Form C-101

August 1, 2011 Permit 375767

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

Phone:(505) 47	76-3470 Fax:(505) 470	6-3462													
		APPLICA	ATION F	OR PERM	IT TO DRIL	L, RE	-ENTER, DEE	PEN	I, PLUGBAC	CK, OR	ADD A ZO	NE			
	me and Address D PERMIAN OPERA	ATING LLC.									2. OGF	RID Number 373075			
	1 HOLIDAY HILL R DLAND, TX 79707	ROAD									3. API	Number 30-015-55	5687		
4. Property Co	de 3438		5. Property		ORTH 25 ST (	СОМ					6. Well	No. 163H			
						7. Sui	face Location								
UL - Lot J	Section 25	Township 23		ange 29E	Lot Idn		Feet From 2375		N/S Line S	Feet F	rom 1994	E/W Line		County	Eddy
					8. Prop	osed	Bottom Hole Loc	ation	1						
UL - Lot B	Section 24	Township 23		ange 29E	Lot Idn	В	Feet From 280		N/S Line N	Feet F	From 2310	E/W Line		County	Eddy
						9. Po	ol Information					1			
PURPLE SA	GE;WOLFCAMP (G	AS)										98220	)		
							I Well Information				_				
11. Work Type Nev	w Well	12. Well Ty	pe BAS		13. Cable/Rotary 14. Lease Type State			15. Ground Level Elevation 3059							
16. Multiple N		17. Propose	ed Depth 9056		18. Formation 19. Contractor 20. Wolfcamp			20. Spud Date 1/3	0. Spud Date 1/3/2025						
Depth to Groun	nd water				Distance from nearest fresh water well Dista				Distance to ne	stance to nearest surface water					
X We will be	using a closed-loo	p system in lie	eu of lined	l pits							•				
					21. Propose	ed Cas	sing and Cemen	Prog	gram						
Туре	Hole Size	Casing			Casing Weight/f	t		Setting Depth		Sacks of Cement			Е	stimated :	ГОС
Surf	17.5	13.3			54.5			298		300				0	
Int1	12.25	9.6			40			300			1480			0	
Int2	8.75	7.6			29.7			368		430			5739		
Int2	8.75	7.6			29.7			400		430			2800		
Prod	6.75	5.			20			056			600		10592		
Prod	6.75	5.	5		20		10	268			20			9868	

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program							
Туре	Working Pressure	Test Pressure	Manufacturer				
Lludril	4952	4050					

knowledge and l	have complied with 19.15.14.9 (A) N	true and complete to the best of my		OIL CONSERVATIO	ON DIVISION	
Printed Name: Electronically filed by Tiffany Yancey			Approved By:	Ward Rikala		
Title:	le: Production Analyst		Title:	Petroleum Specialist Supervisor		
Email Address: tiffany.yancey@exxonmobil.com			Approved Date:	11/7/2024	Expiration Date: 11/7/2026	
Date: 10/25/2024 Phone: 432-215-8939			Conditions of Appr	roval Attached		

<u>C-10</u>											
	<u>)2</u>				State of N	ew Mexico					Revised July 9, 202
			Ene	<b>-</b>	Ainerals & Natu		*	nent			
	lectronically Permitting			O	IL CONSERVA	ATION DIVIS	ION		Submitt	tal	Initial Submittal
								Type:		Amended Report	
										As Drilled	
					WELL LOCATION	INFORMATION					
API Nu	umber	_	Pool Code		Pool Nam						
	015 <b>-5568</b>		98220		PURP	LE SAGE, WOLFC	MP (GAS)			XX7 11 X	
_	ty Code 6438		Property Name	REM	UDA NORTH 25 ST C	MO				163F	lumber d
ORGIE 3730	O No.		Operator Name	хто	PERMIAN OPERATIN	IG, LLC				Ground 3,05	d Level Elevation 9'
Surface	e Owner: 🔀	State  Fe	e 🗌 Tribal 📗	Federal		Mineral Owner:	State  F	Fee 🗌 Trib	al 🗌 Fede	eral	
					Surface	Location					
UL	Section	Township	"	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude		County
J	25	23 S	29 E		2,375' FSL	1,994' FEL	32.275	104	-103.936	6035	EDDY
UL	Section	Township	Range	Lot	Bottom Ho	ole Location Ft. from E/W	Latitude	I	ongitude		County
В	24	23 S	29 E		280' FNL	2,310' FEL	32.2970		-103.937	7126	EDDY
D. E.	4- J. A	L.C.II D.	£'' W11	D.C.i.	- W-II ADI	01	II (X/AI)	C1:4	-+' C- 1-		
Dedica 480	ted Acres	Infill or De	fining Well		g Well API -015-44232	Overlapping Spacing N	Unit (Y/N)	Consolid	ation Code	)	
Order 1	Numbers.					Well setbacks are und	ler Common	Ownership:	X Yes	] No	
					Viole Off	Point (KOD)					
UL	Section	Township	Range	Lot	Ft. from N/S	Point (KOP)  Ft. from E/W	Latitude	I	ongitude		County
J	25	23 S	29 E		2,285' FSL	2,308' FEL	32.2748		-103.937	7052	EDDY
	G	T1:	Davis	T -4		Point (FTP) Ft. from E/W	T . (1)	Υ.			Communication
UL G	Section 25	Township 23 S	Range 29 E	Lot	Ft. from N/S 2,310' FNL	2,310' FEL	Latitude 32.2768		ongitude -103.937	7058	County
					Last Take	Point (LTP)					
UL B	Section 24	Township		Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude -103.937	7125	County EDDY
_	24	23 S	29 E		330' FNL	2,310' FEL	32.2968		100.001	120	
	24	23 S	29 E		330 FNL	2,310' FEL	32.2968		100,007	1120	
	ed Area or Are			Spacin	g Unit Type 🔀 Horizor			ound Floor			,
				Spacin				round Floor			,
Unitize	ed Area or Are	ea of Uniforn	n Interest	Spacin		tal	Gr		Elevation:		,
Unitize		ea of Uniforn	n Interest	Spacin			Gr		Elevation:		,
Unitize  OPE	ed Area or Are  RATOR C  by certify that t	ea of Uniform  ERTIFICA  the information	ATIONS on contained her	ein is truc	g Unit Type   Horizon  Horizon  e and complete to the	SURVEYOR C	Gr CERTIFIC  at the well loo	CATIONS	Elevation:	3,059	s plotted from field
OPE.  I hereb best of interest	RATOR C  oy certify that is my knowledge to runleased it	ea of Uniform  ERTIFIC,  the informatic e and belief, of the mineral inter-	ATIONS  on contained her and that this orgest in the land in	rein is true anization cluding th	g Unit Type   Horizor  Horizor  e and complete to the  either owns a working  the proposed bottom hole	SURVEYOR C  I hereby certify the notes of actual sur is true and correct	Gr CERTIFIC at the well loveys made by to the best of	CATIONS cation show y me or und f my belief.	Elevation:	3,059	
OPE.  I hereb best of interest location	RATOR C  my certify that i my knowledge t or unleased i n or has a rigi	ERTIFIC.  the informatice and belief, mineral inter-	ATIONS  on contained her and that this orgest in the land in	rein is true anization cluding th	g Unit Type   Horizor  e and complete to the  either owns a working  the proposed bottom hole  uant to a contract with	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  I, TIM C. PAPPAS, NEW 21209, DO HEREBY ON THE	Gr  CERTIFIC  at the well low veys made by to the best of MEXICO PROFI RIPLY THAT THE E GROUND LES	CATIONS  cation show y me or und f my belief. ESSIONAL SUF S SURVEY PT	Elevation:  on on this per my superveyor NO. AT AND THE	3,059	s plotted from field
Unitize  OPE  I hereb best of interess location an own	ed Area or Area  RATOR C  by certify that to my knowledge to or unleased to or un	ERTIFIC.  the informative and belief, a mineral interfact to drill this inneral or wo	ATIONS  on contained her and that this org est in the land in swell at this locarking interest, on	rein is true anization cluding th ation purs r to a volu	g Unit Type   Horizor  e and complete to the  either owns a working  the proposed bottom hole  uant to a contract with	SURVEYOR O  I hereby certify the notes of actual sur is true and correct  , TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON THE WERE PERFORMED BY THAT I AM RESPONSIBL MEETS THE MINIMUM S'	Gratthe well low veys made by to the best of MEXICO PROFIRITY THAT THE GROUND UPEN ME OR UNDER E FOR THIS SIGNINDARDS FOR	CATIONS  cation show y me or und f my belief. ESSIONAL SUF S SURVEY PL ON WHICH IT MY DIRECT S JRYEY, THAT SURVEYING II	Elevation:  on on this per my supervision; AT AND THE IS BASED UPERVISION; THIS SURVEYN NEW	3,059  olat was ervision	s plotted from field
OPE  I hereb best of interest location an own agreem  If this v	ed Area or Area  RATOR C  The sy certify that is the converse of the converse	ERTIFICATION TO THE PROPERTY OF THE PROPERTY O	ATIONS  On contained here and that this org est in the land in s well at this loca rking interest, or ng order heretofi	rein is true anization cluding th ation purs to a volu- ore entere at this org	g Unit Type   Horizor  e and complete to the either owns a working the proposed bottom hole uant to a contract with untary pooling	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  I, TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON THE WERE PERFORMED BY THAT I AM RESPONSIBL	Gratthe well loweys made by to the best of MEXICO PROFIT THAT THIS E GROUND UP ME OR UNDER E FOR THIS STANDARDS FOR TRUE AND COR	CATIONS  cation show y me or und f my belief. ESSIONAL SUF S SURVEY PL ON WHICH IT MY DIRECT S JRYEY, THAT SURVEYING II	Elevation:  on on this per my supervision; AT AND THE IS BASED UPERVISION; THIS SURVEYN NEW	3,059  olat was ervision	s plotted from field
Unitize  OPE  I hereb best of interest location agreem  If this v the con interest	RATOR C  The property that the	ea of Uniform  ERTIFICA  the information  e and belief, of the mineral inter- th to drill this inneral or wo on the control of the control well, I fet one lessee of (in the targe)	ATIONS  on contained her and that this orgest in the land in swell at this locarking interest, ong order heretofurther certify the or owner of a wot tool or formati	rein is true anization cluding th tition purs to a volu- ore entere at this org orking inte- tion) in wh	g Unit Type  Horizon  e and complete to the either owns a working the proposed bottom hole unant to a contract with untary pooling the by the division.  anization has received	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  , TIM C. PAPPAS, NEW 21209, DO HERBEY CE ACTUAL SURVEY ON TH WERE PERFORMED BY ITHAT I AM RESPONSIBL MEETS THE MINIMUM S' MEXICO, AND THAT IS 1	Gratt the well low veys made by to the best of MEXICO PROFIRITY THAT THE GROUND FOR E GROUND KEY OF THE FOR THIS FOR THIS FOR THE AND CORELIEF.	CATIONS  cation show y me or und f my belief. ESSIONAL SUF S SURVEY PI MY DIRECT S  TRYEY, THAT SURVEYING II RECT TO THE	Elevation:  on on this per my super everyor no.  AT AND THE IS BASED UPPERVISION; THIS SURVEYN NEW BEST OF	3,059	C. PAPA MEXICO
Unitize  OPE  I hereb best of interest location agreem  If this v the con interest	ed Area or Area  RATOR C  The property that is the property that is the property that is a compact of the property that is a horized in each tract the property that is a continuous to the property that is a continuous to the property that is a continuous that is a continuous that the property that is a continuous that is a	ea of Uniform  ERTIFICA  the information  e and belief, of the mineral inter- th to drill this inneral or wo on the control of the control well, I fet one lessee of (in the targe)	ATIONS  on contained her and that this orgest in the land in swell at this locarking interest, ong order heretofurther certify the or owner of a wot tool or formati	rein is true anization cluding th tition purs to a volu- ore entere at this org orking inte- tion) in wh	g Unit Type   Horizon  g unit Type   Horizon  g and complete to the  either owns a working  the proposed bottom hole  uant to a contract with  unitary pooling  the division.  transparent of the well's	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  I, TIM C. PAPPAS, NEW 21209, DO HEREBY ON THA MESPONSIBL MEETS THE MINIMUM SIMEXICO, AND THAT IS THAY I AM RESPONSIBL MEETS THE MINIMUM SIMEXICO, AND THAT IS THAY KNOWLEDGE AND BITTIN C. PAPPAS REGISTERED PROFESSION REGISTERED PROFESSION AND THAT IS TH	Gratt the well low veys made by to the best of MEXICO PROFIRITY THAT THIS GROUND UP ME OR UNDER E FOR THIS STANDARDS FOR IRUE AND CORELIEF.	CATIONS  cation show y me or und f my belief. ESSIONAL SUP SON WHICH IT MY DIRECT S SURVEY, THAT SURVEY, THAT SURVEYING II RECT TO THE	Elevation:  on on this per my super everyor no.  AT AND THE IS BASED UPPERVISION; THIS SURVEYN NEW BEST OF	3,059	C. PAPA MEXICO
Unitize  OPE  I hereb best of interest location an own agreem  If this v the con interest comple	ed Area or Area  RATOR C  The property that is the property that is the property that is a compact of the property that is a horized in each tract the property that is a continuous to the property that is a continuous to the property that is a continuous that is a continuous that the property that is a continuous that is a	ea of Uniform  ERTIFICA  the information  e and belief, of the mineral inter- th to drill this inneral or wo on the control of the control well, I fet one lessee of (in the targe)	ATIONS  on contained her and that this orgest in the land in swell at this locarking interest, ong order heretofurther certify the or owner of a wot tool or formati	rein is true anization cluding th tition purs to a volu- ore entere at this org orking inte- tion) in wh	g Unit Type   Horizon  g unit Type   Horizon  g and complete to the  either owns a working  the proposed bottom hole  uant to a contract with  unitary pooling  the division.  transparent of the well's	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  , TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON TH WERE PERFORMED BY ITHAT I AM RESPONSIBL MEETS THE MINIMUM SI MEXICO, AND THAT IS 1 MY KNOWLEDGE AND B	Gratt the well low veys made by to the best of MEXICO PROFIRITY THAT THIS GROUND UP ME OR UNDER E FOR THIS STANDARDS FOR IRUE AND CORELIEF.	CATIONS  cation show y me or und f my belief. ESSIONAL SUP SON WHICH IT MY DIRECT S SURVEY, THAT SURVEY, THAT SURVEYING II RECT TO THE	Elevation:  on on this per my super everyor no.  AT AND THE IS BASED UPPERVISION; THIS SURVEYN NEW BEST OF	3,059	To plotted from field and that the same  C. PAPA  MEXICO  21209
Unitize  OPE  I hereb best of interest location an own agreem  If this v the con interest comple	ed Area or Area  RATOR C  The py certify that to the second and th	ea of Uniform  ERTIFICA  the information  e and belief, of the mineral inter- th to drill this inneral or wo on the control of the control well, I fet one lessee of (in the targe)	ATIONS  on contained her and that this org est in the land in swell at this locurking interest, ong order heretofurther certify the or owner of a wo t pool or formatic or obtained a c	rein is true anization cluding th ation purs r to a volu- ore entere at this org rking inte ion) in wh ompulsor	g Unit Type   Horizon  g unit Type   Horizon  g and complete to the  either owns a working  the proposed bottom hole  uant to a contract with  unitary pooling  the division.  transparation has received  trest or unleased mineral  ich any part of the well's  y pooling form the	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  I, TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON THE WERE PERFORMED BY ITHAT I AM RESPONSIBL MEETS THE MINIMUM SI MEXICO, AND THAT IS 1 MY KNOWLEDGE AND BITTIM C. PAPPAS REGISTERED PROFESSIC STATE OF NEW MEXICO	Gratthe well loweys made by to the best of MEXICO PROFIT THAT THE GROUND FOR UNDER FOR THIS STANDARDS FOR TRUE AND CORELIEF.	CATIONS  cation show y me or und f my belief. ESSIONAL SUF SS SURVEY PL ON WHICH IT MY DIRECT IS SURVEYING II RECT TO THE  OCT 2  MEYOR	Elevation:  on on this per my super everyor no.  AT AND THE IS BASED UPPERVISION; THIS SURVEYN NEW BEST OF	3,059	c plotted from field, and that the same  C. PAPA  MEXICO  21209
Unitize  OPE  I hereb best of interess location an own agreem If this v the con interess comple division	ed Area or Area  RATOR C  The py certify that to the second and th	ERTIFICA  the informative and belief, a mineral inter- th to drill this nineral or wo nulsory poolin ontal well, I f to one lessee a (in the targe ill be located	ATIONS  on contained here and that this org est in the land in well at this locurking interest, on ng order heretoficurther certify the or owner of a we t pool or formati or obtained a c	rein is true anization cluding th ation purs r to a volu- ore entere at this org rking inte ion) in wh ompulsor	g Unit Type   Horizon  g unit Type   Horizon  g and complete to the  either owns a working  the proposed bottom hole  uant to a contract with  unitary pooling  the division.  transparent of the well's	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  I, TIM C. PAPPAS, NEW 21209, DO HEREBY ON THA MESPONSIBL MEETS THE MINIMUM SIMEXICO, AND THAT IS THAY I AM RESPONSIBL MEETS THE MINIMUM SIMEXICO, AND THAT IS THAY KNOWLEDGE AND BITTIN C. PAPPAS REGISTERED PROFESSION REGISTERED PROFESSION AND THAT IS TH	Gratthe well loweys made by to the best of MEXICO PROFIT THAT THE GROUND FOR UNDER FOR THIS STANDARDS FOR TRUE AND CORELIEF.	CATIONS  cation show y me or und f my belief. ESSIONAL SUF SS SURVEY PL ON WHICH IT MY DIRECT IS SURVEYING II RECT TO THE  OCT 2  MEYOR	Elevation:  on on this per my super everyor no.  AT AND THE IS BASED UPPERVISION; THIS SURVEYN NEW BEST OF	3,059	To plotted from field and that the same  C. PAPA  MEXICO  21209
Unitize  OPE  I hereb best of interess location an own agreem If this v the con interess comple division	RATOR C  The control of the control	ea of Uniform  ERTIFICA  the informative and belief, of the internal intership to drill this nineral or wo oulsory poolin ontal well, I fet one lessee of (in the targe ill be located)	ATIONS  On contained here and that this orgest in the land in the	rein is true anization cluding th ation purs r to a volu- ore entere at this org rking inte ion) in wh ompulsor	g Unit Type   Horizon  g unit Type   Horizon  g and complete to the  either owns a working  the proposed bottom hole  uant to a contract with  unitary pooling  the division.  transparation has received  trest or unleased mineral  ich any part of the well's  y pooling form the	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  I, TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON THE WERE PERFORMED BY ITHAT I AM RESPONSIBL MEETS THE MINIMUM SI MEXICO, AND THAT IS 1 MY KNOWLEDGE AND BITTIM C. PAPPAS REGISTERED PROFESSIC STATE OF NEW MEXICO	Gratt the well low veys made by to the best of MEXICO PROFIT THAT THE GROUND THE GROUND FOR RUE AND CORELIEF.  22  NAL LAND SUR NO. 21209  of Professions	CATIONS  cation show y me or und f my belief. ESSIONAL SUF SS SURVEY PL ON WHICH IT MY DIRECT IS SURVEYING II RECT TO THE  OCT 2  MEYOR	Elevation:  on on this per my super er my super everyor no. At and the is Based upervision; is Based upervision; in Based upervision; is Based upervision; on this per everyor no.	3,059	To plotted from field and that the same  C. PAPA  MEXICO  21209
Unitize  OPE  I hereb best of interess location an own agreem  If this v the con interess comple division	RATOR C  The control of the control	ERTIFICA  the informative and belief, a mineral inter- th to drill this nineral or wo nulsory poolin ontal well, I f to one lessee a (in the targe ill be located	ATIONS  On contained here and that this orgest in the land in the	rein is true anization cluding th ation purs r to a volu- ore entere at this org rking inte ion) in wh ompulsor	g Unit Type   Horizon  g unit Type   Horizon  g and complete to the  either owns a working  the proposed bottom hole  uant to a contract with  unitary pooling  the division.  transparation has received  trest or unleased mineral  ich any part of the well's  y pooling form the	SURVEYOR (  I hereby certify the notes of actual sur is true and correct  I, TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON THE WERE PERFORMED BY THAT I AM RESPONSIBL MEETS THE MINIMUM SY MEXICO, AND THAT IS T	Gratt the well low veys made by to the best of MEXICO PROFITIENT THAT THIS STANDARDS FOR TRUE AND CORTELIEF.  22  NAL LAND SUR NO. 21209  of Profession:	CATIONS  cation show y me or und f my belief. ESSIONAL SUF S SURVEY PIT MY DIRECT IS SURVEYING II RECT TO THE  OCT 2  EVEYOR  All Surveyor	Elevation:  on on this per my super er my super everyor NO. AT AND THE IS BASED UPERVISION; IN ISW BEST OF  O24	3,059	To plotted from field and that the same  C. PAPA  MEXICO  21209
Unitize  OPE  I hereby best of interess location an own agreem  If this v the com interess comple division  Signature  Printed	RATOR C  The py certify that is the py knowledge to or unleased in or has a rigil are of such a in the py t	ea of Uniform  ERTIFIC.  the informative and belief, of mineral intersection to drill this nineral or wo nulsory poolin ontal well, If the tone lessee of (in the targe ill be located to the contained of the located o	ATIONS  on contained her and that this org est in the land in the well at this locurking interest, ong order heretofi further certify the topool or formation or obtained a contained a co	rein is true anization cluding th attion purs r to a volu- fore entere at this org rking inte ion) in wh ompulsor	g Unit Type   Horizon  g unit Type   Horizon  g and complete to the  either owns a working  the proposed bottom hole  uant to a contract with  unitary pooling  the division.  transparation has received  trest or unleased mineral  ich any part of the well's  y pooling form the	SURVEYOR C  I hereby certify the notes of actual sur is true and correct  I, TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON THE WERE PERFORMED BY THAT I AM RESPONSIBL MEETS THE MINIMUM S' MEXICO, AND THAT IS 1 MY KNOWLEDGE AND BITTIM C. PAPPAS REGISTERED PROFESSIC STATE OF NEW MEXICO  Signature and Seal of Certificate Number	Gratt the well low veys made by to the best of MEXICO PROFITIENT THAT THIS STANDARDS FOR TRUE AND CORTELIEF.  22  NAL LAND SUR NO. 21209  of Profession:	CATIONS  cation show y me or und f my belief.  ESSIONAL SUF S SURVEY PI MY DIRECT IS SURVEYING II RECT TO THE  OCT 2  EXECUTE OF THE  OCT 3  EXECUTE OF THE  OCT 3  EXECUTE OF THE  OCT 4  EXECUTE OF THE  OCT 5  EXECUTE OF THE  OCT	Elevation:  on on this per my super er my super everyor NO. AT AND THE IS BASED UPERVISION; IN ISW BEST OF  O24	3,059	To plotted from field and that the same  C. PAPA  MEXICO  21209
Unitize  OPE  I hereby best of interest location an own agreem  If this v the con interest comple division  Signature	RATOR C  The sy certify that is the sy knowledge of the or unleased in or has a right of the sy the sy that is a horizal sent of at least in each tractive different of the sy that is a horizal with the system of	ea of Uniform  ERTIFICA  the informative and belief, a mineral intersection to drill this nineral or wo oulsory poolis outlas well, I fet one lessee of (in the targe ill be located and the control of the targe and the control of the c	ATIONS  on contained her and that this orgest in the land in swell at this locarking interest, ong order heretoffurther certify the or owner of a word to pool or formate or obtained a contained a co	rein is true anization cluding th attion purs r to a volu ore entere at this org rking inte on) in wh ompulsor	g Unit Type   Horizon  g unit Type   Horizon  g and complete to the  either owns a working  ne proposed bottom hole  uant to a contract with  untary pooling  id by the division.  conization has received  arrest or unleased mineral  ich any part of the well's  y pooling form the	SURVEYOR C  I hereby certify the notes of actual sur is true and correct I, TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON THE WERE PERFORMED BY THAT I AM RESPONSIBL MEETS THE MINIMUM S' MEXICO, AND THAT IS I MY KNOWLEDGE AND BI TIM C. PAPPAS REGISTERED PROFESSIC STATE OF NEW MEXICO  Signature and Seal C  Certificate Number  TIM C. PAPPAS	Gratt the well low veys made by to the best of MEXICO PROFIT THAT THIS GROUND UP ME OR UNDER E FOR THIS FOR RUE AND CORELIEF.  22  NAL LAND SUR NO. 21209  of Professions	CATIONS  cation show y me or und f my belief. ESSIONAL SUR ESSIONAL SUR SURVEY PL ON WHICH IT MY DIRECT SURVEY PL ON WHICH IT MY DIRECT SURVEYING II RECT TO THE  OCT 2  WEYOR  Date of Sur  10/22.	Elevation:  on on this per my superveyor No. At AND THE IS BASED UPERVISION; IT IS BASED UPERVISION; NEW BEST OF O24  O24	3,059	Splotted from field and that the same  C. PAPA  WEXICO  21209



2821 West 7th Street., Ste 200 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPL5 Firm 10193887
www.fscinc.net
© COPYRIGHT 2024 - ALL RIGHTS RESERVED

DATE: DRAWN BY: CHECKED BY: FIELD CREW:

10-22-2024 LM CH IR PROJECT NO: SCALE: SHEET: 2024090426

REVISION:

1 OF 2

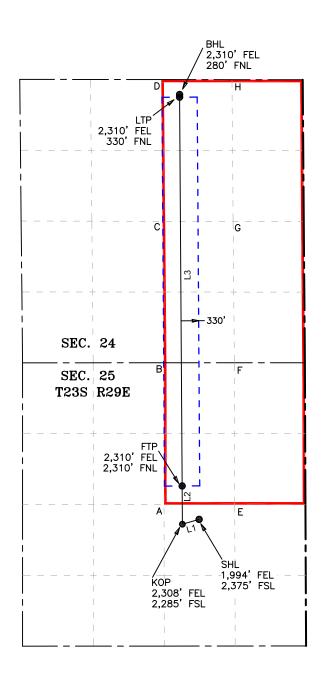
### ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or a larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LINE TABLE								
LINE	AZIMUTH	LENGTH						
L1	254° 01'06"	326.52'						
L2	359' 38'05"	716.21'						
L3	359' 37'34"	7,339.58'						



	COORDINATE TABLE							
SH	L (NAD 83 NN	1E)	LTP (NAD 83 NME)					
Y = 464,042.9		N	Y =	471,958.7	N			
X =	664,126.4	Е	X =	663,760.4	Е			
LAT. =	32.275104	°N	LAT. =	32.296866	°N			
LONG. =	103.936035	°W	LONG. =	103.937125	°W			
KO	P (NAD 83 NN	ΛE)	ВІ	HL (NAD 83 NM	E)			
Y =	463,953.0	N	Y =	472,008.7	N			
X =	663,812.5	Е	X =	663,760.0	Е			
LAT. =	32.274860	°N	LAT. =	32.297004	°N			
LONG. =	103.937052	°W	LONG. =	103.937126	°W			
FT	P (NAD 83 NN	IE)						
Y =	464,669.2	Ν						
X =	663,807.9	Е						
LAT. =	32.276828	°N						
LONG. =	103.937058	°W						
	IL (NAD 27 NN	1E)	LTP (NAD 27 NME)					
Y =	463,983.0	Ν	Y =	471,898.6	N			
X =	622,943.6	Е	X =	622,577.8	E			
LAT. =	32.274980	°N	LAT. =	32.296743	°N			
LONG. =	103.935544	°W	LONG. =	103.936633	°W			
	P (NAD 27 NI	ΛE)	BHL (NAD 27 NME)					
Y =	463,893.1	N	Y =	471,948.6	N			
X =	622,629.7	E	X =	622,577.5	E			
LAT. =	32.274736	°N	LAT. =	32.296880	°N			
LONG. =	103.936561	°W	LONG. =	103.936633	°W			
	P (NAD 27 NN	IE)						
Y =	464,609.3	N						
X =	622,625.1	E						
LAT. =	32.276704	°N						
LONG. =	103.936567	°W						

CC	CORNER COORDINATES (NAD83 NME)							
A - Y =	464,319.1	Ν	A - X =	663,469.2	Е			
B - Y =	466,979.3	Ν	B - X =	663,464.2	Е			
C - Y =	469,631.9	Ν	C - X =	663,440.1	Е			
D - Y =	472,289.1	Ν	D - X =	663,415.9	Е			
E-Y=	464,318.4	N	E - X =	664,794.2	Е			
F - Y =	466,979.1	Ν	F - X =	664,786.8	Е			
G-Y=	469,629.7	Ν	G-X=	664,763.7	Е			
H-Y=	472,287.4	Ν	H-X=	664,742.0	Е			
CC	RNER COO	RDII	NATES (I	NAD27 NME)				
A - Y =	464,259.2	Ν	A - X =	622,286.4	Е			
B - Y =	466,919.3	Ν	B - X =	622,281.5	Е			
C - Y =	469,571.9	N	C - X =	622,257.5	Е			
D - Y =	472,229.0	Ν	D - X =	622,233.4	Е			
E-Y=	464,258.5	N	E - X =	623,611.4	Е			
F-Y=	466,919.1	Ν	F - X =	623,604.1	Е			
G-Y=	469,569.7	Ν	G-X=	623,581.1	Е			
H-Y=	472,227.3	Ν	H-X=	623,559.5	Е			



2821 West 7th Street, Suite 200
Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPL5 Firm 10193887
www.fscinc.net

DATE: 10-22-2024 PROJECT NO: 2024090426 1" = 2,500' DRAWN BY: SCALE: CHECKED BY: СН SHEET. FIELD CREW: REVISION: IR

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

Form APD Comments

Permit 375767

### PERMIT COMMENTS

Operator Name and Address:	API Number:
XTO PERMIAN OPERATING LLC. [373075]	30-015-55687
6401 HOLIDAY HILL ROAD	Well:
MIDLAND, TX 79707	REMUDA NORTH 25 ST COM #163H

Created By	Comment	Comment Date
vrajan	XTO requests a variance to allow use of a Flexhose, to be able to batch drill, Wild Well Control Plan and a Spudder Rig.	10/25/2024

Form APD Conditions

Permit 375767

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
XTO PERMIAN OPERATING LLC. [373075]	30-015-55687
6401 HOLIDAY HILL ROAD	Well:
MIDLAND, TX 79707	REMUDA NORTH 25 ST COM #163H

OCD Reviewer	Condition
ward.rikala	Notify the OCD 24 hours prior to casing & cement.
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.
ward.rikala	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
ward.rikala	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.

### State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

### NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

# Section 1 – Plan Description Effective May 25, 2021

I. Operator: XTO Permian Operating, LLC	<b>OGRID:</b> 373075	<b>Date:</b> 09/24/2024
II. Type: ⊠ Original □ Amendment due to □	☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.1	5.27.9.D(6)(b) NMAC □ Other.
If Other, please describe:		

**III.** Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticip ated Oil BBL/D	3 yr Anticipat ed decline Oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated decline Water BBL/D
Remuda North 25 ST 161H	TBD	25 T23S R29E	2375 FSL, 585 FWL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 501H	TBD	25 T23S R29E	2375 FSL, 615 FWL	900	100	1,250	300	2,250	250
Remuda North 25 ST 162H	TBD	25 T23S R29E	2374 FSL, 645 FWL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 163H	TBD	25 T23S R29E	2375 FSL, 1994 FEL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 502H	TBD	25 T23S R29E	2374 FSL, 1964 FEL	900	100	1,250	300	2,250	250

IV. Central Delivery Point Name:	Raider Compressor Station	[See 19.15.27.9(D)(1) NMAC

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or

proposed to be recompleted from a single well pad or connected to a central delivery point

roposed to be recompleted from a single wen pad of confidence to a central derivery point.									
Well Name	API Spud		TD Reached Completion		Initial Flow	First Production			
			Date	Commencement Date	Back Date	Date			
Remuda North 25		TBD	TBD	TBD	TBD	TBD			
ST 161H	TBD								

Remuda North 25		TBD	TBD	TBD	TBD	TBD
ST 501H	TBD					
Remuda North 25		TBD	TBD	TBD	TBD	TBD
ST 162H	TBD					
Remuda North 25		TBD	TBD	TBD	TBD	TBD
ST 163H	TBD					
Remuda North 25		TBD	TBD	TBD	TBD	TBD
ST 502H	TBD					

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** 

Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** 

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

### Section 2 – Enhanced Plan EFFECTIVE APRIL 1,2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

### IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

### X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI.** Map.  $\square$  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  $\square$  will  $\square$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator  $\square$  does  $\square$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV.** Confidentiality: 
Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Page 2 of 5

### Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline ga thering system; or

□ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following:

**Well Shut-In.** □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  $\square$  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

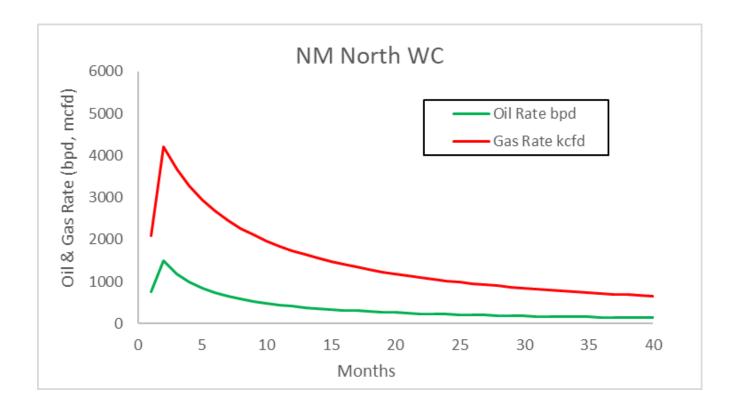
- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

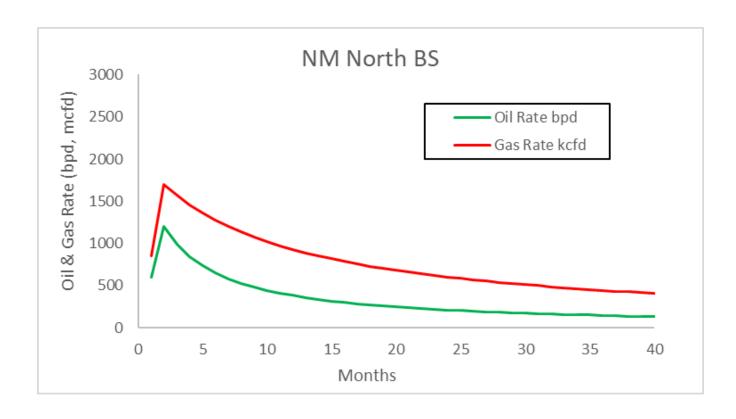
### **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: AAPA
Printed Name: Adrian Baker
Title: Regulatory Advisor
E-mail Address: adrian.baker@exxonmobil.com
Date: 10/10/24
Phone: 4322363808
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:





### VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

### VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically infeasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in lieu of venting, where technically feasible
  - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
  - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
  - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
  - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

• Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

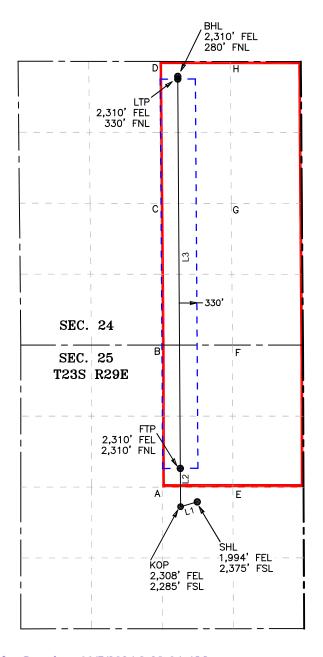
### VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

				,	WELL LO	CATION	INFORMATION					
API Num 30-015			Pool Code 98220			Pool Nam	le LE SAGE, WOLFC	MP (GAS	i)			
Property 6	Code		Property Name	REM	JDA NORTI	H 25 ST C	COM				Well N 163H	
ORGID N 37307			Operator Name	хтоі	PERMIAN C	PERATIN	IG, LLC				Ground 3,059	Level Elevation
Surface O	Owner: 🔀 S	State 🗌 F	ee Tribal	Federal			Mineral Owner:	State	Fee 🗌 Trib	al 🗌 Fed	leral	
						Surface	Location					
UL J	Section 25	Township 23 S	.   .	Lot	Ft. from N/ 2,37	/S 5' FSL	Ft. from E/W 1,994' FEL	Latitud 32.27		ongitude	6035	County EDDY
				1	В	ottom Ho	ole Location					
UL B	Section 24	Townshij 23 S	.   -	Lot	Ft. from N/ 280' I		Ft. from E/W 2,310' FEL	Latitud 32.29		ongitude -103.93	7126	County EDDY
Dedicated	d Acres	Infill or D	efining Well		g Well API -015-44232		Overlapping Spacing N	Unit (Y/N)	Consolid	ation Code	e	
Order Nu	mbers.						Well setbacks are und	er Commo	Ownership:	X Yes [	□ No	
					ŀ	Kick Off	Point (KOP)					
UL J	Section 25	Townshi	.   -	Lot	Ft. from N/ 2,28	/S 5' FSL	Ft. from E/W 2,308' FEL	Latitud 32.27		ongitude -103.93	7052	County EDDY
					F:	irst Take	Point (FTP)		ļ			
UL G	Section 25	Township 23 S	.	Lot	Ft. from N/ 2,310	/S )' FNL	Ft. from E/W 2,310' FEL	Latitud 32.27		ongitude -103.93	7058	County EDDY
					L	ast Take	Point (LTP)	_	-			
UL B	Section 24	Township 23 S		Lot	Ft. from N/ 330' I		Ft. from E/W 2,310' FEL	Latitud 32.29		ongitude -103.93	7125	County EDDY
Unitized A	Area or Are	a of Unifor	m Interest	Spacin	g Unit Type	⊠ Horizon	ıtal 🗌 Vertical	(	Ground Floor	Elevation:	3,059'	
OPER A	ATOR C	ERTIFIC	CATIONS				SURVEYOR (	CERTIFI	CATIONS			
I hereby of best of my interest or location of an owner agreemen  If this well the conservinterest in	certify that to y knowledge r unleased n or has a righ of such a m at or a comp ll is a horizo nt of at least n each tract	the informat and belief, nineral inte. at to drill the ineral or we ulsory pool. ontal well, I tone lessee (in the targe	ion contained her and that this org, rest in the land in is well at this loca orking interest, oing order heretofi further certify the or owner of a wo et pool or formatid or obtained a co	anization cluding thation pursuation pursuate of a voluore entere at this organization) in who	either owns a ne proposed be uant to a conte intary pooling d by the divisi ranization has rest or unleas ich any part o	working ottom hole ract with ion.  received mineral f the well's	I hereby certify the notes of actual sur is true and correct I, TIM C. PAPPAS, NEW 21209, DO HEREBY CE ACTUAL SURVEY ON TH WERE PERFORMED BY I THAT I AM RESPONSIBL MEETS THE MINIMUM SI MEXICO, AND THAT IS 1 MY KNOWLEDGE AND BI	at the well It verys made to the best MEXICO PRO RTIPY THAT TE GROUND UNDE FOR THIS TRUBE AND COELIEF.	ocation show by me or und of my belief. FESSIONAL SUF HIS SURVEY PL ON WHICH IT A MY DIRECT S SURVEY, THAT I RECT TO THE	en on this per my superveyor no. AT AND THE IS BASED SUPERVISION, THIS SURVEYOR NO.	ervision,	
Signature	drias	n Bai		Date 10	)/23/24		Signature and Seal of	of Professio	nal Surveyor			
Printed N		drian B	Baker				Certificate Number	21200	Date of Su	•		
Email Ad	ldress	adrian	.baker@ex	xxonn	nobil.cor	n	TIM C. PAPPAS	21209	10/22	/2024		

# LEGEND SECTION LINE PROPOSED WELLBORE DEDICATED ACREAGE

<u>LINE TABLE</u>							
LINE	AZIMUTH	LENGTH					
L1	254° 01'06"	326.52'					
L2	359' 38'05''	716.21'					
L3	359 37'34"	7,339.58'					



	COORDINATE TABLE							
SH	IL (NAD 83 NN	1E)	L1	TP (NAD 83 NM	E)			
Y =	464,042.9	N	Y =	471,958.7	N			
X =	664,126.4	Е	X =	663,760.4	Е			
LAT. =	32.275104	°N	LAT. =	32.296866	°N			
LONG. =	103.936035	°W	LONG. =	103.937125	°W			
КО	P (NAD 83 NI	ΛE)	ВІ	HL (NAD 83 NM	E)			
Y =	463,953.0	Z	Y =	472,008.7	N			
X =	663,812.5	Ш	X =	663,760.0	Е			
LAT. =	32.274860	°N	LAT. =	32.297004	°N			
LONG. =	103.937052	°W	LONG. =	103.937126	°W			
FT	P (NAD 83 NN	IE)						
Y =	464,669.2	N						
X =	663,807.9	Е						
LAT. =	32.276828	°N						
LONG. =	103.937058	°W						
	L (NAD 27 NN	1E)	LTP (NAD 27 NME)					
Y =	463,983.0	N	Y =	471,898.6	N			
X =	622,943.6	Е	X =	622,577.8	Е			
LAT. =	32.274980	°N	LAT. =	32.296743	°N			
LONG. =	103.935544	°W	LONG. =	103.936633	°W			
	P (NAD 27 NI	ΛE)		HL (NAD 27 NM	E)			
Y =	463,893.1	N	Y =	471,948.6	N			
X =	622,629.7	Е	X =	622,577.5	Е			
LAT. =	32.274736	°N	LAT. =	32.296880	°N			
LONG. =	103.936561	°W	LONG. =	103.936633	°W			
FTP (NAD 27 NME)								
Y =	464,609.3	N						
X =	622,625.1	E						
LAT. =	32.276704	°N						
LONG. =	103.936567	°W						

CC	CORNER COORDINATES (NAD83 NME)								
A - Y =	464,319.1	Ν	A - X =	663,469.2	Е				
B-Y=	466,979.3	Z	B - X =	663,464.2	Е				
C - Y =	469,631.9	Z	C - X =	663,440.1	Е				
D-Y=	472,289.1	Z	D - X =	663,415.9	Е				
E-Y=	464,318.4	Z	E-X=	664,794.2	Е				
F-Y=	466,979.1	Z	F-X=	664,786.8	Е				
G-Y=	469,629.7	Z	G-X=	664,763.7	Е				
H-Y=	472,287.4	Z	H-X=	664,742.0	Е				
CC	RNER COO	RDII	NATES (I	NAD27 NME)					
A - Y =	464,259.2	Z	A - X =	622,286.4	Е				
B - Y =	466,919.3	Z	B - X =	622,281.5	Е				
C - Y =	469,571.9	Ν	C - X =	622,257.5	Е				
D - Y =	472,229.0	Ζ	D - X =	622,233.4	Е				
E-Y=	464,258.5	Ν	E-X=	623,611.4	Е				
F-Y=	466,919.1	Ν	F-X=	623,604.1	Е				
G-Y=	469,569.7	Z	G-X=	623,581.1	Е				
H-Y=	472,227.3	Ν	H-X=	623,559.5	Е				

DRILLING PLAN: BLM COMPLIANCE (Supplement to BLM 3160-3)

XTO Energy Inc.

Remuda North 25 ST - 163H Projected TD: 19056' MD / 11284' TVD SHL: 2375' FSL & 1994' FEL , Section 25, T23S, R29E BHL: 280' FNL & 2310' FEL , Section 24, T23S, R29E EDDY County, NM

### 1. Geologic Name of Surface Formation

A. Quaternary

### 2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	203'	Water
Top of Salt	323'	Water
MB 126	1541'	Water
Base of Salt	3075'	Water
Delaware	3301'	Water/Oil/Gas
Brushy Canyon	5739'	Water
Bone Spring	7001'	Water/Oil/Gas
1st Bone Spring Ss	7997'	Water/Oil/Gas
2nd Bone Spring Ss	8508'	Water/Oil/Gas
Wolfcamp X	10342'	Water/Oil/Gas
Wolfcamp Y	10419'	Water/Oil/Gas
Wolfcamp A	10449'	Water/Oil/Gas
Wolfcamp B	10757'	Water/Oil/Gas
Wolfcamp D	11009'	Water/Oil/Gas
Target/Land Curve	11284'	Water/Oil/Gas

<sup>\*\*\*</sup> Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 298' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3300' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 10368' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 19056 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9868 feet) per Potash regulations.

### 3. Casing Design

Hole Size	MD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 298'	13.375	54.5	J-55	втс	New	2.77	8.58	55.97
12.25	0' – 3300'	9.625	40	J-55	втс	New	1.27	2.74	4.77
8.75	0' – 3400'	7.625	29.7	RY P-110	Flush Joint	New	1.95	3.03	1.81
8.75	3400' – 10368'	7.625	29.7	HC L-80	Flush Joint	New	1.42	2.40	1.96
6.75	0' – 10268'	5.5	20	RY P-110	Semi-Premium / Freedom	New	1.05	1.66	2.24
6.75	10268' - 19056'	5.5	20	RY P-110	Semi-Flush / Talon	New	1.05	1.51	7.98

<sup>·</sup> XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing

XTO Permian Operating LLC will abide by R-111-Q and monitor separation Distance to offsets and maintain a Separation Factor greater than 1.0 while drilling through the salt intervals. For blind or inclination only wells, XTO Permian Operating LLC will maintain greater than 300 center-to-center separation.

<sup>\*\*\*</sup> Groundwater depth 40' (per NM State Engineers Office).

### Wellhead:

XTO Will use a 4 String Slim Hole Multi-Bowl system.

#### 4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 298'

Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside of the 1" to get cement to surface, if required.

#### 1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3300'

Lead: 1350 sxs Class C (mixed at 12.9 ppg, 1.39 ft3/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

### 2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10368'

#### 1st Stage

Tail: 430 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 5739

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

### 2nd Stage

Tail: 430 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: 2800

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5739') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to ~500' inside 1st intermediate csg string. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

### Production Casing: 5.5, 20 New Semi-Flush / Talon, RY P-110 casing to be set at +/- 19056'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9868 feet Tail: 600 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10592 feet

Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

### 5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Triple Ram BOP. MASP should not exceed 4852 psi.

All BOP testing will be done by an independent service company. Operator will test as per BLM CFR43-3172

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

### 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW	Viscosit y	Fluid Loss	Comments
INTERVAL	noie Size	Muu Type	(ppg)	(sec/qt)	(cc)	Comments
0' - 298'	17.5	FW/Native	8.5-9	35-40	NC	Fresh water or native water
298' - 3300'	12.25	Brine	10-10.5	30-32	NC	Fully Saturated salt across salado
3300' to 10368'	8.75	BDE/OBM or FW/Brine	10-10.5	30-32	NC	N/A
10368' to 19056'	6.75	ОВМ	12.5-13	50-60	NC - 20	N/A

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under surface casing with saturated salt brine solution. A saturated salt brine will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

### 7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13.375 casing.

### 8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

### 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 175 to 195 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 7335 psi.

### 10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.



### 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ <sup>®</sup>	
Minimum Yield Strength	110,000	_	psi
Maximum Yield Strength	125,000	-	psi
Minimum Tensile Strength	125,000	_	psi
DIMENSIONS	Pipe	USS-FREEDOM HTQ®	
Outside Diameter	5.500	6.300	in.
Wall Thickness	0.361		in.
Inside Diameter	4.778	4.778	in.
Standard Drift	4.653	4.653	in.
Alternate Drift			in.
Nominal Linear Weight, T&C	20.00		lb/ft
Plain End Weight	19.83		lb/ft
SECTION AREA	Pipe	USS-FREEDOM HTQ <sup>®</sup>	
Critical Area	5.828	5.828	sq. in.
Joint Efficiency	_	100.0	%
PERFORMANCE	Pipe	USS-FREEDOM HTQ®	
Minimum Collapse Pressure	11,100	11,100	psi
Minimum Internal Yield Pressure	12,640	12,640	psi
Minimum Pipe Body Yield Strength	641,000		lb
Joint Strength		641,000	lb
Compression Rating		641,000	lb
Reference Length [4]		21,370	ft
Maximum Uniaxial Bend Rating [2]		91.7	deg/100 ft
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ <sup>®</sup>	
Make-Up Loss		4.13	in.
Minimum Make-Up Torque [3]		15,000	ft-lb
Maximum Make-Up Torque [3]		21,000	ft-Ib
Maximum Operating Torque[3]		29,500	ft-lb

### **Notes**

- Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate
  any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

### **Legal Notice**

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com



### 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000	_	psi	_
Maximum Yield Strength	125,000	_	psi	_
Minimum Tensile Strength	125,000	_	psi	-
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		-
Outside Diameter	5.500	5.900	in.	_
Wall Thickness	0.361	<b></b>	in.	_
Inside Diameter	4.778	4.778	in.	_
Standard Drift	4.653	4.653	in.	_
Alternate Drift	_		in.	_
Nominal Linear Weight, T&C	20.00		lb/ft	_
Plain End Weight	19.83		lb/ft	_
SECTION AREA	Pipe	USS-TALON HTQ™ RD		-
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		-
Minimum Collapse Pressure	11,100	11,100	psi	
Minimum Internal Yield Pressure	12,640	12,640	psi	
Minimum Pipe Body Yield Strength	641,000		lb	
Joint Strength		641,000	lb	
Compression Rating		641,000	lb	
Reference Length		21,370	ft	[5]
Maximum Uniaxial Bend Rating		91.7	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		-
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		17,000	ft-lb	[4]
Maximum Make-Up Torque		20,000	ft-lb	[4]
Maximum Operating Torque		39,500	ft-lb	[4]

### **Notes**

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

### **Legal Notice**

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com



**GATES ENGINEERING & SERVICES NORTH AMERICA** 

7603 Prairie Oak Dr.

Houston, TX. 77086

PHONE: +1 (281) 602-4100

FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com

WEB: www.gates.com/oilandgas

NEW CHOKE HOSE

INSTAUED 02-10-2024

### CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CU	ST	O	M	E	R:	
				_		

NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA

CUSTOMER P.O.#:

15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)

CUSTOMER P/N:

IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION:

RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K

FLANGES

SALES ORDER #:

529480

QUANTITY:

-1

SERIAL #:

74621 H3-012524-1

SIGNATURE: 7. CUSTUSE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

### H3-15/16

1/25/2024 11:48:06 AM



### TEST REPORT

CUSTOMER

Company: Nabors Industries Inc. TEST OBJECT

Serial number: H3-012524-1

Lot number:

Production description: 74621/66-1531 Description:

74621/66-1531

Sales order #: Customer reference: 529480 FG1213

Hose ID:

3" 16C CK

Part number:

TEST INFORMATION

Test procedure:

GTS-04-053

Fitting 1:

Test pressure:

15000.00 3600.00

Part number:

3.0 x 4-1/16 10K

Test pressure hold: Work pressure:

Description:

10000.00

Fitting 2:

3.0 x 4-1/16 10K

Work pressure hold: Length difference:

Length difference:

900.00 0.00 0.00

sec % inch

psi

sec

psi

Part number: Description:

Visual check:

Pressure test result:

PASS

Length measurement result:

Length:

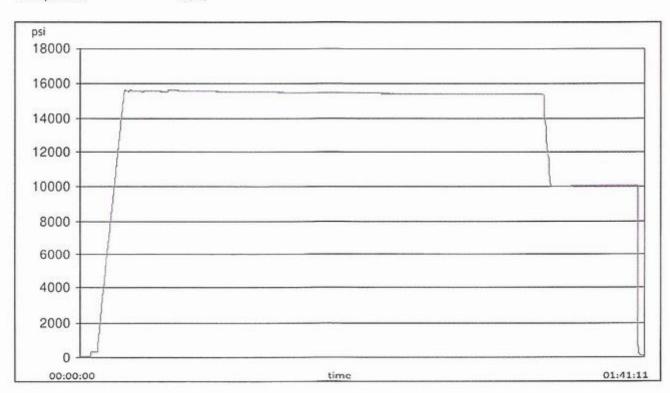
45

feet

n. . . . 1/2

Test operator:

Travis





H3-15/16

1/25/2024 11:48:06 AM

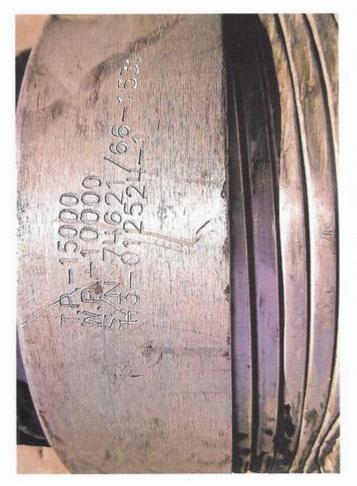
# **TEST REPORT**

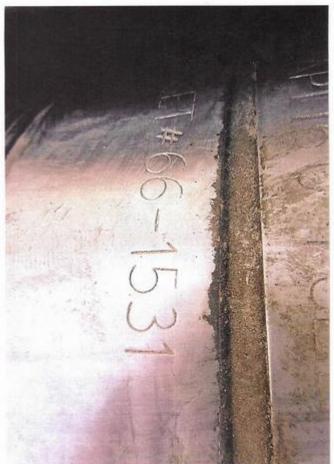
### **GAUGE TRACEABILITY**

Serial number	Calibration date	Calibration due date
110D3PHO	2023-06-06	2024-06-06
110IQWDG	2023-05-16	2024-05-16
	110D3PHO	110D3PHO 2023-06-06



Released to Imaging: 11/7/2024 9:28:04 AM









Released to Imaging: 11/7/2024 9:28:04 AM

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

### **Description of Operations:**

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
  - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
  - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
  - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
  - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
  - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

### XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

### 1. Cement Program

No changes to the cement program will take place for offline cementing.

### 2. Offline Cementing Procedure

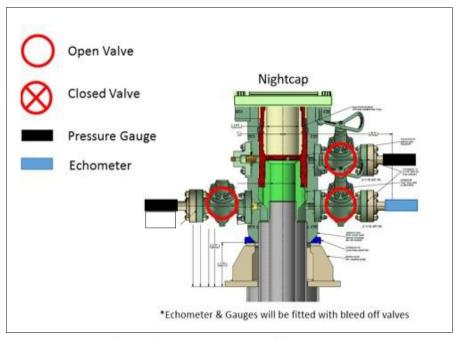
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
  - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

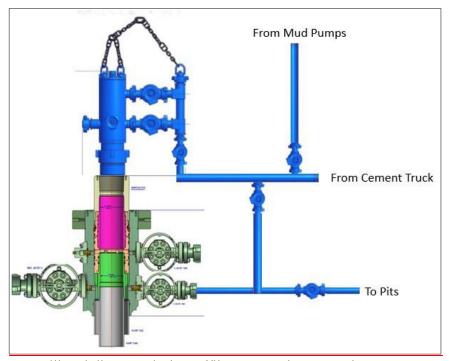
### XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
  - a. Well Control Plan
    - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
    - ii. Rig pumps or a 3<sup>rd</sup> party pump will be tied into the upper casing valve to pump down the casing ID
    - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
    - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
    - v. Well will be confirmed static
    - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment

### XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
  - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
  - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

### 10,000 PSI Annular BOP Variance Request

Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

### 1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

12-1/4" Intermediate Hole Section 10M psi Requirement							
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP		
Drillpipe	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M		
	4.500"			Lower 3.5"-5.5" VBR	10M		
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M		
	4.500"			Lower 3.5"-5.5" VBR	10M		
Jars	6.500"	Annular	5M	-	-		
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-		
Mud Motor	8.000"-9.625"	Annular	5M	-	-		
Intermediate Casing	9.625"	Annular	5M	-	-		
Open-Hole	-	Blind Rams	10M	-	-		

	8-3/4" Production Hole Section						
	10M psi Requirement						
Component	OD	<b>Primary Preventer</b>	RWP	Alternate Preventer(s)	RWP		
Drillpipe	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M		
	4.500"			Lower 3.5"-5.5" VBR	10M		
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M		
	4.500"			Lower 3.5"-5.5" VBR	10M		
Jars	6.500"	Annular	5M	-	-		
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-		
Mud Motor	6.750"-8.000"	Annular	5M	-	-		
Production Casing	7"	Annular	5M	1	-		
Open-Hole	-	Blind Rams	10M	-	-		

6-1/8" Lateral Hole Section 10M psi Requirement							
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP		
Drillpipe	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M		
				Lower 3.5"-5.5" VBR	10M		
HWDP	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M		
				Lower 3.5"-5.5" VBR	10M		
DCs and MWD tools	4.750"-5.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M		
				Lower 3.5"-5.5" VBR	10M		
Mud Motor	4.750"-5.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M		
				Lower 3.5"-5.5" VBR	10M		
Production Casing	4.500"	Annular	5M	Upper 3.5"-5.5" VBR	10M		
				Upper 3.5"-5.5" VBR	10M		
Open-Hole	-	Blind Rams	10M	-	-		

VBR = Variable Bore Ram

### 2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the Mewbourne Oil Company drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

### General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP & SICP
  - b. Pit gain
  - c. Time
- 8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

### **General Procedure While Tripping**

- 1. Sound alarm (alert crew)
- 2. Stab full-opening safety valve & close
- 3. Space out drill string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP & SICP
  - b. Pit gain
  - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

### **General Procedure While Running Production Casing**

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full-opening safety valve and close
- 3. Space out string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP & SICP
  - b. Pit gain
  - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

### General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams (HCR & choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
  - a. SICP
  - b. Pit gain
  - c. Time
- 6. Regroup and identify forward plan

### General Procedures While Pulling BHA Through Stack

- 1. PRIOR to pulling last joint of drillpipe through stack:
  - a. Perform flow check. If flowing, continue to (b).
  - b. Sound alarm (alert crew)
  - c. Stab full-opening safety valve and close
  - d. Space out drill string with tool joint just beneath the upper variable bore rams
  - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
  - f. Confirm shut-in
  - g. Notify toolpusher/company representative
  - h. Read and record the following:
    - i. SIDPP & SICP
    - ii. Pit gain
    - iii. Time
  - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
  - a. Sound alarm (alert crew)
  - b. Stab crossover and full-opening safety valve and close
  - c. Space out drill string with upset just beneath the upper variable bore rams
  - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
  - e. Confirm shut-in
  - f. Notify toolpusher/company representative
  - g. Read and record the following:
    - i. SIDPP & SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
  - a. Sound alarm (alert crew)
  - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
  - c. If impossible to pull string clear of the stack:
  - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
  - e. Space out drill string with tooljoint just beneath the upper variable bore ram
  - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
  - g. Confirm shut-in
  - h. Notify toolpusher/company representative
  - i. Read and record the following:
    - i. SIDPP & SICP
    - ii. Pit gain
    - iii. Time
  - j. Regroup and identify forward plan

# Long Lead\_Well Planning

Remuda North 25 ST 163H Remuda North 25 ST 163H

OH

Plan: Plan1

# **Standard Planning Report**

08 October, 2024

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

Minimum Curvature

Project Remuda

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Site Remuda North 25 ST 163H

 Site Position:
 Northing:
 463,983.00 usft
 Latitude:
 32° 16′ 29.926 N

 From:
 Map
 Easting:
 622,943.60 usft
 Longitude:
 103° 56′ 7.958 W

Position Uncertainty: 3.0 usft Slot Radius: 13-3/16 "

Well Remuda North 25 ST 163H

32° 16' 29.926 N **Well Position** +N/-S 0.0 usftNorthing: 463,983.00 usft Latitude: 0.0 usft 103° 56' 7.958 W +E/-W Easting: 622,943.60 usft Longitude: **Position Uncertainty** 0.0 usft Wellhead Elevation: usft Ground Level: 3,059.0 usft

Grid Convergence: 0.21 °

Wellbore OH

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 10/8/2024
 6.33
 59.78
 47,144.81216425

Design Plan1

Audit Notes:

Version:Phase:PLANTie On Depth:0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S +E/-W (usft)
 Direction (usft)

 0.0
 0.0
 0.0
 359.63

Plan Survey Tool Program Date 10/8/2024

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 19,056.2 Plan1 (OH) XOM\_R2OWSG MWD+IFR1+

OWSG MWD + IFR1 + Multi-St

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning
Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,553.4	9.07	254.02	3,551.5	-9.9	-34.4	2.00	2.00	0.00	254.02	
5,170.6	9.07	254.02	5,148.5	-80.0	-279.4	0.00	0.00	0.00	0.00	
5,624.0	0.00	0.00	5,600.0	-89.9	-313.9	2.00	-2.00	0.00	180.00	
10,591.8	0.00	0.00	10,567.8	-89.9	-313.9	0.00	0.00	0.00	0.00	
11,716.8	90.00	359.63	11,284.0	626.3	-318.5	8.00	0.00	0.00	359.63 FTF	⊃_163H
19,006.2	90.00	359.63	11,284.0	7,915.6	-365.8	0.00	0.00	0.00	0.00 LTF	P_163H
19,056.2	90.00	359.63	11,284.0	7,965.6	-366.1	0.00	0.00	0.00	0.00 BH	L_163H

Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

ıyıı.		1 Idill								
nne	d Survey									
	a Gui vey									
	Measured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	(usit)	(°)	(°)	(usit)	(usft)	(usft)	(usit)	( / loousit)	( / loousit)	( / loousit)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	Alluvium - Sl	_								
	203.0	0.00	0.00	203.0	0.0	0.0	0.0	0.00	0.00	0.00
	Rustler									
	323.0	0.00	0.00	323.0	0.0	0.0	0.0	0.00	0.00	0.00
	Salado/Top o									
	1,541.0	0.00	0.00	1,541.0	0.0	0.0	0.0	0.00	0.00	0.00
	MB 126									
	3,075.0	0.00	0.00	3,075.0	0.0	0.0	0.0	0.00	0.00	0.00
	Base Salt									
	3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	3,200.0	2.00	254.02	3,200.0	-0.5	-1.7	-0.5	2.00	2.00	0.00
	3,300.0	4.00	254.02	3,299.8	-1.9	-6.7	-1.9	2.00	2.00	0.00
	3,301.0	4.02	254.02	3,300.8	-1.9	-6.8	-1.9	2.00	2.00	0.00
	Delaware/Lai	mar								
	3,327.0	4.54	254.02	3,326.8	-2.5	-8.6	-2.4	2.00	2.00	0.00
	Bell Canyon									
	3,400.0	6.00	254.02	3,399.5	-4.3	-15.1	-4.2	2.00	2.00	0.00
	3,500.0	8.00	254.02	3,498.7	-7.7	-26.8	-7.5	2.00	2.00	0.00
	3,553.4	9.07	254.02	3,551.5	-9.9	-34.4	-9.6	2.00	2.00	0.00
	3,600.0	9.07	254.02	3,597.5	-11.9	-41.5	-11.6	0.00	0.00	0.00
	3,700.0	9.07	254.02	3,696.3	-16.2	-56.6	-15.9	0.00	0.00	0.00
	3,800.0	9.07	254.02	3,795.0	-20.6	-71.8	-20.1	0.00	0.00	0.00
	3,900.0	9.07	254.02	3,893.8	-24.9	-86.9	-24.3	0.00	0.00	0.00
	4,000.0	9.07	254.02	3,992.5	-29.2	-102.1	-28.6	0.00	0.00	0.00
	4,100.0	9.07	254.02	4,091.3	-33.6	-117.2	-32.8	0.00	0.00	0.00
	4,186.0	9.07	254.02	4,176.2	-37.3	-130.3	-36.5	0.00	0.00	0.00
	Cherry Cany	on								
	4,200.0	9.07	254.02	4,190.0	-37.9	-132.4	-37.1	0.00	0.00	0.00
	4,300.0	9.07	254.02	4,288.8	-42.3	-147.5	-37.1 -41.3	0.00	0.00	0.00
	4,400.0	9.07	254.02	4,387.5	-46.6	-162.7	<del>-4</del> 5.5	0.00	0.00	0.00
	4,500.0	9.07	254.02	4,486.3	-50.9	-177.8	-49.8	0.00	0.00	0.00
	4,600.0	9.07	254.02	4,585.0	-55.3	-193.0	-54.0	0.00	0.00	0.00
	4,700.0	9.07	254.02	4,683.8	-59.6	-208.1	-58.3	0.00	0.00	0.00
	4,700.0	9.07	254.02	4,782.5	-63.9	-223.3	-56.5 -62.5	0.00	0.00	0.00
	4,900.0	9.07	254.02	4,881.3	-68.3	-238.4	-66.7	0.00	0.00	0.00
	5,000.0	9.07	254.02	4,980.0	-72.6	-253.6	-71.0	0.00	0.00	0.00
	5,100.0	9.07	254.02	5,078.8	-77.0	-268.7	-75.2	0.00	0.00	0.00
	5,170.6	9.07	254.02	5,148.5	-80.0	-279.4	-78.2	0.00	0.00	0.00
	5,200.0	8.48	254.02 254.02	5,146.5 5,177.6	-80.0 -81.3	-279.4 -283.7	-76.2 -79.4	2.00	-2.00	0.00
	5,300.0	6.48	254.02	5,276.7	-84.8	-296.3	-73.4 -82.9	2.00	-2.00	0.00
	5,400.0	4.48	254.02	5,376.2	-87.5	-305.4	-85.5	2.00	-2.00	0.00
	5,500.0	2.48	254.02	5,476.0	-89.1	-311.3	-87.1	2.00	-2.00	0.00
	5,600.0	0.48	254.02	5,576.0	-89.9	-313.8	-87.8	2.00	-2.00	0.00
	5,624.0	0.48	0.00	5,600.0	-89.9 -89.9	-313.6 -313.9	-87.9	2.00	-2.00 -2.00	0.00
	5,739.0	0.00	0.00	5,715.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
	Brushy Cany		3.33	5,7 10.0	55.5	0.0.0	33	0.00	0.00	0.00
	7.001.0	0.00	0.00	6,977.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
	Bone Spring		5.55	-,00		5.5.5	55	5.55	3.33	3.33
	7,103.0	0.00	0.00	7,079.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
	Avalon Ss.	0.00	3.00	.,	55.5	3.70.0	31.0	3.00	0.00	3.00
	7,182.0	0.00	0.00	7,158.0	-89.9	-313.9	-87.9	0.00	0.00	0.00

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

d Survey									
a Jurvey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Upper Avalor	Carb.								
7,373.0	0.00	0.00	7,349.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Upper Avalor 7,508.0	0.00	0.00	7,484.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Middle Avalo 7,737.0	0.00	0.00	7,713.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Lw. Avalon S 7.997.0	<b>h.</b> 0.00	0.00	7,973.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
First Bone Sp		0.00	7,873.0	-09.9	-313.9	-01.9	0.00	0.00	0.00
8,065.0	0.00	0.00	8,041.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
First Bone Sp 8,508.0		0.00	8,484.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
•	Spring Carb.	0.00	0,404.0	-09.9	-313.9	-01.9	0.00	0.00	0.00
8,888.0	0.00	0.00	8,864.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Second Bone 9,015.0	Spring A Ss. 0.00	0.00	8,991.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Second Bone 9,035.0	Spring A/B Ca 0.00	orb. 0.00	9,011.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Second Bone	Spring B Ss.								
9,240.0	0.00	0.00	9,216.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Third Bone S		0.00	0.400.0	00.0	242.0	07.0	0.00	0.00	0.00
9,522.0 Harkey Ss.	0.00	0.00	9,498.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
9,539.0	0.00	0.00	9,515.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Third Bone S									
9,979.0	0.00	0.00	9,955.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Third Bone S 10,243.0	0.00	0.00	10,219.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Third Bone S	pring Ss Red		,						
10,299.0 <b>Wolfcamp Sh</b>	0.00	0.00	10,275.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
10,342.0	0.00	0.00	10,318.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Wolfcamp X 9 10,419.0	0.00	0.00	10,395.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Wolfcamp Y	Ss.								
10,449.0 <b>Wolfcamp A</b>	0.00	0.00	10,425.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
10,591.8	0.00	0.00	10,567.8	-89.9	-313.9	-87.9	0.00	0.00	0.00
10,600.0	0.66	359.63	10,576.0	-89.8	-313.9	-87.8	8.00	8.00	0.00
10,700.0 10,757.0	8.66 13.22	359.63 359.63	10,675.6 10,731.5	-81.7 -70.9	-313.9 -314.0	-79.7 -68.9	8.00 8.00	8.00 8.00	0.00 0.00
Wolfcamp B	10.00	050.00	40 770 4	<b>50.0</b>	0446		2.25	0.00	2.22
10,800.0 10,900.0	16.66 24.66	359.63 359.63	10,773.1 10,866.6	-59.8 -24.6	-314.0 -314.3	-57.8 -22.6	8.00 8.00	8.00 8.00	0.00 0.00
10,951.0	28.74	359.63	10,912.1	-1.7	-314.4	0.4	8.00	8.00	0.00
Wolfcamp C	22.66	350 63	10,954.3	22.2	-314.6	25.4	0.00	0 00	0.00
11,000.0 11,100.0 11,109.0	32.66 40.66 41.38	359.63 359.63 359.63	10,954.3 11,034.4 11,041.2	23.3 83.0 88.9	-314.6 -315.0 -315.0	25.4 85.0 90.9	8.00 8.00 8.00	8.00 8.00 8.00	0.00 0.00 0.00
Wolfcamp D	41.36	309.03	11,041.2	00.9	-315.0	90.9	8.00	6.00	0.00
11,200.0	48.66	359.63	11,105.5	153.2	-315.4	155.2	8.00	8.00	0.00

Planning Report

Database: LMRKPROD3 Company:

Long Lead\_Well Planning

Project: Site:

Remuda Remuda North 25 ST 163H

Remuda North 25 ST 163H Well: ОН Wellbore: Design: Plan1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

esign:		Plan1								
Planned	l Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	11,284.0	55.38	359.63	11,157.2	219.4	-315.9	221.4	8.00	8.00	0.00
	Landing Poir									
	11,300.0	56.66	359.63	11,166.1	232.6	-315.9	234.7	8.00	8.00	0.00
	11,400.0 11,500.0	64.66 72.66	359.63 359.63	11,215.1 11,251.4	319.7 412.8	-316.5 -317.1	321.8 414.8	8.00 8.00	8.00 8.00	0.00 0.00
	Wolfcamp F	72.00	000.00	11,201.4	412.0	017.1	717.0	0.00	0.00	0.00
	11,600.0	80.66	359.63	11,274.5	510.0	-317.7	512.1	8.00	8.00	0.00
	11,700.0	88.66	359.63	11,283.8	609.5	-318.4	611.6	8.00	8.00	0.00
	11,716.8	90.00	359.63	11,284.0	626.3	-318.5	628.3	8.00	8.00	0.00
	FTP _163H									
	11,800.0	90.00	359.63	11,284.0	709.5	-319.0	711.6	0.00	0.00	0.00
	11,900.0	90.00	359.63	11,284.0	809.5	-319.7	811.6	0.00	0.00	0.00
	12,000.0	90.00	359.63	11,284.0	909.5	-320.3	911.6	0.00	0.00	0.00
	12,100.0	90.00	359.63	11,284.0	1,009.5	-321.0	1,011.6	0.00	0.00	0.00
	12,200.0	90.00	359.63	11,284.0	1,109.5	-321.6	1,111.6	0.00	0.00	0.00
	12,300.0 12,400.0	90.00 90.00	359.63 359.63	11,284.0 11,284.0	1,209.5 1,309.5	-322.3 -322.9	1,211.6 1,311.6	0.00 0.00	0.00 0.00	0.00 0.00
	12,400.0	90.00	359.63	11,284.0	1,309.5	-322.9 -323.6	1,311.6	0.00	0.00	0.00
	12,600.0	90.00	359.63	11,284.0	1,509.5	-324.2	1,511.6	0.00	0.00	0.00
	12,700.0	90.00 90.00	359.63 359.63	11,284.0 11,284.0	1,609.5 1,709.5	-324.9 -325.5	1,611.6 1,711.6	0.00 0.00	0.00 0.00	0.00
	12,800.0 12,900.0	90.00	359.63	11,284.0	1,709.5	-325.5 -326.2	1,711.6 1,811.6	0.00	0.00	0.00 0.00
	13,000.0	90.00	359.63	11,284.0	1,909.5	-326.8	1,911.6	0.00	0.00	0.00
	13,100.0	90.00	359.63	11,284.0	2,009.5	-327.5	2,011.6	0.00	0.00	0.00
	13,200.0 13,300.0	90.00 90.00	359.63 359.63	11,284.0 11,284.0	2,109.5 2,209.5	-328.1 -328.8	2,111.6 2,211.6	0.00 0.00	0.00 0.00	0.00 0.00
	13,400.0	90.00	359.63	11,284.0	2,309.5	-329.4	2,311.6	0.00	0.00	0.00
	13,500.0	90.00	359.63	11,284.0	2,409.5	-330.1	2,411.6	0.00	0.00	0.00
	13,600.0	90.00	359.63	11,284.0	2,509.5	-330.7	2,511.6	0.00	0.00	0.00
	13,700.0	90.00	359.63	11,284.0	2,609.5	-331.4	2,511.6	0.00	0.00	0.00
	13,800.0	90.00	359.63	11,284.0	2,709.5	-332.0	2,711.6	0.00	0.00	0.00
	13,900.0	90.00	359.63	11,284.0	2,809.5	-332.7	2,811.6	0.00	0.00	0.00
	14,000.0	90.00	359.63	11,284.0	2,909.5	-333.3	2,911.6	0.00	0.00	0.00
	14,100.0	90.00	359.63	11,284.0	3,009.5	-334.0	3,011.6	0.00	0.00	0.00
	14,200.0	90.00	359.63	11,284.0	3,109.5	-334.6	3,111.6	0.00	0.00	0.00
	14,300.0	90.00	359.63	11,284.0	3,209.5	-335.3	3,211.6	0.00	0.00	0.00
	14,400.0	90.00	359.63	11,284.0	3,309.5	-335.9	3,311.6	0.00	0.00	0.00
	14,500.0	90.00	359.63	11,284.0	3,409.4	-336.6	3,411.6	0.00	0.00	0.00
	14,600.0	90.00	359.63	11,284.0	3,509.4	-337.2	3,511.6	0.00	0.00	0.00
	14,700.0	90.00	359.63	11,284.0	3,609.4	-337.9	3,611.6	0.00	0.00	0.00
	14,800.0	90.00	359.63	11,284.0	3,709.4	-338.5	3,711.6	0.00	0.00	0.00
	14,900.0	90.00	359.63	11,284.0	3,809.4	-339.2	3,811.6	0.00	0.00	0.00
	15,000.0	90.00	359.63	11,284.0	3,909.4	-339.8	3,911.6	0.00	0.00	0.00
	15,100.0	90.00	359.63	11,284.0	4,009.4	-340.5	4,011.6	0.00	0.00	0.00
	15,200.0	90.00	359.63	11,284.0	4,109.4	-341.1	4,111.6	0.00	0.00	0.00
	15,300.0	90.00	359.63	11,284.0	4,209.4	-341.8	4,211.6	0.00	0.00	0.00
	15,400.0	90.00	359.63	11,284.0	4,309.4	-342.4	4,311.6	0.00	0.00	0.00
	15,500.0	90.00	359.63	11,284.0	4,409.4	-343.0	4,411.6	0.00	0.00	0.00
	15,600.0	90.00	359.63	11,284.0	4,509.4	-343.7	4,511.6	0.00	0.00	0.00
	15,700.0	90.00	359.63	11,284.0	4,609.4	-344.3	4,611.6	0.00	0.00	0.00
	15,800.0	90.00	359.63	11,284.0	4,709.4	-345.0	4,711.6	0.00	0.00	0.00
	15,900.0	90.00	359.63	11,284.0	4,809.4	-345.6	4,811.6	0.00	0.00	0.00
	16,000.0	90.00	359.63	11,284.0	4,909.4	-346.3	4,911.6	0.00	0.00	0.00

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,100.0	90.00	359.63	11,284.0	5,009.4	-346.9	5,011.6	0.00	0.00	0.00
16,200.0	90.00	359.63	11,284.0	5,109.4	-347.6	5,111.6	0.00	0.00	0.00
16,300.0	90.00	359.63	11,284.0	5,209.4	-348.2	5,211.6	0.00	0.00	0.00
16,400.0	90.00	359.63	11,284.0	5,309.4	-348.9	5,311.6	0.00	0.00	0.00
16,500.0	90.00	359.63	11,284.0	5,409.4	-349.5	5,411.6	0.00	0.00	0.00
16,600.0	90.00	359.63	11,284.0	5,509.4	-350.2	5,511.6	0.00	0.00	0.00
16,700.0	90.00	359.63	11,284.0	5,609.4	-350.8	5,611.6	0.00	0.00	0.00
16,800.0	90.00	359.63	11,284.0	5,709.4	-351.5	5,711.6	0.00	0.00	0.00
16,900.0	90.00	359.63	11,284.0	5,809.4	-352.1	5,811.6	0.00	0.00	0.00
17,000.0	90.00	359.63	11,284.0	5,909.4	-352.8	5,911.6	0.00	0.00	0.00
17,100.0	90.00	359.63	11,284.0	6,009.4	-353.4	6,011.6	0.00	0.00	0.00
17,200.0	90.00	359.63	11,284.0	6,109.4	-354.1	6,111.6	0.00	0.00	0.00
17,300.0	90.00	359.63	11,284.0	6,209.4	-354.7	6,211.6	0.00	0.00	0.00
17,400.0	90.00	359.63	11,284.0	6,309.4	-355.4	6,311.6	0.00	0.00	0.00
17,500.0	90.00	359.63	11,284.0	6,409.4	-356.0	6,411.6	0.00	0.00	0.00
17,600.0	90.00	359.63	11,284.0	6,509.4	-356.7	6,511.6	0.00	0.00	0.00
17,700.0	90.00	359.63	11,284.0	6,609.4	-357.3	6,611.6	0.00	0.00	0.00
17,800.0	90.00	359.63	11,284.0	6,709.4	-358.0	6,711.6	0.00	0.00	0.00
17,900.0	90.00	359.63	11,284.0	6,809.4	-358.6	6,811.6	0.00	0.00	0.00
18,000.0	90.00	359.63	11,284.0	6,909.4	-359.3	6,911.6	0.00	0.00	0.00
18,100.0	90.00	359.63	11,284.0	7,009.4	-359.9	7,011.6	0.00	0.00	0.00
18,200.0	90.00	359.63	11,284.0	7,109.4	-360.6	7,111.6	0.00	0.00	0.00
18,300.0	90.00	359.63	11,284.0	7,209.4	-361.2	7,211.6	0.00	0.00	0.00
18,400.0	90.00	359.63	11,284.0	7,309.4	-361.9	7,311.6	0.00	0.00	0.00
18,500.0	90.00	359.63	11,284.0	7,409.4	-362.5	7,411.6	0.00	0.00	0.00
18,600.0	90.00	359.63	11,284.0	7,509.4	-363.2	7,511.6	0.00	0.00	0.00
18,700.0	90.00	359.63	11,284.0	7,609.4	-363.8	7,611.6	0.00	0.00	0.00
18,800.0	90.00	359.63	11,284.0	7,709.4	-364.5	7,711.6	0.00	0.00	0.00
18,900.0	90.00	359.63	11,284.0	7,809.4	-365.1	7,811.6	0.00	0.00	0.00
19,000.0	90.00	359.63	11,284.0	7,909.4	-365.8	7,911.6	0.00	0.00	0.00
19,006.2	90.00	359.63	11,284.0	7,915.6	-365.8	7,917.8	0.00	0.00	0.00
LTP _163H			·						
19,056.2	90.00	359.63	11,284.0	7,965.6	-366.1	7,967.8	0.00	0.00	0.00
BHL 163H		_	,	, -		,			-

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning
Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL_163H - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	463,983.00	622,943.60	32° 16′ 29.926 N	103° 56' 7.958 W
FTP _163H - plan hits target cent - Point	0.00 er	0.00	11,284.0	626.3	-318.5	464,609.30	622,625.10	32° 16′ 36.136 N	103° 56' 11.641 W
BHL_163H - plan hits target cent - Point	0.00 er	0.00	11,284.0	7,965.6	-366.1	471,948.60	622,577.50	32° 17' 48.768 N	103° 56' 11.879 W
LTP_163H - plan hits target cent - Point	0.00 er	0.00	11,284.0	7,915.6	-365.8	471,898.60	622,577.80	32° 17' 48.273 N	103° 56' 11.878 W

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

mations						
	Measured	Vertical				Dip
	Depth (usft)	Depth (usft)	Name	Lithology	Dip (°)	Direction (°)
	0.0	0.0	Alluvium			
	203.0	203.0	Rustler			
	323.0	323.0	Salado/Top of Salt			
	1,541.0	1,541.0	MB 126			
	3,075.0	3,075.0	Base Salt			
	3,301.0	3,300.8	Delaware/Lamar			
	3,327.0	3,326.8	Bell Canyon			
	4,186.0	4,176.2	Cherry Canyon			
	5,739.0	5,715.0	Brushy Canyon Ss.			
	7,001.0	6,977.0	Bone Spring Lm.			
	7,103.0	7,079.0	Avalon Ss.			
	7,182.0	7,158.0	Upper Avalon Carb.			
	7,373.0	7,349.0	Upper Avalon Sh.			
	7,508.0	7,484.0	Middle Avalon Carb.			
	7,737.0	7,713.0	Lw. Avalon Sh.			
	7,997.0	7,973.0	First Bone Spring Carb.			
	8,065.0	8,041.0	First Bone Spring Ss.			
	8,508.0	8,484.0	Second Bone Spring Carb.			
	8,888.0	8,864.0	Second Bone Spring A Ss.			
	9,015.0	8,991.0	Second Bone Spring A/B Carb.			
	9,035.0	9,011.0	Second Bone Spring B Ss.			
	9,240.0	9,216.0	Third Bone Spring Carb.			
	9,522.0	9,498.0	Harkey Ss.			
	9,539.0	9,515.0	Third Bone Spring Shale			
	9,979.0	9,955.0	Third Bone Spring Ss.			
	10,243.0	10,219.0	Third Bone Spring Ss Red Hills			
	10,299.0	10,275.0	Wolfcamp Shale			
	10,342.0	10,318.0	Wolfcamp X Ss.			
	10,419.0	10,395.0	Wolfcamp Y Ss.			
	10,449.0	10,425.0	Wolfcamp A			
	10,757.0	10,731.5	Wolfcamp B			
	10,951.0	10,912.1	Wolfcamp C			
	11,109.0	11,041.2	Wolfcamp D			
	11,284.0	11,157.2	Landing Point			
	11,500.0	11,251.4	Wolfcamp F			



### **HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN**

# **Assumed 100 ppm ROE = 3000'**

100 ppm H2S concentration shall trigger activation of this plan.

#### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - o Detection of H<sub>2</sub>S, and
  - o Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

#### Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

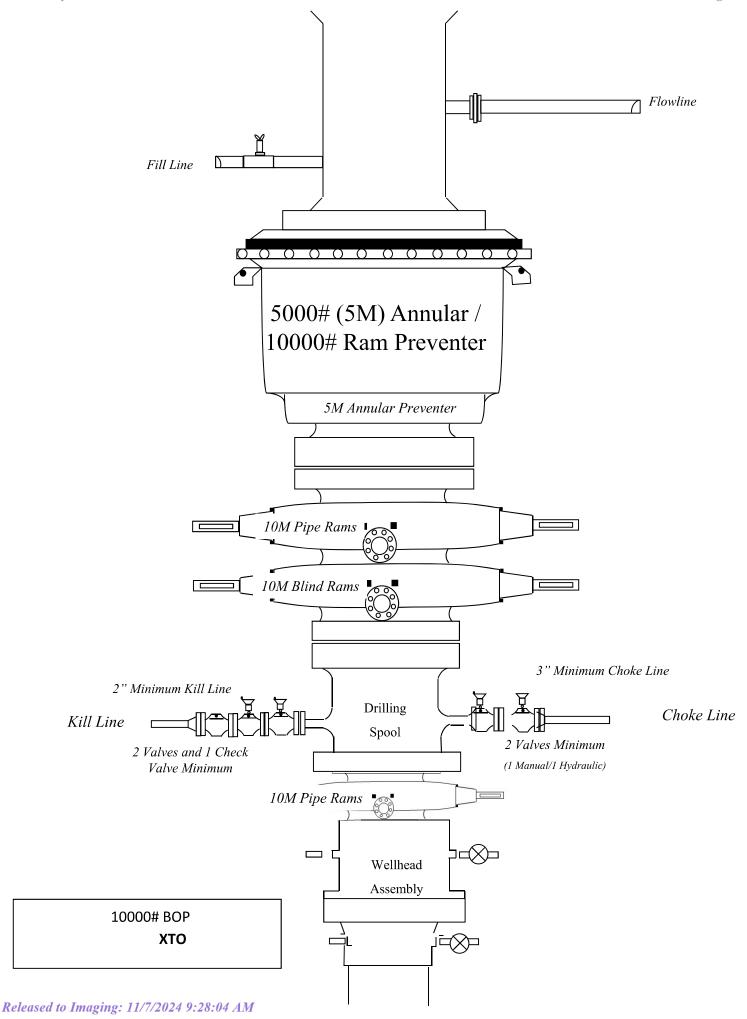
o i i ai ao coi i o ci c	00 01 1120 an	u 002			
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = I	2 ppm	N/A	1000 ppm

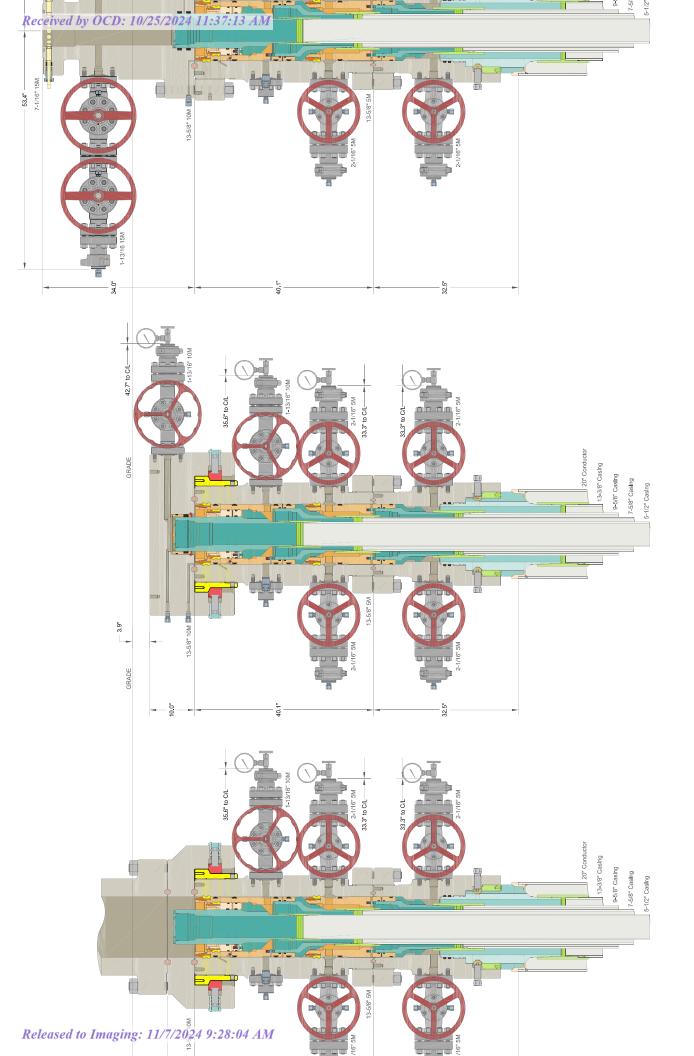
#### **Contacting Authorities**

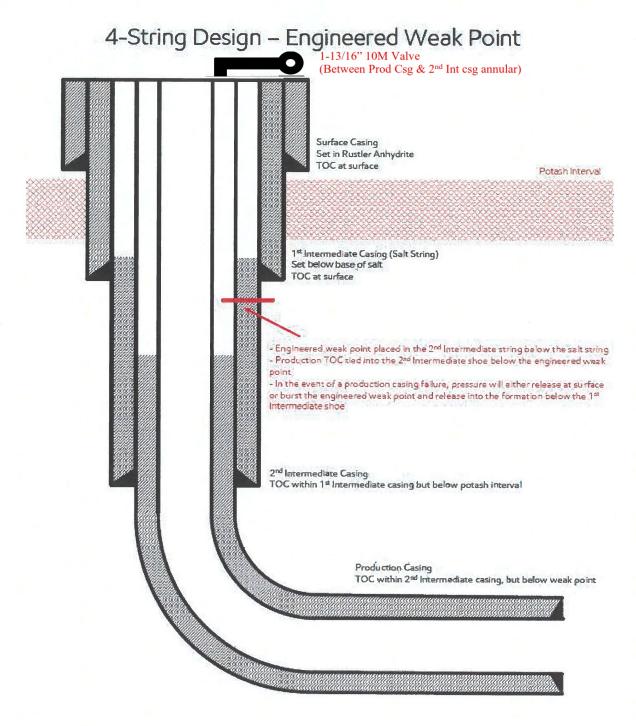
All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

#### **CARLSBAD OFFICE – EDDY & LEA COUNTIES**

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL: Will Dacus, Drilling Manager Brian Dunn, Drilling Supervisor Robert Bartels, Construction Execution Planner Andy Owens, EH & S Manager Frank Fuentes, Production Foreman	832-948-5021 832-653-0490 406-478-3617 903-245-2602 575-689-3363
SHERIFF DEPARTMENTS:	
Eddy County	575-887-7551
Lea County	575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS:	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359
AGENT NOTIFICATIONS: For Lea County: Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
For Eddy County:	
Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283







[Figure F] 4 String – 2<sup>nd</sup> Intermediate casing engineered weak point

31592723\_v1

#### Update May 2024:

XTO is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze to be completed within 180days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126
- 4) Production cement to be tied back no less than 500ft inside previous casing shoe

#### State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

#### NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

# Section 1 – Plan Description Effective May 25, 2021

I. Operator: XTO Permian Operating, LLC	<b>OGRID:</b> 373075	<b>Date:</b> 09/24/2024
II. Type: ⊠ Original □ Amendment due to □	19.15.27.9.D(6)(a) NMAC □ 19.15.	.27.9.D(6)(b) NMAC □ Other.
If Other, please describe:		

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticip ated Oil BBL/D	3 yr Anticipat ed decline Oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated decline Water BBL/D
Remuda North 25 ST 161H	TBD	25 T23S R29E	2375 FSL, 585 FWL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 501H	TBD	25 T23S R29E	2375 FSL, 615 FWL	900	100	1,250	300	2,250	250
Remuda North 25 ST 162H	TBD	25 T23S R29E	2374 FSL, 645 FWL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 163H	TBD	25 T23S R29E	2375 FSL, 1994 FEL	1,100	100	3,250	500	3,500	350
Remuda North 25 ST 502H	TBD	25 T23S R29E	2374 FSL, 1964 FEL	900	100	1,250	300	2,250	250

IV. Central Delivery Point Name:	Raider Compressor Station	_[See 19.15.27.9(D)(1) NMAC
----------------------------------	---------------------------	-----------------------------

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name TD Reached Completion API Spud Date Initial Flow First Production Date Commencement Date **Back Date** Date TBD **TBD** TBD **TBD TBD** Remuda North 25 ST 161H **TBD** 

Remuda North 25		TBD	TBD	TBD	TBD	TBD
ST 501H	TBD					
Remuda North 25		TBD	TBD	TBD	TBD	TBD
ST 162H	TBD					
Remuda North 25		TBD	TBD	TBD	TBD	TBD
ST 163H	TBD					
Remuda North 25	_	TBD	TBD	TBD	TBD	TBD
ST 502H	TBD					

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: 
☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: 

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

#### Section 2 – Enhanced Plan EFFECTIVE APRIL 1,2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

#### X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
_				, S

**XI.** Map.  $\square$  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system  $\square$  will  $\square$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator  $\square$  does  $\square$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** □ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Page 2 of 5

#### Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline ga thering system; or

□ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

**Well Shut-In.** □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  $\square$  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

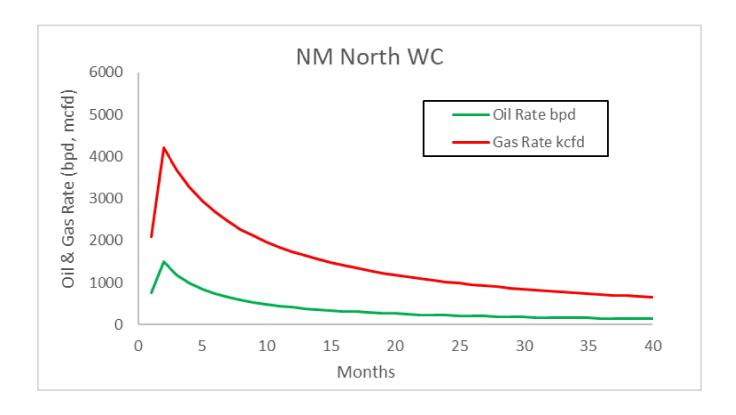
- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

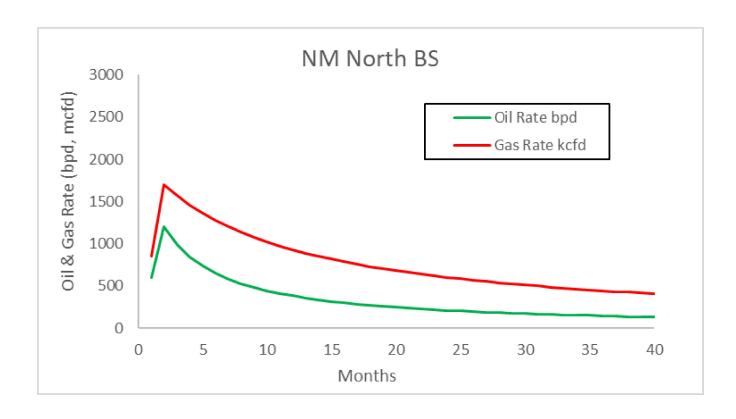
#### **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: AND
Printed Name: Adrian Baker
Title: Regulatory Advisor
E-mail Address: adrian.baker@exxonmobil.com
Date: 10/10/24
Phone: 4322363808
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
ApprovalDate:
Conditions of Approval:





#### VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

#### VII. Operational Practices

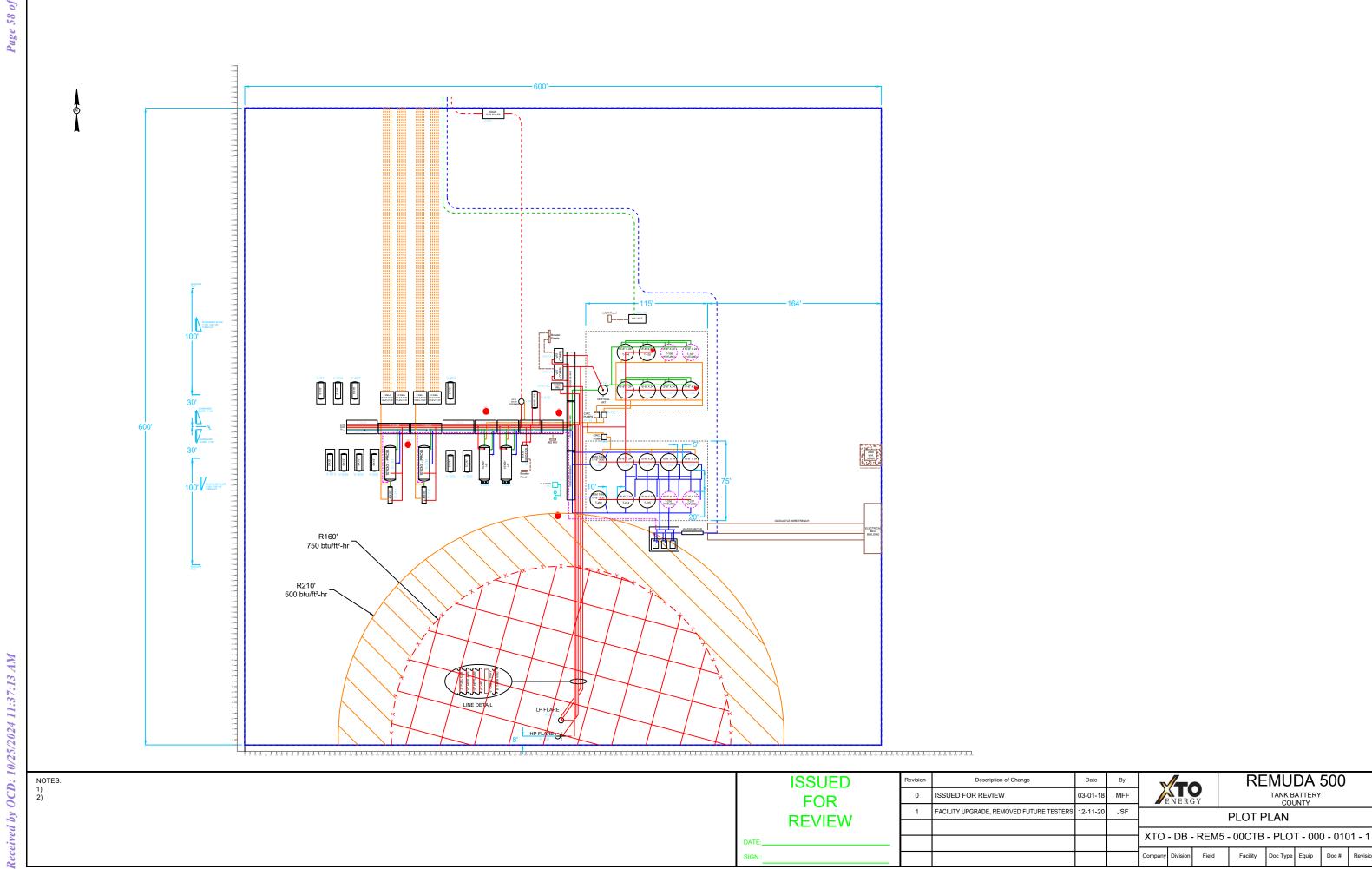
XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically infeasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in lieu of venting, where technically feasible
  - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
  - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
  - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
  - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

 Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.



# Long Lead\_Well Planning

Remuda North 25 ST 163H Remuda North 25 ST 163H

ОН

Plan: Plan1

# **Standard Planning Report**

08 October, 2024

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Remuda North 25 ST 163H

47,144.81216425

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

Minimum Curvature

59.78

Project Remuda

**Grid Convergence:** 

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Site Remuda North 25 ST 163H

 Site Position:
 Northing:
 463,983.00 usft
 Latitude:
 32° 16' 29.926 N

 From:
 Map
 Easting:
 622,943.60 usft
 Longitude:
 103° 56' 7.958 W

Position Uncertainty: 3.0 usft Slot Radius: 13-3/16 "

0.21°

IGRF2020

Well Remuda North 25 ST 163H **Well Position** +N/-S 0.0 usft Northing: 463,983.00 usft Latitude: 32° 16' 29.926 N +E/-W 0.0 usft Easting: 622,943.60 usft Longitude: 103° 56' 7.958 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,059.0 usft

Wellbore OH

Magnetics Model Name Sample Date Declination Dip Angle Field Strength
(°) (°) (nT)

6.33

10/8/2024

Plan1 Design **Audit Notes:** PLAN Tie On Depth: 0.0 Version: Phase: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 359.63 0.0 0.0 0.0

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,553.4	9.07	254.02	3,551.5	-9.9	-34.4	2.00	2.00	0.00	254.02	
5,170.6	9.07	254.02	5,148.5	-80.0	-279.4	0.00	0.00	0.00	0.00	
5,624.0	0.00	0.00	5,600.0	-89.9	-313.9	2.00	-2.00	0.00	180.00	
10,591.8	0.00	0.00	10,567.8	-89.9	-313.9	0.00	0.00	0.00	0.00	
11,716.8	90.00	359.63	11,284.0	626.3	-318.5	8.00	0.00	0.00	359.63 FTP_	163H
19,006.2	90.00	359.63	11,284.0	7,915.6	-365.8	0.00	0.00	0.00	0.00 LTP_	163H
19,056.2	90.00	359.63	11,284.0	7,965.6	-366.1	0.00	0.00	0.00	0.00 BHL_	163H

Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

	гіант								
l Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Alluvium	- SHL _163H								
203.0	0.00	0.00	203.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
323.0	0.00	0.00	323.0	0.0	0.0	0.0	0.00	0.00	0.00
Salado/To	•								
1,541.0	0.00	0.00	1,541.0	0.0	0.0	0.0	0.00	0.00	0.00
MB 126									
3,075.0		0.00	3,075.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Salt									
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0 2.00	254.02	3,200.0	-0.5	-1.7	-0.5	2.00	2.00	0.00
3,300.0	0 4.00	254.02	3,299.8	-1.9	-6.7	-1.9	2.00	2.00	0.00
3,301.0		254.02	3,300.8	-1.9	-6.8	-1.9	2.00	2.00	0.00
Delaware/									
3,327.0		254.02	3,326.8	-2.5	-8.6	-2.4	2.00	2.00	0.00
Bell Cany	on								
3,400.0		254.02	3,399.5	-4.3	-15.1	-4.2	2.00	2.00	0.00
3,500.0	0 8.00	254.02	3,498.7	-7.7	-26.8	-7.5	2.00	2.00	0.00
3,553.4	4 9.07	254.02	3,551.5	-9.9	-34.4	-9.6	2.00	2.00	0.00
3,600.0	0 9.07	254.02	3,597.5	-11.9	-41.5	-11.6	0.00	0.00	0.00
3,700.0	9.07	254.02	3,696.3	-16.2	-56.6	-15.9	0.00	0.00	0.00
3,800.0	9.07	254.02	3,795.0	-20.6	-71.8	-20.1	0.00	0.00	0.00
3,900.0	9.07	254.02	3,893.8	-24.9	-86.9	-24.3	0.00	0.00	0.00
4,000.0		254.02	3,992.5	-29.2	-102.1	-28.6	0.00	0.00	0.00
4,100.0	9.07	254.02	4,091.3	-33.6	-117.2	-32.8	0.00	0.00	0.00
4,186.0	0 9.07	254.02	4,176.2	-37.3	-130.3	-36.5	0.00	0.00	0.00
Cherry Ca	nyon								
4,200.0	9.07	254.02	4,190.0	-37.9	-132.4	-37.1	0.00	0.00	0.00
4,300.0	9.07	254.02	4,288.8	-42.3	-147.5	-41.3	0.00	0.00	0.00
4,400.0		254.02	4,387.5	-46.6	-162.7	-45.5	0.00	0.00	0.00
4,500.0		254.02	4,486.3	-50.9	-177.8	-49.8	0.00	0.00	0.00
4,600.0	0 9.07	254.02	4,585.0	-55.3	-193.0	-54.0	0.00	0.00	0.00
4,700.0	0 9.07	254.02	4,683.8	-59.6	-208.1	-58.3	0.00	0.00	0.00
4,800.0	9.07	254.02	4,782.5	-63.9	-223.3	-62.5	0.00	0.00	0.00
4,900.0	9.07	254.02	4,881.3	-68.3	-238.4	-66.7	0.00	0.00	0.00
5,000.0	9.07	254.02	4,980.0	-72.6	-253.6	-71.0	0.00	0.00	0.00
5,100.0	9.07	254.02	5,078.8	-77.0	-268.7	-75.2	0.00	0.00	0.00
5,170.6	6 9.07	254.02	5,148.5	-80.0	-279.4	-78.2	0.00	0.00	0.00
5,200.0		254.02	5,177.6	-81.3	-283.7	-79.4	2.00	-2.00	0.00
5,300.0		254.02	5,276.7	-84.8	-296.3	-82.9	2.00	-2.00	0.00
5,400.0		254.02	5,376.2	-87.5	-305.4	-85.5	2.00	-2.00	0.00
5,500.0		254.02	5,476.0	-89.1	-311.3	-87.1	2.00	-2.00	0.00
5,600.0	0 0.48	254.02	5,576.0	-89.9	-313.8	-87.8	2.00	-2.00	0.00
5,624.0		0.00	5,600.0	-89.9	-313.9	-87.9	2.00	-2.00	0.00
5,739.0		0.00	5,715.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Brushy Ca	anyon Ss.								
7,001.0	-	0.00	6,977.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Bone Spri									
7,103.0		0.00	7,079.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Avalon Ss	S.								
7,182.0	0.00	0.00	7,158.0	-89.9	-313.9	-87.9	0.00	0.00	0.00

Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

d Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Upper Ava	lon Carb								
7,373.0		0.00	7,349.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Upper Ava									
7,508.0 Middle Ava		0.00	7,484.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
7,737.0		0.00	7,713.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Lw. Avalor									
7,997.0	0.00 Spring Carb.	0.00	7,973.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
		0.00	0.044.0	22.2	242.2	07.0	0.00	2.22	2.22
8,065.0 First Bone		0.00	8,041.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
8,508.0		0.00	8,484.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Second Bo	ne Spring Carb.								
8,888.0		0.00	8,864.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
9.015.0	one Spring A Ss.	0.00	8,991.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
- ,	one Spring A/B Car		2,000	00.0	0.0.0	05	0.00	0.00	3.30
9,035.0		0.00	9,011.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Second Bo	one Spring B Ss.								
9,240.0		0.00	9,216.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
9,522.0	Spring Carb.	0.00	9,498.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Harkey Ss.		0.00	5,450.0	00.0	010.0	01.0	0.00	0.00	0.00
9,539.0	0.00	0.00	9,515.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Third Bone 9,979.0	Spring Shale 0.00	0.00	9,955.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
	Spring Ss.	0.00	9,900.0	-09.9	-313.9	-07.9	0.00	0.00	0.00
10,243.0		0.00	10,219.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Third Bone	Spring Ss Red I	Hills							
10,299.0	0.00	0.00	10,275.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Wolfcamp		0.00	10 210 0	-89.9	212.0	97.0	0.00	0.00	0.00
10,342.0 <b>Wolfcamp</b>		0.00	10,318.0	-09.9	-313.9	-87.9	0.00	0.00	0.00
10,419.0		0.00	10,395.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
Wolfcamp		2.22	10.105.0		040.0	07.0	0.00	0.00	0.00
10,449.0 <b>Wolfcamp</b>		0.00	10,425.0	-89.9	-313.9	-87.9	0.00	0.00	0.00
10,591.8		0.00	10,567.8	-89.9	-313.9	-87.9	0.00	0.00	0.00
10,600.0		359.63	10,576.0	-89.8	-313.9	-87.8	8.00	8.00	0.00
10,700.0	8.66	359.63	10,675.6	-81.7	-313.9	-79.7	8.00	8.00	0.00
10,757.0 <b>Wolfcamp</b>		359.63	10,731.5	-70.9	-314.0	-68.9	8.00	8.00	0.00
10,800.0		359.63	10,773.1	-59.8	-314.0	-57.8	8.00	8.00	0.00
10,900.0		359.63	10,866.6	-24.6	-314.3	-22.6	8.00	8.00	0.00
10,951.0		359.63	10,912.1	-1.7	-314.4	0.4	8.00	8.00	0.00
Wolfcamp		250.62	10.054.2	22.2	214.6	0E 4	0.00	0.00	0.00
11,000.0 11,100.0		359.63 359.63	10,954.3 11,034.4	23.3 83.0	-314.6 -315.0	25.4 85.0	8.00 8.00	8.00 8.00	0.00
11,109.0	41.38	359.63	11,041.2	88.9	-315.0	90.9	8.00	8.00	0.00
Wolfcamp		250.62	11 105 5	152.0	215 4	155.0	8.00	9.00	0.00
11,200.0	48.66	359.63	11,105.5	153.2	-315.4	155.2	8.00	8.00	0.00

Planning Report

LMRKPROD3 Database:

Company: Long Lead\_Well Planning

Project: Remuda

Remuda North 25 ST 163H Site: Well: Remuda North 25 ST 163H

ОН Wellbore: Design: Plan1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

l <b>-</b>										
ed Survey										
Measur Depth (usft)	ı In	iclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,28	84.0	55.38	359.63	11,157.2	219.4	-315.9	221.4	8.00	8.00	0.00
Landin	g Point									
11,30		56.66	359.63	11,166.1	232.6	-315.9	234.7	8.00	8.00	0.00
11,40		64.66	359.63	11,215.1	319.7	-316.5	321.8	8.00	8.00	0.00
11,50		72.66	359.63	11,251.4	412.8	-317.1	414.8	8.00	8.00	0.00
<b>Wolfca</b> 11,60	•	80.66	359.63	11,274.5	510.0	-317.7	512.1	8.00	8.00	0.00
11,70 11,7 <i>°</i>		88.66 90.00	359.63 359.63	11,283.8 11,284.0	609.5 626.3	-318.4 -318.5	611.6 628.3	8.00 8.00	8.00 8.00	0.00 0.00
FTP _1		90.00	339.03	11,204.0	020.3	-510.5	020.5	0.00	0.00	0.00
11,80		90.00	359.63	11,284.0	709.5	-319.0	711.6	0.00	0.00	0.00
11,90		90.00	359.63	11,284.0	809.5	-319.7	811.6	0.00	0.00	0.00
12,00	0.00	90.00	359.63	11,284.0	909.5	-320.3	911.6	0.00	0.00	0.00
12,10	0.00	90.00	359.63	11,284.0	1,009.5	-321.0	1,011.6	0.00	0.00	0.00
12,20		90.00	359.63	11,284.0	1,109.5	-321.6	1,111.6	0.00	0.00	0.00
12,30		90.00	359.63	11,284.0	1,209.5	-322.3	1,211.6	0.00	0.00	0.00
12,40		90.00	359.63	11,284.0	1,309.5	-322.9	1,311.6	0.00	0.00	0.00
12,50	0.00	90.00	359.63	11,284.0	1,409.5	-323.6	1,411.6	0.00	0.00	0.00
12,60		90.00	359.63	11,284.0	1,509.5	-324.2	1,511.6	0.00	0.00	0.00
12,70		90.00	359.63	11,284.0	1,609.5	-324.9	1,611.6	0.00	0.00	0.00
12,80 12,90		90.00 90.00	359.63 359.63	11,284.0 11,284.0	1,709.5 1,809.5	-325.5 -326.2	1,711.6 1,811.6	0.00 0.00	0.00 0.00	0.00 0.00
13,00		90.00	359.63	11,284.0	1,909.5	-326.8	1,911.6	0.00	0.00	0.00
		90.00	359.63	11,284.0		-327.5		0.00		0.00
13,10 13,20		90.00	359.63 359.63	11,284.0	2,009.5 2,109.5	-327.5 -328.1	2,011.6 2,111.6	0.00	0.00 0.00	0.00
13,30		90.00	359.63	11,284.0	2,209.5	-328.8	2,211.6	0.00	0.00	0.00
13,40		90.00	359.63	11,284.0	2,309.5	-329.4	2,311.6	0.00	0.00	0.00
13,50	0.00	90.00	359.63	11,284.0	2,409.5	-330.1	2,411.6	0.00	0.00	0.00
13,60	0.00	90.00	359.63	11,284.0	2,509.5	-330.7	2,511.6	0.00	0.00	0.00
13,70	0.00	90.00	359.63	11,284.0	2,609.5	-331.4	2,611.6	0.00	0.00	0.00
13,80		90.00	359.63	11,284.0	2,709.5	-332.0	2,711.6	0.00	0.00	0.00
13,90		90.00	359.63	11,284.0	2,809.5	-332.7	2,811.6	0.00	0.00	0.00
14,00		90.00	359.63	11,284.0	2,909.5	-333.3	2,911.6	0.00	0.00	0.00
14,10		90.00	359.63	11,284.0	3,009.5	-334.0	3,011.6	0.00	0.00	0.00
14,20 14,30		90.00 90.00	359.63 359.63	11,284.0 11,284.0	3,109.5 3,209.5	-334.6 -335.3	3,111.6 3,211.6	0.00 0.00	0.00 0.00	0.00 0.00
14,30		90.00	359.63 359.63	11,284.0	3,209.5	-335.3 -335.9	3,211.6	0.00	0.00	0.00
14,50		90.00	359.63	11,284.0	3,409.4	-336.6	3,411.6	0.00	0.00	0.00
14,60		90.00	359.63	11,284.0	3,509.4	-337.2	3,511.6	0.00	0.00	0.00
14,00		90.00	359.63	11,284.0	3,609.4	-337.2	3,611.6	0.00	0.00	0.00
14,80	0.00	90.00	359.63	11,284.0	3,709.4	-338.5	3,711.6	0.00	0.00	0.00
14,90		90.00	359.63	11,284.0	3,809.4	-339.2	3,811.6	0.00	0.00	0.00
15,00	0.00	90.00	359.63	11,284.0	3,909.4	-339.8	3,911.6	0.00	0.00	0.00
15,10		90.00	359.63	11,284.0	4,009.4	-340.5	4,011.6	0.00	0.00	0.00
15,20		90.00	359.63	11,284.0	4,109.4	-341.1	4,111.6	0.00	0.00	0.00
15,30 15,40		90.00 90.00	359.63 359.63	11,284.0 11,284.0	4,209.4 4,309.4	-341.8 -342.4	4,211.6 4,311.6	0.00 0.00	0.00 0.00	0.00 0.00
15,40		90.00	359.63 359.63	11,284.0	4,309.4 4,409.4	-342.4 -343.0	4,311.6	0.00	0.00	0.00
15,60 15,70		90.00 90.00	359.63 359.63	11,284.0 11,284.0	4,509.4 4,609.4	-343.7 -344.3	4,511.6 4,611.6	0.00 0.00	0.00 0.00	0.00 0.00
15,70		90.00	359.63	11,284.0	4,709.4	-344.3	4,711.6	0.00	0.00	0.00
15,90		90.00	359.63	11,284.0	4,809.4	-345.6	4,811.6	0.00	0.00	0.00
16,00	0.00	90.00	359.63	11,284.0	4,909.4	-346.3	4,911.6	0.00	0.00	0.00

Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,100.0	90.00	359.63	11,284.0	5,009.4	-346.9	5,011.6	0.00	0.00	0.00
16,200.0	90.00	359.63	11,284.0	5,109.4	-347.6	5,111.6	0.00	0.00	0.00
16,300.0	90.00	359.63	11,284.0	5,209.4	-348.2	5,211.6	0.00	0.00	0.00
16,400.0	90.00	359.63	11,284.0	5,309.4	-348.9	5,311.6	0.00	0.00	0.00
16,500.0	90.00	359.63	11,284.0	5,409.4	-349.5	5,411.6	0.00	0.00	0.00
16,600.0	90.00	359.63	11,284.0	5,509.4	-350.2	5,511.6	0.00	0.00	0.00
16,700.0	90.00	359.63	11,284.0	5,609.4	-350.8	5,611.6	0.00	0.00	0.00
16,800.0	90.00	359.63	11,284.0	5,709.4	-351.5	5,711.6	0.00	0.00	0.00
16,900.0	90.00	359.63	11,284.0	5,809.4	-352.1	5,811.6	0.00	0.00	0.00
17,000.0	90.00	359.63	11,284.0	5,909.4	-352.8	5,911.6	0.00	0.00	0.00
17,100.0	90.00	359.63	11,284.0	6,009.4	-353.4	6,011.6	0.00	0.00	0.00
17,200.0	90.00	359.63	11,284.0	6,109.4	-354.1	6,111.6	0.00	0.00	0.00
17,300.0	90.00	359.63	11,284.0	6,209.4	-354.7	6,211.6	0.00	0.00	0.00
17,400.0	90.00	359.63	11,284.0	6,309.4	-355.4	6,311.6	0.00	0.00	0.00
17,500.0	90.00	359.63	11,284.0	6,409.4	-356.0	6,411.6	0.00	0.00	0.00
17,600.0	90.00	359.63	11,284.0	6,509.4	-356.7	6,511.6	0.00	0.00	0.00
17,700.0	90.00	359.63	11,284.0	6,609.4	-357.3	6,611.6	0.00	0.00	0.00
17,800.0	90.00	359.63	11,284.0	6,709.4	-358.0	6,711.6	0.00	0.00	0.00
17,900.0	90.00	359.63	11,284.0	6,809.4	-358.6	6,811.6	0.00	0.00	0.00
18,000.0	90.00	359.63	11,284.0	6,909.4	-359.3	6,911.6	0.00	0.00	0.00
18,100.0	90.00	359.63	11,284.0	7,009.4	-359.9	7,011.6	0.00	0.00	0.00
18,200.0	90.00	359.63	11,284.0	7,109.4	-360.6	7,111.6	0.00	0.00	0.00
18,300.0	90.00	359.63	11,284.0	7,209.4	-361.2	7,211.6	0.00	0.00	0.00
18,400.0	90.00	359.63	11,284.0	7,309.4	-361.9	7,311.6	0.00	0.00	0.00
18,500.0	90.00	359.63	11,284.0	7,409.4	-362.5	7,411.6	0.00	0.00	0.00
18,600.0	90.00	359.63	11,284.0	7,509.4	-363.2	7,511.6	0.00	0.00	0.00
18,700.0	90.00	359.63	11,284.0	7,609.4	-363.8	7,611.6	0.00	0.00	0.00
18,800.0	90.00	359.63	11,284.0	7,709.4	-364.5	7,711.6	0.00	0.00	0.00
18,900.0	90.00	359.63	11,284.0	7,809.4	-365.1	7,811.6	0.00	0.00	0.00
19,000.0	90.00	359.63	11,284.0	7,909.4	-365.8	7,911.6	0.00	0.00	0.00
19,006.2	90.00	359.63	11,284.0	7,915.6	-365.8	7,917.8	0.00	0.00	0.00
LTP _163H									
19,056.2	90.00	359.63	11,284.0	7,965.6	-366.1	7,967.8	0.00	0.00	0.00

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL _163H - plan hits target cer - Point	0.00 iter	0.00	0.0	0.0	0.0	463,983.00	622,943.60	32° 16' 29.926 N	103° 56' 7.958 W
FTP _163H - plan hits target cer - Point	0.00 iter	0.00	11,284.0	626.3	-318.5	464,609.30	622,625.10	32° 16' 36.136 N	103° 56' 11.641 W
BHL _163H - plan hits target cer - Point	0.00 iter	0.00	11,284.0	7,965.6	-366.1	471,948.60	622,577.50	32° 17' 48.768 N	103° 56' 11.879 W
LTP _163H - plan hits target cer - Point	0.00 iter	0.00	11,284.0	7,915.6	-365.8	471,898.60	622,577.80	32° 17' 48.273 N	103° 56' 11.878 W

#### Planning Report

Database: LMRKPROD3

Company: Long Lead\_Well Planning

Project: Remuda

Site: Remuda North 25 ST 163H
Well: Remuda North 25 ST 163H

Wellbore: OH
Design: Plan1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Remuda North 25 ST 163H

RKB (+32) @ 3091.0usft RKB (+32) @ 3091.0usft

Grid

ormations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	0.0	0.0	Alluvium			
	203.0	203.0	Rustler			
	323.0	323.0	Salado/Top of Salt			
	1,541.0	1,541.0	MB 126			
	3,075.0	3,075.0	Base Salt			
	3,301.0	3,300.8	Delaware/Lamar			
	3,327.0	3,326.8	Bell Canyon			
	4,186.0	4,176.2	Cherry Canyon			
	5,739.0	5,715.0	Brushy Canyon Ss.			
	7,001.0	6,977.0	Bone Spring Lm.			
	7,103.0	7,079.0	Avalon Ss.			
	7,182.0	7,158.0	Upper Avalon Carb.			
	7,373.0	7,349.0	Upper Avalon Sh.			
	7,508.0	7,484.0	Middle Avalon Carb.			
	7,737.0	7,713.0	Lw. Avalon Sh.			
	7,997.0	7,973.0	First Bone Spring Carb.			
	8,065.0	8,041.0	First Bone Spring Ss.			
	8,508.0	8,484.0	Second Bone Spring Carb.			
	8,888.0	8,864.0	Second Bone Spring A Ss.			
	9,015.0	8,991.0	Second Bone Spring A/B Carb.			
	9,035.0	9,011.0	Second Bone Spring B Ss.			
	9,240.0	9,216.0	Third Bone Spring Carb.			
	9,522.0	9,498.0	Harkey Ss.			
	9,539.0	9,515.0	Third Bone Spring Shale			
	9,979.0	9,955.0	Third Bone Spring Ss.			
	10,243.0	10,219.0	Third Bone Spring Ss Red Hills			
	10,299.0	10,275.0	Wolfcamp Shale			
	10,342.0	10,318.0				
	10,419.0	10,395.0				
	10,449.0		Wolfcamp A			
	10,757.0		Wolfcamp B			
	10,951.0	10,912.1				
	11,109.0		Wolfcamp D			
	11,284.0		Landing Point			
	11,500.0		Wolfcamp F			