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Received by OCI	D: 11/10/2022 1	12:17:16 PM						Page 1 of		
Form 3160-5 (June 2019)	Form 3160-5 UNITED STATES (June 2019) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT							DVED I-0137 31, 2021		
Do abai	SUNDRY N not use this f ndoned well. I	NOTICES AND REPORT form for proposals to di Use Form 3160-3 (APD)	S ON W rill or to	ELLS re-enter ar h proposal:	6. If Indi 5.	an, Allottee or T	ribe Name			
	SUBMIT IN	TRIPLICATE - Other instructior	ns on page	2	7. If Uni	t of CA/Agreem	ent, Name a	and/or No.		
1. Type of Well			, ,		0.111	1 1 1 1				
Oil '	Well 🖌 Gas W	Vell Other			8. Well r	ame and No. R	IPLEY 35-2	26 WXY FED COM/5H		
2. Name of Operato	^{)r} MARATHON OI	IL PERMIAN LLC			9. API W	^{/ell No.} 300154	7614			
3a. Address 990 T	OWN & COUNTR	RY BLVD, HOUSTON, TX 3b. F	Phone No. (2 0) 000-000	include area coa 0	le) 10. Field PURP	and Pool or Exp LE SAGE/Wolf	oloratory A camp	rea		
4. Location of Well SEC 35/T24S/R	(Footage, Sec., T.,R 28E/NMP	R.,M., or Survey Description)			11. Cour EDDY	try or Parish, St /NM	ate			
	12. CHE	CK THE APPROPRIATE BOX(E	ES) TO IND	ICATE NATUR	E OF NOTICE, REP	ORT OR OTHE	R DATA			
TYPE OF SU	UBMISSION			ТҮ	PE OF ACTION					
✓ Notice of Int	tent	Acidize	Deepe	n ulic Fracturing	Production (St	art/Resume)	Water	Shut-Off Integrity		
Subsequent D	Report	Casing Repair	New C	Construction	Recomplete Temporarily A	omplete 🔽 Other porarily Abandon				
Marathon Oi that required SHL: 320' Fi BHL: 330' Fi No additiona	he involved operation al Abandonment Nor al Abandonment Nor il inspection.) il Permian respect d Marathon to char SL 1336' FEL Sec NL 2320' FEL Sec al surface disturban rectional plan.	fully requests approval to change fully requests approval to change ange our well spacing. 5. 35 24S 28E Change to: 320' f 5. 26 24S 28E Change to: 330' l 5. 26 24S 28E Change to: 330' l 5. 26 24S 28E Change to: 330' l	ge the SHI FSL 1286' FNL 1765' y approved	and BHL as s - and BHL as s FEL Sec 35 24 FEL Sec 26 2 ² J pad - please	Shown below. Offse Shown below. Offse S 28E IS 28E IS 28E see attached pad d	val, a Form 3160 mpleted and the t operator drille iagram. Please	ed and con	filed once testing has been is detennined that the site npleted wells		
Please chan	ge the well name	and number from Ripley 35-26	WXY Fed	Com 5H TO: F	Ripley WC Fed Con	n #701H Dean	, R	McClure		
							09/12/2	2023		
14. I hereby certify t TERRI STATHEN	that the foregoing is / / Ph: (713) 629-(true and correct. Name (<i>Printed</i> /6600	Typed)	Regulato Title	ry Compliance Mar	ager				
Signature				Date		11/07/202	2			
		THE SPACE FO	R FEDE	RAL OR S	TATE OFICE US	SE				
Approved by										
CHRISTOPHER	WALLS / Ph: (575	5) 234-2234 / Approved		Title Petr	oleum Engineer	Da	te	11/10/2022		
Conditions of appro certify that the appli which would entitle	val, if any, are attack icant holds legal or e the applicant to con	hed. Approval of this notice does n equitable title to those rights in the aduct operations thereon.	not warrant e subject lea	or se Office C/	ARLSBAD	l				

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 320 FSL / 1336 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1673835 / LONG: -104.053756 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 1339 FNL / 2323 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1775478 / LONG: -104.0569494 (TVD: 9665 feet, MD: 13418 feet) PPP: SWSE / 330 FSL / 2318 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1674181 / LONG: -104.0568644 (TVD: 9551 feet, MD: 9708 feet) BHL: NWNE / 330 FNL / 2320 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1803168 / LONG: -104.0569727 (TVD: 9665 feet, MD: 14427 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Marathon Oil
LEASE NO.:	NMNM25953
LOCATION:	Section 35, T.24 S., R.28E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Ripley WC Fed Com 701H
SURFACE HOLE FOOTAGE:	320'/S & 1286'/E
BOTTOM HOLE FOOTAGE	330'/N & 1765'/E

COA

H2S	• Yes	O No	
Potash	None	O Secretary	© R-111-P
Cave/Karst Potential	O Low	O Medium	• High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	Other
Wellhead	Conventional	Multibowl	O Both
Other	□4 String Area	Capitan Reef	WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	□ Water Disposal	COM	🗆 Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware and Bone Springs** formations. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately **500** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$

<u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept 1/3rd fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

- In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
 - 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

GENERAL REQUIREMENTS

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

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

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

- Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. Operator is approved to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. Operator is approve to set surface casing with Spudder Rig

- Notify the BLM when moving in and removing the Spudder Rig.
- Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
- BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

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

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

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

Phone: (575) 748-1283 Fax: (575) 748-9720

1000 Rio Brazos Road, Aztec, NM 87410

District II 811 S. First St., Artesia, NM 88210

District III

Form C-102

District Office

Revised August 1, 2011

Submit one copy to appropriate

Santa Fe, NM Fax: (505) 476	87505 -3462			Santa Fe, NN	a Fe, NM 87505								
WELL LOCATION AND ACREAGE DEDICATION PLAT													
PI Number	r		² Pool Code			³ Pool Nai	me						
015-476	514		98220		PURE	PLE SAGE; '	Wolfcar	np (gas	5)				
ode				⁵ Property I	Name			⁶ V	Vell Number				
			R	IPLEY WC	FED COM				701H				
lo.	⁸ Operator Name								⁹ Elevation				
MARATHON OIL PERMIAN, LLC								2955'					
¹⁰ Surface Location													
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County				
35	24S	28E		320	SOUTH	1286	EAS	бт	EDDY				
		¹¹ Bo	ttom Hol	e Location If	Different From	Surface							
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County				
26	24S	28E		330	NORTH	1765	EAS	БТ	EDDY				
¹³ Joint of	r Infill 14 C	Consolidation	Code ¹⁵ Or	der No.	24 24								
20													
	Santa Fe, NM Fax: (505) 476 PI Number 015-476 ode (0. 8 Section 35 Section 26 1 ³ Joint of	Santa Fe, NM 87505 Fax: (505) 476-3462	WELL LC WELL LC PI Number 015-47614 ode 00 0 10 8 Section Township 24S 24S 28E " Bo Section Township 24S 26 24S 28E 13 Joint or Infill 14 Consolidation of the section of the	WELL LOCATIOI WELL LOCATIOI Pool Code PI Number 2 Pool Code 015-47614 98220 ode R 60. MARA' Section Township 24S 28E ** Bottom Hol Section Township 26 24S 28E 1** Bottom Hol 1** Bottom Code 1** Or	Santa Fe, NI PI Number 2 Pool Code 98220 Santa Fe, NI Officities and the section of the section of the section Township Santa Fe, NI Officities and the section Township Santa Fe, NI Surface I Section Township Range Lot Idn Feet from the 26 24S 28E 330 11 Joint or Infill 14 Consolidation Code 15 Order No.	Santa Fe, NM 87505 PURF Operator Name RIPLEY WC FED COM In Operator Name MARATHON OIL PERMIAN, LL In Surface Location Surface Location South Feet from the North/South line 330 SOUTH NORTH Is order No.	Santa Fe, NM 87505 PURPLE3 PURPLE SAGE; ' Ode * Property Name RIPLEY WC FED COM * Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the 330 NORTH 1765 13 Joint	Santa Fe, NM 87505 PURPLE SAGE DEDICATION PLAT POR Code PURPLE SAGE; Wolfcar Office Poetform Name RIPLEY WC FED COM Isome Colspan="2">Surface Location Surface Location Surface Location Surface Location If Different From the East 320 South Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East 330 Sour	Santa Fe, NM 87505 Image: Additional and the set of t				

State of New Mexico

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Energy, Minerals & Natural Resources Department

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

8 8	24	19	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete
	S S		to the best of my knowledge and belief, and that this organization either
BHL	SEC	sec	owns a working interest or unleased mineral interest in the land including
SECTION 23	SECTION 24	SECTION 19	the proposed bottom hole location or has a right to drill this well at this
913	1765' SECTION 25	SECT ON 30	location pursuant to a contract with an owner of such a mineral or working
	w w		interest, or to a voluntary pooling agreement or a compulsory pooling
			order heretofore entered by the division.
sec sec 6."W~ 5032.	LAST TAK 330	E POINT/BOTTOM HOLE LOCATION ' FNL 1765' FEL, SECTION 26 NAD 83, SPCS NM EAST '(\$27394.47' / Y:434803.38'	Terri Stathem 10/28/2022 Signature Date
0.00	LAT:32.	19504582N / LON:104.05512945W	
		(:586210.70' / Y:434744.87'	Printed Name
X: 627 394.62 Y: 429771 22'	LAI:32.		Tstathem@marathonoil.com
SE CTION 26 SECTION 35		'FSL 1765'FEL, SECTION 35 NAD 83, SPCS NM EAST (:627436.53'/Y 424751.34' 16741353N/LON:104.05507753W	E-mail Address
a 12		NAD 27, SPCS NM EAST	ISURVEYOR CERTIFICATION
02,	Z LAT:32.	16729097N / LON:104.05458778W	I hereby certify that the well location shown on this
Sec. Sec.	ີ່ມີ ສິສິສິສິສິສິສິສິສິສິສິສິສິສິສິສິສິສິສິ	URFACE HOLE LOCATION ' FSL 1286' FEL, SECTION 35	plat was plotted from field notes of actual surveys
1	,	NAD 83, SPCS NM EAST (:627915.60' / Y:424741.16'	made by me or under my supervision, and that the
42	LAT:32.	16738214N / LON:104.05352937W	same is true and correct to the best of my belief.
9°28	LAT:32	(:586731.59' / Y:424682.84' 16725956N / LON: 104 05303969W	
			0010BER 27, 2022
FIRST TAKE 883' SECTION 2	CHL 1765' T24S R28E SECTION 1286' T25S R28E SECTION	36 SECTION 31T24S R29E	Signature and Seal of Professional Story or:
330'	section 2	6 T25S R28E	DAVID W. MYERS 11403
SHEET 1 OF 3 JOB No. R3906_011 REV 0 BJM 10/27/2022		section	Certificate Number

Distances/areas relative to NAD 83 Combined Scale Factor: 0.9997778 Convergence Angle: 0°08'28.5600"

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WELL PAD PLAT

RIPLEY 35 FED COM SEC. 35 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

FIELD NOTES DESCRIBING

A tract of land being 5.60 acres. Said tract being located in Section 35, Township 24 South, Range 28 East, New Mexico Principal Meridian, Eddy County, New Mexico.

Being more particularly described by metes and bounds as follows:

BEGINNING at a point from which a 2 inch pipe with GLO cap found for the Southwest corner of said Section 35 bears S $87^\circ49'00''$ W a distance of 3,638.88 feet.

THENCE

N 00°00'13" W a distance of 450.08 feet, S 89°56'26" E a distance of 79.98 feet, S 00°00'12" E a distance of 50.00 feet, N 89°59'09" E a distance of 519.98 feet, S 00°00'07" W a distance of 400.07 feet to the Southeast corner of this tract and S 89°59'43" W a distance of 599.92 feet to the *POINT OF BEGINNING*.

The total area of the herein described tract contains 5.60 acres of land.

All bearings and coordinates refer to NAD 83, New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet. (All bearings, distances, coordinates and areas are based on grid measurements utilizing a combined scale factor of 0.9997778, convergence angle of 0.14126667°.)

Title information furnished by Marathon Oil Permian LLC.

Reference accompanying Certificate of Survey prepared in conjunction with this legal description for easement.

STATE OF NEW MEXICO COUNTY OF EDDY

I, David W. Myers, New Mexico Professional Surveyor No. 11403 do hereby certify that this easement survey plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision: that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico: and that it is true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act and that this instrument is an easement survey plat crossing an existing tract or tracts.

OCTOBER 27, 2022	ON U MELPS
De	
\sim	RORE CUR
DAVID W. MYERS 114	.03 \ WAL -

				-	Marathon Oil Permian LLC	
				plat for a s PR edi	URFACE SITE ON THE PR DEVON ENERGY CODUCTION CO. LP dy county, new mexico	<pre> OPERTY OF .) </pre>
BASIS OF BEARING	LEGEND P.D.B. POINT OF BEGINNIN	NG	R3906_001	10 10/20/2022	RENAME WELLS	ANC MWS
ALL BEARINGS AND CODRDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS AND DISTANCES ARE GRID MEASUREMENTS.)	EXISTING ROAD PROPOSED ROAD SURFACE SITE EDGE SURFACE SITE EDGE EXIST. PIPELINE MONUMENT KEWELL	XX W OHP	ARCH LIMITS FENCE SECTION LINE WATER LINE OVERHEAD POWER	REV. DATE SHEET 4 of 7 DRAWN BY: JCS DATE: 05/16/2011 CHECKED BY: MW	B S DESCRIPTION WEST N FAX	BY CHKD 510 TRENTON ST. IONROE, LA 71291 (318) 323-6900 (318) 362-0064

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MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN

Marathon Oil

WELL NAME & NUMBER:			RIPLEY WC FED	сом	701H	
LOCATION:	SECTION	TION 35 TOWNSHIP		24S RANGE		28E
		EDDY	COUNTY,		NEW MEXICO	

Section 1:

GEOLOGICAL FORMATIONS

Name of Surface Formation: Elevation: Permian 2955 *feet*

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler	89	89	2171	Anhydrite	Brine	No
Salado	750	750	1720	Salt/Anhydrite	Brine	No
Castile	1009	1009	-354	Salt/Anhydrite	Brine	No
Base of Salt (BX)	2688	2688	-2121	Salt/Anhydrite	Brine	No
Lamar	2688	2688	-2121	Sandstone/Shale	None	No
Bell Canyon	2721	2721	-2146	Sandstone	Oil	No
Cherry Canyon	3600	3600	-3446	Sandstone	Oil	No
Brushy Canyon	4880	4880	-4609	Sandstone	Oil	No
Bone Spring Lime	6434	6434	-6055	Limestone	None	No
Upper Avalon Shale	6480	6480	-6093	Shale	Oil	Yes
1st Bone Spring Sand	7357	7357	-7390	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	7633	7633	-7593	Limestone/Shale	None	No
2nd Bone Spring Sand	7980	7980	-7904	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	8612	8612	-8373	Limestone	Oil	No
3rd Bone Spring Sand	9259	9259	-8964	Sandstone	Oil	Yes
Wolfcamp	9626	9626	-9368	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	9773	9773	-9493	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	10065	10065	-9822	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp C	10334	10334	-10140	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp D	10843	10843	-10531	Sandstone/Shale/Carbonates	Natural Gas / Oil	No

Section 2:

BLOWOUT PREVENTER TESTING PROCEDURE

Pressure Rating (PSI): Rating Depth: Equipment:	10M 10000 13 5/8 BOP Annular (5,000 psi WP) and BOP Stack (10,000 psi WP) will be installed and tested before drilling all holes.
Requesting Variance?	Yes
Variance Request:	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Testing Procedure:	BOP/BOPE will be tested to 250 psi low and a high of 100% WP for the Annular and 5,000psi for the BOP Stacking before drilling the intermediate hole, 10,000psi for the BOP Stacking before drilling the production hole. Testing will be conducted by an independent service company per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the Equipment Description above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock, full opening safety valve / inside BOP and choke lines and choke manifold. See attached echometric
	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. See attached schematic.

Marathon Oil Permian LLC.

Section 4:

Drilling & Operations Plan - Page 2 of 4

Section 3:							CASIN	NG PROG	RAM								
String Type	Hole Size	Casing Size	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Weight (lbs/ft)	Grade	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	500	0	500	2955	2455	54.5	J55	BTC	1.00	1.15	BUOY	1.30	BUOY	1.30
Intermediate	12.25	9.625	0	9023	0	8977	2955	-6022	40	P110HC	BTC	1.00	1.15	BUOY	1.30	BUOY	1.30
Production	8.75	5.5	0	19782	0	9650	2955	-6695	23	P110HC	TLW	1.00	1.15	BUOY	1.30	BUOY	1.30
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Safety Factors will Meet or E										Exceed							
Casing Condition: New Casing Standard: API Tapered String? No												Yes c	or No				
Is casing new? If us	ed, attack	n certificat	ion as req	uired in Or	nshore Ord	er #1.										Y	es
Does casing meet A	API specifi	cations? I	f no, attac	h casing sp	pecification	n sheet.										Y	es
Is premium or unco	ommon ca	ising planr	ned? If yes	attach cas	ing specifi	cation she	et.		(1 1:							N	lo
Does the above cas	sing desigi	n meet or	exceed BL	M's minim	um standa	oid approx	t provide ji		n (loading	assumptio	ns, casing	g design cr	iteria).				es
will the internedia	ate pipe be	екергага	mininum	1/3 11010 1	lileu to av			collapse p	ressure ra	iting of the	casing						es
Is well located with	nin Capitar	n Reef?														N	10
If yes, does pr	oduction	casing cen	nent tie ba	ick a minin	num of 50	above the	e Reef?										
Is proposed w	ell within	the design	nated four	string bou	indary?												
Is well located in R	-111-P and	d SOPA?														N	10

Is well located in R-111-P and SOPA?	No
If yes, are the first three strings cemented to surface?	
Is the second string set 100' to 600' below the base of salt?	
Is well located in SOPA but not in R-111-P?	No
If yes, are the first 2 strings cemented to surface and third string cement tied back 500' into previous casing?	
Is well located in high Cave/Karst?	No
If yes, are there two strings cemented to surface?	
If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	No
If yes, are there three strings cemented to surface?	

String Type	Lead/Tail	Top MD	Bottom MD	Quantity (sks)	Yield (ft³/sks)	Density (ppg)	Slurry Volume (ft³)	Excess (%)	Cement Type	Additives
Surface	Lead	0	200	105	2.12	12.5	222	25	Class C	Extender,Accelerator,LCM
Surface	Tail	200	500	197	1.32	14.8	260	25	Class C	Accelerator
Intermediate	Lead	0	8523	1545	2.18	12.4	3368	25	Class C	Extender,Accelerator,LCM
Intermediate	Tail	8523	9023	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	8723	19782	2119	1.68	13	3560	25	Class H	Retarder, Extender, Fluid Loss, Suspension Agent

CEMENT PROGRAM

Stage tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Pilot Hole? Pilot Hole Depth: KOP Depth:		No N/A N/A		Plugging	Procedure for Pilot	Hole: N/A	
Plug Top	Plug Bottom	Excess (%)	Quantity (sx)	Density (ppg)	Yield (ft3/sks)	Water gal/sk	Slurry Description and Cement Type

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Drilling & Operations Plan - Page 3 of 4

Marathon Oil Permian LLC. Section 5:

CIRCULATING MEDIUM

Mud System Type: Will an air or gas system be used? Closed No

Describe what will be on location to control well or mitigate other conditions:

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

Describe the mud monitoring system utilized:

Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

Circulating Medium Table:

Top Depth	Bottom Depth	Mud Type	Min. Weight (ppg)	Max Weight (ppg)
0	500	Water Based Mud	8.4	8.8
500	9023	Brine or Oil Based Mud	9.2	10.2
9023	19782	Oil Based Mud	10.5	12.5

Section 6:

TESTING, LOGGING, CORING

List of production tests including testing procedures, equipment and safety measures:

GR from TD to surface (horizontal well - vertical portion of hole)

List of open and cased hole logs run in the well:

GR while drilling from Intermediate casing shoe to TD.

Coring operation description for the well:

Run gamma-ray (GR) and corrected neutron log (CNL) or analogous to surface for future development of the area, one per shared well pad not to exceed 200' radial distance.

Section 7:	ANTICIP	ATED PRESSURE
Anticipated Bottom Hole Pressure:	6273	PSI
Anticipated Bottom Hole Temperature:	195	°F
Anticipated Abnormal Pressure?	No	
Anticipated Abnormal Temperature?	No	

Potential Hazards:

H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

Section 8:

OTHER INFORMATION

Auxiliary Well Control and Monitoring Equipment:

A Kelly cock will be in the drill string at all times. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.

Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days.





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NOTE:

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Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME) Ripley Fed Com Pad Ripley WC Fed Com 701H

OH

Plan: Plan 1 11-02-22

Standard Planning Report

02 November, 2022



Re

PHOENIX TECHNOLOGY SERVICES	1/10/202	2 12:17:10	6 PM		Phoen Planning R	ix eport			M	Page 20 d IarathonOil Corporation.
Database: Company: Project: Site: Vell: Vellbore: Design:	USA Co Maratho Eddy C Ripley I Ripley V OH Plan 1 1	ompass on Oil Permi ounty, NM (I Fed Com Pa WC Fed Cor 11-02-22	an LLC NAD27-NME Id n 701H	Ξ)	Local Co TVD Ref MD Refe North Ro Survey (o-ordinate R erence: erence: eference: Calculation I	eference: Method:	Well Ripley W0 RKB @ 2978.6 RKB @ 2978.6 Grid Minimum Curv	C Fed Com 7 60usft (Cactu 60usft (Cactu ature	'01H Is 169) Is 169)
Project	Eddy Co	ounty, NM (N	AD27-NME)						
Map System: Seo Datum: Map Zone:	US State NAD 1927 New Mexi	Plane 1927 7 (NADCON ico East 300	(Exact solut CONUS) 1	ion)	System D	atum:	Μ	ean Sea Level		
Site	Ripley F	ed Com Pac	1							
Site Position: From: Position Uncertair	Map nty:	0.00	Norti Easti usft Slot	ning: ng: Radius:	424, 586,	682.84 usft 756.62 usft 13-3/16 "	Latitude: Longitude: Grid Conve	ergence:	1	32° 10' 2.133784 N 04° 3' 10.651717 W 0.149 °
Vell	Ripley W	/C Fed Com	701H							
Vell Position Position Uncertair	+N/-S +E/-W nty	0.00 -25.03 0.00	0 usft N 3 usft E 0 usft W	orthing: asting: /ellhead Elev	vation:	424,682.84 586,731.59	usft La usft Lo Gr	titude: ngitude: ound Level:	1	32° 10' 2.134429 N 04° 3' 10.942920 W 2,955.00 usft
Vellbore	OH									
lagnetics	Mode	el Name	Sampl	e Date	Declina (°)	ation	Dip / (Angle °)	Field S (I	Strength าT)
		MVHD	1:	2/31/2022		6.631		59.779	47,52	5.56827715
Design	Plan 1 1	1-02-22								
udit Notes:										
ersion:			Phas	se:	PLAN	Ti	e On Depth:		0.00	
Vertical Section:		De	pth From (T (usft) 0.00	'VD)	+N/-S (usft) 0.00	+E (u 0	E/-W Isft) .00	Dire 35	ection (°) 9.76	
Plan Survey Tool Depth From (usft)	Program Depth (usft)	Date To) Survey	11/2/2022 (Wellbore)		Tool Name		Remarks			
1 0.00	19,782.	70 Plan 1 ′	11-02-22 (Oł	H)	MWD+HRG OWSG MWI	M D + HRGM				
Plan Sections										
Measured Depth Incli (usft)	nation A (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00 1,300.00	0.00 0.00	0.00 0.00	0.00 1,300.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.000 0.000	

1,815.26 10.31 1,812.49 -40.24 2.00 0.00 240.537 240.54 -22.73 2.00 4,365.02 10.31 240.54 4,321.11 -247.09 -437.38 0.00 0.00 0.00 0.000 4,880.28 0.00 0.00 4,833.60 -269.82 -477.61 2.00 -2.00 0.00 180.000 -269.82 -477.61 0.00 0.00 0.000 9,123.72 0.00 0.00 9,077.04 0.00 303.14 359.760 10,023.72 90.00 359.76 9,650.00 -480.01 10.00 10.00 0.00 19,782.70 90.00 359.76 9,650.00 10,062.03 -520.89 0.00 0.00 0.00 0.000 BHL - Ripley WC Fe

11/2/2022 11:34:43AM



Phoenix Planning Report

Page 21 of 42 MarathonOil Corporation.

Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH	-	
Design:	Plan 1 11-02-22		

Planned Survey

0.00 0.00 0.00 42.60 0.00 <t< th=""><th>00 0.00 0.00 00 0.00 0.00 00 0.00 0.00</th></t<>	00 0.00 0.00 00 0.00 0.00 00 0.00 0.00
Rustler 703.60 0.00 703.60 0.00	00 0.00 0.00
962.60 0.00 0.00 962.60 0.00 0.00 0.00 0.00 0.00 Castile 1,300.00 0.00 0.00 1,300.00 0.00 0.00 0.00 0.00 KOP, Begin 2.00°/100' Build 1,400.00 2.00 240.54 1,399.98 -0.86 -1.52 -0.85 2. 1,500.00 4.00 240.54 1,499.84 -3.43 -6.08 -3.41 2. 1,600.00 6.00 240.54 1,599.45 -7.72 -13.66 -7.66 2. 1,700.00 8.00 240.54 1,698.70 -13.71 -24.27 -13.61 2. 1,800.00 10.00 240.54 1,897.47 -21.41 -37.89 -21.25 2. 1,815.26 10.31 240.54 1,812.49 -22.73 -40.24 -22.56 2. Hold 10.31° Inc at 240.54° Azm 1,900.00 10.31 240.54 1,994.25 -38.99 -69.01 -38.70 0. 2,000.00 10.31 240.54 2,092.63 -47.79 -84.59 -47.43 0. 2,200.00 10.31 240.54 2,191.02 -56.58 -100.16 -56.16 0. 2,300.00 10.31 240.54 2,191.02 -56.58 -100.16 -56.16 0. 2,400.00 10.31 240.54 2,289.41 -65.38 -115.74 -64.90 0. 2,400.00 10.31 240.54 2,289.41 -65.38 -115.74 -64.90 0. 2,500.00 10.31 240.54 2,289.41 -65.38 -115.74 -64.90 0. 2,500.00 10.31 240.54 2,289.41 -65.38 -115.74 -64.90 0. 2,600.00 10.31 240.54 2,289.41 -65.38 -116.74 -64.90 0. 2,500.00 10.31 240.54 2,289.41 -65.38 -116.74 -64.90 0. 2,600.00 10.31 240.54 2,684.57 -91.78 -162.46 -91.10 0. 2,657.97 10.31 240.54 2,674.60 -96.88 -171.49 -96.16 0. Base of Salt (BX) - Lamar 2,691.51 10.31 240.54 2,674.60 -99.83 -176.72 -99.09 0. Bell Canyon 2,700.00 10.31 240.54 2,682.95 -100.58 -178.04 -99.83 0.	
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2,000.00 10.31 240.54 1,994.25 -38.99 -69.01 -38.70 0. 2,100.00 10.31 240.54 2,092.63 -47.79 -84.59 -47.43 0. 2,200.00 10.31 240.54 2,191.02 -56.58 -100.16 -56.16 0. 2,300.00 10.31 240.54 2,289.41 -65.38 -115.74 -64.90 0. 2,400.00 10.31 240.54 2,387.79 -74.18 -131.31 -73.63 0. 2,500.00 10.31 240.54 2,486.18 -82.98 -146.89 -82.37 0. 2,600.00 10.31 240.54 2,584.57 -91.78 -162.46 -91.10 0. 2,657.97 10.31 240.54 2,674.60 -96.88 -171.49 -96.16 0. Base of Salt (BX) - Lamar 2,691.51 10.31 240.54 2,674.60 -99.83 -176.72 -99.09 0. Bell Canyon 2,700.00 10.31 240.54 2,682.95 -100.58 -178.04	.00 0.00 0.00
2,100.00 10.31 240.34 2,092.63 -47.79 -54.39 -47.43 0. 2,200.00 10.31 240.54 2,191.02 -56.58 -100.16 -56.16 0. 2,300.00 10.31 240.54 2,289.41 -65.38 -115.74 -64.90 0. 2,400.00 10.31 240.54 2,387.79 -74.18 -131.31 -73.63 0. 2,500.00 10.31 240.54 2,486.18 -82.98 -146.89 -82.37 0. 2,600.00 10.31 240.54 2,584.57 -91.78 -162.46 -91.10 0. 2,657.97 10.31 240.54 2,641.60 -96.88 -171.49 -96.16 0. 2,691.51 10.31 240.54 2,674.60 -99.83 -176.72 -99.09 0. Bell Canyon 2,700.00 10.31 240.54 2,682.95 -100.58 -178.04 -99.83 0.	00 0.00 0.00
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2,500.00 10.31 240.54 2,486.18 -82.98 -146.89 -82.37 0. 2,600.00 10.31 240.54 2,584.57 -91.78 -162.46 -91.10 0. 2,657.97 10.31 240.54 2,641.60 -96.88 -171.49 -96.16 0. Base of Salt (BX) - Lamar 2,691.51 10.31 240.54 2,674.60 -99.83 -176.72 -99.09 0. Bell Canyon 2,700.00 10.31 240.54 2,682.95 -100.58 -178.04 -99.83 0.	00 0.00 0.00
2,600.00 10.31 240.54 2,584.57 -91.78 -162.46 -91.10 0. 2,657.97 10.31 240.54 2,641.60 -96.88 -171.49 -96.16 0. Base of Salt (BX) - Lamar 2,691.51 10.31 240.54 2,674.60 -99.83 -176.72 -99.09 0. Bell Canyon 2,700.00 10.31 240.54 2,682.95 -100.58 -178.04 -99.83 0.	00 0.00 0.00
Base of Sait (BX) - Lanal 2,691.51 10.31 240.54 2,674.60 -99.83 -176.72 -99.09 0.1 Bell Canyon 2,700.00 10.31 240.54 2,682.95 -100.58 -178.04 -99.83 0.1	00 0.00 0.00 .00 0.00 0.00
2,691.51 10.31 240.54 2,674.60 -99.83 -176.72 -99.09 0. Bell Canyon 2,700.00 10.31 240.54 2,682.95 -100.58 -178.04 -99.83 0.0	
2,700.00 10.31 240.54 2,682.95 -100.58 -178.04 -99.83 0.0	00 0.00 0.00
2,800.0010.31240.542,781.34-109.38-193.62-108.570.12,900.0010.31240.542,879.73-118.18-209.19-117.300.13,000.0010.31240.542,978.12-126.98-224.77-126.030.1	00 0.00 0.00 00 0.00 0.00 00 0.00 0.00 00 0.00 0.00 00 0.00 0.00
3,100.0010.31240.543,076.50-135.78-240.34-134.770.03,200.0010.31240.543,174.89-144.58-255.92-143.500.03,300.0010.31240.543,273.28-153.37-271.49-152.240.03,400.0010.31240.543,371.66-162.17-287.07-160.970.03,500.0010.31240.543,470.05-170.97-302.64-169.700.0	00 0.00 0.00 00 0.00 0.00 .00 0.00 0.00 .00 0.00 0.00 .00 0.00 0.00 .00 0.00 0.00
3,584.92 10.31 240.54 3,553.60 -178.45 -315.87 -177.12 0.4	.00 0.00 0.00
3,600.00 10.31 240.54 3,568.44 -179.77 -318.22 -178.44 0.	.00 0.00 0.00
3,700.00 10.31 240.54 3,666.82 -188.57 -333.80 -187.17 0.1 3,800.00 10.31 240.54 3,765.21 -197.37 -349.37 -195.90 0.1 3,900.00 10.31 240.54 3,863.60 -206.17 -364.95 -204.64 0.1	00 0.00 0.00 .00 0.00 0.00 .00 0.00 0.00
4,000.00 10.31 240.54 3,961.98 -214.97 -380.52 -213.37 0.1 4,100.00 10.31 240.54 4,060.37 -223.77 -396.10 -222.11 0.1 4,200.00 10.31 240.54 4,158.76 -232.57 -411.67 -230.84 0.1 4,300.00 10.31 240.54 4,257.14 -241.37 -427.25 -239.57 0.1 4,365.02 10.31 240.54 4,321.11 -247.09 -437.38 -245.25 0.1	00 0.00 0.00 00 0.00 0.00 00 0.00 0.00 00 0.00 0.00 00 0.00 0.00 00 0.00 0.00 00 0.00 0.00
Begin 2.00 /100 Drop	
4,400.00 9.61 240.54 4,355.57 -250.06 -442.64 -248.21 2.1 4,500.00 7.61 240.54 4,454.44 -257.42 -455.67 -255.51 2.1 4,600.00 5.61 240.54 4,553.77 -263.08 -465.68 -261.13 2.1 4,700.00 3.61 240.54 4,653.44 -267.03 -472.67 -265.05 2.1	00 -2.00 0.00 .00 -2.00 0.00 .00 -2.00 0.00

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COMPASS 5000.15 Build 93A



Phoenix Planning Report

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Database: Company: Project:	USA Compass Marathon Oil Permian LLC Eddy County, NM (NAD27-NME)	Local Co-ordinate Reference: TVD Reference:	Well Ripley WC Fed Com 701H RKB @ 2978.60usft (Cactus 169) RKB @ 2978.60usft (Cactus 169)
Site: Well:	Ripley Fed Com Pad Ripley WC Fed Com 701H	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore: Design:	OH Plan 1 11-02-22		

Planned 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)
4,800.00	1.61	240.54	4,753.33	-269.26	-476.63	-267.27	2.00	-2.00	0.00
4,880.28	0.00	0.00	4,833.60	-269.82	-477.61	-267.81	2.00	-2.00	0.00
6,434.28	ical Hold - Bru 0.00	ushy Canyon 0.00	6,387.60	-269.82	-477.61	-267.81	0.00	0.00	0.00
Bone Sprii 6,480.28	ng Lime 0.00	0.00	6,433.60	-269.82	-477.61	-267.81	0.00	0.00	0.00
Upper Ava	Ion Shale	0.00	7 0 4 0 00	000.00	477.04	007.04	0.00	0.00	0.00
7,357.28 1st Bone S	0.00 Spring Sand	0.00	7,310.60	-269.82	-477.61	-267.81	0.00	0.00	0.00
7,633.28	0.00	0.00	7,586.60	-269.82	-477.61	-267.81	0.00	0.00	0.00
2nd Bone	Spring Carbo	nate							
7,980.28	0.00	0.00	7,933.60	-269.82	-477.61	-267.81	0.00	0.00	0.00
8 612 28	Spring Sand	0.00	8 565 60	-269 82	-477 61	-267 81	0.00	0.00	0.00
3rd Bone S	Spring Carbon	ate	0,000.00	200.02		201101	0.00	0.00	0.00
9,123.72	0.00	0.00	9,077.04	-269.82	-477.61	-267.81	0.00	0.00	0.00
KOP2, Beg	jin 10.00°/100'	Build	0 150 40	064 75	477.00	000 74	40.00	40.00	0.00
9,200.00 9,260.58	7.63 13.69	359.76 359.76	9,153.10 9,212.60	-264.75 -253.55	-477.63 -477.68	-262.74 -251.55	10.00 10.00	10.00 10.00	0.00
3rd Bone S	Spring Sand		,						
9,300.00 9,400.00	17.63 27.63	359.76 359.76	9,250.55 9.342.74	-242.91 -204.49	-477.72 -477.89	-240.91 -202.48	10.00 10.00	10.00 10.00	0.00
9,500.00	37.63	359.76	9,426.85	-150.64	-478.11	-148.63	10.00	10.00	0.00
9,600.00	47.63	359.76	9,500.33	-83.00	-478.39	-81.00	10.00	10.00	0.00
9,700.00	57.63	359.76	9,560.96	-3.63	-478.73	-1.63	10.00	10.00	0.00
9,736.70 Wolfcamp	61.30	359.76	9,579.60	27.97	-478.86	29.98	10.00	10.00	0.00
9,800.00	67.63	359.76	9,606.87	85.06	-479.10	87.06	10.00	10.00	0.00
9,900.00	77.63	359.76	9,636.69	180.38	-479.50	182.38	10.00	10.00	0.00
10,000.00	87.63	359.76 359.76	9,649.51 9,650.00	279.42	-479.91 -480.01	281.43	10.00	10.00	0.00
LP, Hold 9	0.00° Inc at 35	9.76° Azm	9,030.00	505.14	-400.01	505.14	10.00	10.00	0.00
10,100.00	90.00	359.76	9,650.00	379.41	-480.33	381.42	0.00	0.00	0.00
10,200.00	90.00	359.76	9,650.00	479.41	-480.75	481.42	0.00	0.00	0.00
10,300.00	90.00	359.76	9,650.00	579.41	-481.17	581.42	0.00	0.00	0.00
10,400.00	90.00 90.00	359.76 359.76	9,650.00 9,650.00	079.41 779.41	-481.59 -482.01	781.42	0.00	0.00	0.00
10,600.00	90.00	359.76	9,650.00	879.41	-482.43	881.42	0.00	0.00	0.00
10,700.00	90.00	359.76	9,650.00	979.41	-482.84	981.42	0.00	0.00	0.00
10,800.00	90.00	359.76	9,650.00	1,079.41	-483.26	1,081.42	0.00	0.00	0.00
10,900.00	90.00 an no	359.76 350 76	9,650.00	1,179.41 1 270 / 1	-483.68 -484.10	1,181.42 1 281 42	0.00	0.00	0.00
11 100 00	00.00 00.00	350 76	9,000.00	1 370 41	-484 52	1 381 42	0.00	0.00	0.00
11,200.00	90.00	359.76	9,650.00	1,479.40	-484.94	1,481.42	0.00	0.00	0.00
11,300.00	90.00	359.76	9,650.00	1,579.40	-485.36	1,581.42	0.00	0.00	0.00
11,400.00	90.00	359.76	9,650.00	1,679.40	-485.78	1,681.42	0.00	0.00	0.00
11,500.00	90.00	359.76	9,650.00	1,779.40	-486.20	1,781.42	0.00	0.00	0.00
11,600.00 11,700.00	90.00	359.76	9,650.00	1,879.40 1 979 70	-486.61 -487.02	1,881.42	0.00	0.00	0.00
11.800.00	90.00	359.76	9.650.00	2.079.40	-487.45	2.081.42	0.00	0.00	0.00
11,900.00	90.00	359.76	9,650.00	2,179.40	-487.87	2,181.42	0.00	0.00	0.00
12,000.00	90.00	359.76	9,650.00	2,279.40	-488.29	2,281.42	0.00	0.00	0.00

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COMPASS 5000.15 Build 93A



Phoenix Planning Report

Page 23 of 42 MarathonOil Corporation.

Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH	-	
Design:	Plan 1 11-02-22		

Planned 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)
12,100.00 12,200.00 12,300.00 12,400.00 12,500.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	2,379.40 2,479.40 2,579.40 2,679.39 2,779.39	-488.71 -489.13 -489.55 -489.97 -490.38	2,381.42 2,481.42 2,581.42 2,681.42 2,781.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
12,600.00 12,700.00 12,800.00 12,900.00 13,000.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	2,879.39 2,979.39 3,079.39 3,179.39 3,279.39	-490.80 -491.22 -491.64 -492.06 -492.48	2,881.42 2,981.42 3,081.42 3,181.42 3,281.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,100.00 13,200.00 13,300.00 13,400.00 13,500.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	3,379.39 3,479.39 3,579.39 3,679.39 3,779.38	-492.90 -493.32 -493.74 -494.15 -494.57	3,381.42 3,481.42 3,581.42 3,681.42 3,781.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,600.00 13,700.00 13,800.00 13,900.00 14,000.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	3,879.38 3,979.38 4,079.38 4,179.38 4,279.38	-494.99 -495.41 -495.83 -496.25 -496.67	3,881.42 3,981.42 4,081.42 4,181.42 4,281.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
14,100.00 14,200.00 14,300.00 14,400.00 14,500.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	4,379.38 4,479.38 4,579.38 4,679.38 4,779.38	-497.09 -497.51 -497.92 -498.34 -498.76	4,381.42 4,481.42 4,581.42 4,681.42 4,781.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
14,600.00 14,700.00 14,800.00 14,900.00 15,000.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	4,879.38 4,979.37 5,079.37 5,179.37 5,279.37	-499.18 -499.60 -500.02 -500.44 -500.86	4,881.42 4,981.42 5,081.42 5,181.42 5,281.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,100.00 15,200.00 15,300.00 15,400.00 15,500.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	5,379.37 5,479.37 5,579.37 5,679.37 5,779.37	-501.28 -501.69 -502.11 -502.53 -502.95	5,381.42 5,481.42 5,581.42 5,681.42 5,781.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,600.00 15,700.00 15,800.00 15,900.00 16,000.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	5,879.37 5,979.37 6,079.36 6,179.36 6,279.36	-503.37 -503.79 -504.21 -504.63 -505.05	5,881.42 5,981.42 6,081.42 6,181.42 6,281.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,100.00 16,200.00 16,300.00 16,400.00 16,500.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	6,379.36 6,479.36 6,579.36 6,679.36 6,779.36	-505.46 -505.88 -506.30 -506.72 -507.14	6,381.42 6,481.42 6,581.42 6,681.42 6,781.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,600.00 16,700.00 16,800.00 16,900.00 17,000.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	6,879.36 6,979.36 7,079.36 7,179.36 7,279.35	-507.56 -507.98 -508.40 -508.82 -509.23	6,881.42 6,981.42 7,081.42 7,181.42 7,281.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
17,100.00 17,200.00 17,300.00 17,400.00	90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00	7,379.35 7,479.35 7,579.35 7,679.35	-509.65 -510.07 -510.49 -510.91	7,381.42 7,481.42 7,581.42 7,681.42	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

11/2/2022 11:34:43AM

Page 5

COMPASS 5000.15 Build 93A



Phoenix Planning Report

Page 24 of 42 **MarathonOil** Corporation.

Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН	-	
Design:	Plan 1 11-02-22		

Planned 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)
17,500.00	90.00	359.76	9,650.00	7,779.35	-511.33	7,781.42	0.00	0.00	0.00
17,600.00 17,700.00 17,800.00 17,900.00 18,000.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	7,879.35 7,979.35 8,079.35 8,179.35 8,279.35	-511.75 -512.17 -512.58 -513.00 -513.42	7,881.42 7,981.42 8,081.42 8,181.42 8,281.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,100.00 18,200.00 18,300.00 18,400.00 18,500.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	8,379.34 8,479.34 8,579.34 8,679.34 8,779.34	-513.84 -514.26 -514.68 -515.10 -515.52	8,381.42 8,481.42 8,581.42 8,681.42 8,781.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
18,600.00 18,700.00 18,800.00 18,900.00 19,000.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	8,879.34 8,979.34 9,079.34 9,179.34 9,279.34	-515.94 -516.35 -516.77 -517.19 -517.61	8,881.42 8,981.42 9,081.42 9,181.42 9,281.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
19,100.00 19,200.00 19,300.00 19,400.00 19,500.00	90.00 90.00 90.00 90.00 90.00	359.76 359.76 359.76 359.76 359.76	9,650.00 9,650.00 9,650.00 9,650.00 9,650.00	9,379.34 9,479.33 9,579.33 9,679.33 9,779.33	-518.03 -518.45 -518.87 -519.29 -519.71	9,381.42 9,481.42 9,581.42 9,681.42 9,781.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
19,600.00 19,700.00 19,782.70	90.00 90.00 90.00	359.76 359.76 359.76	9,650.00 9,650.00 9,650.00	9,879.33 9,979.33 10,062.03	-520.12 -520.54 -520.89	9,881.42 9,981.42 10,064.12	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
TD at 19782	70								

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
FTP - Ripley WC Fed - plan misses targ - Point	0.00 et center by 2	0.00 280.01usft	4,833.60 at 4878.37	10.18 usft MD (483	-479.06 1.69 TVD, -2	424,693.02 269.82 N, -477.61	586,252.53 E)	32° 10' 2.247488 N 0	04° 3' 16.516060 W

BHL - Ripley WC Fed 0.00 359.76 9,650 - plan hits target center - Rectangle (sides W100.00 H10,051.94 D0.00) 359.76 9,650.00 10,062.03 -520.89 434,744.87 586,210.7032° 11' 41.725024 N 04° 3' 16.699754 W



Phoenix Planning Report

Page 25 of 42 MarathonOil Corporation.

Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-02-22		

Formations

Measured Depth (usft)	d Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
42.6	60 42.60	Rustler		0.000	359.76
703.6	0 703.60	Salado		0.000	359.76
962.6	962.60	Castile		0.000	359.76
2,657.9	2,641.60	Base of Salt (BX)		0.000	359.76
2,657.9	2,641.60	Lamar		0.000	359.76
2,691.5	2,674.60	Bell Canyon		0.000	359.76
3,584.9	3,553.60	Cherry Canyon		0.000	359.76
4,880.2	4,833.60	Brushy Canyon		0.000	359.76
6,434.2	6,387.60	Bone Spring Lime		0.000	359.76
6,480.2	6,433.60	Upper Avalon Shale		0.000	359.76
7,357.2	7,310.60	1st Bone Spring Sand		0.000	359.76
7,633.2	7,586.60	2nd Bone Spring Carbonate		0.000	359.76
7,980.2	7,933.60	2nd Bone Spring Sand		0.000	359.76
8,612.2	8 8,565.60	3rd Bone Spring Carbonate		0.000	359.76
9,260.5	9,212.60	3rd Bone Spring Sand		0.000	359.76
9,736.7	9,579.60	Wolfcamp		0.000	359.76

Plan Annotations

Measur Depti (usft)	ed Vertica Depth (usft)	I Local C +N/-S (usft)	oordinates +E/-W (usft)	Comment
1,300	.00 1,300.	00.00	0.0	0 KOP, Begin 2.00°/100' Build
1,815	.26 1,812.	49 -22.73	-40.24	4 Hold 10.31° Inc at 240.54° Azm
4,365	.02 4,321.	11 -247.09	-437.38	8 Begin 2.00°/100' Drop
4,880	.28 4,833.	60 -269.82	-477.6	1 Begin Vertical Hold
9,123	.72 9,077.	-269.82	-477.6	1 KOP2, Begin 10.00°/100' Build
10,023	.72 9,650.	00 303.14	-480.0	1 LP, Hold 90.00° Inc at 359.76° Azm
19,782	.70 9,650.	00 10,062.03	-520.89	9 TD at 19782.70



Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME) Ripley Fed Com Pad Ripley WC Fed Com 701H

OH Plan 1 11-02-22

Anticollision Report

02 November, 2022



PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Page 27 of 42 MarathonOil Corporation.

Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum
r			
Reference	Plan 1 11-02-22		

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria										
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA							
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D							
Results Limited by:	Max. Cent. Dist. of 1,000.00usft or Max. SF of 4	Error Surface:	Pedal Curve							
Warning Levels Evaluate	d at: 2.00 Sigma	Casing Method:	Not applied							

Survey Tool Program		Date 11/2/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,782.70	Plan 1 11-02-22 (OH)	MWD+HRGM	OWSG MWD + HRGM

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
Paul 25-24S-28E RB						
221H - OH / Job 1610177 - Surveys (Patterson 297)						Out of range
Ripley Fed Com Pad						
Ripley BS Fed Com 301H - OH - Plan 1 11-02-22 Ripley BS Fed Com 301H - OH - Plan 1 11-02-22 Ripley BS Fed Com 501H - OH - Plan 1 11-02-22 Ripley BS Fed Com 501H - OH - Plan 1 11-02-22 Ripley BS Fed Com 501H - OH - Plan 1 11-02-22 Ripley WC Fed Com 702H - OH - Plan 1 11-02-22 Ripley WC Fed Com 702H - OH - Plan 1 11-02-22 Ripley WC Fed Com 801H - OH - Plan 1 11-02-22 Ripley WC Fed Com 801H - OH - Plan 1 11-02-22 Ripley WC Fed Com 801H - OH - Plan 1 11-02-22 Ripley WC Fed Com 801H - OH - Plan 1 11-02-22	1,300.01 1,400.00 1,300.00 1,500.00 1,800.00 1,300.00 19,782.70 1,300.00 1,400.00 1,500.00	1,300.04 1,400.19 1,300.00 1,496.68 1,791.54 1,300.00 19,748.32 1,300.00 1,399.13 1,498.20	25.03 26.20 50.06 50.62 54.31 50.06 890.21 25.03 25.27 26.15	16.36 17.11 41.39 40.94 43.17 41.39 596.91 16.36 16.06 16.46	2.886 2.882 5.773 5.229 4.875 5.773 3.035 2.887 2.746 2.700	CC, ES SF CC ES SF CC, ES SF CC ES SF
Ripley Fed Com Pad - Offsets						
Rock Spur 26 Fee Com - OH - OH						Out of range

Offset Design Ripley Fed Com Pad - Ripley BS Fed Com 301H - OH - Plan 1 11-02-22														
Children De	orgin.												Offset Site Error:	0.00 usft
Survey Prog Refe	ram: 0- rence	-MWD+HRGM Off	set	Semi M	/laior Axis		Offset Wellbo	ore Centre	Dis	Rule Assi tance	gned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Too l face (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.03	0.00	0.00	0.00	90.000	0.00	25.03	25.03					
100.00	100.00	100.03	100.00	0.53	0.53	90.000	0.00	25.03	25.03	23.96	1.07	23,480		
200.00	200.00	200.03	200.00	1.32	1.32	90.000	0.00	25.03	25.03	22.38	2.65	9.450		
300.00	300.00	300.03	300.00	1.80	1.80	90.000	0.00	25.03	25.03	21.43	3.60	6.956		
400.00	400.00	400.03	400.00	2.18	2.18	90.000	0.00	25.03	25.03	20.68	4.35	5.752		
500.00	500.00	500.03	500.00	2.50	2.50	90.000	0.00	25.03	25.03	20.03	5.00	5.009		
600.00	600.00	600.03	600.00	2.79	2.79	90.000	0.00	25.03	25.03	19.46	5.57	4.491		
700.00	700.00	700.03	700.00	3.05	3.05	90.000	0.00	25.03	25.03	18.93	6.10	4.103		
800.00	800.00	800.03	800.00	3.29	3.29	90.000	0.00	25.03	25.03	18.44	6.59	3.799		
900.00	900.00	900.03	900.00	3.52	3.52	90.000	0.00	25.03	25.03	17.98	7.05	3.552		
1,000.00	1,000.00	1,000.03	1,000.00	3.74	3.74	90.000	0.00	25.03	25.03	17.55	7.48	3.346		
1,100.00	1,100.00	1,100.03	1,100.00	3.95	3.95	90.000	0.00	25.03	25.03	17.14	7.89	3.171		
			CC - Min	centre to ce	nter dista	nce or cove	raent point. SF	- min sepa	ration facto	or. ES - mi	n ellipse se	paration		

PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil

Offset Site Error:

Corporation.

0.00 usft

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Marathon Oil Permian LLC Well Ripley WC Fed Com 701H Company: Local Co-ordinate Reference: TVD Reference: Project: Eddy County, NM (NAD27-NME) RKB @ 2978.60usft (Cactus 169) Reference Site: Ripley Fed Com Pad RKB @ 2978.60usft (Cactus 169) MD Reference: Site Error: 0.00 usft North Reference: Grid Reference Well: Ripley WC Fed Com 701H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma USA Compass **Reference Wellbore** ΟН Database: Plan 1 11-02-22 Offset TVD Reference: Reference Datum Reference Design:

Offset Design: Ripley Fed Com Pad - Ripley BS Fed Com 301H - OH - Plan 1 11-02-22

Number Numer Numer Numer <th>Survey Progra</th> <th>am: 0-</th> <th>MWD+HRGM</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Rule Assig</th> <th>gned:</th> <th></th> <th>Offset Well Error:</th> <th>0.00 usft</th>	Survey Progra	am: 0-	MWD+HRGM								Rule Assig	gned:		Offset Well Error:	0.00 usft
pipeling	Refer Measured	ence Vertical	Off: Measured	set Vertical	Semi M Reference	lajor Axis Offset	Highside	Offset Wellbo	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
10000 100000 100000 100000	Depth (usft)	Depth (usft)	Depth (usff)	Depth (usft)	(usft)	(usft)	Toolface (°)	+iv/-5 (usft)	+E/-VV (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
13030 13000 13000 14000 10000 16000 1600 16000	1 200 00	1 200 00	1 200 03	1 200 00	4 15	4 15	90,000	0.00	25.03	25.03	16.74	8 29	3 019		
1300 1300 1400 4001 440 44 44 6400 4400 440 <	1,300.00	1,300.00	1,300.03	1.300.00	4.34	4.34	90.000	0.00	25.03	25.03	16.36	8.67	2,886		
1440.0 1392.0 1400.1 1400.4 440 44.84 4.44.84 2.44.7 2.44.7 2.40.7 2.40.8 3.40.7 3.40.8 4.40.8 3.40.8 1500.00 1599.4 1.000.01 1599.4 1.000.01 1599.4 1.000.01	1,300.01	1,300.01	1,300.04	1,300.01	4.34	4.34	90.000	0.00	25.03	25.03	16.36	8.67	2.886 CC, ES		
1.60.0.1 1.64.4 1.02.0.1 5.00.0.0 4.64 4.05.4 2.16.9 2.02.0 2.6.5 8.7.2 3.73 1.00.0.1 1.64.70 1.02.05 1.64.81 1.01.2 4.64.1 1.52.2 1.01.0 4.64.1 1.00.0.1 1.77.20 1.70.20 1.64.95 1.64.9 1.64.9 1.64.9 1.64.9 1.00.0.1 1.64.74 1.64.00 1.02.25 6.64 6.64 1.64.9	1,400.00	1,399.98	1,400.19	1,400.14	4.62	4.61	-148.656	-1.71	24.67	26.20	17.11	9.09	2.882 SF		
15000 15040 15040 4.0 4.0 1400 218 9.2 2.55 9.72 3.73 170200 16077 17020 16072 17020 4.0 4.0 4.0 3.10 17020 4.0 3.00	1,500.00	1,499.84	1,500.23	1,500.03	4.89	4.88	-143.925	-6.84	23.59	29.86	20.40	9.46	3.158		
1,7200 1,990,0	1,600.00	1,599.45	1,600.01	1,599.48	5.18	4.98	-138.911	-14.93	21.88	36.27	26.55	9.72	3.733		
17.00.00 1.00.00 1.00.00 4.44 3.0.0 4.44 3.0.0 4.44 18.00.00 1.07.00 1.07.00 4.44 3.0.0 4.44 3.0.0 4.44 18.00.00 1.07.00 1.07.00 6.04 4.64 4.00 5.0.0 5.044 2.00.00 1.04.02 0.00.0 5.0.0 5.0.0 5.0.0 5.0.0 2.00.00 1.04.02 0.00.0 5.0.0 6.0.0 4.0.0 6.0.0 5.0.0 2.00.00 2.00.01 2.00.01 0.00.0 6.0.0 4.0.0 4.0.0 4.0.0 6.0.0															
1800 127747 17983 17978 5.81 5.81 5.84 -1100 1100 52.0 44.03 10.00 5.84 11000 1260.0 1367.0 1696.2 6.04 5.64 4.05 1100 52.0 10.06 6.643 20000 1366.0 1367.1 1696.2 6.03 6.04 -44.04 -4.03 14.02 5.00 10.06 6.643 20000 1366.0 127.02 6.06 6.47 -14.64.14 -74.14 5.30 10.74 10.08 10.14 10.09 20000 2369.1 2.306.02 7.29 6.70 -14.61.14 -74.14 5.30 10.24 11.23 12.64 10.08 10.14 10.09 10.08 10.14 10.09 10.08 10.14 10.09 10.08 10.14 10.09 10.08 10.14 10.09 10.08 10.14 10.09 10.08 10.14 10.09 10.09 10.09 10.09 10.09 10.09 10.09 10.09 10.09 10.09 10.09 10.09 10.09 10.0	1,700.00	1,698.70	1,699.59	1,698.67	5.49	5.19	-137.905	-23.43	20.09	45.41	35.32	10.10	4.498		
1812.0 1912.40 1912.80 2.44 2.44 2.41.94 19.12.9 2.40.92 5.0.00	1,800.00	1,797.47	1,798.88	1,797.58	5.81	5.41	-139.546	-31.90	18.30	57.17	46.65	10.52	5.434		
100.00 199.5.3 199.5.3 0.44 5.55 141.5.9 1.40.3 1.40.7 14.7.4 1.22 7.20 11.31 7.407 2100.00 199.5.5 199.5.5 199.5.2 109.5.6 109.5.5 11.77 11.71 11.72 11.72 11.74 11.72 11.71 11.72 11.71 11.72 11.72 11.72 11.72 11.72 11.79 <td>1,815.26</td> <td>1,812.49</td> <td>1,814.00</td> <td>1,812.65</td> <td>5.84</td> <td>5.45</td> <td>-139.924</td> <td>-33.19</td> <td>18.03</td> <td>59.20</td> <td>48.63</td> <td>10.56</td> <td>5.603</td> <td></td> <td></td>	1,815.26	1,812.49	1,814.00	1,812.65	5.84	5.45	-139.924	-33.19	18.03	59.20	48.63	10.56	5.603		
2.0000 1.0000 2.0000 1.0000 2.00000 1.0000	1,900.00	1,895.86	1,897.92	1,896.25	6.04	5.66	-141.859	-40.34	16.52	70.69	59.80	10.89	6.493		
2.002.8 2.004.9 2.004.0 1.004.0	2,000.00	1,994.25	1,996.97	1,994.92	6.33	5.91	-143.462	-48.79	14.74	84.32	73.01	11.31	7.457		
2.191.02 2.191.02 2.192.00 2.192.00 2.192.00 2.192.00 9.196 2.800.00 2.887.17 2.381.41 2.380.86 7.64 7.60 -147.546 4.92.9 1.92.44 112.76 193.53 112.12 2.800.00 2.887.17 2.881.23 2.886.28 0.37 7.68 -147.546 4.96.48 4.25 196.37 152.58 14.13 11.799 2.700.00 2.864.57 2.881.28 0.37 7.68 -147.546 4.96.48 4.25 196.37 152.58 14.13 11.799 2.700.00 2.764.27 2.868.28 0.33 6.68 -146.373 -144.25 175.60 165.64 146.35 150.21 13.020 2.000.00 2.777.12 2.878.49 1.033 6.86 -146.373 -144.25 175.85 167.31 16.021 13.021 2.000.00 2.777.50 10.51 2.869.29 17.03 14.24 17.72 14.44 14.39 14.39 14.37 14.31 14.37 3.000.00 2.777.50 10.51 2.869.29 <t< td=""><td>2,100.00</td><td>2,092.63</td><td>2,096.01</td><td>2,093.59</td><td>6.63</td><td>6.18</td><td>-144.619</td><td>-57.24</td><td>12.96</td><td>98.00</td><td>86.26</td><td>11.75</td><td>8.344</td><td></td><td></td></t<>	2,100.00	2,092.63	2,096.01	2,093.59	6.63	6.18	-144.619	-57.24	12.96	98.00	86.26	11.75	8.344		
2.300.0 2.89.41 2.89.40 2.39.88 7.3 6.7 -14.17 -7.4.14 9.39 12.24 12.34 13.44 10.49 2.400.0 2.84.18 2.48.18 2.48.28 8.00 7.37 -147.17 -9.103 5.53 152.44 133.41 13.03 11.23 2.000.0 2.64.57 2.69.13 2.68.02 6.37 7.68 -147.546 -40.44 4.05 160.7 162.58 14.13 11.79 2.000.0 2.67.73 2.68.02 8.03 -144.137 -116.88 0.48 142.32 15.66 11.237 3.000.0 2.677.13 2.784.15 2.842.1 6.53 6.68 -144.573 -14.68 123.55 2.16.57 16.73 14.431 3.000.0 2.077.49 3.84.9 3.7759 10.14 6.84 -144.573 -14.61 2.35.55 2.16.37 14.431 3.000.0 3.074.8 3.084.9 3.777.9 11.48 10.27 -14.637 2.25.54 2.86.6 16.31 16.37 3.0000.0 3.074.9 3.084.9 <td>2,200.00</td> <td>2,191.02</td> <td>2,195.05</td> <td>2,192.25</td> <td>6.95</td> <td>6.47</td> <td>-145.492</td> <td>-65.69</td> <td>11.17</td> <td>111.71</td> <td>99.52</td> <td>12.20</td> <td>9.158</td> <td></td> <td></td>	2,200.00	2,191.02	2,195.05	2,192.25	6.95	6.47	-145.492	-65.69	11.17	111.71	99.52	12.20	9.158		
4.400.0 2.87.7 2.89.41 2.49.54 7.44 7.64 19.0 12.0.65 1.1.4 10.62 2.600.0 2.69.457 2.69.27 2.69.62 8.67 7.60 -447.264 -19.43 10.53 11.221 2.000.0 2.69.457 2.69.27 2.69.58 8.77 10.0 -447.364 -197.43 2.26 108.47 14.43 11.231 2.000.00 2.677.7 2.88.58 2.89.27 2.685.58 8.77 10.0 -447.364 -197.43 2.26 100.54 14.43 11.231 2.000.00 2.677.7 2.88.68 2.89.21 0.03 4.49.50 -13.37 -1.63 2.16.6 10.33 1.46.75 3.000.00 3.075.0 3.09.44 3.09.02 3.076.4 1.10.8 1.44.93 -1.10.8 1.20.8 1.13.63 1.14.14 1.14.91 3.000.00 3.075.4 3.09.44 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 3.09.04 <	2,300.00	2,289.41	2,294.10	2,290.92	7.29	6.76	-146.174	-74.14	9.39	125.44	112.78	12.66	9.906		
2.8000 2.48.18 2.48.28 8.00 7.37 -471.17 -9.103 0.83 192.44 193.31 19.83 11.211 2.800.00 2.86.47 2.501.23 2.864.29 8.37 7.86 -472.64 -470.44 4.00 160.47 162.86 14.43 1.1232 2.800.00 2.767.13 2.768.31 2.764.32 2.764.31 2.764.32 1.761.01 15.16 1.327 3.0000 2.677.17 2.868.30 0.802.51 10.33 4.46.137 1.14.84 -1.30.00 2.176.11 1.16.81 1.2022 3.0000 2.577.12 2.864.30 0.802.51 10.33 4.46.137 1.14.84 -1.30.07 2.87.10 1.77.11 1.44.11 3.0000 2.371.80 3.387.87 3.377.81 11.15 1.027 -440.07 -1.021 2.77.82 1.83.1 1.03.11 3.0000 3.371.86 3.378.75 11.19 1.027 -440.22 -17.52 -11.99 2.90.60 1.83.41 1.50.71 3.0000 2.371.86 3.57.56 1.70.41 1.60.66 -1	2,400.00	2,387.79	2,393.14	2,389.58	7.64	7.06	-146.722	-82.59	7.61	139.19	126.05	13.14	10.592		
2,000.0 2,84.57 2,91.23 2,080.02 3.67 7.68 1.47,444 -107,38 2.28 106,70 162,54 14.33 11.789 2,000.00 2,787.12 2,888.36 2,882.91 9.83 8.66 1.44.37 1.16.38 0.44 104,25 179.10 15.15 13.232 2,000.00 2,787.12 2,888.36 2,888.39 2,888.39 2,888.39 2,888.39 2,888.39 1,83.37 -1,48.89 -1,33.27 -2,08 25.56 16.57 13.573 3,000.00 3,774.89 3,174.91 10,14 40.82 1160.17 4.655 248.34 17,27 14.44 3,000.00 3,774.89 3,774.84 11.86 10,37 144.023 -118.02 4.45.15 248.34 17,27 14.44 3,000.00 3,774.84 3,774.84 11.86 10,37 +44.923 -118.02 4.55.8 18.38 15.307 3,000.00 3,776.94 3,772.44 11.40 1.44.977 -20.691 -17.74 30.20.37 21.14 18.308 15.307 3,000.00	2,500.00	2,486.18	2,492.18	2,488.25	8.00	7.37	-147.171	-91.03	5.83	152.94	139.31	13.63	11.221		
2.800.00 2.884.57 2.881.25 1.8.38 1.481.37 -1.483.26 -1.91.77 -2.080 2.21.80 2.05.60 16.20 1.5.891 3.000000 3.075.16 3.085.7 8.00 -1.483.26 -1.90.7 -0.6.4 2.82.10 17.7.21 1.4.411 3.000000 3.076.16 3.085.77 3.077.44 11.55 10.37 -1.48.222 -1.15.92 2.11.02 2.81.80 1.6.81 1.6.81 3.000000 3.684.44 3.81.86 3.072.44 11.43 -1.48.222 -1.15.92 2.11.27 1.4.41 1.5.61.3 1.															
2,0000 2,084,05 2,080,07 2,080,07 2,080,07 2,080,07 2,080,07 2,080,07 2,080,07 2,080,07 2,080,07 1,0,243 1,0,2	2,600.00	2,584.57	2,591.23	2,586.92	8.37	7.68	-147.546	-99.48	4.05	166.70	152.58	14.13	11.799		
2.800.00 2.871.40 2.882.51 9.13 8.33 -148.137 -116.38 0.48 194.25 1/18.05 112.22 3.000.00 2.878.12 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 2.887.40 3.868.44 3.080.25 10.33 9.34 -148.880 -133.27 -3.08 2.218.60 208.60 16.27 14.441 3.000.00 3.277.46 3.187.64 3.178.91 10.02 -148.880 -161.07 -0.66 2.435.10 2.221.00 1.227 14.441 3.000.00 3.274.64 3.377.85 11.16 10.07 -148.203 -115.52 -11.99 2.00.20 15.000 3.000.00 3.882.61 3.877.85 3.246.91 1.240 -1.15.55 318.31 2.82.76 2.11.44 16.364 3.000.00 3.886.00 3.877.85 3.866.01 1.45.55 12.647 -148.800 -155.57 16.475 3.000.00 3.886.00 3.877.85 3.866.01	2,700.00	2,682.95	2,690.27	2,685.58	8.75	8.00	-147.864	-107.93	2.26	180.47	165.84	14.63	12.332		
2.90000 2.97.3 2.888.30 2.888.30 2.888.30 2.888.30 2.888.30 2.888.30 2.888.30 2.888.30 1.86.43 1.82.73 3.00000 3.076.50 3.086.44 3.080.25 10.33 9.34 -148.783 -141.72 -4.86 235.88 216.85 16.73 14.081 3.00000 3.077.68 3.185.49 3.178.41 10.74 8.88 -148.028 -168.07 -6.63 246.33 727.82 1.64.41 3.00000 3.371.66 3.883.67 3.376.41 11.86 10.27 -148.022 -167.77 -10.21 277.82 1.64.61 15.649 3.00000 3.070.65 3.422.41 1.186 1.48.28 -124.1 -15.55 318.31 286.26 18.46 15.649 3.00000 3.076.81 3.077.81 11.48 -148.282 -124.1 -15.55 313.31 286.27 18.46 15.649 3.00000 3.076.81 3.077.81 3.086.71 1.388 1.148 -148.190 -124.1 -15.55 313.61 25.07 1.50.03 33.080.03	2,800.00	2,781.34	2,789.31	2,784.25	9.13	8.33	-148.137	-116.38	0.48	194.25	1/9.10	15.15	12.822		
3,000,0 2,987,42 2,987,40 2,987,40 2,987,40 2,987,40 2,987,40 2,987,40 2,987,40 2,987,40 1,989 3,100,00 3,075,52 3,086,44 3,075,21 10,44 4,68 -148,276 -148,172 -4,686 2,923,75 11,15 10,37 14,441 3,000,00 3,2773,28 3,276,24 3,277,08 11,15 10,07 -148,322 -175,52 -11,99 296,73 271,82 18,99 15,507 3,600,00 3,686,44 3,581,66 3,673,78 12,240 11,08 -148,322 -175,52 -11,99 296,73 271,82 18,99 15,503 3,600,00 3,686,44 3,581,66 3,673,74 13,28 12,40 11,08 -148,479 -12,21 276,84 19,42 15,503 3,600,00 3,686,47 3,581,68 3,677,79 3,779,41 13,28 11,79 -146,479 -92,470 371,43 20,571 16,442 3,000,00 3,686,47 4,666,91 14,459 12,891 -44,813 15,12 22,86 16,977 24,48 <td>2,900.00</td> <td>2,879.73</td> <td>2,888.36</td> <td>2,882.91</td> <td>9.53</td> <td>8.66</td> <td>-148.373</td> <td>-124.83</td> <td>-1.30</td> <td>208.02</td> <td>192.35</td> <td>15.67</td> <td>13.275</td> <td></td> <td></td>	2,900.00	2,879.73	2,888.36	2,882.91	9.53	8.66	-148.373	-124.83	-1.30	208.02	192.35	15.67	13.275		
3,1000 3,076,50 3,086,44 3,080,25 10,37 4,41,733 -141,72 -4.86 245,86 16,73 14,081 3,0000 3,774,80 3,184,51 3,175,51 11,15 10,02 -148,072 -158,62 -4.43 263,15 245,34 17,81 14,775 3,0000 3,371,28 3,385,57 3,754,41 11,86 10,37 -144,203 -115,52 -116,17 246,34 295,56 19,46 15,564 3,0000 3,676,70 3,474,91 11,86 10,37 -144,203 -113,56 11,37 304,52 285,06 19,46 15,564 3,0000 3,676,77 3,086,77 13,83 12,17 -144,826 -112,12 20,03 311,53 50,77 15,142 3,0000 3,676,77 3,086,77 13,88 12,17 -144,850 -22,20 -22,88 37,348 351,22 22,170 15,676 4,10000 4,081,38 3,678,77 3,086,71 13,88 12,22 14,41 10,326 14,477 14,428 14,41 12,56 14,41 12	3,000.00	2,978.12	2,987.40	2,981.58	9.92	9.00	-148.580	-133.27	-3.08	221.80	205.60	16.20	13.693		
3.200.00 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.89 3.174.81 1.145 10.02 -146.02 -146.02 -146.32 246.37 221.10 17.27 1.4.41 3.000.00 3.371.65 3.383.57 3.376.24 11.65 10.07 -146.322 -175.52 -11.99 256.73 271.62 18.46 15.649 3.000.00 3.568.44 3.573.58 12.40 11.08 -146.439 -168.24 -168.24 11.65 318.31 206.20 20.02 15.033 3.000.00 3.668.2 3.660.07 3.672.4 11.36 144.43 -146.219 -10.21 271.78 20.02 15.033 3.000.00 3.668.3 3.677.33 3.698.24 14.11 12.51 -148.70 -217.76 -20.09 359.69 337.99 21.70 16.576 4.000.00 3.067.7 3.068.17 14.55 12.67 -148.206 -224.60 -224.63 377.48 351.22 22.28 <td>3,100.00</td> <td>3,076.50</td> <td>3,086.44</td> <td>3,080.25</td> <td>10.33</td> <td>9.34</td> <td>-148.763</td> <td>-141.72</td> <td>-4.86</td> <td>235.58</td> <td>218.85</td> <td>16.73</td> <td>14.081</td> <td></td> <td></td>	3,100.00	3,076.50	3,086.44	3,080.25	10.33	9.34	-148.763	-141.72	-4.86	235.58	218.85	16.73	14.081		
3.300.00 3.277.28 3.277.28 11.15 10.02 -148.072 -168.62 4.21 278.19 245.44 17.81 14.775 3.400.00 3.470.05 3.482.61 3.474.04 11.68 10.72 -168.32 -177.52 -11.99 276.94 256.58 18.94 15.647 3.600.00 3.666.42 3.660.70 3.672.24 12.83 11.44 -146.528 -11.94 200.63 220.20 20.02 15.903 3.600.00 3.666.42 3.660.77 3.680.77 13.86 12.15 -148.70 -209.31 11.91.10 31.16 20.57 16.142 3.800.00 3.878.79 3.968.57 13.86 12.15 -148.707 -220.80 337.48 351.22 22.68 16.775 4.000.00 3.861.80 3.977.83 3.968.57 13.86 12.87 -149.816 -22.62 37.24 23.46 17.27 14.57 4.000.00 3.861.98 3.977.83 3.968.57 13.88 15.607 -22.64 37.48 351.22 22.68 16.775 4.200.00	3,200.00	3,174.89	3,185.49	3,178.91	10.74	9.68	-148.926	-150.17	-6.65	249.37	232.10	17.27	14.441		
3.400.00 3.371.66 3.383.67 3.376.24 11.68 10.77 -149.203 -167.07 -1.1.99 290.73 271.82 18.98 15.937 3.500.00 3.568.44 5.81.66 3.474.91 11.98 10.72 -149.322 -175.52 -11.99 290.73 271.82 18.91 15.337 3.000.00 3.568.44 5.81.66 3.577.58 12.40 11.08 +149.409 -163.36 -13.77 306.52 28.06 16.364 3.000.00 3.666.82 3.677.19 3.687.24 12.85 11.79 -149.072 -200.86 17.37 316.33 20.57 16.142 3.000.00 3.666.80 3.677.37 3.968.24 14.11 12.15 -149.772 -21.77 20.08 337.48 351.22 2.2.6 16.775 4.100.00 4.065.74 4.076.57 4.066.51 14.55 12.67 149.813 -149.916 -24.46 377.48 324.02 15.97 15.97 4.100.00 4.158.77 4.176.74 14.28 15.83 15.86 24.465 24.44 14.22.83	3,300.00	3,273.28	3,284.53	3,277.58	11.15	10.02	-149.072	-158.62	-8.43	263.15	245.34	17.81	14.775		
3.500.00 3.470.05 3.482.01 3.474.91 11.98 10.72 -149.32 -175.52 -11.99 250.73 271.82 18.91 15.377 3.000.00 3.568.44 3.581.66 3.573.58 12.40 11.08 -149.400 -183.86 -13.77 304.52 285.06 19.46 15.603 3.000.00 3.668.2 3.680.70 3.675.21 3.779.74 3.770.91 13.25 11.79 -149.022 -200.86 -17.34 332.10 311.53 20.57 15.142 3.000.00 3.878.79 3.866.67 13.06 12.15 -149.772 -27.77 -20.93 356.86 373.48 351.22 22.26 16.775 4.000.00 4.060.37 4.076.87 4.066.91 14.55 12.87 -149.676 -226.20 -22.68 373.48 351.22 22.26 16.775 4.000.00 4.056.71 4.268 14.13 13.23 -149.166 -226.25 401.07 377.77 23.40 17.319 4.300.00 4.557.71 4.374.03 4.362.03 15.80 13.83 -150.	3,400.00	3,371.66	3,383.57	3,376.24	11.56	10.37	-149.203	-167.07	-10.21	276.94	258.58	18.36	15.087		
3,600,00 3,668,44 3,561,66 3,773,58 12,40 11,08 -149,430 -153,55 313,11 298,29 200,2 15,603 3,600,00 3,668,62 3,877,73 3,787,71 3,787,71 3,787,71 3,787,71 3,898,57 13,85 11,75 -149,702 -209,31 -19,12 345,89 324,76 21,14 16,366 4,000,00 3,661,80 3,777,78 3,998,24 14,11 12,15 -149,779 -217,75 -20,80 358,99 337,99 21,70 16,576 4,100,00 4,069,37 4,076,87 4,066,91 14,55 12,87 -149,856 -228,80 374,48 351,22 22,26 16,775 4,000,00 4,257,44 4,274,86 4,242,44 15,42 13,60 -149,876 -24,45 24,44 344,42 23,76 17,73 4,300,00 4,257,44 4,473,15 4,461,67 16,28 14,31 -150,067 -271,55 -28,03 41,14 364,28 23,76 17,714 4,500,00 4,553,74 4,764,07 4,654,84 17,11	3,500.00	3,470.05	3,482.61	3,474.91	11.98	10.72	-149.322	-175.52	-11.99	290.73	271.82	18.91	15.377		
3.360.00 3.568.44 3.861.66 3.773.58 12.40 11.08 -148.430 -163.36 13.77 304.52 285.06 19.46 15.649 3.700.00 3.765.21 3.777.44 12.73 11.43 -148.430 -17.74 332.10 311.53 20.57 16.142 3.900.00 3.863.60 3.877.78 3.989.57 13.68 12.15 -149.772 -209.31 -19.12 345.89 324.76 21.14 16.366 4.000.00 3.981.81 3.987.478 3.989.24 14.15 12.15 -149.775 -224.65 -224.88 373.48 351.22 22.26 16.775 4.200.00 4.076.87 4.066.91 14.55 12.87 -149.850 -224.55 -224.48 351.22 22.26 16.775 4.200.00 4.057.14 4.774.49 4.242.41 15.42 13.03 -160.076 -224.59 -27.41 410.04 396.28 23.76 17.258 4.300.00 4.353.74 4.368.44 4.471.15 4.461.67 16.28 14.31 -150.059 -28.15 -28.13 <															
3,700,00 3,866,82 3,680,70 3,872,24 12,83 11,43 -148,528 -192,41 -15,55 318,31 298,29 20,02 15,903 3,800,00 3,863,80 3,878,79 3,869,57 13,68 12,15 -148,619 -200,86 -17,34 332,10 311,53 20,57 16,142 3,900,00 3,863,80 3,878,79 3,869,57 13,68 12,15 -149,779 -217,76 -20,90 359,89 337,99 21,70 16,576 4,100,00 4,060,37 4,076,87 4,066,91 14,55 12,27 -149,850 -226,20 -22,88 373,48 351,22 22,28 16,775 4,200,00 4,158,76 4,175,52 4,156,57 14,69 13,23 -149,850 -226,20 -22,88 373,48 351,22 22,28 16,775 4,300,00 4,257,14 4,274,96 4,245,44 15,42 13,60 -149,976 -243,10 -26,25 401,07 377,67 23,40 17,139 4,365,02 4,331,14 4,333,55 4,328,38 15,69 13,83 -150,016 -248,59 -27,41 41,0,44 365,28 2,376 17,288 4,400,00 4,355,57 4,374,03 4,362,93 15,83 13,96 -150,016 -268,59 -27,81 41,68 390,74 23,94 17,319 4,500,00 4,454,47 4,473,15 4,461,67 16,28 14,31 -150,036 -260,00 -29,81 425,93 401,46 24,47 17,405 4,400,00 4,353,47 4,569,60 4,558,16 16,71 14,66 -150,019 -269,99 -31,16 434,56 409,60 24,56 17,411 4,700,00 4,653,44 4,66,70 4,654,94 17,11 14,69 -150,019 -269,90 -31,16 434,56 409,60 24,56 17,411 4,700,00 4,853,47 4,667,0 4,654,94 17,11 14,69 -150,019 -269,90 -31,16 444,65 419,70 25,99 17,146 4,900,00 4,853,47 4,667,0 4,654,94 17,11 14,69 -150,019 -269,90 -31,16 444,65 419,70 25,99 17,146 4,900,00 4,853,42 4,865,09 4,853,12 17,59 15,13 9,00,24 -270,01 -31,92 445,69 419,80 2,6,31 17,33 4,800,00 4,833,20 4,845,30 4,845,32 17,59 15,13 9,00,24 -270,01 -31,92 445,69 419,80 2,6,31 17,071 5,100,00 5,033,22 5,065,09 5,033,2 17,67 15,21 9,00,24 -270,01 -31,92 445,69 419,48 2,6,11 17,071 5,100,00 5,533,25 5,65,09 5,533,2 17,67 15,21 9,00,24 -270,01 -31,92 445,69 419,48 2,6,21 17,004 5,500,00 5,533,25 5,65,09 5,533,2 17,79 15,34 9,00,24 -270,01 -31,92 445,69 419,48 2,6,21 17,004 5,500,00 5,533,25 5,65,09 5,533,2 17,79 15,34 9,00,24 -270,01 -31,92 445,69 419,48 2,6,21 17,004 5,500,00 5,533,25 5,65,09 5,533,2 17,79 15,34 9,00,24 -270,01 -31,92 445,69 419,48 2,62,1 17,004 5,500,00 5,533,25 5,65,09 5,533,2 17,78 15,47 9,00,24 -270,	3,600.00	3,568.44	3,581.66	3,573.58	12.40	11.08	-149.430	-183.96	-13.77	304.52	285.06	19.46	15.649		
3 400.00 3,765,27 3,769,74 3,770,97 4,377,97 3,869,57 13,68 12,15 -148,702 -209,31 -19,12 345,89 324,76 21,14 15,636 4,000.00 3,961,98 3,977,83 3,968,24 14,11 12,51 -148,779 -217,76 -20,90 359,69 337,99 21,70 16,576 4,100.00 4,060,37 4,076,87 4,066,91 14,55 12,87 -149,876 -224,20 -22,88 373,48 51,22 22,26 16,775 4,200.00 4,158,77 4,175,92 4,165,57 14,98 13,23 -149,978 -243,10 -262,52 401,07 377,67 23,40 17,139 4,305,00 4,257,14 4,274,98 4,248,24 15,42 13,60 -149,978 -243,10 -262,52 401,07 377,67 23,40 17,139 4,365,02 4,221,11 4,339,35 4,328,39 15,69 13,83 -150,016 -248,59 -27,41 410,04 386,28 23,76 17,256 4,400,00 4,355,77 4,376,08 4,362,93 15,63 13,66 -150,067 -251,55 -28,03 414,68 390,74 23,94 17,319 4,500,00 4,454,44 4,473,15 4,461,67 16,28 14,31 -150,036 -260,00 -29,81 425,93 401,46 24,47 17,405 4,500,00 4,553,77 4,576,88 4,551,6 16,77 14,66 -150,099 -268,39 -31,14 440,85 415,41 25,43 17,313 4,500,00 4,553,44 4,666,70 4,654,94 17,11 14,67 -150,159 -226,00 -31,84 440,85 415,41 25,43 17,313 4,800,28 4,833,80 4,845,36 4,833,80 17,59 15,13 90,024 -270,01 -31,92 444,56 409,60 24,96 17,711 4,700,00 4,853,32 4,965,09 4,853,32 17,59 15,13 90,024 -270,01 -31,92 445,69 419,48 26,11 17,138 5,000,00 4,853,32 4,965,09 4,953,32 17,59 15,13 90,024 -270,01 -31,92 445,69 419,48 26,11 17,138 5,000,00 4,853,32 4,865,09 4,853,32 17,59 15,13 90,024 -270,01 -31,92 445,69 419,48 26,11 17,138 5,000,00 4,853,32 4,865,09 4,853,32 17,59 15,13 90,024 -270,01 -31,92 445,69 419,48 26,11 17,138 5,000,00 5,153,32 5,965,09 5,153,32 17,77 15,26 90,024 -270,01 -31,92 445,69 419,48 26,21 17,004 5,200,0 5,153,32 5,965,09 5,153,32 17,77 15,24 90,024 -270,01 -31,92 445,69 419,48 26,21 17,004 5,500,00 5,533,2 5,656,09 5,553,32 17,76 15,21 90,024 -270,01 -31,92 445,69 419,88 26,11 17,138 5,000,00 5,553,32 5,656,09 5,553,32 17,76 15,24 90,024 -270,01 -31,92 445,69 419,86 26,51 16,671 5,700,00 5,553,32 5,656,09 5,553,32 17,76 15,24 90,024 -270,01 -31,92 445,69 419,86 26,51 16,671 5,700,00 5,553,32 5,656,09 5,553,32 17,68 15,42 90	3,700.00	3,666.82	3,680.70	3,672.24	12.83	11.43	-149.528	-192.41	-15.55	318.31	298.29	20.02	15.903		
3.900.00 3.863.80 3.874.74 3.869.9.7 13.68 12.15 -149.702 -207.31 -19.12 345.89 324.76 21.14 15.86 4.000.00 3.861.88 3.977.83 3.968.24 14.11 12.51 -149.779 -217.76 -20.90 3.56.9 337.99 21.70 15.576 4.200.00 4.050.37 4.076.87 4.066.81 14.55 12.87 -149.860 -226.20 -22.68 373.48 351.22 22.26 16.775 4.200.00 4.158.76 4.175.92 4.165.57 14.98 13.23 -149.916 -234.65 -24.46 387.27 364.44 22.83 16.962 4.300.00 4.257.14 4.274.96 4.264.24 15.42 13.60 -149.978 -243.10 -26.25 401.07 377.67 23.40 17.139 4.365.02 4.31.11 4.333.33 4.332.39 15.69 13.83 -150.016 -248.59 -27.14 4100 -366.28 23.76 17.258 4.400.00 4.355.57 4.374.03 4.362.93 15.83 13.96 -150.067 -251.55 -28.03 414.68 390.74 23.94 17.319 4.500.00 4.454.44 4.473.15 4.461.67 16.28 14.31 -150.096 -260.00 -29.81 425.93 401.46 24.47 17.405 4.600.00 4.553.77 4.568.86 4.558.16 15.71 14.66 -150.009 -268.99 -31.16 434.56 409.60 24.96 17.411 4.700.00 4.653.44 4.666.70 6.654.94 17.11 14.97 150.159 -269.60 -31.84 440.85 415.41 25.43 17.333 4.800.00 4.753.33 4.765.10 4.753.33 17.46 15.10 -150.431 -270.01 -31.92 444.58 419.70 25.99 17.146 4.900.00 4.853.32 4.865.09 4.853.32 17.59 15.13 90.024 -270.01 -31.92 445.69 419.70 25.99 17.146 4.900.00 4.853.32 4.965.09 4.853.32 17.67 15.17 90.024 -270.01 -31.92 445.69 419.70 25.99 17.146 4.900.00 4.953.32 4.965.09 4.853.32 17.67 15.17 90.024 -270.01 -31.92 445.69 419.88 25.11 17.071 5.100.00 5.153.32 5.065.09 5.053.32 17.67 15.17 90.024 -270.01 -31.92 445.69 419.88 26.11 17.071 5.100.00 5.153.32 5.665.09 5.053.32 17.77 15.21 90.024 -270.01 -31.92 445.69 419.48 26.21 17.004 5.200.00 5.153.32 5.665.09 5.053.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.48 26.21 17.004 5.200.00 5.153.32 5.665.09 5.053.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.48 26.21 17.004 5.200.00 5.553.32 5.665.09 5.053.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.60 26.63 16.737 5.600.00 5.553.32 5.665.09 5.653.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.60 26.63 16.737 5.600.00 5.553.32 5.665.09 5.653.32 17.79 15.47 90.024 -270.01 -31.92 445.69 418.64 26.	3,800.00	3,765.21	3,779.74	3,770.91	13.25	11.79	-149.619	-200.86	-17.34	332.10	311.53	20.57	16.142		
4.100.00 5,81.83 5,87.85 5,86.24 14.11 12.31 -149.76 -20.80 335.89 337.99 21.70 16.576 4.100.00 4,060.37 4,076.87 4,066.91 14.55 12.87 -149.860 -226.80 373.48 351.22 22.26 16.775 4.200.00 4,257.14 4274.96 4284.24 15.42 13.80 -149.978 -243.10 -262.55 401.07 377.67 23.40 17.139 4.305.02 4,321.11 4,339.35 4,326.31 15.69 13.83 -150.016 -248.59 -27.41 410.04 386.28 23.76 17.258 4.400.00 4,555.77 4,584.84 15.61 16.71 14.66 -150.009 -266.39 -31.16 434.56 409.60 24.47 17.405 4.600.00 4,553.37 4,565.10 4,753.33 17.64 15.10 150.33 17.64 14.05.69 419.68 26.01 17.411 4,700.00 4,553.32 4,76.61 4,753.33 17.76 15.13 90.024 -270.01 -31.92 445.69 <td>3,900.00</td> <td>3,863.60</td> <td>3,878.79</td> <td>3,869.57</td> <td>13.68</td> <td>12.15</td> <td>-149.702</td> <td>-209.31</td> <td>-19.12</td> <td>345.89</td> <td>324.76</td> <td>21.14</td> <td>16.366</td> <td></td> <td></td>	3,900.00	3,863.60	3,878.79	3,869.57	13.68	12.15	-149.702	-209.31	-19.12	345.89	324.76	21.14	16.366		
4,100.00 4,060,37 4,076,87 4,066,91 14,55 12,87 -149,850 -226,20 -22,68 373,48 351,22 22,26 16,775 4,200.00 4,156,76 4,175,92 4,466,57 14,99 16,232 -149,916 -234,45 -24,46 397,27 364,44 22,83 16,992 4,366,02 4,321,11 4,339,35 4,328,39 15,69 13,83 -150,067 -251,55 -28,03 414,88 390,74 23,94 17,319 4,500,00 4,454,44 4,473,15 4,461,67 16,28 14,31 -150,0067 -251,55 -28,03 414,88 390,74 23,94 17,319 4,500,00 4,553,77 4,569,86 4,558,16 16,71 14,66 -150,009 -296,90 -31,16 434,56 409,50 24,96 17,411 4,700,00 4,653,47 4,664,94 17,11 14,97 -20,01 -31,92 444,71 418,88 26,33 17,41 4,800,00 4,753,33 4,765,10 4,753,33 17,46 15,10 90,024 -270,01 -3	4,000.00	3,901.90	3,977.03	3,900.24	14.11	12.51	-149.779	-217.70	-20.90	309.09	337.99	21.70	10.576		
4.200.00 4.158.76 4.175.92 4.195.75 14.98 13.23 -149.976 -234.65 -244.6 387.27 364.44 22.83 16.962 4.300.00 4.257.14 4.274.96 4.288.38 16.69 13.83 -160.016 -248.59 410.04 386.28 23.76 17.739 4.400.00 4.355.57 4.374.03 4.386.20 13.23 -150.067 -251.55 -28.03 414.68 390.74 23.94 17.319 4.500.00 4.454.44 4.473.15 4.461.67 16.28 14.31 -150.036 -260.00 -29.81 425.93 401.46 24.47 17.405 4.600.00 4.553.77 4.569.86 4.558.16 16.71 14.66 -150.009 -266.39 -31.16 434.55 409.60 24.96 17.411 4.700.01 4.553.44 4.666.70 4.654.44 17.71 14.97 -150.159 -270.01 -31.92 444.71 14.88 26.33 17.217 4.800.28 4.833.60 17.59 15.13 90.024 -270.01 -31.92 445.69 41	4,100.00	4,060.37	4,076.87	4,066.91	14.55	12.87	-149.850	-226.20	-22.68	373.48	351.22	22,26	16.775		
4.300.00 4.257.14 4.274.96 4.264.24 15.42 13.60 -149.978 -243.10 -26.25 401.07 377.67 23.40 17.139 4.365.02 4.321.11 4.339.35 4.322.39 15.69 13.83 -150.016 -248.69 -27.41 410.04 386.28 23.76 17.258 4.400.00 4.355.57 4.374.03 4.362.93 15.83 13.96 -150.006 -261.55 -28.03 414.68 390.74 23.94 17.139 4.500.00 4.653.77 4.564.44 4.471.5 4.461.67 16.28 14.31 -150.099 -268.90 -31.84 440.85 415.41 25.43 17.313 4.600.00 4.553.44 4666.70 455.494 17.11 14.97 -150.159 -269.60 -31.84 440.85 415.41 25.43 17.333 4.800.00 4.753.33 17.66 15.13 90.024 -270.01 -31.92 445.69 419.70 25.99 17.146 4.900.00 4.853.42 4.965.99 4.953.32 17.67 15.21 90.024 -270.0	4,200.00	4,158.76	4,175.92	4,165.57	14.98	13.23	-149.916	-234.65	-24.46	387.27	364.44	22.83	16.962		
4,365,02 4,321,11 4,339,35 4,328,39 15,69 13,83 -150,067 -274,1 410,04 386,28 23,76 17,258 4,400,00 4,355,57 4,374,03 4,362,93 15,83 15,067 -261,55 -28,03 414,86 390,74 23,94 17,319 4,500,00 4,454,44 4,471,5 4,461,67 16,28 14,31 -150,096 -286,39 -31,16 434,56 409,60 24,96 17,411 4,600,00 4,553,77 4,569,86 4,561,44 17,11 14,66 150,019 -266,90 -31,16 434,56 409,60 24,96 17,411 4,800,00 4,753,33 4,765,10 4,753,33 17,46 15,10 -150,431 -270,01 -31,92 444,71 418,88 25,83 17,217 4,880,28 4,833,60 4,853,32 17,67 15,13 90,024 -270,01 -31,92 445,69 419,68 26,01 17,138 5,000,00 4,953,32 5,065,09 5,053,32 17,67 15,21 90,024 -270,01 -31,92 45,69<	4,300.00	4,257.14	4,274.96	4,264.24	15.42	13.60	-149.978	-243.10	-26.25	401.07	377.67	23.40	17.139		
4,400.00 4,355.57 4,374.03 4,362.93 15.83 13.96 -150.067 -251.55 -28.03 414.68 390.74 23.94 17.319 4,500.00 4,454.44 4,473.15 4,461.67 16.28 14.31 -150.096 -260.00 -29.81 425.93 401.46 24.47 17.405 4,600.00 4,553.77 4,569.86 4,558.16 16.71 14.66 -150.009 -266.39 -31.84 440.85 415.41 25.43 17.333 4,800.00 4,753.33 4,765.10 4,753.33 17.69 15.10 -150.431 -270.01 -31.92 444.71 418.88 25.83 17.217 4,800.00 4,853.32 4,853.80 17.59 15.13 90.024 -270.01 -31.92 445.69 419.68 26.01 17.138 5,000.00 4,853.32 4,855.32 17.67 15.17 90.024 -270.01 -31.92 445.69 419.58 26.11 17.071 5,000.00 5,953.32 5,055.09 5,053.32 17.67 15.21 90.024 -270.01 -31.92	4,365.02	4,321.11	4,339.35	4,328.39	15.69	13.83	-150.016	-248.59	-27.41	410.04	386.28	23.76	17.258		
4,500.00 4,454.44 4,473.15 4,461.67 16.28 14.31 -150.036 -260.00 -29.81 425.93 401.46 24.47 17.405 4,600.00 4,553.77 4,569.86 4,558.16 16,71 14.66 -150.009 -268.39 -31.16 434.56 409.60 24.96 17.411 4,700.00 4,653.44 4,666.70 4,654.94 17.11 14.97 -150.159 -266.60 -31.84 440.85 415.41 25.43 17.333 4,800.00 4,753.33 4,765.10 4,753.33 17.46 15.10 -150.431 -270.01 -31.92 444.71 418.88 26.83 17.146 4,800.00 4,853.32 4,865.30 1,759 15.13 90.024 -270.01 -31.92 445.69 419.70 25.99 17.146 4,900.00 4,853.32 4,965.90 4,953.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.78 26.21 17.004 5,000.00 5,053.32 5,065.09 5,053.32 17.71 15.26 90.024 -270.	4,400.00	4,355.57	4,374.03	4,362.93	15.83	13.96	-150.067	-251.55	-28.03	414.68	390.74	23.94	17.319		
4,300.00 4,484.44 4,47.315 4,461.67 16.28 14.31 -150.036 -260.00 -29.81 425.93 401.46 24.47 17.40 4,600.00 4,553.77 4,568,86 4,558.16 16.71 14.66 -150.009 -266.39 -31.16 434.56 409.60 24.96 17.411 4,700.00 4,553.74 4,666.70 4,753.33 17.46 15.10 -150.159 -269.60 -31.84 440.85 415.41 25.43 17.217 4,880.28 4,833.60 4,853.32 17.59 15.13 90.024 -270.01 -31.92 445.69 419.68 26.11 17.146 4,900.00 4,853.32 4,865.09 4,853.32 17.63 15.17 90.024 -270.01 -31.92 445.69 419.68 26.11 17.071 5,000.00 4,953.32 5,065.09 5,053.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.48 26.21 17.044 5,200.00 5,153.32 5,165.09 5,153.32 17.71 15.26 90.024 -270.01<		=													
4,00,00 4,533,47 4,569,86 4,656,17 10,11 14,66 -150,009 -260,39 -31,16 434,56 409,60 24,96 17,411 4,700,00 4,653,44 4,666,70 4,664,94 17,11 14,97 -150,159 -260,60 -31,92 444,71 418,88 25,83 17,217 4,800,28 4,833,60 4,845,36 4,833,60 17,59 15,13 90,024 -270,01 -31,92 445,69 419,70 25,99 17,146 4,900,00 4,853,32 4,865,09 4,853,32 17,63 15,17 90,024 -270,01 -31,92 445,69 419,68 26,01 17,138 5,000,00 4,953,32 4,965,09 4,953,32 17,67 15,21 90,024 -270,01 -31,92 445,69 419,48 26,21 17,004 5,100,00 5,053,32 17,67 15,21 90,024 -270,01 -31,92 445,69 419,48 26,21 17,004 5,200,00 5,153,32 5,165,09 5,153,32 17,75 15,30 90,024 -270,01 -31,92	4,500.00	4,454.44	4,4/3.15	4,461.67	16.28	14.31	-150.036	-260.00	-29.81	425.93	401.46	24.47	17.405		
4,00,00 4,053,44 4,060,70 4,054,94 17,11 14,97 -100,199 -269,00 -51,64 440,33 413,41 25,43 17,333 4,800,00 4,753,33 4,765,10 4,753,33 17,46 15,10 -150,431 -270,01 -31,92 444,71 418,88 25,83 17,217 4,800,00 4,853,32 4,865,09 4,853,32 17,59 15,13 90,024 -270,01 -31,92 445,69 419,70 25,99 17,146 4,900,00 4,853,32 4,865,09 4,953,32 17,63 15,17 90,024 -270,01 -31,92 445,69 419,48 26,21 17,01 5,100,00 5,053,32 5,065,09 5,053,32 17,67 15,21 90,024 -270,01 -31,92 445,69 419,48 26,31 16,937 5,200,00 5,153,32 17,77 15,30 90,024 -270,01 -31,92 445,69 419,48 26,31 16,937 5,200,00 5,253,32 5,265,09 5,253,32 17,75 15,30 90,024 -270,01 -31,92	4,600.00	4,553.77	4,569.86	4,558.16	16.71	14.66	-150.009	-266.39	-31.16	434.56	409.60	24.96	17.411		
4,00.00 4,753.33 4,763.13 4,753.33 17.40 15.10 -150.431 -270.01 -31.92 445.69 419.70 25.99 17.146 4,880.28 4,883.60 4,845.36 4,853.32 17.59 15.13 90.024 -270.01 -31.92 445.69 419.68 26.01 17.146 4,900.00 4,853.32 4,953.32 17.63 15.17 90.024 -270.01 -31.92 445.69 419.68 26.01 17.146 5,000.00 4,953.32 4,953.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.68 26.21 17.004 5,000.00 5,053.32 5,165.09 5,153.32 17.71 15.26 90.024 -270.01 -31.92 445.69 419.48 26.21 17.004 5,200.00 5,253.32 17.75 15.30 90.024 -270.01 -31.92 445.69 419.27 26.42 16.870 5,400.00 5,353.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.27 26.42 16.870	4,700.00	4,000,44	4,000.70	4,004.94	17.11	14.97	150,139	-269.60	-31.04	440.05	413.41	25,43	17.333		
4,000.00 4,853.32 4,000.00 4,853.32 17.59 15.13 90.024 -270.01 -31.92 445.69 419.68 26.01 17.138 5,000.00 4,953.32 4,965.09 4,953.32 17.63 15.17 90.024 -270.01 -31.92 445.69 419.58 26.11 17.004 5,100.00 5,053.32 5,065.09 5,053.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.48 26.21 17.004 5,200.00 5,153.32 5,17.71 15.26 90.024 -270.01 -31.92 445.69 419.38 26.31 16.937 5,300.00 5,253.32 5,265.09 5,253.32 17.75 15.30 90.024 -270.01 -31.92 445.69 419.27 26.42 16.870 5,400.00 5,353.32 5,353.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.27 26.42 16.804 5,500.00 5,453.32 17.83 15.38 90.024 -270.01 -31.92 445.69 419.06 26.63 <	4,800.00	4,703.00	4,705.10	4,703.00	17.40	15.10	90.024	-270.01	-31.92	444.71	410.00	25.03	17.217		
4,900.00 4,853.32 4,865.09 4,853.32 17.59 15.13 90.024 -270.01 -31.92 445.69 419.68 26.01 17.138 5,000.00 4,953.32 4,965.09 4,953.32 17.63 15.17 90.024 -270.01 -31.92 445.69 419.58 26.11 17.04 5,100.00 5,053.32 5,065.09 5,053.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.48 26.21 17.04 5,200.00 5,153.32 5,165.09 5,153.32 17.71 15.26 90.024 -270.01 -31.92 445.69 419.38 26.31 16.937 5,300.00 5,253.32 5,265.09 5,253.32 17.75 15.30 90.024 -270.01 -31.92 445.69 419.27 26.42 16.870 5,400.00 5,353.32 5,353.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.06 26.63 16.737 5,600.00 5,553.32 17.83 15.36 90.024 -270.01 -31.92 445.69	4,000.20	4,000.00	4,040.00	4,000.00	17.55	10.10	30.024	-270.01	-01.02	445.05	413.70	20.00	17.140		
5,000.00 4,953.32 4,965.09 4,953.32 17.63 15.17 90.024 -270.01 -31.92 445.69 419.58 26.11 17.071 5,100.00 5,053.32 5,065.09 5,053.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.48 26.21 17.004 5,200.00 5,153.32 5,165.09 5,153.32 17.71 15.26 90.024 -270.01 -31.92 445.69 419.38 26.31 16.937 5,300.00 5,253.32 5,265.09 5,253.32 17.75 15.30 90.024 -270.01 -31.92 445.69 419.27 26.42 16.804 5,400.00 5,353.32 5,365.09 5,353.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.27 26.42 16.804 5,600.00 5,453.32 5,453.32 17.83 15.38 90.024 -270.01 -31.92 445.69 419.06 26.63 16.737 5,600.00 5,553.32 5,650.33 17.92 15.47 90.024 -270.01 -31.92	4,900.00	4,853.32	4,865.09	4,853.32	17.59	15.13	90.024	-270.01	-31.92	445.69	419.68	26.01	17.138		
5,100.00 5,053.32 5,065.09 5,053.32 17.67 15.21 90.024 -270.01 -31.92 445.69 419.48 26.21 17.004 5,200.00 5,153.32 5,165.09 5,153.32 17.71 15.26 90.024 -270.01 -31.92 445.69 419.38 26.31 16.937 5,300.00 5,253.32 5,265.09 5,253.32 17.75 15.30 90.024 -270.01 -31.92 445.69 419.27 26.42 16.804 5,400.00 5,353.32 5,365.09 5,353.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.17 26.52 16.804 5,600.00 5,453.32 5,453.32 17.83 15.38 90.024 -270.01 -31.92 445.69 419.06 26.63 16.737 5,600.00 5,553.32 5,653.32 17.88 15.42 90.024 -270.01 -31.92 445.69 418.96 26.73 16.671 5,700.00 5,653.32 5,653.32 17.92 15.47 90.024 -270.01 -31.92 445.69	5,000.00	4,953.32	4,965.09	4,953.32	17.63	15.17	90.024	-270.01	-31.92	445.69	419.58	26.11	17.071		
5,200.00 5,153.32 5,165.09 5,153.32 17.71 15.26 90.024 -270.01 -31.92 445.69 419.38 26.31 16.937 5,300.00 5,253.32 5,265.09 5,253.32 17.75 15.30 90.024 -270.01 -31.92 445.69 419.37 26.42 16.870 5,400.00 5,353.32 5,365.09 5,353.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.27 26.42 16.804 5,600.00 5,453.32 5,453.32 17.83 15.38 90.024 -270.01 -31.92 445.69 419.06 26.63 16.737 5,600.00 5,653.32 5,653.32 17.88 15.42 90.024 -270.01 -31.92 445.69 418.96 26.73 16.671 5,700.00 5,653.32 5,653.32 17.92 15.47 90.024 -270.01 -31.92 445.69 418.96 26.84 16.605 5,800.00 5,753.32 5,765.09 5,753.32 17.96 15.51 90.024 -270.01 -31.92 445.69	5,100.00	5,053.32	5,065.09	5,053.32	17.67	15.21	90.024	-270.01	-31.92	445.69	419.48	26.21	17.004		
5,300.00 5,253.32 5,265.09 5,253.32 17.75 15.30 90.024 -270.01 -31.92 445.69 419.27 26.42 16.870 5,400.00 5,353.32 5,365.09 5,353.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.17 26.52 16.804 5,500.00 5,453.32 5,465.09 5,453.32 17.83 15.38 90.024 -270.01 -31.92 445.69 419.06 26.63 16.737 5,600.00 5,553.32 5,665.09 5,553.32 17.88 15.47 90.024 -270.01 -31.92 445.69 418.96 26.73 16.671 5,700.00 5,653.32 17.92 15.47 90.024 -270.01 -31.92 445.69 418.96 26.73 16.671 5,700.00 5,753.32 5,765.09 5,753.32 17.96 15.51 90.024 -270.01 -31.92 445.69 418.74 26.95 16.539 5,900.00 5,753.32 5,765.09 5,753.32 17.96 15.51 90.024 -270.01 -31.92	5,200.00	5,153.32	5,165.09	5,153.32	17.71	15.26	90.024	-270.01	-31.92	445.69	419.38	26.31	16.937		
5,400.00 5,353.32 5,365.09 5,353.32 17.79 15.34 90.024 -270.01 -31.92 445.69 419.17 26.52 16.804 5,500.00 5,453.32 5,465.09 5,453.32 17.83 15.38 90.024 -270.01 -31.92 445.69 419.06 26.63 16.737 5,600.00 5,553.32 5,566.09 5,553.32 17.88 15.47 90.024 -270.01 -31.92 445.69 418.06 26.63 16.737 5,600.00 5,553.32 5,666.09 5,653.32 17.92 15.47 90.024 -270.01 -31.92 445.69 418.06 26.73 16.671 5,700.00 5,653.32 17.92 15.51 90.024 -270.01 -31.92 445.69 418.74 26.95 16.539 5,800.00 5,753.32 5,765.09 5,753.32 17.96 15.51 90.024 -270.01 -31.92 445.69 418.74 26.95 16.539 5,900.00 5,853.32 5,865.09 5,853.32 18.00 15.55 90.024 -270.01 -31.92	5,300.00	5,253.32	5,265.09	5,253.32	17.75	15.30	90.024	-270.01	-31.92	445.69	419.27	26.42	16.870		
5,000,00 5,050,02 5,050,02 5,050,02 17,79 10,04 90,024 -27,001 -31,92 445,69 419,17 20,22 10,004 5,500,00 5,553,32 5,665,09 5,553,32 17,83 15,38 90,024 -270,01 -31,92 445,69 419,17 20,22 10,004 5,600,00 5,553,32 5,665,09 5,553,32 17,88 15,42 90,024 -270,01 -31,92 445,69 418,96 26,73 16,671 5,700,00 5,653,32 5,665,09 5,653,32 17,96 15,51 90,024 -270,01 -31,92 445,69 418,96 26,73 16,671 5,700,00 5,653,32 5,765,09 5,753,32 17,96 15,51 90,024 -270,01 -31,92 445,69 418,74 26,95 16,539 5,900,00 5,853,32 5,865,09 5,853,32 18,00 15,55 90,024 -270,01 -31,92 445,69 418,74 26,95 16,539 5,900,00 5,853,32 18,00 15,55 90,024 -270,01 -31,92	5 400 00	5 353 30	5 365 00	5 353 30	17 70	15 24	00.024	- 270.04	_31.00	145 60	410.17	26 52	16 804		
5,000.00 5,753.32 5,665.09 5,553.32 17.88 15.42 90.024 -270.01 -31.92 445.69 418.96 26.73 16.73 5,700.00 5,653.32 5,665.09 5,653.32 17.88 15.42 90.024 -270.01 -31.92 445.69 418.96 26.73 16.671 5,700.00 5,653.32 5,665.09 5,653.32 17.92 15.47 90.024 -270.01 -31.92 445.69 418.74 26.95 16.539 5,800.00 5,753.32 5,765.09 5,753.32 17.96 15.51 90.024 -270.01 -31.92 445.69 418.74 26.95 16.539 5,900.00 5,853.32 5,865.09 5,853.32 18.00 15.55 90.024 -270.01 -31.92 445.69 418.64 27.06 16.473	5,400.00	5,353.32	5,365.09	0,000.02 5 452 20	17.79	15.34	90.024	-270.01	-31.92	445.09	419.17	20.52	10.004		
5,000.00 5,000.02 5,000.02 17.00 10.42 90.024 -27.00 -51.92 445.69 416.95 26.73 10.071 5,700.00 5,653.32 5,665.09 5,653.32 17.92 15.47 90.024 -270.01 -31.92 445.69 418.85 26.84 16.605 5,800.00 5,753.32 5,766.09 5,753.32 17.96 15.51 90.024 -270.01 -31.92 445.69 418.74 26.95 16.539 5,900.00 5,853.32 5,866.09 5,853.32 18.00 15.55 90.024 -270.01 -31.92 445.69 418.64 27.06 16.473	5,000.00	5 552 22	5,400.09	5,400.02	17.03	15.00	90.024 00.024	-270.01	-31.92	440.09	419.00	20.03 26.72	16.737		
5,800.00 5,753.32 5,765.09 5,753.32 17.96 15.51 90.024 -270.01 -31.92 445.69 418.64 27.06 16.539 5,900.00 5,853.32 5,865.09 5,853.32 18.00 15.55 90.024 -270.01 -31.92 445.69 418.64 27.06 16.473	5 700 00	5 653 32	5,505.09	5 653 32	17.08 17.00	15.42	90.024 90.024	-270.01	-31.92	440.09	410.90	20.73	16.605		
5,900.00 5,853.32 5,865.09 5,853.32 18.00 15.55 90.024 -270.01 -31.92 445.69 418.64 27.06 16.473 CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation	5 800 00	5 753 32	5 765 09	5 753 32	17.92	15.51	90.024	_270.01	-31 92	445.69	418 74	26.04	16.539		
5,900.00 5,853.32 5,865.09 5,853.32 18.00 15.55 90.024 -270.01 -31.92 445.69 418.64 27.06 16.473 CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation	0,000.00	0,. 00.02	2,.00.00	5,, 50.0L	11.00	.0.01	0.0E P	270.01	01.02	. 10.00		20.00			
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation	5,900.00	5,853.32	5,865.09	5,853.32	18.00	15.55	90.024	-270.01	-31.92	445.69	418.64	27.06	16.473		
and the second				CC - Min	centre to ce	nter dista	nce or cov	ergent point. SF	- min separ	ation facto	r, ES - mir	n ellipse sei	paration		

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PHOENIX

TECHNOLOGY SERVICES

Phoenix Anticollision Report

MarathonOil Corporation.

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0.00 usft

Offset Site Error:

Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley BS Fed Com 301H - OH - Plan 1 11-02-22

Survey Progr	am:	-MWD+HRGM		- ··						Rule Assi	gned:		Offset Well Error:	0.00 usft
Refer Measured	vence Vertica	Measured	set Vertica	Semi N Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
6,000.00	5,953.32	5,965.09	5,953.32	18.05	15.60	90.024	-270.01	-31.92	445.69	418.53	27.16	16.408		
6,100.00	6,053.32	6,065.09	6,053.32	18.09	15.64	90.024	-270.01	-31.92	445.69	418.42	27.27	16.343		
6,200.00	6,153.32	6,165.09	6,153.32	18,13	15.68	90.024	-270.01	-31.92	445.69	418.31	27.38	16.277		
6,300.00	6,253.32	6,265.09	6,253.32	18.18	15.73	90.024	-270.01	-31.92	445.69	418.20	27.49	16.213		
6,400.00	6,353.32	6,365.09	6,353.32	18.22	15.77	90.024	-270.01	-31.92	445.69	418.09	27.60	16.148		
6,500.00	6,453.32	6,465.09	6,453.32	18.27	15.82	90.024	-270.01	-31.92	445.69	417.98	27.71	16.083		
6,600.00	6,553.32	6,565.09	6,553.32	18.31	15.86	90.024	-270.01	-31.92	445.69	417.87	27.82	16.019		
6,700.00	6,653.32	6,665.09	6,653.32	18.36	15.91	90.024	-270.01	-31.92	445.69	417.76	27.93	15.955		
6,800.00	6,753.32	6,765.09	6,753.32	18.40	15.95	90.024	-270.01	-31.92	445.69	417.64	28.05	15.891		
6,900.00	6,853.32	6,865.09	6,853.32	18.45	16.00	90.024	-270.01	-31.92	445.69	417.53	28.16	15.828		
7,000.00	6,953.32	6,965.09	6,953.32	18.49	16.05	90.024	-270.01	-31.92	445.69	417.42	28.27	15.765		
7 400 00	7 050 00	7 005 47	7 050 00	10.54	40.00	00.070	000.05	04.00	445.00	447.00	00.07	45 740		
7,100.00	7,053.32	7,065.17	7,053.38	18.54	16.03	89.876	-268.85	-31.93	445.69	417.32	28.37	15.712		
7,112.07	7,065.39	7,077.21	7,065.39	18.54	16.01	89.761	-267.96	-31.93	445.69	417.30	28.38	15.702		
7,200.00	7,153.32	2 7,163.06	7,150.07	18.58	15.87	88.011	-254.34	-31.99	445.91	417.30	28.60	15.591		
7,300.00	7,253.32	7,253.63	7,236.14	18.63	15.67	84.440	-226.45	-32.10	447.94	419.00	28.94	15.4/6		
7,400.00	7,353.32	2 7,333.79	7,307.82	18.68	15.48	79.929	-190.72	-32.25	454.61	425.34	29.27	15.532		
7.500.00	7.453.32	7.400.00	7.362.80	18.72	15.33	75,406	-153.90	-32.41	468.87	439.47	29.40	15.947		
7.600.00	7.553.32	7.460.88	7,409.30	18.77	15.20	70.778	-114.65	-32.57	492.83	463.45	29.38	16.776		
7.700.00	7.653.32	7.509.78	7,443,48	18.82	15.10	66.860	-79.68	-32.71	527.37	498.27	29.10	18.123		
7,800.00	7,753.32	7,550.00	7,469,26	18.87	15.02	63.579	-48.83	-32.84	572.14	543.45	28.69	19.943		
7,900.00	7.853.32	7,585.58	7,490,22	18.91	14.96	60.680	-20.09	-32.96	626.03	597.75	28.29	22.132		
.,	.,	,	.,											
8,000.00	7,953.32	7,615.05	7,506.20	18.96	14.92	58.307	4.67	-33.07	687.66	659.73	27.93	24.623		
8,100.00	8,053.32	7,650.00	7,523.48	19.01	14.87	55.551	35.04	-33.19	755.77	728.03	27.73	27.252		
8,200.00	8,153.32	7,650.00	7,523.48	19.06	14.87	55.551	35.04	-33.19	828.95	801.52	27.42	30.229		
8,300.00	8,253.32	7,680.91	7,537.19	19.11	14.83	53.185	62.74	-33.31	906.01	878.58	27.43	33.028		
8,400.00	8,353.32	7,700.00	7,544.90	19.16	14.81	51.764	80.20	-33.38	986.61	959.16	27.46	35.934		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil

Corporation.

0.00 usft

Offset Site Error:

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Marathon Oil Permian LLC Well Ripley WC Fed Com 701H Company: Local Co-ordinate Reference: TVD Reference: Project: Eddy County, NM (NAD27-NME) RKB @ 2978.60usft (Cactus 169) Reference Site: Ripley Fed Com Pad RKB @ 2978.60usft (Cactus 169) MD Reference: Site Error: 0.00 usft North Reference: Grid Reference Well: Ripley WC Fed Com 701H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma USA Compass **Reference Wellbore** ΟН Database: Plan 1 11-02-22 Offset TVD Reference: Reference Datum Reference Design:

Offset Design: Ripley Fed Com Pad - Ripley BS Fed Com 501H - OH - Plan 1 11-02-22

Survey Progr	am: 0-	MWD+HRGM		0			0//		Dist	Rule Assi	gned:		Offset Well Error:	0.00 usft
Refer Measured Depth (usft)	vertical Depth	Measured Depth (usft)	set Vertical Depth (usft)	Semi N Reference	(usft)	Highside Toolface (°)	+N/-S	+E/-W (usft)	Dist Between Centres (usft)	ance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-90.011	-0.01	-50.06	50.06	(usit)	(usit)			
100.00	100.00	100.00	100.00	0.53	0.53	-90.011	-0.01	-50.06	50.06	48.99	1.07	46.956		
200.00	200.00	200.00	200.00	1.32	1.32	-90.011	-0.01	-50.06	50.06	47,41	2,65	18,900		
300.00	300.00	300.00	300.00	1.80	1.80	-90.011	-0.01	-50.06	50.06	46.46	3.60	13.912		
400.00	400.00	400.00	400.00	2.18	2.18	-90.011	-0.01	-50.06	50.06	45.71	4.35	11.505		
500.00	500.00	500.00	500.00	2.50	2.50	-90.011	-0.01	-50.06	50.06	45.06	5.00	10.017		
600.00	600.00	600.00	600.00	2.79	2.79	-90.011	-0.01	-50.06	50.06	44.49	5.57	8.982		
700.00	700.00	700.00	700.00	3.05	3.05	-90.011	-0.01	-50.06	50.06	43.96	6.10	8.207		
800.00	800.00	800.00	800.00	3.29	3.29	-90.011	-0.01	-50.06	50.06	43.47	6.59	7.598		
900.00	900.00	900.00	900.00	3.52	3.52	-90.011	-0.01	-50.06	50.06	43.01	7.05	7.104		
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	-90.011	-0.01	-50.06	50.06	42.58	7.48	6.692		
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	-90.011	-0.01	-50.06	50.06	42.17	7.89	6.341		
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	-90.011	-0.01	-50.06	50.06	41.77	8.29	6.038		
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	-90.011	-0.01	-50.06	50.06	41.39	8.67	5.773 CC		
1,400.00	1,399.98	1,398.34	1,398.32	4.62	4.61	29.899	-0.46	-51.69	50.20	41.00	9.19	5.460		
1,500.00	1,499.84	1,496.68	1,496.52	4.89	4.89	31.224	-1.82	-56.56	50.62	40.94	9.68	5.229 ES		
1,600.00	1,599.45	1,594.99	1,594.47	5.18	5.17	33.379	-4.07	-64.68	51.39	41.22	10.17	5.052		
1,700.00	1,698.70	1,693.29	1,692.05	5.49	5.48	36.278	-7.22	-76.03	52.58	41.92	10.66	4.933		
1,800.00	1,797.47	1,791.54	1,789.14	5.81	5.80	39.796	-11.26	-90.59	54.31	43.17	11.14	4.875 SF		
1,815.26	1,812.49	1,806.54	1,803.90	5.84	5.85	40.377	-11.96	-93.10	54.63	43.44	11.19	4.883		
1,900.00	1,895.86	1,889.75	1,885.59	6.04	6.14	42.952	-16.19	-108.34	57.59	46.05	11.54	4.990		
2,000.00	1,994.25	1,987.74	1,981.16	6.33	6.50	44.188	-21.99	-129.22	63.92	51.88	12.04	5.307		
2,100.00	2,092.63	2,085.30	2,075.50	6.63	6.87	43.828	-28.62	-153.12	73.20	60.58	12.62	5.801		
2,200.00	2,191.02	2,184.34	2,170.72	6.95	7.21	42.809	-35.91	-179.39	84.36	71.11	13.25	6.367		
2,300.00	2,289.41	2,283.70	2,266.23	7.29	7.55	42.015	-43.24	-205.78	95.58	81.66	13.91	6.869		
2,400.00	2,387.79	2,383.06	2,361.74	7.64	7.91	41.387	-50.57	-232.17	106.81	92.21	14.60	7.313		
2,500.00	2,486.18	2,482.42	2,457.25	8.00	8.29	40.880	-57.89	-258.56	118.05	102.73	15.32	7.707		
2,600.00	2,584.57	2,581.78	2,552.77	8.37	8.67	40.460	-65.22	-284.94	129.30	113.25	16.05	8.056		
2,700.00	2,682.95	2,681.15	2,648.28	8.75	9.07	40.108	-72.54	-311.33	140.55	123.75	16.80	8.366		
2,800.00	2,781.34	2,780.51	2,743.79	9.13	9.48	39.808	-79.87	-337.72	151.81	134.25	17.57	8.642		
2,900.00	2,879.73	2,879.87	2,839.30	9.53	9.90	39.549	-87.19	-364.11	163.08	144.73	18.35	8.888		
3,000.00	2,978.12	2,979.23	2,934.82	9.92	10.32	39.324	-94.52	-390.50	174.34	155.20	19.14	9.109		
3,100.00	3,076.50	3,078.59	3,030.33	10.33	10.75	39.126	-101.85	-416.89	185.61	165.67	19.94	9.308		
3,200.00	3,174.89	3,177.95	3,125.84	10.74	11.19	38.951	-109.17	-443.27	196.88	176.13	20.75	9.487		
3,300.00	3,273.28	3,277.31	3,221.35	11.15	11.63	38.794	-116.50	-469.66	208.15	186.58	21.57	9.648		
3,400.00	3,371.66	3,376.67	3,316.87	11.56	12.08	38.654	-123.82	-496.05	219.42	197.02	22.40	9.795		
3,500.00	3,470.05	3,476.04	3,412.38	11.98	12.53	38.528	-131.15	-522.44	230.70	207.46	23.24	9.929		
3,600.00	3,568.44	3,575.40	3,507.89	12.40	12.98	38.413	-138.47	-548.83	241.97	217.90	24.08	10.050		
3,700.00	3,666.82	3,674.76	3,603.40	12.83	13.44	38.308	-145.80	-575.21	253.25	228.33	24.92	10.162		
3,800.00	3,765.21	3,774.12	3,698.92	13.25	13.90	38.213	-153.13	-601.60	264.52	238.75	25.77	10.264		
3,900.00	3,863.60	3,873.48	3,794.43	13.68	14.37	38.125	-160.45	-627.99	275.80	249.17	26.63	10.358		
4,000.00	3,961.98	3,972.84	3,889.94	14.11	14.83	38.044	-167.78	-654.38	287.08	259.59	27.49	10.444		
4,100.00	4,060.37	4,072.20	3,985.45	14.55	15.30	37.969	-175.10	-680.77	298.36	270.01	28.35	10.524		
4,200.00	4,158.76	4,171.56	4,080.97	14.98	15.77	37.900	-182.43	-707.16	309.64	280.42	29.22	10.598		
4,300.00	4,257.14	4,270.93	4,176.48	15.42	16.24	37.836	-189.75	-733.54	320.92	290.83	30.09	10.667		
4,365.02	4,321.11	4,335.53	4,238.58	15.69	16.55	37.796	-194.52	-750.70	328.25	297.61	30.64	10.714		
4,400.00	4,355.57	4,370.27	4,271.97	15.83	16.72	37.804	-197.08	-759.93	332.36	301.43	30.93	10.745		
4,500.00	4,454.44	4,469.31	4,367.18	16.28	17.19	37.613	-204.38	-786.23	345.97	314.13	31.84	10.866		
4,600.00	4,553.77	4,567.87	4,461.92	16.71	17.66	37.146	-211.65	-812.41	362.35	329.59	32.76	11.060		
4,700.00	4,653.44	4,665.83	4,556.09	17.11	18.13	36.453	-218.87	-838.42	381.53	347.85	33.68	11.327		
4,800.00	4,753.33	4,763.07	4,649.56	17.46	18.60	35.588	-226.04	-864.25	403.59	369.00	34.59	11.669		
4,880.28	4,833.60	4,840.53	4,724.02	17.59	18.98	-84.659	-231.75	-884.82	423.41	388.21	35.20	12.028		
			CC - Min	centre to ce	nter dista	nce or cove	eraent point. SF	- min separ	ation facto	r. ES - mir	n ellipse sei	paration		

PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil

Offset Site Error:

Corporation.

0.00 usft

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Marathon Oil Permian LLC Well Ripley WC Fed Com 701H Company: Local Co-ordinate Reference: Project: Eddy County, NM (NAD27-NME) **TVD Reference:** RKB @ 2978.60usft (Cactus 169) Ripley Fed Com Pad MD Reference: RKB @ 2978.60usft (Cactus 169) Reference Site: 0.00 usft Site Error: North Reference: Grid Reference Well: Ripley WC Fed Com 701H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma **Reference Wellbore** ΟН Database: **USA** Compass Plan 1 11-02-22 Offset TVD Reference: Reference Datum Reference Design:

Offset Design: Ripley Fed Com Pad - Ripley BS Fed Com 501H - OH - Plan 1 11-02-22

Survey Progra	am: 0-1	MWD+HRGM								Rule Assi	gned:		Offset Well Error:	0.00 usft
Refer Measured	ence Vertical	Off: Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,900.00	4,853.32	4,859.48	4,742.24	17.59	19.07	-84.917	-233.15	-889.85	428.52	393.19	35.33	12.129		
5,000.00	4,953.32	4,956.39	4,835.39	17.63	19.53	-86.143	-240.29	-915.58	454.53	418.54	35.99	12.630		
5,100.00	5,053.32	5,070.80	4,946.03	17.67	20.08	-87.330	-248.08	-943.65	478.73	441.96	36.77	13.019		
5,200.00	5,153.32	5,187.47	5,059.95	17.71	20.65	-88.246	-254.81	-967.87	499.30	461.81	37.48	13.321		
5,300.00	5,253.32	5,306.07	5,176.70	17.75	21.21	-88.939	-260.36	-987.88	516.08	477.98	38.10	13.546		
5,400.00	5,353.32	5,426.22	5,295.76	17.79	21.74	-89.439	-264.67	-1,003.40	528.95	490.35	38.61	13.702		
E E00.00	E 452 22	E E 47 E 2	E 416 EE	17 92	22.22	80 770	267.66	1 014 17	527 92	409 92	20.00	12 700		
5,500.00	5,403.32	5,547.55	5,410.00	17.03	22.23	-09.770	-207.00	-1,014.17	542.64	490.02	39.00	13.790		
5,000.00	5 653 32	5 784 47	5 653 32	17.00	22.00	-80 977	-205,20	-1.020.02	542.01	504.23	39.20	13.831		
5,700.00	5 753 32	5 884 47	5 753 32	17.92	22.00	-89.977	-205.00	-1,021.14	543.53	504.20	39.30	13.805		
5 900.00	5 853 32	5 984 47	5 853 32	18.00	22.00	-89 977	-269.60	-1,021.14	543 53	504.08	39.45	13.778		
0,000.00	0,000.02	0,004.47	0,000.02	10.00	22.00	00.077	200.00	1,021.14	040.00	001.00	00.10	10.110		
6,000.00	5,953.32	6,084.47	5,953.32	18.05	22.93	-89.977	-269.60	-1,021.14	543.53	504.00	39.53	13.751		
6,100.00	6,053.32	6,184.47	6,053.32	18.09	22.96	-89.977	-269.60	-1,021.14	543.53	503.92	39.60	13.724		
6,200.00	6,153.32	6,284.47	6,153.32	18.13	22.99	-89.977	-269.60	-1,021.14	543.53	503.84	39.68	13.696		
6,300.00	6,253.32	6,384.47	6,253.32	18.18	23.03	-89.977	-269.60	-1,021.14	543.53	503.76	39.76	13.669		
6,400.00	6,353.32	6,484.47	6,353.32	18.22	23.06	-89.977	-269.60	-1,021.14	543.53	503.68	39.84	13.641		
6,500.00	6,453.32	6,584.47	6,453.32	18.27	23.09	-89.977	-269.60	-1,021.14	543.53	503.60	39.92	13.614		
6,600.00	6,553.32	6,684.47	6,553.32	18.31	23.13	-89.977	-269.60	-1,021.14	543.53	503.52	40.01	13.586		
6,700.00	6,653.32	6,784.47	6,653.32	18.36	23.16	-89.977	-269.60	-1,021.14	543.53	503.44	40.09	13.559		
6,800.00	6,753.32	6,884.47	6,753.32	18.40	23.20	-89.977	-269.60	-1,021.14	543.53	503.36	40.17	13.531		
6,900.00	6,853.32	6,984.47	6,853.32	18.45	23.23	-89.977	-269.60	-1,021.14	543.53	503.27	40.25	13.503		
7 000 00	0.050.00	7 004 47	0.050.00	10.40	00.07	80.077	200.00	1 001 11	E 40 E 0	502.40	40.00	40 475		
7,000.00	7 052 22	7,004.47	7 052 22	10.49	23.27	-09.977	-269.60	-1,021.14	543.53	503.19	40.33	13.4/5		
7,100.00	7,053.32	7,104.47	7,053.32	10.54	23.31	-09.977	-269.60	-1,021.14	543.53	503.11	40.42	13,440		
7,200.00	7,100.02	7,204.47	7,100.02	10.00	23.34	-09.977	-269.60	-1,021.14	543.53	503.02	40.50	13.420		
7,300.00	7,200.02	7,304.47	7,200.02	10.03	23.30	-09.977	-269.60	-1,021.14	543.55	502.94	40.59	13.392		
7,400.00	7,303.32	7,404.47	7,303.32	10.00	23.41	-09.977	-209.00	-1,021.14	043.03	502.65	40.67	13.304		
7,500.00	7,453.32	7,584.47	7,453.32	18.72	23.45	-89.977	-269.60	-1,021.14	543.53	502.77	40.76	13.336		
7,600.00	7,553.32	7,684.47	7,553.32	18.77	23.49	-89.977	-269.60	-1,021.14	543.53	502.68	40.84	13.308		
7,700.00	7,653.32	7,784.47	7,653.32	18.82	23.53	-89.977	-269.60	-1,021.14	543.53	502.60	40.93	13.280		
7,800.00	7,753.32	7,884.47	7,753.32	18.87	23.56	-89.977	-269.60	-1,021.14	543.53	502.51	41.02	13.251		
7,806.29	7,759.61	7,890.76	7,759.61	18.87	23.57	-89.977	-269.60	-1,021.14	543.53	502.50	41.02	13.250		
7,900.00	7,853.32	7,984.34	7,853.18	18.91	23.58	-89.914	-269.00	-1,021.14	543.53	502.45	41.08	13.230		
8,000.00	7,953.32	8,081.96	7,949.85	18.96	23.52	-88.573	-256.28	-1,021.19	543.76	502.74	41.02	13.255		
8,100.00	8,053.32	8,172.85	8,036.71	19.01	23.45	-85.796	-229.85	-1,021.30	545.41	504.53	40.89	13.340		
8,200.00	8,153.32	8,253.72	8,109.64	19.06	23.39	-82.172	-195.05	-1,021.45	550.69	509.95	40.73	13.519		
8,300.00	8,253.32	8,323.49	8,168.09	19.11	23.34	-78.287	-157.04	-1,021.61	562.06	521.50	40.57	13.856		
8 400 00	0 252 22	0 202 64	0 010 70	10.16	<u></u>	74 550	110.44	1 001 77	E01 EC	E41 20	40.25	14 410		
8,400.00	0,303.32	0,302.04	0,213.72	19.16	23.32	-74.552	-119.44	-1,021.77	001.00	541.20	40.35	14.412		
8,500.00	0,400.02	0,432.41	0,240.94	19.21	23.31	-/1.1/9	-64.30	-1,021.91	610.29	570.22	40.07	15.229		
8,600.00	0,000.02	8,474.20	0,270,12	19.20	20.01	-00.230	-52,46	-1,022.05	605.62	656 10	39.74	17,626		
8,700.00	8,653.32	8,500.00	8,291.63	19.31	23.32	-66.403	-31.95	-1,022.13	595.63	744.00	39.44	17.636		
8,800.00	8,753.32	8,550.00	8,319.09	19.36	23.35	-62.825	9.61	-1,022.31	/50.63	/11.62	39.01	19.243		
8,900.00	8,853.32	8,565.39	8,326.80	19.41	23.37	-61.730	23.14	-1,022.36	812.28	773.53	38.76	20.959		
9,000.00	8,953.32	8,600.00	8,342.80	19.46	23.41	-59.292	53.82	-1,022.49	879.98	841.49	38.49	22.864		
9,100.00	9,053.32	8,600.00	8,342.80	19.51	23.41	-59.292	53.82	-1,022.49	952.09	913.76	38.33	24.838		
9,123.72	9,077.04	8,600.00	8,342.80	19.51	23.41	-59.292	53.82	-1,022.49	969.92	931.62	38.29	25.329		
9,150.00	9,103.31	8,615.72	8,349.45	19.50	23.44	-55,485	68.06	-1,022.55	989.45	951.19	38.26	25.863		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil

Corporation.

0.00 usft

Offset Site Error:

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Marathon Oil Permian LLC Well Ripley WC Fed Com 701H Company: Local Co-ordinate Reference: TVD Reference: Project: Eddy County, NM (NAD27-NME) RKB @ 2978.60usft (Cactus 169) Reference Site: Ripley Fed Com Pad RKB @ 2978.60usft (Cactus 169) MD Reference: Site Error: 0.00 usft North Reference: Grid Reference Well: Ripley WC Fed Com 701H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma USA Compass **Reference Wellbore** ΟН Database: Plan 1 11-02-22 Offset TVD Reference: Reference Datum Reference Design:

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 702H - OH - Plan 1 11-02-22

Survey Progr	am: 0-	-MWD+HRGM		0' ·			06414-	no Contro	D	Ru l e Assig	gned:		Offset Well Error:	0.00 usft
Refer Measured Depth	vence Vertical Depth	Off: Measured Depth	set Vertical Depth	Semi M Reference	Alajor Axis Offset	Highside Toolface	Offset Wellbo +N/-S	+E/-W	Dist Between Centres	ance Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usit)	(usit)	(usft)	(usft)	(usft)			
100.00	100.00	100.00	100.00	0.00	0.00	90.000	0.00	50.06	50.06	48 99	1 07	46 956		
200.00	200.00	200.00	200.00	1 32	1 32	90,000	0.00	50.00	50.00	47.41	2 65	18 900		
300.00	300.00	300.00	300.00	1.80	1.80	90.000	0.00	50.06	50.06	46.46	3.60	13.912		
400.00	400.00	400.00	400.00	2.18	2.18	90.000	0.00	50.06	50.06	45.71	4.35	11.505		
500.00	500.00	500.00	500.00	2.50	2.50	90.000	0.00	50.06	50.06	45.06	5.00	10.017		
600.00	600.00	600.00	600.00	2.79	2.79	90.000	0.00	50.06	50.06	44.49	5.57	8.982		
700.00	700.00	700.00	700.00	3.05	3.05	90.000	0.00	50.06	50.06	43.96	6.10	8.207		
900.00	900.00	800.00	900.00	3.29	3.29	90.000	0.00	50.06	50.06	43.47	7.05	7.590		
1 000 00	1 000 00	1 000 00	1 000 00	3.74	3.74	90,000	0.00	50.00	50.00	42.58	7.00	6 692		
1,000.00	1,000.00	1,000.00	1,000.00	0.14	0.14	00.000	0.00	00.00	00.00	42.00	1.10	0.002		
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	90.000	0.00	50.06	50.06	42.17	7.89	6.341		
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	90.000	0.00	50.06	50.06	41.77	8.29	6.038		
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	90.000	0.00	50.06	50.06	41.39	8.67	5.773 CC, E	S	
1,400.00	1,399.98	1,398.54	1,398.52	4.62	4.61	-150.327	-1.01	51.42	52.96	43.80	9.16	5.780		
1,500.00	1,499.84	1,496.58	1,496.42	4.89	4.88	-149.807	-4.03	55.46	61.64	52.01	9.62	6.405		
1 600 00	1 599 45	1 593 64	1 593 13	5 18	5 16	-149 181	-8 99	62 11	76.05	65 95	10 10	7 531		
1,700.00	1,698.70	1.689.26	1.688.07	5.49	5.45	-148.579	-15.79	71.23	96.11	85.52	10.59	9.076		
1,800.00	1,797.47	1,785.04	1,782.82	5.81	5.63	-148.213	-24.12	82.39	121.21	110.19	11.02	11.001		
1,815.26	1,812.49	1,799.73	1,797.36	5.84	5.66	-148.224	-25.42	84.13	125.32	114.25	11.07	11.324		
1,900.00	1,895.86	1,881.28	1,878.01	6.04	5.88	-148.524	-32.62	93.79	148.32	136.89	11.44	12.970		
2,000.00	1,994.25	1,977.52	1,973.20	6.33	6.14	-148.777	-41.12	105.19	175.48	163.55	11.93	14.713		
2,100.00	2,092.63	2,073.76	2,068.38	6.63	6.43	-148.962	-49.63	116.59	202.64	190.19	12.45	16.280		
2,200.00	2,191.02	2,170.00	2,163.56	6.95	5.72	-149.104	-58.13	127.98	229.80	216.80	12.99	17.685		
2,300.00	2,209.41	2,200.24	2,200.70	7.29	7.04	-149.215	-00.03	159.50	230.90	243.39	13.50	20.074		
2,400.00	2,307.79	2,302.40	2,333.93	7.04	7.50	-145.505	-73.13	130.76	204.12	205.57	14.15	20.074		
2,500.00	2,486.18	2,458.72	2,449.11	8.00	7.69	-149.380	-83.64	162.18	311.28	296.52	14.76	21.087		
2,600.00	2,584.57	2,554.96	2,544.30	8.37	8.03	-149.442	-92.14	173.58	338.44	323.06	15.39	21.998		
2,700.00	2,682.95	2,651.20	2,639.48	8.75	8.38	-149.495	-100.64	184.97	365.61	349.58	16.02	22.818		
2,800.00	2,781.34	2,747.44	2,734.66	9.13	8.73	-149.541	-109.14	196.37	392.77	376.10	16.67	23.557		
2,900.00	2,879.73	2,843.68	2,829.85	9.53	9.09	-149.581	-117.64	207.77	419.93	402.60	17.33	24.226		
3 000 00	2 978 12	2 939 92	2 925 03	9.92	9.46	-149 616	-126 15	219 17	447 10	429.09	18.00	24 833		
3 100 00	3 076 50	3 036 16	3 020 21	10.33	9.83	-149.647	-134.65	230.56	474.26	455.58	18.68	25.384		
3,200.00	3.174.89	3,132,40	3.115.40	10.74	10.20	-149.675	-143.15	241.96	501.42	482.05	19.37	25.886		
3,300.00	3,273,28	3,228,64	3,210,58	11.15	10.58	-149.700	-151.65	253.36	528.59	508.52	20.06	26.344		
3,400.00	3,371.66	3,324.88	3,305.76	11.56	10.96	-149.722	-160.16	264.76	555.75	534.98	20.77	26.764		
3,500.00	3,470.05	3,421.12	3,400.95	11.98	11.35	-149.743	-168.66	276.15	582.91	561.44	21.47	27.149		
3,600.00	3,568.44	3,517.36	3,496.13	12.40	11.73	-149.761	-177.16	287.55	610.08	587.90	22.18	27.503		
3,700.00	3,666.82	3,613.60	3,591.32	12.83	12.12	-149.778	-185.66	298.95	637.24	614.34	22.90	27.829		
3,800.00	3,765.21	3,709.84	3,686.50	13.25	12.51	-149.794	-194.17	310.35	604.41	640.79	23.62	28.131		
3,900.00	3,003.00	3,800.08	3,701.00	13.00	12.91	-149.000	-202.07	321.75	691.57	007.23	24.34	20.410		
4,000.00	3,961.98	3,902.32	3,876.87	14.11	13.30	-149.821	-211.17	333.14	718.73	693.66	25.07	28.669		
4,100.00	4,060.37	3,998.56	3,972.05	14.55	13.70	-149.834	-219.67	344.54	745.90	720.10	25.80	28.910		
4,200.00	4,158.76	4,094.80	4,067.23	14.98	14.10	-149.845	-228.17	355.94	773.06	746.53	26.53	29.134		
4,300.00	4,257.14	4,191.04	4,162.42	15.42	14.50	-149.856	-236.68	367.34	800.23	772.95	27.27	29.343		
4,365.02	4,321.11	4,253.61	4,224.30	15.69	14.76	-149.862	-242.20	374.75	817.89	790.15	27.74	29.486		
4 400 00	1 366 67	1 207 22	A 267 66	15 00	14.00	-140 055	- 04E 10	370 71	807.04	700 22	27.00	20 550		
4 500 00	4 454 44	4,207.00	4 361 70	10.03	15 31	-150 111	-240.10	391.03	851 77	823 NN	21.90 28.77	29.559		
4,600.00	4.553 77	4,521.89	4,490 24	16.20	15.86	-150 212	-263 12	402 78	870 79	841 08	29.71	29.313		
4,700.00	4,653.44	4,653.45	4.621.48	17.11	16.36	-150.330	-268.47	409.95	883.21	852.66	30.54	28,918		
4,800.00	4,753.33	4,786.25	4,754.24	17.46	16.67	-150.467	-270.21	412.28	888.92	857.78	31.14	28.549		
				-										
4,880.28	4,833.60	4,865.61	4,833.60	17.59	16.69	90.025	-270.21	412.29	889.90	858.63	31.27	28.457		
			CC - Min	centre to ce	nter dista	nce or cove	ergent point, SF	- min separ	ation facto	r, ES - mir	n ellipse sej	paration		

PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil

Offset Site Error:

Corporation.

0.00 usft

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Marathon Oil Permian LLC Well Ripley WC Fed Com 701H Company: Local Co-ordinate Reference: TVD Reference: Project: Eddy County, NM (NAD27-NME) RKB @ 2978.60usft (Cactus 169) Reference Site: Ripley Fed Com Pad RKB @ 2978.60usft (Cactus 169) MD Reference: Site Error: 0.00 usft North Reference: Grid Reference Well: Ripley WC Fed Com 701H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma USA Compass **Reference Wellbore** ΟН Database: Plan 1 11-02-22 Offset TVD Reference: Reference Datum Reference Design:

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 702H - OH - Plan 1 11-02-22

Survey Progra	am: 0-M	WD+HRGM	not .	Somill	laior Axic		Offeat Mallha	ro Contro	Diet	Rule Assig	gned:		Offset Well Error:	0.00 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Too l face	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	n Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usit)	(usit)	(usft)	(usft)	(usft)	00.440		
4,900.00	4,853.32	4,885.33	4,853.32	17.59	16.70	90.025	-270.21	412.29	889.90	858.62	31.28	28.448		
5 100 00	4,955.52 5 053 32	5 085 33	4,953.32 5.053.32	17.03	16.74	90.025	-270.21	412.29	889.90	858 44	31.46	28,289		
5,200.00	5,153.32	5,185.33	5,153.32	17.71	16.82	90.025	-270.21	412.29	889.90	858.35	31.55	28.209		
5,300.00	5,253.32	5,285.33	5,253.32	17.75	16.87	90.025	-270.21	412.29	889.90	858.26	31.64	28.129		
5,400.00	5,353.32	5,385.33	5,353.32	17.79	16.91	90.025	-270.21	412.29	889.90	858.17	31.73	28.050		
5,500.00	5,453.32	5,485.33	5,453.32	17.83	16.95	90.025	-270.21	412.29	889.90	858.08	31.82	27.970		
5,600.00	5,553.32	5,585.33	5,553.32	17.88	17.00	90.025	-270.21	412.29	889.90	857.99	31.91	27.890		
5,700.00	5,653.32	5,005.33	5,053.32	17.92	17.04	90.025	-270.21	412.29	889.90	857.90	32.00	27.810		
5,000.00	5 853 32	5 885 33	5 853 32	18.00	17.00	90.025	-270.21	412.29	889.90	857 71	32.09	27.750		
0,000.00	0,000.02	0,000.00	0,000.02	10.00	11.10	00.020	270.21	412.20	000.00	007.11	02.10	27.000		
6,000.00	5,953.32	5,985.33	5,953.32	18.05	17.17	90.025	-270.21	412.29	889.90	857.62	32.28	27.570		
6,100.00	6,053.32	6,085.33	6,053.32	18.09	17.22	90.025	-270.21	412.29	889.90	857.53	32.37	27.490		
6,200.00	6,153.32	6,185.33	6,153.32	18.13	17.26	90.025	-270.21	412.29	889.90	857.43	32.47	27.410		
6,300.00	6,253.32	6,285.33	6,253.32	18.18	17.31	90.025	-270.21	412.29	889.90	857.34	32.56	27.330		
6,400.00	6,353.32	6,385.33	6,353.32	18.22	17.35	90.025	-270.21	412.29	889.90	857.24	32.66	27.250		
6 500 00	6 452 22	6 495 22	6 452 22	10.07	17.40	00.025	270.21	412 20	880.00	957 14	20.75	27 170		
6,500.00	6 553 32	6 585 33	6 553 32	18.27	17.40	90.025	-270.21	412.29	889.90	857.05	32.75	27.170		
6 700 00	6 653 32	6 685 33	6 653 32	18.36	17.49	90.025	-270.21	412.20	889.90	856.95	32.00	27.030		
6 800 00	6 753 32	6 785 33	6 753 32	18.00	17.54	90.025	-270.21	412.20	889.90	856 85	33.04	26.930		
6.900.00	6.853.32	6.885.33	6.853.32	18.45	17.58	90.025	-270.21	412.29	889.90	856.75	33.14	26.850		
-,	-,	-,	-,											
7,000.00	6,953.32	6,985.33	6,953.32	18.49	17.63	90.025	-270.21	412.29	889.90	856.66	33.24	26.771		
7,100.00	7,053.32	7,085.33	7,053.32	18.54	17.68	90.025	-270.21	412.29	889.90	856.56	33.34	26.691		
7,200.00	7,153.32	7,185.33	7,153.32	18.58	17.73	90.025	-270.21	412.29	889.90	856.46	33.44	26.611		
7,300.00	7,253.32	7,285.33	7,253.32	18.63	17.77	90.025	-270.21	412.29	889.90	856.36	33.54	26.532		
7,400.00	7,353.32	7,385.33	7,353.32	18.68	17.82	90.025	-270.21	412.29	889.90	856.26	33.64	26.452		
7.500.00	7.453.32	7.485.33	7.453.32	18.72	17.87	90.025	-270.21	412.29	889.90	856.15	33.74	26.373		
7,600.00	7,553.32	7,585.33	7,553.32	18.77	17.92	90.025	-270.21	412.29	889.90	856.05	33.84	26.294		
7,700.00	7,653.32	7,685.33	7,653.32	18.82	17.97	90.025	-270.21	412.29	889.90	855.95	33.95	26.215		
7,800.00	7,753.32	7,785.33	7,753.32	18.87	18.02	90.025	-270.21	412.29	889.90	855.85	34.05	26.136		
7,900.00	7,853.32	7,885.33	7,853.32	18.91	18.06	90.025	-270.21	412.29	889.90	855.75	34.15	26.057		
				10.00										
8,000.00	7,953.32	7,985.33	7,953.32	18,96	18.11	90.025	-270.21	412.29	889.90	855.64	34.26	25.978		
8,100.00	0,000.0Z	0,000.00	0,000.02	19.01	10.10	90.025	-270.21	412.29	880.00	855.42	34.30	25.099		
8 300 00	8 253 32	8 285 33	8 253 32	19.00	18.26	90.025	-270.21	412.20	889.90	855.33	34.57	25.021		
8,400.00	8.353.32	8.385.33	8.353.32	19.16	18.31	90.025	-270.21	412.29	889.90	855.22	34.67	25.664		
-,	-,	-,												
8,500.00	8,453.32	8,485.33	8,453.32	19.21	18.37	90.025	-270.21	412.29	889.90	855.12	34.78	25.586		
8,600.00	8,553.32	8,585.33	8,553.32	19.26	18.42	90.025	-270.21	412.29	889.90	855.01	34.89	25.508		
8,700.00	8,653.32	8,685.33	8,653.32	19.31	18.47	90.025	-270.21	412.29	889.90	854.90	34.99	25.430		
8,800.00	8,753.32	8,785.33	8,753.32	19.36	18.52	90.025	-270.21	412.29	889.90	854.80	35.10	25.353		
8,900.00	8,853.32	8,885.33	8,853.32	19.41	18.57	90.025	-270.21	412.29	889.90	854.69	35.21	25.275		
9,000.00	8,953.32	8,985.33	8,953.32	19.46	18.62	90.025	-270.21	412.29	889.90	854.58	35.32	25.198		
9,100.00	9,053.32	9,085.33	9,053.32	19.51	18.68	90.025	-270.21	412.29	889.90	854.47	35.43	25.117		
9,123.72	9,077.04	9,109.05	9,077.04	19.51	18.69	90.025	-270.21	412.29	889.90	854.45	35.45	25.103		
9,150.00	9,103.31	9,135.52	9,103.50	19.50	18.68	90.265	-269.60	412.28	889.90	854.44	35.46	25.097		
9,200.00	9,153.10	9,185.88	9,153.64	19.46	18.64	90.263	-265.06	412.26	889.90	854.43	35.47	25.090		
9,250.00	9,202.30	9,236.24	9,203.19	19.40	18.57	90.259	-256.15	412.23	889.90	854.44	35.46	25.097		
9,300.00	9,250.55	9,286.59	9,251.75	19.33	18.49	90.253	-242.92	412.17	889.90	854.47	35.43	25.116		
9,350.00	9,297.49	9,336.93	9,298.96	19.27	10.41	90.245	-225.49	412.10	880.00	004.5U	35.39	∠0.144 25.170		
9,400.00	9,342.74	9,307.20	9,344.44 9,387.85	19.20 10.17	10.00	90.235 90.235	-203.90	412.01 411 Q∩	009.9U 880 80	004.00 854.60	35.34	20.178 25.214		
3,400.00	0,000.07	5,757.50	5,007.00	10.14	10.20	50.220	-175.50	411.55	000.09	00-1.00	55.25	20.214		
9,500.00	9,426.85	9,487.86	9,428.85	19.08	18.19	90.210	-149.48	411.78	889.89	854.65	35.25	25.246		
			CC - Min	centre to ce	nter dista	nce or cove	ergent point. SF	- min separ	ation facto	r. ES - mir	n ellipse se	paration		
1/2/2022 11	1·37·1541	1					Page 8			.,			COMPASS 5000 15	Ruild 021
							1 490 0						JUNI 700 0000.10	Dunu JJA

11/2/2022 11:37:15AM

PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil Corporation.

Offset Site Error: 0.00 usft

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Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 702H - OH - Plan 1 11-02-22

Survey Progra	am: 0	-MWD+HRGM		- ··						Rule Assi	gned:		Offset Well Error:	0.00 usft
Refer Measured	ence Vertica	Off: Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellbo	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
9,550.00	9,465.07	9,538.13	9,467.13	19.04	18.13	90.195	-116.91	411.64	889.89	854.68	35.22	25.270		
9,600.00	9,500.33	9,588.39	9,502.39	19.01	18.09	90.178	-81.13	411.49	889.89	854.69	35.20	25.281		
9,650.00	9,532.38	9,638.62	9,534.37	19.00	18.07	90,160	-42.41	411.33	889.89	854.68	35.21	25.271		
9,700.00	9,560.96	9,688.82	9,562.82	19.01	18.07	90.141	-1.07	411.16	889.89	854.63	35.26	25.237		
9,750.00	9,585.85	9,739.00	9,587.53	19.05	18.09	90.121	42.58	410.98	889.89	854.54	35.35	25.174		
9,800.00	9,606.87	9,789.15	9,608.32	19.11	18.15	90.100	88.20	410.78	889.89	854.40	35.49	25.077		
9,850.00	9,623.87	9,839.27	9,625.03	19.21	18.23	90.078	135.44	410.59	889.89	854.21	35.67	24.945		
9,900.00	9,636.69	9,889.36	9,637.54	19.33	18.35	90.056	183.92	410.38	889.89	853.97	35.92	24.776		
9,950.00	9,645.26	9,939.42	9,645.77	19.49	18.49	90.033	233.28	410.18	889.89	853.67	36.22	24.571		
10,000.00	9,649.51	9,989.45	9,649.66	19.68	18.67	90.010	283.14	409.97	889.89	853.32	36.57	24.333		
10,023.72	9,650.00	10,013.17	9,650.00	19.77	18.77	90.000	306.86	409.87	889.89	853.13	36.76	24.210		
10,100.00	9,650.00	10,089.45	9,650.00	20.13	19.11	90.000	383.14	409.55	889.89	852.44	37.45	23.761		
10,200.00	9,650.00	10,189.45	9,650.00	20.66	19.64	90.000	483.14	409.13	889.89	851.35	38.54	23.091		
10,300.00	9,650.00	10,289.45	9,650.00	21.27	20.24	90.000	583.14	408.71	889.89	850.08	39.81	22.356		
10,400.00	9,650.00	10,389.45	9,650.00	21.95	20.92	90.000	683.14	408.29	889.89	848.65	41.23	21,581		
10,500.00	9,650.00	10,489.45	9,650.00	22.69	21.68	90.000	783.14	407.87	889.89	847.08	42.81	20.788		
												10.001		
10,600.00	9,650.00	10,589.45	9,650.00	23.49	22.49	90.000	883.14	407.45	889.89	845.37	44.51	19,991		
10,700.00	9,650.00	10,689.45	9,650.00	24.34	23.37	90.000	983.14	407.04	889.89	843.55	46.34	19.205		
10,800.00	9,650.00	10,789.45	9,650.00	25.25	24.31	90.000	1,083.14	406.62	889.89	841.63	48.26	18.439		
10,900.00	9,650.00	10,889.45	9,650.00	26.20	25.29	90.000	1,183.14	406.20	889.89	839.61	50.28	17.700		
11,000.00	9,650.00	10,989.45	9,650.00	27.20	26.32	90.000	1,283.13	405.78	889.89	837.51	52.37	16.991		
11,100.00	9,650.00	11,089.45	9,650.00	28.23	27.38	90.000	1,383.13	405.36	889.89	835.35	54.54	16.316		
11,200.00	9,650.00	11,189.45	9,650.00	29.30	28.48	90.000	1,483.13	404.94	889.89	833.12	56.77	15.675		
11,300.00	9,650.00	11,289.45	9,650.00	30.40	29.61	90.000	1,583.13	404.52	889.89	830.83	59.06	15.068		
11,400.00	9,650.00	11,389.45	9,650.00	31.52	30.77	90.000	1,683.13	404.10	889.89	828.49	61.40	14.494		
11,500.00	9,650.00	11,489.45	9,650.00	32.67	31.95	90.000	1,783.13	403.68	889.89	826.11	63.78	13.953		
11,600.00	9,650.00	11,589.45	9,650.00	33.84	33.16	90.000	1,883.13	403.27	889.89	823.69	66.20	13.443		
11,700.00	9,650.00	11,689.45	9,650.00	35.04	34.38	90.000	1,983.13	402.85	889.89	821.23	68.65	12.962		
11,800.00	9,650.00	11,789.45	9,650.00	36.25	35.62	90.000	2,083.13	402.43	889.89	818.75	71.14	12,508		
11,900.00	9,650.00	11,889.45	9,650.00	37.48	36.87	90.000	2,183.13	402.01	889.89	816.23	73.66	12.081		
12,000.00	9,650.00	11,989.45	9,650.00	38.72	38.14	90.000	2,283.13	401.59	889.89	813.69	76.20	11.678		
12 100 00	0.650.00	10 090 45	0.650.00	20.07	20.42	00.000	0 080 10	404 47	880.80	011 10	70 77	11 209		
12,100.00	9,650.00	12,089.45	9,650.00	39.97	39.42	90.000	2,383.12	401.17	889.89	811.12	/8.//	11.298		
12,200.00	9,650.00	12,189.45	9,650.00	41.24	40.71	90.000	2,483.12	400.75	889.89	808.54	81.35	10.939		
12,300.00	9,650.00	12,289.45	9,650.00	42.52	42.01	90.000	2,583.12	400.33	889.89	805.93	83.96	10.599		
12,400.00	9,650.00	12,369.45	9,650.00	45.01	43.32	90.000	2,083.12	399.91	889.89	800.67	89.22	9.974		
12,000.00	0,000.00	12,100.10	0,000.00	10.11	11.01	00.000	2,100.12	000.00	000.00	000.07	00.22	0.07 1		
12,600.00	9,650.00	12,589.45	9,650.00	46.41	45.96	90.000	2,883.12	399.08	889.89	798.02	91.87	9.686		
12,700.00	9,650.00	12,689.45	9,650.00	47.73	47.29	90.000	2,983.12	398.66	889.89	795.35	94.54	9.413		
12,800.00	9,650.00	12,789.45	9,650.00	49.05	48.63	90.000	3,083.12	398.24	889.89	792.67	97.22	9.154		
12,900.00	9,650.00	12,889.45	9,650.00	50.38	49.98	90.000	3,183.12	397.82	889.89	789.98	99.91	8.907		
13,000.00	9,650.00	12,989.45	9,650.00	51./1	51.33	90.000	3,283.12	397.40	889.89	/8/.28	102.60	8.673		
13,100.00	9,650.00	13,089.45	9,650.00	53.05	52.68	90.000	3,383.12	396.98	889.89	784.57	105.31	8.450		
13,200.00	9,650.00	13,189.45	9,650.00	54.40	54.04	90.000	3,483.12	396.56	889.89	781.86	108.03	8.237		
13,300.00	9,650.00	13,289.45	9,650.00	55.75	55.40	90.000	3,583.11	396.14	889.89	779.13	110.76	8.035		
13,400.00	9,650.00	13,389.45	9,650.00	57.10	56.77	90.000	3,683.11	395.73	889.89	776.40	113.49	7.841		
13,500.00	9,650.00	13,489.45	9,650.00	58.46	58.14	90.000	3,783.11	395.31	889.89	773.66	116.23	7.656		
13,600.00	9,650.00	13,589.45	9,650.00	59.82	59.51	90.000	3,883.11	394.89	889.89	770.91	118.98	7.479		
13,700.00	9,650.00	13,689.45	9,650.00	61.19	60.89	90.000	3,983.11	394.47	889.89	768.16	121.73	7.310		
13,800.00	9,650.00	13,789.45	9,650.00	62.56	62.27	90.000	4,083.11	394.05	889.89	765.40	124.49	7.148		
13,900.00	9,650.00	13,889.45	9,650.00	63.93	63.65	90.000	4,183.11	393.63	889.89	762.63	127.26	6.993		
14,000.00	9,650.00	13,989.45	9,650.00	65.30	65.04	90.000	4,283.11	393.21	889.89	759.86	130.03	6.844		
14 100 00	0.650.00	14 000 45	0.650.00	00.00	66 40	00.000	4 000 44	200 70	000.00	767.00	120.00	6 704		
14,100.00	9,000.00	14,009.40	9,000.00	80.00	00.43	90.000	4,303.11	392.19	009.09	101.09	132.00	0.701		
			CC - Min	centre to ce	nter dista	nce or cove	ergent point, SF	 min separ 	ration facto	r, ES - mir	n ellipse se	paration		

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COMPASS 5000.15 Build 93A

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PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

MarathonOil Corporation.

Offset Site Error: 0.00 usft

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Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 702H - OH - Plan 1 11-02-22

Survey Program: 0-MWD+HRGM Reference Offset Semi Measured Vertical Measured Vertical Reference			laior Avis		Offset Wellbr	ore Centre	Dist	Rule Assig	gned:		Offset Well Error:	0.00 usft		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
14 200 00	9 650 00	14 189 45	9 650 00	68.06	67.82	90,000	4 483 11	302.37	880.80	754 31	135.58	6 564		
14,200.00	9,650,00	14 289 45	9,650,00	69.44	69.21	90,000	4 583 11	391.96	889.89	751 53	138.36	6.432		
14,000.00	9 650 00	14 389 45	9,650,00	70.83	70.60	90,000	4 683 10	391.54	889.89	748 74	141 15	6 305		
14,500.00	9.650.00	14,489,45	9.650.00	72.22	72.00	90.000	4,783.10	391.12	889.89	745.95	143.94	6.183		
14.600.00	9.650.00	14,589,45	9,650.00	73.61	73.39	90.000	4,883,10	390.70	889.89	743.16	146.73	6.065		
14,700.00	9,650.00	14,689.45	9,650.00	75.00	74.79	90.000	4,983.10	390.28	889.89	740.36	149.53	5.951		
14,800.00	9,650.00	14,789.45	9,650.00	76.39	76.19	90.000	5,083.10	389.86	889.89	737.56	152.33	5.842		
14,900.00	9,650.00	14,889.45	9,650.00	77.79	77.60	90.000	5,183.10	389.44	889.89	734.76	155.13	5.736		
15,000.00	9,650.00	14,989.45	9,650.00	79.18	79.00	90.000	5,283.10	389.02	889.89	731.95	157.93	5.635		
15,100.00	9,650.00	15,089.45	9,650.00	80.58	80.40	90.000	5,383.10	388.60	889.89	729.15	160.74	5.536		
15,200.00	9,650.00	15,189.45	9,650.00	81.98	81.81	90.000	5,483.10	388.19	889.89	726.34	163.55	5.441		
15 300 00	9 650 00	15 289 45	9 650 00	83 38	83.22	90,000	5 583 10	387 77	889 89	723 52	166 36	5 349		
15 400 00	9 650 00	15 389 45	9 650 00	84.78	84.62	90,000	5 683 10	387.35	889.89	720.02	169.00	5 260		
15 500 00	9 650 00	15 489 45	9 650 00	86 19	86.03	90,000	5 783 09	386.93	889.89	717 89	172.00	5 174		
15.600.00	9.650.00	15,589,45	9.650.00	87.59	87.44	90.000	5.883.09	386.51	889.89	715.07	174.82	5.090		
15,700.00	9,650.00	15,689.45	9,650.00	89.00	88.85	90.000	5,983.09	386.09	889.89	712.25	177.64	5.010		
15,800.00	9,650.00	15,789.45	9,650.00	90.40	90.27	90.000	6,083.09	385.67	889.89	709.43	180.46	4.931		
15,900.00	9,650.00	15,889.45	9,650.00	91.81	91.68	90.000	6,183.09	385.25	889.89	706.60	183.28	4.855		
16,000.00	9,650.00	15,989.45	9,650.00	93.22	93.09	90.000	6,283.09	384.84	889.89	703.78	186.11	4.781		
16,100.00	9,650.00	16,089.45	9,650.00	94.63	94.51	90.000	6,383.09	384.42	889.89	700.95	188.94	4.710		
16,200.00	9,650.00	16,189.45	9,650.00	96.04	95.92	90.000	6,483.09	384.00	889.89	698.12	191.77	4.640		
16 200 00	0 650 00	16 290 45	0.650.00	07.45	07.24	00.000	6 582 00	202 50	000 00	605 20	104.60	4 572		
16,300.00	9,000.00	16 389 45	9,000.00	98.86	97.34	90.000	6,505.09	383.16	889.89	692.46	194.00	4 507		
16,400.00	9,650,00	16 489 45	9,650,00	100.28	100.17	90.000	6 783 09	382 74	889.89	689.62	200.26	4.507		
16,600.00	9 650 00	16 589 45	9,650,00	101.69	101.59	90,000	6 883 09	382.32	889.89	686 79	203.10	4 382		
16,700.00	9.650.00	16.689.45	9.650.00	103.11	103.01	90.000	6,983.08	381.90	889.89	683.95	205.94	4.321		
	-,	,	-,				-,							
16,800.00	9,650.00	16,789.45	9,650.00	104.52	104.43	90.000	7,083.08	381.48	889.89	681.12	208.77	4.262		
16,900.00	9,650.00	16,889.45	9,650.00	105.94	105.85	90.000	7,183.08	381.07	889.89	678.28	211.61	4.205		
17,000.00	9,650.00	16,989.45	9,650.00	107.35	107.27	90.000	7,283.08	380.65	889.89	675.44	214.45	4.150		
17,100.00	9,650.00	17,089.45	9,650.00	108.77	108.69	90.000	7,383.08	380.23	889.89	672.60	217.29	4.095		
17,200.00	9,650.00	17,189.45	9,650.00	110.19	110.11	90.000	7,483.08	379.81	889.89	669.76	220.13	4.043		
17 300 00	9 650 00	17 289 45	9 650 00	111 61	111 53	90,000	7 583 08	370 30	880 80	666 01	222.08	3 001		
17,300.00	9,650,00	17 389 45	9,650,00	113.03	112.95	90,000	7,505.00	378.97	889.89	664.07	222.00	3 941		
17,500.00	9 650 00	17 489 45	9,650.00	114 44	114.38	90,000	7 783 08	378 55	889.89	661.23	228.66	3 892		
17.600.00	9.650.00	17,589,45	9.650.00	115.86	115.80	90.000	7,883.08	378.13	889.89	658.38	231.51	3.844		
17,700.00	9.650.00	17.689.45	9.650.00	117.28	117.22	90.000	7,983.08	377.71	889.89	655.53	234.35	3.797		
,.	-,	,	-,				.,							
17,800.00	9,650.00	17,789.45	9,650.00	118.71	118.65	90.000	8,083.07	377.30	889.89	652.69	237.20	3.752		
17,900.00	9,650.00	17,889.45	9,650.00	120.13	120.07	90.000	8,183.07	376.88	889.89	649.84	240.05	3.707		
18,000.00	9,650.00	17,989.45	9,650.00	121.55	121.50	90.000	8,283.07	376.46	889.89	646.99	242.90	3.664		
18,100.00	9,650.00	18,089.45	9,650.00	122.97	122.92	90.000	8,383.07	376.04	889.89	644.14	245.75	3.621		
18,200.00	9,650.00	18,189.45	9,650.00	124.39	124.35	90.000	8,483.07	375.62	889.89	641.29	248.60	3.580		
18 300 00	9 650 00	18 289 45	9 650 00	125.82	125 77	90.000	8 583 07	375 20	880 80	638 44	251.45	3 530		
18,400.00	9,650.00	18 389 45	9,650,00	123.02	127.20	90.000	8 683 07	374 78	889.89	635.59	254 30	3 499		
18 500 00	9 650 00	18 489 45	9 650 00	128.66	128.62	90,000	8 783 07	374.36	889.89	632 74	257 15	3 461		
18.600.00	9.650.00	18,589,45	9.650.00	130.09	130.05	90.000	8.883.07	373.94	889.89	629.89	260.00	3.423		
18,700.00	9,650.00	18,689,45	9,650.00	131,51	131,48	90.000	8,983,07	373,53	889.89	627.03	262,85	3,385		
18,800.00	9,650.00	18,789.45	9,650.00	132.94	132.90	90.000	9,083.07	373.11	889.89	624.18	265.71	3.349		
18,900.00	9,650.00	18,889.45	9,650.00	134.36	134.33	90.000	9,183.07	372.69	889.89	621.33	268.56	3.314		
19,000.00	9,650.00	18,989.45	9,650.00	135.79	135.76	90.000	9,283.06	372.27	889.89	618.47	271.41	3.279		
19,100.00	9,650.00	19,089.45	9,650.00	137.21	137.19	90.000	9,383.06	371.85	889.89	615.62	274.27	3.245		
19,200.00	9,650.00	19,189.45	9,650.00	138.64	138.61	90.000	9,483.06	371.43	889.89	612.76	277.13	3.211		
19,300.00	9.650.00	19,289 45	9.650.00	140.06	140 04	90 000	9,583.06	371 01	889 89	609 91	279 98	3,178		
	0,000.00		0,000.00	. 10.00			2,000.00				2.0.00			
			CC - Min	centre to ce	nter dista	nce or cove	rgent point, SF	 min separ 	ation facto	or, ES - mir	n ellipse se	paration		

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COMPASS 5000.15 Build 93A

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PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil Corporation.

Offset Site Error

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0.00 usft

Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 702H - OH - Plan 1 11-02-22

										_				
Survey Progra	am: (D-MWD+HRGM	cot	Somi I	Major Avia		Offect Wollby	oro Contro	Die	Rule Assi	gned:		Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Onset Wellbo	ore Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
19,400.00	9,650.00	19,389.45	9,650.00	141.49	141.47	90.000	9,683.06	370.59	889.89	607.05	282.84	3.146		-
19,500.00	9,650.00	19,489.45	9,650.00	142.92	142.90	90.000	9,783.06	370.17	889.89	604.19	285.69	3.115		
19,600.00	9,650.00	19,589.45	9,650.00	144.34	144.33	90.000	9,883.06	369.76	889.89	601.34	288.55	3.084		
19,700.00	9,650.00	19,689.45	9,650.00	145.77	145.76	90.000	9,983.06	369.34	889.89	598.48	291.41	3.054		
19,702.63	9,650.00	19,692.07	9,650.00	145.81	145.80	90.000	9,985.68	369.33	889.89	598.40	291.48	3.053		
19,782.70	9,650.00	19,748.32	9,650.00	146.95	146.60	90.000	10,041.93	369.09	890.21	596.91	293.30	3.035 SF		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Offset Site Error: 0.00 usft

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Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ОН	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 801H - OH - Plan 1 11-02-22

Survey Progra	am: 0- nence	-MWD+HRGM	sot	Semi Maior Axis		Rule Assigned: Maior Avis Diffset Wellhore Centre Distance		Rule Assig			Rule Assigned: Distance				Offset Well Error:	0.00 usft
Measured	easured Vertical Measured Vertica		Vertical	cal Reference Offset	set Highside	+N/ S	+=/ W/	Between	Between	Minimum	Separation	Warning				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+11/-3 (usft)	+⊏/-₩ (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor				
0.00	0.00	0.00	0.00	0.00	0.00	-89 382	0.27	-25.03	25.03	(4011)	(4014)					
100.00	100.00	100.00	100.00	0.53	0.53	-89 382	0.27	-25.03	25.03	23 97	1 07	23 480				
200.00	200.00	200.00	200.00	1.32	1.32	-89.382	0.27	-25.03	25.03	22.38	2.65	9.450				
300.00	300.00	300.00	300.00	1.80	1.80	-89.382	0.27	-25.03	25.03	21.43	3.60	6.956				
400.00	400.00	400.00	400.00	2.18	2.18	-89.382	0.27	-25.03	25.03	20.68	4.35	5.753				
500.00	500.00	500.00	500.00	2.50	2.50	-89.382	0.27	-25.03	25.03	20.03	5.00	5.009				
600.00	600.00	600.00	600.00	2.79	2.79	-89.382	0.27	-25.03	25.03	19.46	5.57	4.491				
700.00	700.00	700.00	700.00	3.05	3.05	-89.382	0.27	-25.03	25.03	18.93	6.10	4.103				
800.00	800.00	800.00	800.00	3.29	3.29	-89.382	0.27	-25.03	25.03	18.44	6.59	3.799				
900.00	900.00	900.00	900.00	3.52	3.52	-89.382	0.27	-25.03	25.03	17.98	7.05	3.552				
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	-89.382	0.27	-25.03	25.03	17.55	7.48	3.346				
1 100 00	1 100 00	1 100 00	1 100 00	3 95	3 95	-89 382	0.27	-25.03	25.03	17 14	7 89	3 171				
1,200.00	1.200.00	1,200.00	1,200.00	4.15	4.15	-89.382	0.27	-25.03	25.03	16.74	8.29	3.019				
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	-89.382	0.27	-25.03	25.03	16.36	8.67	2.887 CC				
1,400.00	1,399,98	1,399,13	1,399,11	4.62	4.62	32.053	0.29	-26.74	25,27	16.06	9.20	2.746 ES				
1,500.00	1,499.84	1,498.20	1,498.05	4.89	4.90	37.715	0.36	-31.88	26.15	16.46	9.68	2.700 SF				
1,600.00	1,599.45	1,597.19	1,596.65	5.18	5.19	46.187	0.46	-40.43	28.13	18.01	10.12	2.780				
1,700.00	1,698.70	1,696.03	1,694.77	5.49	5.50	55.924	0.61	-52.36	31.77	21.28	10.49	3.029				
1,800.00	1,797.47	1,794.69	1,792.23	5.81	5.83	65.267	0.81	-67.63	37.49	26.68	10.80	3.470				
1,815.26	1,812.49	1,809.72	1,807.04	5.84	5.88	66.582	0.84	-70.25	38.55	27.73	10.83	3.561				
1,900.00	1,895.86	1,893.12	1,888.89	6.04	6.17	71.838	1.04	-86.21	45.80	34.72	11.08	4.132				
2 000 00	1 994 25	1 991 21	1 984 53	6 33	6.53	73 922	1.31	-108.01	56 92	45 41	11 51	4 947				
2 100 00	2 092 63	2 088 73	2 078 81	6.63	6.91	73 362	1.63	-132.91	70.49	58 48	12.01	5 870				
2.200.00	2.191.02	2,186,86	2.172.97	6.95	7.21	71.756	1.98	-160.52	86.01	73.49	12.52	6.868				
2,300.00	2,289.41	2,285.60	2,267.67	7.29	7.55	70.557	2.33	-188.49	101.74	88.62	13.11	7.758				
2,400.00	2,387.79	2,384.34	2,362.36	7.64	7.92	69.679	2.68	-216.46	117.49	103.77	13.73	8.559				
2,500.00	2,486.18	2,483.07	2,457.05	8.00	8.29	69.008	3.03	-244.43	133.27	118.91	14.36	9.281				
2,600.00	2,584.57	2,581.81	2,551.74	8.37	8.68	68.480	3.38	-272.40	149.06	134.06	15.01	9.932				
2,700.00	2,682.95	2,680.55	2,646.43	8.75	9.08	68.053	3.74	-300.37	164.87	149.19	15.67	10.519				
2,800.00	2,781.34	2,779.28	2,741.12	9.13	9.49	67.700	4.09	-328.34	180.68	164.33	16.35	11.050				
2,900.00	2,879.73	2,878.02	2,835.81	9.53	9.91	67.405	4.44	-356.31	196.49	179.45	17.04	11.532				
3 000 00	2,978,12	2,976,76	2,930,50	9 92	10 34	67 153	4 79	-384 28	212 31	194 57	17 74	11 969				
3,100.00	3.076.50	3.075.50	3.025.20	10.33	10.77	66.936	5.15	-412.26	228.13	209.69	18.45	12.367				
3,200.00	3,174.89	3,174.23	3,119.89	10.74	11.20	66.747	5.50	-440.23	243.96	224.80	19.16	12.730				
3,300.00	3,273.28	3,272.97	3,214.58	11.15	11.65	66.582	5.85	-468.20	259.79	239.90	19.89	13.063				
3,400.00	3,371.66	3,371.71	3,309.27	11.56	12.09	66.435	6.20	-496.17	275.62	255.00	20.62	13.367				
3,500.00	3,470.05	3,470.44	3,403.96	11.98	12.55	66.304	6.55	-524.14	291.45	270.09	21.36	13.647				
3,600.00	3,568.44	3,569.18	3,498.65	12.40	13.00	66.187	6.91	-552.11	307.28	285.18	22.10	13.905				
3,700.00	3,666.82	3,667.92	3,593.34	12.83	13.46	66.082	7.26	-580.08	323.12	300.27	22.85	14.144				
3,800.00	3,765.21	3,766.65	3,688.04	13.25	13.92	65.986	7.61	-608.05	338.95	315.36	23.60	14.364				
3,900.00	3,863.60	3,865.39	3,782.73	13.68	14.38	65.898	7.96	-636.02	354.79	330.44	24.35	14.569				
4.000.00	3.961.98	3.964.13	3.877.42	14.11	14.85	65.818	8.31	-663.99	370.62	345.51	25.11	14.759				
4,100.00	4,060.37	4,062.86	3,972,11	14.55	15.32	65.745	8.67	-691.96	386.46	360.59	25.87	14.936				
4,200.00	4,158.76	4,167.57	4,072.66	14.98	15.81	65.715	9.03	-721.16	401.95	375.27	26.68	15.065				
4,300.00	4,257.14	4,279.59	4,181.21	15.42	16.36	65.992	9.38	-748.79	414.77	387.26	27.50	15.081				
4,365.02	4,321.11	4,352.79	4,252.70	15.69	16.71	66.356	9.58	-764.55	421.43	393.46	27.97	15.066				
4,400.00	4,355.57	4,392.27	4,291.41	15.83	16.90	66.637	9.68	-772.29	424.56	396.35	28.21	15.052				
4,500.00	4,454.44	4,505.37	4,402.86	16.28	17.43	67.319	9.92	-791.49	432.33	403.47	28.86	14.979				
4,600.00	4,553.77	4,618.80	4,515.30	16.71	17.92	67.830	10.11	-806.32	438.34	408.92	29.43	14.897				
4,700.00	4,653.44	4,/32.48	4,628.50	17.11	18.38	68.180	10.24	-816.71	442.56	412.66	29.90	14.803				
4,800.00	4,753.33	4,846.31	4,742.17	17.46	18.79	68.375	10.31	-822.60	444.95	414.69	30.26	14./05				
4,880.28	4,833.60	4,937.75	4,833.60	17.59	19.00	-51.040	10.33	-824.06	445.54	415.15	30.39	14.660				
,		,	00.11							. 50						
	CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation															

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PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil

Corporation.

0.00 usft

Offset Site Error:

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Marathon Oil Permian LLC Well Ripley WC Fed Com 701H Company: Local Co-ordinate Reference: TVD Reference: Project: Eddy County, NM (NAD27-NME) RKB @ 2978.60usft (Cactus 169) Reference Site: Ripley Fed Com Pad RKB @ 2978.60usft (Cactus 169) MD Reference: Site Error: 0.00 usft North Reference: Grid Reference Well: Ripley WC Fed Com 701H Survey Calculation Method: Minimum Curvature Well Error: 0.00 usft Output errors are at 2.00 sigma USA Compass **Reference Wellbore** ΟН Database: Plan 1 11-02-22 Offset TVD Reference: Reference Datum Reference Design:

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 801H - OH - Plan 1 11-02-22

Survey Progra	Survey Program: 0-		/WD+HRGM		Sami Majar Avia		Offect Wallbr	ro Contro	Rule Assigned:			Offset Well Error:	0.00 usft	
Measured	Vertical	Measured	Vertical	Reference Offset		Highside	Offset Wellbo			Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usit)	(usit)	(usft)	(usft)	(usft)			
4,881.72	4,835.05	4,939.40	4,835.25	17.59	19.01	-51.040	10.33	-824.06	445.54	415.15	30.39	14.661		
4,900.00	4,853.32	4,957.47	4,853.32	17.59	19.01	-51.040	10.33	-824.06	445.54	415.15	30.40	14.657		
5,000.00	4,953.32	5,057.47	4,953.32	17.63	19.05	-51.040	10.33	-824.06	445.54	415.05	30.49	14.611		
5,100.00	5,053.32	5,157.47	5,053.32	17.67	19.09	-51.040	10.33	-824.06	445.54	414.95	30.60	14.561		
5,200.00	5,153.32	5,257.47	5,153.32	17.71	19.13	-51.040	10.33	-024.00	445.54	414.04	30.70	14.512		
5,300.00	5,255.52	5,557.47	0,200.02	17.75	19.10	-51.040	10.55	-024.00	445.54	414./4	30.01	14.402		
5,400.00	5,353.32	5,457.47	5,353.32	17.79	19.22	-51.040	10.33	-824.06	445.54	414.63	30.91	14.413		
5,500.00	5,453.32	5,557.47	5,453.32	17.83	19.27	-51.040	10.33	-824.06	445.54	414.52	31.02	14.363		
5,600.00	5,553.32	5,657.47	5,553.32	17.88	19.31	-51.040	10.33	-824.06	445.54	414.42	31.13	14.314		
5,700.00	5,653.32	5,757.47	5,653.32	17.92	19.35	-51.040	10.33	-824.06	445.54	414.31	31.23	14.265		
5,800.00	5,753.32	5,857.47	5,753.32	17.96	19.40	-51.040	10.33	-824.06	445.54	414.20	31.34	14.216		
5,900.00	5,853.32	5,957.47	5,853.32	18.00	19.45	-51.040	10.33	-824.06	445.54	414.09	31.45	14.167		
6,000.00	5,953.32	6,057.47	5,953.32	18.05	19.49	-51.040	10.33	-824.06	445.54	413.98	31.56	14.118		
6,100.00	6,053.32	6,157.47	6,053.32	18.09	19.54	-51.040	10.33	-824.06	445.54	413.88	31.67	14.069		
6,200.00	6,103.32	6 257 47	6,100.0Z	10.13	10.50	-51.040	10.33	-024.00	445.54	413.//	21.00	14.021		
0,300.00	0,203.32	0,357.47	0,203.32	10.10	19.05	-51.040	10.55	-024.00	445.54	413.00	31.09	13.972		
6,400.00	6,353.32	6,457.47	6,353.32	18.22	19.68	-51.040	10.33	-824.06	445.54	413.54	32.00	13,924		
6,500.00	6,453.32	6,557.47	6,453.32	18.27	19.72	-51.040	10.33	-824.06	445.54	413.43	32.11	13.876		
6,600.00	6,553.32	6,657.47	6,553.32	18.31	19.77	-51.040	10.33	-824.06	445.54	413.32	32.22	13.828		
6,700.00	6,653.32	6,757.47	6,653.32	18.36	19.82	-51.040	10.33	-824.06	445.54	413.21	32.33	13.780		
6,800.00	6,753.32	6,857.47	6,753.32	18.40	19.87	-51.040	10.33	-824.06	445.54	413.10	32.45	13.732		
6,900.00	6,853.32	6,957.47	6,853.32	18.45	19.91	-51.040	10.33	-824.06	445.54	412.99	32.56	13.685		
7,000.00	6,953.32	7,057.47	6,953.32	18.49	19.96	-51.040	10.33	-824.06	445.54	412.87	32.67	13.637		
7,100.00	7,053.32	7,157.47	7,053.32	18.54	20.01	-51.040	10.33	-824.06	445.54	412.76	32.78	13.590		
7,200.00	7,153.32	7,257.47	7,153.32	18.58	20.06	-51.040	10.33	-824.06	445.54	412.64	32.90	13.543		
7,300.00	7,253.32	7,357.47	7,253.32	18.63	20.11	-51.040	10.33	-824.06	445.54	412.53	33.01	13.496		
7,400.00	7,353.32	7,457.47	7,353.32	18.68	20.15	-51.040	10.33	-824.06	445.54	412.42	33.13	13.449		
7,500.00	7,453.32	7,557.47	7,453.32	18.72	20.20	-51.040	10.33	-824.06	445.54	412.30	33.24	13.402		
7,600.00	7,553.32	7,657.47	7,553.32	18.77	20.25	-51.040	10.33	-824.06	445.54	412.18	33.36	13.356		
7,700.00	7,653.32	7,757.47	7,653.32	18.82	20.30	-51.040	10.33	-824.06	445.54	412.07	33.48	13.310		
7,800.00	7,753.32	7,857.47	7,753.32	18.87	20.35	-51.040	10.33	-824.06	445.54	411.95	33.59	13.264		
7,900.00	7,853.32	7,957.47	7,853.32	18.91	20.40	-51.040	10.33	-824.06	445.54	411.83	33.71	13.218		
8,000.00	7,953.32	8,057.47	7,953.32	18.96	20.45	-51.040	10.33	-824.06	445.54	411.72	33.83	13.172		
8,100.00	8,053.32	8,157.47	8,053.32	19.01	20.50	-51.040	10.33	-824.06	445.54	411.60	33.94	13.126		
8,200.00	8,153.32	8,257.47	8,153.32	19.06	20.55	-51.040	10.33	-824.06	445.54	411.48	34.06	13.081		
8,300.00	0,203.32	6,357.47	0,200.02	19.11	20.60	-51.040	10.55	-024.00	443.54	411.30	34.10	13.035		
8,400.00	8,353.32	8,457.47	8,353.32	19.16	20.65	-51.040	10.33	-824.06	445.54	411.25	34.30	12.990		
8,500.00	8,453.32	8,557.47	8,453.32	19.21	20.71	-51.040	10.33	-824.06	445.54	411.13	34.42	12.945		
8,600.00	8,553.32	8,657.47	8,553.32	19.26	20.76	-51.040	10.33	-824.06	445.54	411.01	34.54	12,901		
8,700.00	8,653.32	8,757.47	8,653.32	19.31	20.81	-51.040	10.33	-824.06	445.54	410.89	34.66	12.856		
8,800.00	8,753.32	8,857.47	8,753.32	19.36	20.86	-51.040	10.33	-824.06	445.54	410.77	34.78	12.812		
8,900.00	8,853.32	8,957.47	8,853.32	19.41	20.91	-51.040	10.33	-824.06	445.54	410.65	34.90	12.767		
9,000.00	8,953.32	9,057.47	8,953.32	19.46	20.96	-51.040	10.33	-824.06	445.54	410.53	35.02	12.723		
9,100.00	9,053.32	9,157.47	9,053.32	19.51	21.02	-51.040	10.33	-824.06	445.54	410.40	35.14	12.679		
9,123.72	9,077.04	9,181.20	9,077.04	19.51	21.03	-51.040	10.33	-824.06	445.54	410.38	35.16	12.672		
9,150.00	9,103.31	9,207.47	9,103.31	19.50	21.04	-50.890	10.33	-824.06	445.16	409.97	35,20	12.648		
9,200.00	9,153.10	9,257.25	9,153.10	19.46	21.07	-51.557	10.33	-824.06	442.36	407.00	35.35	12.513		
9,250.00	9,202.30	9,306.45	9,202.30	19.40	21.09	-52.886	10.33	-824.06	436.92	401.36	35.55	12.289		
9,300.00	9,250.55	9,354.71	9,250.55	19.33	21.12	-54.892	10.33	-824.06	429.05	393.24	35.80	11.984		
9,350.00	9,297.49	9,401.64	9,297.49	19.27	21.14	-57.589	10.33	-824.06	419.06	382.96	36.10	11.608		
9,400.00	9,342.74	9,446.89	9,342.74	19.20	21.17	-60.972	10.33	-824.06	407.41	370.96	36.45	11.176		
9,450.00	9,385.97	9,490.12	9,385.97	19.14	21.19	-64.999	10.33	-824.06	394.67	357.80	36.87	10.706		
	CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation													

PHOENIX

TECHNOLOGY SERVICES

Phoenix Anticollision Report

Marathon Oil Corporation.

Offset Site Error:

0.00 usft

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Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 801H - OH - Plan 1 11-02-22

Survey Progr Refe	ram: 0 rence	-MWD+HRGM Off	set	Semi M	/lajor Axis		Offset Wellb	ore Centre	Dist	Ru l e Assi tance	gned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,500.00	9,426.85	9,531.00	9,426.85	19.08	21.21	-69.567	10.33	-824.06	381.56	344.23	37.34	10.220		
9,550.00	9,465.07	9,569.22	9,465.07	19.04	21.23	-74.493	10.33	-824.06	369.01	331.15	37.86	9.747		
9,600.00	9,500.33	9,604.49	9,500.33	19.01	21.25	-79.519	10.33	-824.06	358.04	319.63	38.41	9.322		
9,650.00	9,532.38	9,636.53	9,532.38	19.00	21.27	-84.336	10.33	-824.06	349.85	310.89	38.96	8.980		
9,700.00	9,560.96	9,665.11	9,560.96	19.01	21.28	-88.631	10.33	-824.06	345.62	306.17	39.45	8.761		
9,718.06	9,570.38	9,674.53	9,570.38	19.02	21.29	-89.999	10.33	-824.06	345.27	305.67	39.60	8.718		
9,750.00	9,585.85	9,690.00	9,585.85	19.05	21.30	-92.130	10.33	-824.06	346.40	306.58	39.82	8.699		
9,800.00	9,606.87	9,711.03	9,606.87	19.11	21.31	-94.619	10.33	-824.06	352.96	312.93	40.03	8.816		
9,850.00	9,623.87	9,728.02	9,623.87	19.21	21.32	-95.939	10.33	-824.06	365.63	325.55	40.07	9.124		
9,900.00	9,636.69	9,740.85	9,636.69	19.33	21.32	-95.973	10.33	-824.06	384.24	344.28	39.96	9.615		
9,950.00	9,645.26	9,749.42	9,645.26	19.49	21.33	-94.628	10.33	-824.06	408.25	368.51	39.74	10.272		
10,000.00	9,649.51	9,753.66	9,649.51	19.68	21.33	-91.838	10.33	-824.06	436.86	397.39	39.47	11.067		
10,023.72	9,650.00	9,754.15	9,650.00	19.77	21.33	-90.000	10.33	-824.06	451.78	412.44	39.34	11.484		
10,100.00	9,650.00	9,754.15	9,650.00	20.13	21.33	-90.000	10.33	-824.06	504.35	465.44	38.91	12.961		
10,200.00	9,650.00	9,754.15	9,650.00	20.66	21.33	-90.000	10.33	-824.06	581.29	542.87	38.42	15.131		
10,300.00	9,650.00	9,754.15	9,650.00	21.27	21.33	-90.000	10.33	-824.06	664.40	626.38	38.02	17.476		
10,400.00	9,650.00	9,754.15	9,650.00	21.95	21.33	-90.000	10.33	-824.06	751.64	713.93	37.70	19.935		
10,500.00	9,650.00	9,754.15	9,650.00	22.69	21.33	-90.000	10.33	-824.06	841.72	804.25	37.46	22.468		
10,600.00	9,650.00	9,754.15	9,650.00	23.49	21.33	-90.000	10.33	-824.06	933.82	896.54	37.28	25.052		

PHOENIX

ECHNOLOGY SERVICES

Phoenix Anticollision Report



•			corporations
Company: Project:	Marathon Oil Permian LLC Eddy County, NM (NAD27-NME)	Local Co-ordinate Reference:	Well Ripley WC Fed Com 701H RKB @ 2978 60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Well:	Ripley WC Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error: Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 2978.60usft (Cactus 169) Offset Depths are relative to Offset Datum Central Meridian is 104° 19' 60.000000 W Coordinates are relative to: Ripley WC Fed Com 701H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300 Grid Convergence at Surface is: 0.149°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PHOENIX TECHNOLOGY SERVICES

Phoenix Anticollision Report

Corporation.

Marathon Oil Permian LLC Local Co-ordinate Reference: Well Ripley WC Fed Com 701H Company: Eddy County, NM (NAD27-NME) TVD Reference: RKB @ 2978.60usft (Cactus 169) Project: Ripley Fed Com Pad MD Reference: RKB @ 2978.60usft (Cactus 169) **Reference Site:** Site Error: 0.00 usft North Reference: Grid Ripley WC Fed Com 701H Minimum Curvature **Reference Well:** Survey Calculation Method: Well Error: 0.00 usft Output errors are at 2.00 sigma **Reference Wellbore** OH Database: **USA** Compass Plan 1 11-02-22 **Reference Design:** Offset TVD Reference: **Reference Datum**

Reference Depths are relative to RKB @ 2978.60usft (Cactus 169) Offset Depths are relative to Offset Datum Central Meridian is 104° 19' 60.000000 W Coordinates are relative to: Ripley WC Fed Com 701H Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300 Grid Convergence at Surface is: 0.149°



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District I 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

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

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	157718
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	None	9/12/2023

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Action 157718