	10 - 12 -	NC	Cut Brine
1	9,840 14,945	9.3 to 10.5	45 to 55	8 - 12	6 - 10	10 to 15	Cut Brine

\*Enough Barite will be stored on location to weight up mud system to an 11.5 ppg mud weight if needed (2751 sx from 9.3 ppg to 11.5 ppg - 2000 bbl system). Formula: Barite Required (lbs) = [(35.05 x (Wf-Wi))/(35.05-Wf)] x Mud Volume (gals). \*Pason PVT equipment will monitor all pit levels at all times, in the event an influx occurred

9) Logging, coring, and testing program:

No drill stem test or cores are planned Neutron/Density, Resistivity, Gamma Ray, Caliper will be run at Pilot Hole Total Depth

Neutron, Gamma Ray, Caliper will be run from TD to surface

10) Potential hazards:

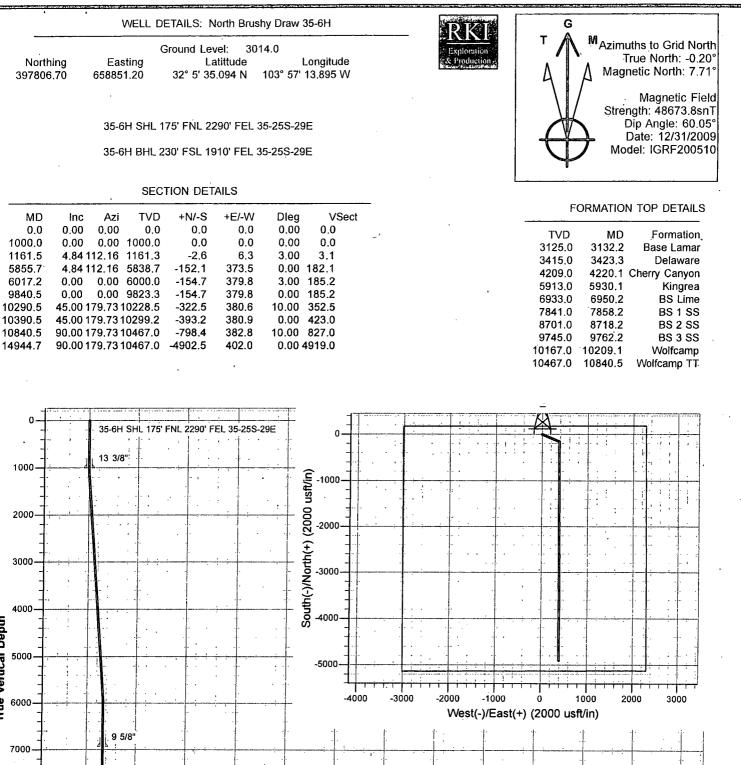
No H2S is known to exist in the area.

Lost circulation can occur, lost circulation material will be readily available if needed

 11) Anticipated start date
 ASAP

 Duration
 35 c

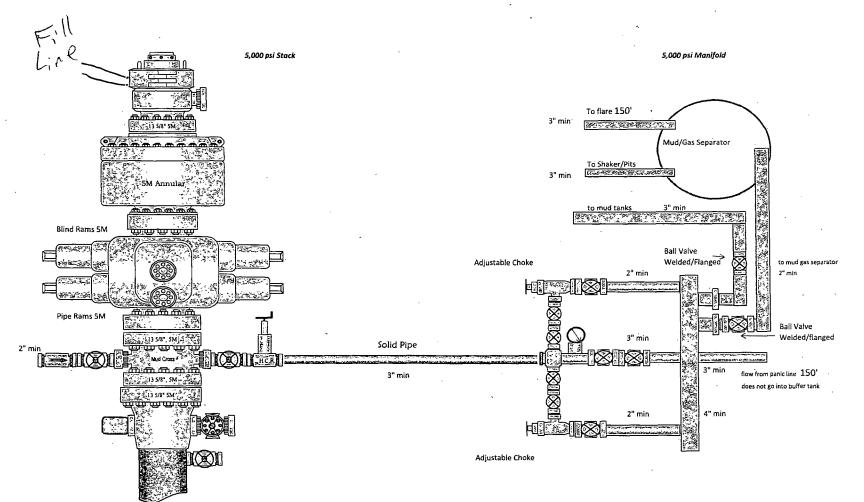
35 davs



35-6H BHL 230' FSL 1910' FEL 35-25S-29E 5 1/2" 

Vertical Section at 175.31°

True Vertical Depth



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# NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 11 2015

# CONDITIONS OF APPROVAL

# RECEIVED

OPERATOR'S NAME: RKI EXPLORATION & PRODUCTION LLC LEASE NO.: NM054290 WELL NAME & NO.: North Brusy Draw Federal 35 - 6H SURFACE HOLE FOOTAGE: [175] ' F [N] L [2290] ' F [E] L BOTTOM HOLE FOOTAGE: [230] ' F [S] L [1910] ' F [E] L LOCATION: Section 035, T025. S., R 029 E., NMPM COUNTY: Eddy County, New Mexico

# I. DRILLING

# A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

# **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- •3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

# **B.** CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

### Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

## High Cave/Karst

Possibility of water flows in the Salado and Castile. Possibility of lost circulation in the Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 650 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

a. First stage to DV tool:

- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve approved top of cement on the next stage.
- b. Second stage above DV tool:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

# C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

- Operator has proposed a multi-bowl wellhead assembly that has a weld on head with no o-ring seals. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
  - a. Wellhead manufacturer is supplying the test plug/retrieval tool for the operator's third party tester to use during the BOP/BOPE test. Operator shall use the supplied test plug/retrieval tool.
  - b. Operator shall install the wear bushing required by the wellhead manufacturer. This wear bushing shall be installed by using the test plug/retrieval tool.
  - c. Wellhead manufacturer representative shall be on location when the intermediate casing mandrel is landed. Operator shall submit copy of manufacturer's wellsite report with subsequent report.
  - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
  - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

d. The results of the test shall be reported to the appropriate BLM office.

- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

# D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

# E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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