In 2013     In 2013     In 2013     In 2014     I		UNITED STATES PARTMENT OF THE IN	ITERIOR	HOBBE	0-	OMB N		-0137
Do not use this form for proposals to drill or is in enter on 3 2019     If Indian, Alletter or Tribe Name     SUBMIT IN TRIFLICATE - Other Instructions on page 2     Tops of Well     Other     SUBMIT IN TRIFLICATE - Other Instructions on page 2     Tops of Well     Other     SUBMIT IN TRIFLICATE - Other Instructions on page 2     Tops of Well     Other     SUBMIT IN TRIFLICATE - Other Instructions on page 2     Tops of Well     Other     SUBMIT IN TRIFLICATE - Other Instructions on page 2     Tops of Well     Other     SUBMIT IN TRIFLICATE - Other Instructions on page 2     Tops of Well     Other     SUBMIT IN TRIFLICATE - Other Instructions on page 2     Tops of Well     Other     SUBMIT IN TRIFLICATE - Other Instructions on page 2     Tops of Well     Other     Sub address of the page 2     Submit Instructions on page 2     Tops of Well     Other     Submit Instructions on page 2     Tops of Well     Submit Instructions Context     NCKY FITZGERALD     Sub-24627402X1     Address     Sub address of the page 2     Submit Instructions     Submit Instructinstructions			GEMENT RTS ON WE	ilder "	OCD	5. Lease Serial No.	anuary 5	1,2018
Substant AL INFORMATION IN THE CONTENT STATUSED ON PAGE 1 20  Substant AL INFORMATION IN THE CONTENT STATUSED ON PAGE 1 20  Substant AL INFORMATION COMPANYE-Mark mady flaggeratel@maladomesources.com  A Addres  A Addres A Addres A Addres A Addres A Addres  A Addres  A Addres  A Addres  A Addres  A Addres  A Addres A Addres  A Addres  A Addres  A Addres A	Do not use this abandoned wel	s form for proposals to I. Use form 3160-3 (APL	drill or to re-	enter an 3 200	9		or Tribe	Name
B OIL Well _ Gas Well _ Other       PRODEX PROBINON FEDERAL 101F         Amar of Openier OR       Consist: NICKY FITZGERALD       9.4 Well No.         Address       Address       9.3 0425-6427-00-X1         Address       The More No.       10. Fett and Pool or Exploringly Area .         Address       Ph. Well No.       9.4 Well No.         Address       No. Rev No.       10. Fett and Pool or Exploringly Area .         Address       PRONGHORN       Electronic Status and No.         Location of Well (Footige, Sec. T. K. M. or Survey Description)       II. County or Patish, State         Location of Well (Footige, Sec. T. K. M. or Survey Description)       III. County or Patish, State         23.404121 Lat. 10.05 6170860 W Lon       III. County or Patish, State         III. County or Patish, State       Leca Country , NM         23.404121 Lat. 10.05 6170860 W Lon       III. County or Patish, State         III. County or Patish, State       Call Reveal Country , NM         23.404121 Lat. 10.05 6170860 W Lon       III. County or Patish, State         III. County or Patish, State       Call Reveal Country , NM         24.4012 Charge Plans       Phig and Abandon         III. County or Patish, State       Call Reveal Country , NM         25.40412 Lat. Advecame Abandon       IIII. Patish Abandon IIII. Patish Abandon IIII. Patish Abandon IIII. P	SUBMIT IN 1	RIPLICATE - Other inst	ructions on	page 2	0	7. If Unit or CA/Agree	ement, N	Name and/or No.
MATADÓR PRODUCTION COMPANYE-Mail: nicky/fitzgerál@matadores.com       30-022-4278-04.11         Address       Address       30-022-4278-04.11         Address       Status TX 75240       10         DALLAS, TX 75240       11. County or Patish, State       LEA COUNTY, NM         S2.240412 N Lat, 103 617066 W Lon       11. County or Patish, State       LEA COUNTY, NM         S2.240412 N Lat, 103 617066 W Lon       11. County or Patish, State       LEA COUNTY, NM         S2.240412 N Lat, 103 617066 W Lon       11. County or Patish, State       LEA COUNTY, NM         S2.240412 N Lat, 103 617066 W Lon       11. County or Patish, State       LEA COUNTY, NM         S2.240412 N Lat, 103 617066 W Lon       12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         © Notice of Intent       Alter Casing       Hydraulic Fracturing       Reclamation       Water Shur-Of         © Subsequent Report       Change Patis       Plug and Abandon       Temporatish data data data data data data data dat	••	er						EDERAL 101H
5400 LBJ FREEWAY SUITE 1500       Ph: 972-371-5448 Ext: 5448       PRONGHORN         Jucalian, TX 75240       II. County or Parish, State       Leaction of Well (Ponge, Ser. T. R. M. or Survey Description)       II. County or Parish, State         Sec 6 723S R33E 240FNL 827FWL       32.304178 Lat, 1038 617068 Vic.on       LEA COUNTY, NM         S2.3404178 Lat, 1038 617068 Vic.on       II. County or Parish, State       LEA COUNTY, NM         S2.3404178 Lat, 1038 617068 Vic.on       TYPE OF ACTION       Water Shut-Off         S Notice of Intent       Acidize       Deepen       Production (Start/Resume)       Water Shut-Off         S Notice of Intent       Acidize       Deepen       Production (Start/Resume)       Water Shut-Off         S Notice of Intent       Ching Repair       New Construction       Recomplete       Other         D Final Abandonment Notice       Ching Paris       Plug and Abandon       Temporation (Start/Resume)       Water Shut-Off         D sective Proposed or Completed Operation: Clinty state all pertinent details, including estimated starting data of all pertonsities duration thereof       Phus Back       Water Shut-Off         D sective Proposed or Completed Operation: Clinty state all pertonsities is a subleple completion or necompletion in a sev interval, a find one perton is a borp proposed or completed field Admonter Notice       Shut-Shut-Shut-Shut-Shut-Shut-Shut-Shut-	Name of Operator MATADOR PRODUCTION CC	Contact:   OMPANYE-Mail: nicky.fitzge	NICKY FITZO rald@matador	SERALD resources.com			00-X1	
See 6 T23S R33E 240FNL 827FWL       LEA COUNTY, NM         12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Image: Check the appropriate the state of the state state of the state of the state of the state of the st	5400 LBJ FREEWAY SUITE 1	500					Explorat	lory Area
32.340412 N Lat, 103.617096 W Lon  12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION  TYPE OF SUBMISSION  NTYPE OF ACTION  NTYPE OF SUBMISSION  NTYPE OF ACTION  NTYPE OF ACTION  NTYPE OF ACTION  Number of intent  A ther Casing Hydraulic Fracturing Reclamation Well Integrity Casing Repair New Construction Recomplete Other Other Hydraulic Fracturing Reclamation Well Integrity Convert to Injection Plug Back Water Disposal Describe Troposed or Completed Operation: Clearly state all pertinent dealis, including estimated stating date of any proposed work and approximate duration therefore Convert to Injection Plug Back Water Disposal Describe Troposed or Completed Operation: Clearly state all pertinent dealis, including estimated stating date of any proposed work and approximate duration therefore Convert to Injection Plug Back Water Disposal Describe Troposed or Completed Tother tothorizolity, give substrate locations and messared and true vertical depths of all perinent materia and and on the vertical depths of all perinent materia and approximate duration therefore Casing Bab ber completed. Truit Advandommen, Notices must be filed only after all requirements, including reclamation, have been completed and the operator is substrate location to use of the 9-5/87 407 J-55 casing with a Johanned set depth of 50477. Matador Jans toru no-5/87 407 H-CP-110 DET (cspece Shelf there to all on the Intermediate hole section. The Intermediate locasing change for the 9-5/87 407 J-55 casing with a Johanned set depth of 9,0007. Matador Jans toru no-5/87 407 H-CP-110 DET (cspece Shelf there to all on Shelf there Det SUSS. Section 12 (Spece Shelf there to all on Shelf there Det SUSS. Section 12 (Spece Shelf there to all on the Intermediate hole section. The Intermediate locasing change for the 9-5/87 407 J-55 casing with a Johanned set depth of 9,0007. Matador Jans torus no soft PEOSUSTING PEOSUSTING DET (Spece Shelf there to all on the Intermediate Det SUSS. Section 12 (Spece		, R., M., or Survey Description)				11. County or Parish,	State	
TYPE OF SUBMISSION       TYPE OF ACTION         Image: Subsequent Report       Axidize       Deepen       Production (Star/Resume)       Water Shu-Oft         Image: Subsequent Report       Casing Repair       New Construction       Reclamation       Well Integrity         Image: Subsequent Report       Change Plans       Plug and Abandon       Temporarily Abandon       Other         Image: Subsequent Report       Change Plans       Plug and Abandon       Temporarily Abandon       Other         Image: Subsequent Report       Change Plans       Plug and Abandon       Temporarily Abandon       Other       Other         Image: Subsequent Report       Change Plans       Plug and Abandon       Temporarily Abandon       Demonstration Amongenetics       Temporarily Abandon         Image: Subsequent Report       Change Plans       Plug and Abandon       Temporarily Abandon       Demonstration Amongenetics       Temporarily Abandon         Image: Subsequent Report       Change Subsequent Report       Image: Subsequent Report       Temporarily Abandon       Temporarily Abandon         Image: Subsequent Report       Change Subsequent Report       Image: Subsequent Report       Temporarily Abandon       Temporarily Abandon         Image: Subsequent Report       For the Subsequent Report       Image: Subsequent Report       Temporarily Abandon						LEA COUNTY,	NM	
Avidize     A	12. CHECK THE AP	PROPRIATE BOX(ES)	TO INDICA	<b>FE NATURE O</b>	F NOTICE,	REPORT, OR OTI	HER D	ΑΤΑ
Alter of Infent     Subsequent Report     Casing Repair     Convert to Injection     Casing Repair     Convert to Injection     Casing Repair     Convert to Injection     Casing Repair	TYPE OF SUBMISSION	l	· · · · · -	TYPE OF	ACTION			
B After Casing   Hydraulic Fracturing   Reclamation   Well Integrity     Casing Repair   New Construction   Recomplete   Other     Casing Repair   New Construction   Recomplete   Other     Casing Repair   New Construction   Temporarily Abandon     Convert to Injection   Plug Back   Water Disposal     Convert to Injectin Plug Back   Plug Plug   Plug   Plug   Plug	R Notice of Intent	Acidize	Dee Dee	pen	Product	ion (Start/Resume)		Vater Shut-Off
Final Abandonment Notice     Change Plans     Plug and Abandon     Temporarily Abandon     Convert to Injection     Plug Back     Mater Disposal     Convert to Injection     Plug Back     Water Disposal     Convert to Injection     Plug Back     Convertify that the foregoing is true and correct.     Electronic Su	-	Alter Casing	🗖 Hyd	raulic Fracturing	Reclam	ation	۵W	Vell Integrity
Convert to Injection     Plug Back     Water Disposal     Completed Operation: Clearly state all pertinent details, including estimated staring date of any proposed work and approximate duration thereod     The proposal is to despen directionally or recomplete horizontal during the Detained and the vertical depths of all pertinent materias and zones.     Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BLA. Required subsequent reports must be filed within 30 days     attach the Site is ready for final impection.     BLM Bond No. NMB001079     Surety Bond No. RLB0015172     Correct State of the Site of the Site of Site Site of Site Site of Site Site Site Site Site Site Site Site	Subsequent Report	Casing Repair	🗖 New	Construction	🗖 Recomp	olete		Other
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 depen directionally or ecomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. 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 and zones. BLM Bond No. NMB001079 SUrety Bond No. RLB0015172 CarlsData Doc D Horizon Corr the following well Rodney Robinson Federal #101H, API # 30-025-46278. Matador is proposing a intermediate casing change for the 9-5/8? 40# J-55 casing with a planned set depth of 50477. Matador is also proposing to change the public (spec sheet attach) at a new casing set depth of 9,000?. Matador is also proposing to change the multi program would change to 9.5 to 10.2 PPG Saturated Brine to 8.6 to 8.8 OBM for the intermediate hole section. The deeper intermediate will require a DV stage tool placed at 5000? (updated cement design included). 4. 1 hereby certify that the foregoing is true and correct. Electronic Submission #493039 verified by the BLM Well information System For MATADOR PRODUCTION FOMPANY, sent to the hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 11/21/2019 (20PP0424SE) Name (PrintedTyped) JAMES LONG THIS SPACE FOR FEDERAL OR STATE OFFICE USE Signature (Electronic Submission) Date 11/19/2019 THIS SPACE FOR FEDERAL OR STATE OFFICE USE Degroved By_NDUNGU KAMAU	Final Abandonment Notice	Change Plans	Change Plans			orarily Abandon		
If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true 'errical depths of all periment markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file will BLMBIA. Required Subsequent reports must be filed within 30 days 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 once testing has been completed. The work will be end the operator nesults in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. The MBD of the intermediate is ready for final inspection. BLM Bond No. NIMB001079 Surety Bond No. NIMB001079 Surety Bond No. NIMB001079 Surety Bond No. NIMB001079 Surety Bond No. RLB0015172 For the following well Rodney Robinson Federal #101H, API # 30-025-46278. Matador is proposing a intermediate casing change for the 9-5/87 40# J-55 casing with a planned set depth of 50477. Matador plans to run 9-5/87 40# H-C-P110 BTC (spec sheet attach) at a new casing set depth of 9,000?. Matador is also proposing to change the mud program for the intermediate hole section. The mud program would change to 9.5 to 10.2 PPG Saturated Brine to 8.6 to 8.8 OBM for the intermediate hole section. The deeper intermediate will require a DV stage tool placed at 5000? (updated cement <u>Bertonnic Submission #493039 verified by the BLM Well Information System For MATADOR PRODUCTION FOMPANY, sent to the hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 11/21/2019 (20PP0424SE) Name (PrintedTyped) JAMES LONG THIS SPACE FOR FEDERAL OR STATE OFFICE USE <u>Thils PACE FOR FEDERAL OR STATE OFFICE USE</u> <u>Thils PACE FOR FEDERAL OR STATE OFFICE USE</u> <u>Thils PACE FOR FEDERAL OR STATE OFFICE USE</u> <u>Thils Pace For proval, if any, are attached</u>. Approval of this notice does not warrant or tif that the applicant holds kepal or equitable tilt to thos</u>		Convert to Injection	🗖 Plug	Back	🗋 Water I	Disposal		
mud program would change to 9.5 to 10.2 PPG Saturated Brine to 8.6 to 8.8 OBM for the intermediate hole section. The deeper intermediate will require a DV stage tool placed at 5000? (updated cement design included).         4. 1 hereby certify that the foregoing is true and correct.         Electronic Submission #493039 verified by the BLM Well Information System For MATADOR PRODUCTION COMPANY, sent to the Hobbs Committed to AFMSS for processing by PRSCILLA PEREZ on 11/21/2019 (20PP0424SE)         Name (Printed/Typed)       JAMES LONG         Title       SENIOR DRILLING ENGINEER         Signature       (Electronic Submission)         Date       11/19/2019         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Office Hobbs         office Hobbs         office Hobbs         Iteleptrol James attached. Approval of this notice does not warrant or trify that the applicant holds legal or equitable title to those rights in the subject lease ich would entitle the applicant to conduct operations thereon.       Office Hobbs         Office Hobbs         Network faile will require a transments or representations as to any matter within its jurisdiction.	Surety Bond No. RLB0015172 For the following well Rodney intermediate casing change fo Matador plans to run 9-5/8? 40	Robinson Federal #101H r the 9-5/8? 40# J-55 casi 0# HC-P110 BTC (spec s	, API # 30-02 ing with a pla	5-46278. Matado nned set depth o at a new casing	or is proposion of 5047?.	ing a		
Electronic Submission #493039 verified by the BLM Well Information System For MATADOR PRODUCTION COMPANY, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 11/21/2019 (20PP0424SE)         Name (Printed/Typed) JAMES LONG       Title         Signature       (Electronic Submission)         Date       11/19/2019         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Name (Printed/Typed) JAMES LONG         Title SENIOR DRILLING ENGINEER         Signature       (Electronic Submission)         Date         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Supproved By_NDUNGU KAMAU	mud program would change to hole section. The deeper inter	9.5 to 10.2 PPG Saturate	ed Brine to 8	6 to 8.8 OBM for	r the interm	ediate		
Signature       (Electronic Submission)       Date       11/19/2019         THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By_NDUNGU KAMAU	Com	Electronic Submission #4 For MATADOR Pl mitted to AFMSS for proce	RODUCTION	COMPANY, sent SCILLA PEREZ or	to the Hobbs 11/21/2019	(20PP0424SE)		
THIS SPACE FOR FEDERAL OR STATE OFFICE USE         Approved By_NDUNGU KAMAU	Name (Printed/Typed) JAMES LC	DNG		Title SENIOF		ENGINEER		
Approved By_NDUNGU KAMAU		ubmission)		Date 11/19/20	019			
nditions of approval, if any, are attached. Approval of this notice does not warrant or tify that the applicant holds legal or equitable title to those rights in the subject lease ich would entitle the applicant to conduct operations thereon. Office Hobbs le 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 tates any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	Signature (Electronic S		R FEDERA		OFFICE U	SE		
tify that the applicant holds legal or equitable title to those rights in the subject lease ich would entitle the applicant to conduct operations thereon. Office Hobbs le 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 tates any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	Signature (Electronic S	THIS SPACE FO						D
le 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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.				TitlePETROLE	<u>UM ENGIN</u>	EER		Date 12/03/20
structions on page 2)	Approved By_NDUNGU KAMAU_ Inditions of approval, if any, are attached tify that the applicant holds legal or equ	d. Approval of this notice does nitable title to those rights in the			UM ENGIN	EER		Date 12/03/20
	Approved By_NDUNGU KAMAU_ onditions of approval, if any, are attached rtify that the applicant holds legal or equ nich would entitle the applicant to condu the 18 U.S.C. Section 1001 and Title 43	<ul> <li>Approval of this notice does itable title to those rights in the ict operations thereon.</li> <li>U.S.C. Section 1212, make it a</li> </ul>	subject lease	Office Hobbs			agency	

## Additional data for EC transaction #493039 that would not fit on the form

#### 32. Additional remarks, continued

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Please email all questions to James Long, jlong@matadorrecources.com

### Revisions to Operator-Submitted EC Data for Sundry Notice #493039

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	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	CSG-ALTER NOI	CSG-ALTER NOI
Lease:	NMNM138876	NMNM138876
Agreement:		
Operator:	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240 Ph: 972-371-5448	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240 Ph: 972.371.5200
Admin Contact:	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Cell: 972-371-5448 Ph: 972-371-5448 Ext: 5448	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Cell: 972-371-5448 Ph: 972-371-5448 Ext: 5448
Tech Contact:	JAMES LONG SENIOR DRILLING ENGINEER E-Mail: jlong@matadorrecources.com	JAMES LONG SENIOR DRILLING ENGINEER E-Mail: jlong@matadorrecources.com
	Ph: 972-371-5449	Ph: 972-371-5449
Location: State: County:	NM LEA COUNTY	NM LEA
Field/Pool:	RED TANK	PRONGHORN
Well/Facility:	RODNEY ROBINSON FEDERAL 101H Sec 6 T23S R33E Mer NMP 240FNL 827FWL 32.340411 N Lat, 103.617096 W Lon	RODNEY ROBINSON FEDERAL 101H Sec 6 T23S R33E 240FNL 827FWL 32.340412 N Lat, 103.617096 W Lon

# **■ EVRAZ** 9-5/8" 40# HC-P110

High Collapse P110; Seamless

Pipe Body Geometry							
Outside Diameter		9.625	in				
Wall Thickness		0.395					
Nominal Linear Mass (T&C)	· · · · · · · · · · · · · · · · · · ·	40.00	lb/ft				
Plain End		38.97	lb/ft				
Inside Diameter		8.835	in				
Drift Diameter		8.679	in				
Alternate Drift Diameter		8.750	in				
Pipe Body Performance				· · · · · ·			
Grade		HC-P110					
Yield Strength Minimum		110,000	psi				
Tensile Strength Minimum		125,000	psi				
Plain End Pipe Body Yield		1,260	1,000 lbf				
Collapse Resistance <sup>[1]</sup>		4,100*	psi				
Internal Yield [2]		7,900	psi				
Ductile Rupture (Burst)	[3]	8,980	psi				
Connection Geometry	· · · · · · · · · · · · · · · · · · ·						
		LC		BC		· · · ·	
Coupling Outside Diameter		10.625	in	10.625	in		
Coupling Minimum Length		10.500	in	10.625	in		
Connection ID Type		Non-flu	sh	Non-flu			
Make-up Loss		4.750	in	4.813	in		
API Compatible		Yes		Yes			
Connection Performance							
·	LC		BC				
Threaded and Coupled Join	t Strength	988	1,000 lbf	1,266	1,000 lbf		
Efficiency		69	%	88	%		
Internal Presssure		7,900	psi	7,900	psi		
Make-up Torque [4][5]	optimum	9,880	lb <sup>.</sup> ft	Not available	lb ft		
	minimum	7,410		Not available			
	maximum	12,350	lb <sup>.</sup> ft	Not available	lb'ft		

[2]The internal yield is calculated using API 5C3 Equation (10).

[3] This is an absolute limit and not safe work limit. Calculated based on API 5C3 Equation (14).

[4]For LC or SC, The values of optimum make-up torque was calculated as 1 % of the calculated joint pull-out strength as determined from API 5C3 Equation (55).

[5]For BC, data is not availabe from API for this size and grade combination. Torque must be verified by triangle position.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss						
Intermediate 1	12.25	Brine Water	1277-5047	9.5 - 10.2	28-30	NC						
Production	8.75	FW/Cut Brine	5047-19948	8.6 - 9.4	28-30	NC						
	Proposed Mud Program											
Hole Section	Hole Size (in)	Mud Type	interval MD (ft)	Density (ib/gai)	Viscosity	Fluid Loss						
Intermediate 1	12.25	OBM	1277-9000	8.6- 8.8	28-30	NC						

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9000-19948

8.6 - 9.4

28-30

NC

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Permitted Casing Program											
String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (In)	Wt. (ib/ft)	Grade	Joint	Collapse	Burst	Tension	
Intermediate 1	12.25	0 - 5047	0 - 5047	9.625	40	J-55	BUTT	1.125	1.125	1.8	
Production	8.75	0 - 19984	0 - 9839	5.5	20	P-110	Tech Lok Wedge	1.125	1.125	1,8	

Cut Brine or OBM

8.75

Production

Proposed Casing Program												
String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (16/ft)	Grade	Joint	Collapse	Burst	Tension		
Intermediate 1	12.25	0 - 9000	0 - 9000	9.625	40	HC-P110	BUTT	1,125	1,125	1,8		
Production	8.75	0 - 19984	0 - 9839	5.5	20	P-110	Tech Lok Wedge	1,125	1,125	1.8		

	Permitted Cement Program												
String	Туре	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend				
Intermediate 1	Lead	940	2.13	1996	12.6	50%	0	С	Bentonite + 1% CaCL2 + 8% NaCt + LCM				
Intermediate	Tail	370	1.38	504	14.8	50%	4047	С	5% NaCI + LCM				
Broduction	Lead	540	2.22	1203	11.5	25%	4847	н	Fluid Loss + Dispersant + Retarder + LCM				
Production	Tail	2650	1.35	3576	13.2	25%	8692	н	Fluid Loss + Dispersant + Retarder + LCM				

					Propo	sed Cement Prog	am		
String	Туре	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement (ft)	Class	Blend
	2nd Stage	1387	1.85	2566	12.8	100%	0	с	5% NaCl + LCM
Intermediate 1	1st Stage Lead	727	2.76	2007	11	100%	4000	TXI	Viscosifier + Extender + Retarder + LCM
	1st Stage⊺ail	846	1,37	1159	13,2	100%	7200	TXI	Fluid Loss + Dispersant + Retarder + LCM
Production	Lead	540	2.22	1203	11.5	25%	4847	н	Fluid Loss + Dispersant + Retarder + LCM
FIGULION	Tail	2650	1.35	3576	13.2	25%	8692	н	Fluid Loss + Dispersant + Retarder + LCM