

**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**District III**1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101  
August 1, 2011

Permit 274800

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056		2. OGRID Number 372098
4. Property Code 326340		3. API Number 30-025-46534
5. Property Name MEAD WEST 32 WFB STATE		6. Well No. 005H

**7. Surface Location**

UL - Lot N	Section 32	Township 19S	Range 35E	Lot Idn N	Feet From 274	N/S Line S	Feet From 1370	E/W Line W	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot D	Section 32	Township 19S	Range 35E	Lot Idn D	Feet From 100	N/S Line N	Feet From 660	E/W Line W	County Lea
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**9. Pool Information**

KLEIN RANCH;WOLFCAMP	96989
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3695
16. Multiple N	17. Proposed Depth 16108	18. Formation Wolfcamp	19. Contractor	20. Spud Date 9/29/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

 We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1950	1986	0
Int1	12.25	9.625	36	4500	1462	0
Prod	8.75	5.5	20	16108	2487	3500

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	
Double Ram	5000	5000	
Pipe	5000	5000	
Blind	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable.	<b>OIL CONSERVATION DIVISION</b>		
Signature:			
Printed Name: Electronically filed by Melissa Szudera	Approved By: Paul F Kautz		
Title: Regulatory Compliance Representative	Title: Geologist		
Email Address: mszudera@marathonoil.com	Approved Date: 11/25/2019	Expiration Date: 11/25/2021	
Date: 11/18/2019	Phone: 713-296-3179	Conditions of Approval Attached	

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98098	<sup>3</sup> Pool Name WOLFBONE
<sup>4</sup> Property Code	<sup>5</sup> Property Name MEAD WEST 32 WFB STATE		<sup>6</sup> Well Number 5H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN, LLC		<sup>9</sup> Elevation 3,695'

<sup>10</sup> Surface Location

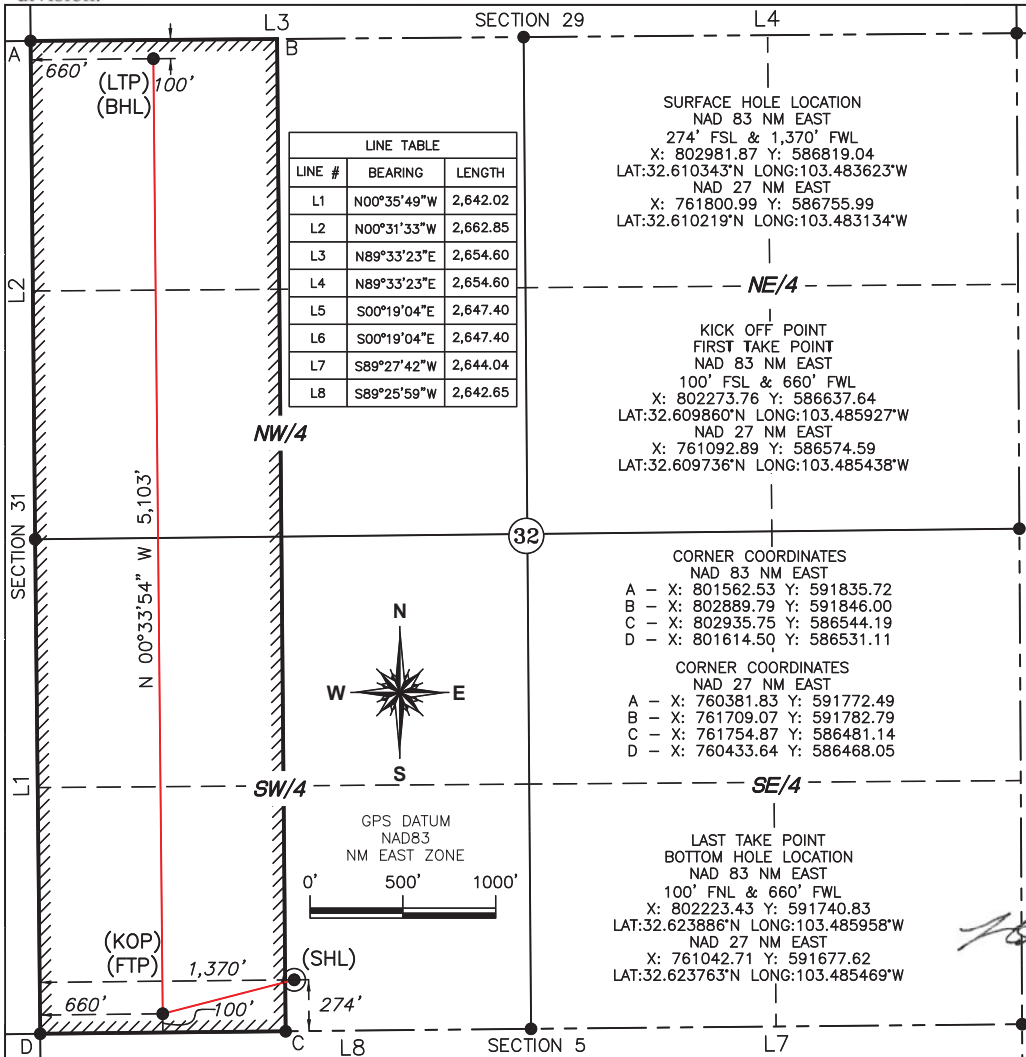
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	32	19-S	35-E		274'	SOUTH	1,370'	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	19-S	35-E		100'	NORTH	660'	WEST	LEA

<sup>12</sup> Dedicated Acres 160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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.

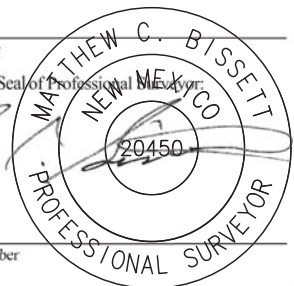


**<sup>17</sup> OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Adrian Covarrubias* Date: 11/18/2019  
Printed Name: Adrian Covarrubias  
E-mail Address:

**<sup>18</sup> SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 10/14/19  
Signature and Seal of Professional Surveyor: *Matthew C. Bissett*  
Certificate Number: 20450



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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**

**GAS CAPTURE PLAN**

Date: 11/25/2019

Original Operator & OGRID No.: [372098] MARATHON OIL PERMIAN LLC

Amended - Reason for Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

**Well(s)/Production Facility – Name of facility**

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
MEAD WEST 32 WFB STATE #005H	30-025-46534	N-32-19S-35E	0274S 1370W	1200	Flared	

**Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 5280' of pipeline to connect the facility to Low Pressure gathering system. MARATHON OIL PERMIAN LLC provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, MARATHON OIL PERMIAN LLC and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

**Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID ENERGY DELAWARE, LLC system at that time. Based on current information, it is MARATHON OIL PERMIAN LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

**Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 274800

**PERMIT COMMENTS**

Operator Name and Address: MARATHON OIL PERMIAN LLC [372098] 5555 San Felipe St. Houston, TX 77056	API Number: 30-025-46534
	Well: MEAD WEST 32 WFB STATE #005H

Created By	Comment	Comment Date
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Form APD Conditions

Permit 274800

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: MARATHON OIL PERMIAN LLC [372098] 5555 San Felipe St. Houston, TX 77056	API Number: 30-025-46534
	Well: MEAD WEST 32 WFB STATE #005H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

<b>Project</b>	Lea County, NM		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	New Mexico East 3001		

<b>Site</b>	Mead West 32 (5-6)				
<b>Site Position:</b>		<b>Northing:</b>	586,756.00 usft	<b>Latitude:</b>	32.610219
<b>From:</b>	Map	<b>Easting:</b>	761,801.00 usft	<b>Longitude:</b>	-103.483134
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.46 °

<b>Well</b>	WFB #5H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	586,756.00 usft	<b>Latitude:</b>	32.610219
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	761,801.00 usft	<b>Longitude:</b>	-103.483134
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,500.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	11/12/2019	6.47	60.50	48,021.00

<b>Design</b>	Prelim Plan A				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00		359.44

<b>Survey Tool Program</b>	<b>Date</b>	11/12/2019			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.00	16,107.76	Prelim Plan A (OH)	MWD+IFR1	OWSG MWD + IFR1	

<b>Planned Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	2.00	255.58	1,599.98	-0.43	-1.69	-0.42	2.00	2.00	0.00
1,700.00	4.00	255.58	1,699.84	-1.74	-6.76	-1.67	2.00	2.00	0.00
1,800.00	6.00	255.58	1,799.45	-3.91	-15.20	-3.76	2.00	2.00	0.00
1,900.00	8.00	255.58	1,898.70	-6.94	-27.00	-6.68	2.00	2.00	0.00
2,000.00	10.00	255.58	1,997.47	-10.84	-42.15	-10.42	2.00	2.00	0.00
2,100.00	10.00	255.58	2,095.95	-15.16	-58.97	-14.58	0.00	0.00	0.00
2,200.00	10.00	255.58	2,194.43	-19.48	-75.79	-18.74	0.00	0.00	0.00
2,300.00	10.00	255.58	2,292.91	-23.81	-92.61	-22.90	0.00	0.00	0.00
2,400.00	10.00	255.58	2,391.39	-28.13	-109.42	-27.06	0.00	0.00	0.00
2,500.00	10.00	255.58	2,489.87	-32.45	-126.24	-31.22	0.00	0.00	0.00
2,600.00	10.00	255.58	2,588.35	-36.78	-143.06	-35.38	0.00	0.00	0.00
2,700.00	10.00	255.58	2,686.83	-41.10	-159.88	-39.53	0.00	0.00	0.00
2,800.00	10.00	255.58	2,785.31	-45.42	-176.70	-43.69	0.00	0.00	0.00
2,900.00	10.00	255.58	2,883.79	-49.75	-193.51	-47.85	0.00	0.00	0.00
3,000.00	10.00	255.58	2,982.27	-54.07	-210.33	-52.01	0.00	0.00	0.00
3,100.00	10.00	255.58	3,080.75	-58.39	-227.15	-56.17	0.00	0.00	0.00
3,200.00	10.00	255.58	3,179.23	-62.72	-243.97	-60.33	0.00	0.00	0.00
3,300.00	10.00	255.58	3,277.72	-67.04	-260.79	-64.49	0.00	0.00	0.00
3,400.00	10.00	255.58	3,376.20	-71.36	-277.60	-68.64	0.00	0.00	0.00
3,500.00	10.00	255.58	3,474.68	-75.68	-294.42	-72.80	0.00	0.00	0.00
3,600.00	10.00	255.58	3,573.16	-80.01	-311.24	-76.96	0.00	0.00	0.00
3,700.00	10.00	255.58	3,671.64	-84.33	-328.06	-81.12	0.00	0.00	0.00
3,800.00	10.00	255.58	3,770.12	-88.65	-344.88	-85.28	0.00	0.00	0.00
3,900.00	10.00	255.58	3,868.60	-92.98	-361.69	-89.44	0.00	0.00	0.00
4,000.00	10.00	255.58	3,967.08	-97.30	-378.51	-93.60	0.00	0.00	0.00
4,100.00	10.00	255.58	4,065.56	-101.62	-395.33	-97.76	0.00	0.00	0.00
4,200.00	10.00	255.58	4,164.04	-105.95	-412.15	-101.91	0.00	0.00	0.00
4,300.00	10.00	255.58	4,262.52	-110.27	-428.97	-106.07	0.00	0.00	0.00
4,400.00	10.00	255.58	4,361.00	-114.59	-445.78	-110.23	0.00	0.00	0.00
4,500.00	10.00	255.58	4,459.48	-118.92	-462.60	-114.39	0.00	0.00	0.00
4,600.00	10.00	255.58	4,557.97	-123.24	-479.42	-118.55	0.00	0.00	0.00
4,700.00	10.00	255.58	4,656.45	-127.56	-496.24	-122.71	0.00	0.00	0.00
4,800.00	10.00	255.58	4,754.93	-131.89	-513.06	-126.87	0.00	0.00	0.00
4,900.00	10.00	255.58	4,853.41	-136.21	-529.88	-131.03	0.00	0.00	0.00
5,000.00	10.00	255.58	4,951.89	-140.53	-546.69	-135.18	0.00	0.00	0.00
5,100.00	10.00	255.58	5,050.37	-144.86	-563.51	-139.34	0.00	0.00	0.00
5,200.00	10.00	255.58	5,148.85	-149.18	-580.33	-143.50	0.00	0.00	0.00
5,300.00	10.00	255.58	5,247.33	-153.50	-597.15	-147.66	0.00	0.00	0.00



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)	
5,400.00	10.00	255.58	5,345.81	-157.83	-613.97	-151.82	0.00	0.00	0.00	
5,500.00	10.00	255.58	5,444.29	-162.15	-630.78	-155.98	0.00	0.00	0.00	
5,600.00	10.00	255.58	5,542.77	-166.47	-647.60	-160.14	0.00	0.00	0.00	
5,708.49	10.00	255.58	5,649.62	-171.16	-665.85	-164.65	0.00	0.00	0.00	
5,800.00	8.17	255.58	5,739.97	-174.76	-679.84	-168.11	2.00	-2.00	0.00	
5,900.00	6.17	255.58	5,839.19	-177.87	-691.93	-171.10	2.00	-2.00	0.00	
6,000.00	4.17	255.58	5,938.77	-180.11	-700.66	-173.26	2.00	-2.00	0.00	
6,100.00	2.17	255.58	6,038.62	-181.49	-706.01	-174.58	2.00	-2.00	0.00	
6,208.49	0.00	0.00	6,147.09	-182.00	-708.00	-175.07	2.00	-2.00	0.00	
6,300.00	0.00	0.00	6,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,738.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,838.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,938.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,038.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,138.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,738.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,838.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,938.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,038.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,138.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,738.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,838.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,938.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,038.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,138.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	





**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)	
9,700.00	0.00	0.00	9,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,738.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,838.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,938.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,038.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,138.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,729.91	0.00	0.00	10,668.50	-182.00	-708.00	-175.07	0.00	0.00	0.00	
<b>[MeadW32#5H]PP/FTP</b>										
10,750.00	2.41	359.44	10,688.58	-181.58	-708.00	-174.65	12.00	12.00	0.00	
10,775.00	5.41	359.44	10,713.52	-179.87	-708.02	-172.94	12.00	12.00	0.00	
10,800.00	8.41	359.44	10,738.34	-176.86	-708.05	-169.94	12.00	12.00	0.00	
10,825.00	11.41	359.44	10,762.96	-172.56	-708.09	-165.63	12.00	12.00	0.00	
10,850.00	14.41	359.44	10,787.33	-166.98	-708.15	-160.05	12.00	12.00	0.00	
10,875.00	17.41	359.44	10,811.37	-160.13	-708.21	-153.20	12.00	12.00	0.00	
10,900.00	20.41	359.44	10,835.02	-152.02	-708.29	-145.09	12.00	12.00	0.00	
10,925.00	23.41	359.44	10,858.21	-142.70	-708.39	-135.77	12.00	12.00	0.00	
10,950.00	26.41	359.44	10,880.88	-132.17	-708.49	-125.24	12.00	12.00	0.00	
10,975.00	29.41	359.44	10,902.97	-120.47	-708.60	-113.54	12.00	12.00	0.00	
11,000.00	32.41	359.44	10,924.42	-107.63	-708.73	-100.70	12.00	12.00	0.00	
11,025.00	35.41	359.44	10,945.16	-93.68	-708.87	-86.75	12.00	12.00	0.00	
11,050.00	38.41	359.44	10,965.15	-78.67	-709.01	-71.74	12.00	12.00	0.00	
11,075.00	41.41	359.44	10,984.32	-62.63	-709.17	-55.70	12.00	12.00	0.00	
11,100.00	44.41	359.44	11,002.63	-45.61	-709.34	-38.68	12.00	12.00	0.00	
11,125.00	47.41	359.44	11,020.02	-27.66	-709.51	-20.72	12.00	12.00	0.00	
11,150.00	50.41	359.44	11,036.45	-8.82	-709.70	-1.88	12.00	12.00	0.00	
11,175.00	53.41	359.44	11,051.87	10.85	-709.89	17.79	12.00	12.00	0.00	
11,200.00	56.41	359.44	11,066.24	31.30	-710.09	38.24	12.00	12.00	0.00	
11,225.00	59.41	359.44	11,079.52	52.48	-710.30	59.42	12.00	12.00	0.00	
11,250.00	62.41	359.44	11,091.67	74.33	-710.51	81.27	12.00	12.00	0.00	
11,275.00	65.41	359.44	11,102.67	96.77	-710.73	103.72	12.00	12.00	0.00	
11,300.00	68.41	359.44	11,112.47	119.77	-710.96	126.71	12.00	12.00	0.00	
11,325.00	71.41	359.44	11,121.06	143.24	-711.19	150.19	12.00	12.00	0.00	
11,350.00	74.41	359.44	11,128.40	167.14	-711.42	174.08	12.00	12.00	0.00	
11,375.00	77.41	359.44	11,134.49	191.38	-711.66	198.33	12.00	12.00	0.00	
11,400.00	80.41	359.44	11,139.29	215.91	-711.90	222.86	12.00	12.00	0.00	
11,425.00	83.41	359.44	11,142.81	240.66	-712.14	247.60	12.00	12.00	0.00	
11,450.00	86.41	359.44	11,145.03	265.55	-712.38	272.50	12.00	12.00	0.00	
11,475.00	89.41	359.44	11,145.94	290.53	-712.63	297.48	12.00	12.00	0.00	
11,492.41	91.50	359.44	11,145.80	307.94	-712.80	314.90	12.00	12.00	0.00	



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)
11,500.00	91.50	359.44	11,145.60	315.53	-712.87	322.48	0.00	0.00	0.00
11,600.00	91.50	359.44	11,142.98	415.49	-713.85	422.45	0.00	0.00	0.00
11,700.00	91.50	359.44	11,140.37	515.45	-714.83	522.41	0.00	0.00	0.00
11,800.00	91.50	359.44	11,137.75	615.41	-715.81	622.38	0.00	0.00	0.00
11,900.00	91.50	359.44	11,135.13	715.37	-716.79	722.34	0.00	0.00	0.00
12,000.00	91.50	359.44	11,132.51	815.33	-717.77	822.31	0.00	0.00	0.00
12,100.00	91.50	359.44	11,129.89	915.29	-718.75	922.27	0.00	0.00	0.00
12,200.00	91.50	359.44	11,127.27	1,015.25	-719.73	1,022.24	0.00	0.00	0.00
12,300.00	91.50	359.44	11,124.65	1,115.21	-720.71	1,122.21	0.00	0.00	0.00
12,400.00	91.50	359.44	11,122.04	1,215.18	-721.69	1,222.17	0.00	0.00	0.00
12,500.00	91.50	359.44	11,119.42	1,315.14	-722.67	1,322.14	0.00	0.00	0.00
12,600.00	91.50	359.44	11,116.80	1,415.10	-723.65	1,422.10	0.00	0.00	0.00
12,700.00	91.50	359.44	11,114.18	1,515.06	-724.62	1,522.07	0.00	0.00	0.00
12,800.00	91.50	359.44	11,111.56	1,615.02	-725.60	1,622.03	0.00	0.00	0.00
12,900.00	91.50	359.44	11,108.94	1,714.98	-726.58	1,722.00	0.00	0.00	0.00
13,000.00	91.50	359.44	11,106.32	1,814.94	-727.56	1,821.97	0.00	0.00	0.00
13,100.00	91.50	359.44	11,103.71	1,914.90	-728.54	1,921.93	0.00	0.00	0.00
13,200.00	91.50	359.44	11,101.09	2,014.86	-729.52	2,021.90	0.00	0.00	0.00
13,300.00	91.50	359.44	11,098.47	2,114.82	-730.50	2,121.86	0.00	0.00	0.00
13,400.00	91.50	359.44	11,095.85	2,214.78	-731.48	2,221.83	0.00	0.00	0.00
13,500.00	91.50	359.44	11,093.23	2,314.75	-732.46	2,321.79	0.00	0.00	0.00
13,600.00	91.50	359.44	11,090.61	2,414.71	-733.44	2,421.76	0.00	0.00	0.00
13,700.00	91.50	359.44	11,087.99	2,514.67	-734.42	2,521.73	0.00	0.00	0.00
13,800.00	91.50	359.44	11,085.37	2,614.63	-735.40	2,621.69	0.00	0.00	0.00
13,900.00	91.50	359.44	11,082.76	2,714.59	-736.38	2,721.66	0.00	0.00	0.00
14,000.00	91.50	359.44	11,080.14	2,814.55	-737.35	2,821.62	0.00	0.00	0.00
14,100.00	91.50	359.44	11,077.52	2,914.51	-738.33	2,921.59	0.00	0.00	0.00
14,200.00	91.50	359.44	11,074.90	3,014.47	-739.31	3,021.55	0.00	0.00	0.00
14,300.00	91.50	359.44	11,072.28	3,114.43	-740.29	3,121.52	0.00	0.00	0.00
14,400.00	91.50	359.44	11,069.66	3,214.39	-741.27	3,221.49	0.00	0.00	0.00
14,500.00	91.50	359.44	11,067.04	3,314.35	-742.25	3,321.45	0.00	0.00	0.00
14,600.00	91.50	359.44	11,064.43	3,414.32	-743.23	3,421.42	0.00	0.00	0.00
14,700.00	91.50	359.44	11,061.81	3,514.28	-744.21	3,521.38	0.00	0.00	0.00
14,800.00	91.50	359.44	11,059.19	3,614.24	-745.19	3,621.35	0.00	0.00	0.00
14,900.00	91.50	359.44	11,056.57	3,714.20	-746.17	3,721.31	0.00	0.00	0.00
15,000.00	91.50	359.44	11,053.95	3,814.16	-747.15	3,821.28	0.00	0.00	0.00
15,100.00	91.50	359.44	11,051.33	3,914.12	-748.13	3,921.25	0.00	0.00	0.00
15,200.00	91.50	359.44	11,048.71	4,014.08	-749.11	4,021.21	0.00	0.00	0.00
15,300.00	91.50	359.44	11,046.10	4,114.04	-750.09	4,121.18	0.00	0.00	0.00
15,400.00	91.50	359.44	11,043.48	4,214.00	-751.06	4,221.14	0.00	0.00	0.00
15,500.00	91.50	359.44	11,040.86	4,313.96	-752.04	4,321.11	0.00	0.00	0.00
15,600.00	91.50	359.44	11,038.24	4,413.92	-753.02	4,421.07	0.00	0.00	0.00
15,700.00	91.50	359.44	11,035.62	4,513.89	-754.00	4,521.04	0.00	0.00	0.00



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)	
15,800.00	91.50	359.44	11,033.00	4,613.85	-754.98	4,621.01	0.00	0.00	0.00	
15,900.00	91.50	359.44	11,030.38	4,713.81	-755.96	4,720.97	0.00	0.00	0.00	
16,000.00	91.50	359.44	11,027.77	4,813.77	-756.94	4,820.94	0.00	0.00	0.00	
16,108.27	91.50	359.44	11,024.93	4,922.00	-758.00	4,929.17	0.00	0.00	0.00	
<b>[MeadW32#5H]LTP/BHL</b>										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
[MeadW32#5H]PP/FTP - hit/miss target - Shape	0.00	0.00	10,668.50	-182.00	-708.00	586,574.00	761,093.00	32.609734	-103.485438	
- plan hits target center - Point										
[MeadW32#5H]LTP/BHL - plan hits target center - Point	0.00	0.00	11,024.93	4,922.00	-758.00	591,678.00	761,043.00	32.623764	-103.485468	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

<b>Project</b>	Lea County, NM		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	New Mexico East 3001		

<b>Site</b>	Mead West 32 (5-6)				
<b>Site Position:</b>		<b>Northing:</b>	586,756.00 usft	<b>Latitude:</b>	32.610219
<b>From:</b>	Map	<b>Easting:</b>	761,801.00 usft	<b>Longitude:</b>	-103.483134
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.46 °

<b>Well</b>	WFB #5H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	586,756.00 usft	<b>Latitude:</b>	32.610219
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	761,801.00 usft	<b>Longitude:</b>	-103.483134
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,500.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	11/12/2019	6.47	60.50	48,021.00

<b>Design</b>	Prelim Plan A			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	359.44

<b>Survey Tool Program</b>	<b>Date</b>	11/12/2019		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	16,107.76	Prelim Plan A (OH)	MWD+IFR1	OWSG MWD + IFR1

<b>Planned Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	2.00	255.58	1,599.98	-0.43	-1.69	-0.42	2.00	2.00	0.00
1,700.00	4.00	255.58	1,699.84	-1.74	-6.76	-1.67	2.00	2.00	0.00
1,800.00	6.00	255.58	1,799.45	-3.91	-15.20	-3.76	2.00	2.00	0.00
1,900.00	8.00	255.58	1,898.70	-6.94	-27.00	-6.68	2.00	2.00	0.00
2,000.00	10.00	255.58	1,997.47	-10.84	-42.15	-10.42	2.00	2.00	0.00
2,100.00	10.00	255.58	2,095.95	-15.16	-58.97	-14.58	0.00	0.00	0.00
2,200.00	10.00	255.58	2,194.43	-19.48	-75.79	-18.74	0.00	0.00	0.00
2,300.00	10.00	255.58	2,292.91	-23.81	-92.61	-22.90	0.00	0.00	0.00
2,400.00	10.00	255.58	2,391.39	-28.13	-109.42	-27.06	0.00	0.00	0.00
2,500.00	10.00	255.58	2,489.87	-32.45	-126.24	-31.22	0.00	0.00	0.00
2,600.00	10.00	255.58	2,588.35	-36.78	-143.06	-35.38	0.00	0.00	0.00
2,700.00	10.00	255.58	2,686.83	-41.10	-159.88	-39.53	0.00	0.00	0.00
2,800.00	10.00	255.58	2,785.31	-45.42	-176.70	-43.69	0.00	0.00	0.00
2,900.00	10.00	255.58	2,883.79	-49.75	-193.51	-47.85	0.00	0.00	0.00
3,000.00	10.00	255.58	2,982.27	-54.07	-210.33	-52.01	0.00	0.00	0.00
3,100.00	10.00	255.58	3,080.75	-58.39	-227.15	-56.17	0.00	0.00	0.00
3,200.00	10.00	255.58	3,179.23	-62.72	-243.97	-60.33	0.00	0.00	0.00
3,300.00	10.00	255.58	3,277.72	-67.04	-260.79	-64.49	0.00	0.00	0.00
3,400.00	10.00	255.58	3,376.20	-71.36	-277.60	-68.64	0.00	0.00	0.00
3,500.00	10.00	255.58	3,474.68	-75.68	-294.42	-72.80	0.00	0.00	0.00
3,600.00	10.00	255.58	3,573.16	-80.01	-311.24	-76.96	0.00	0.00	0.00
3,700.00	10.00	255.58	3,671.64	-84.33	-328.06	-81.12	0.00	0.00	0.00
3,800.00	10.00	255.58	3,770.12	-88.65	-344.88	-85.28	0.00	0.00	0.00
3,900.00	10.00	255.58	3,868.60	-92.98	-361.69	-89.44	0.00	0.00	0.00
4,000.00	10.00	255.58	3,967.08	-97.30	-378.51	-93.60	0.00	0.00	0.00
4,100.00	10.00	255.58	4,065.56	-101.62	-395.33	-97.76	0.00	0.00	0.00
4,200.00	10.00	255.58	4,164.04	-105.95	-412.15	-101.91	0.00	0.00	0.00
4,300.00	10.00	255.58	4,262.52	-110.27	-428.97	-106.07	0.00	0.00	0.00
4,400.00	10.00	255.58	4,361.00	-114.59	-445.78	-110.23	0.00	0.00	0.00
4,500.00	10.00	255.58	4,459.48	-118.92	-462.60	-114.39	0.00	0.00	0.00
4,600.00	10.00	255.58	4,557.97	-123.24	-479.42	-118.55	0.00	0.00	0.00
4,700.00	10.00	255.58	4,656.45	-127.56	-496.24	-122.71	0.00	0.00	0.00
4,800.00	10.00	255.58	4,754.93	-131.89	-513.06	-126.87	0.00	0.00	0.00
4,900.00	10.00	255.58	4,853.41	-136.21	-529.88	-131.03	0.00	0.00	0.00
5,000.00	10.00	255.58	4,951.89	-140.53	-546.69	-135.18	0.00	0.00	0.00
5,100.00	10.00	255.58	5,050.37	-144.86	-563.51	-139.34	0.00	0.00	0.00
5,200.00	10.00	255.58	5,148.85	-149.18	-580.33	-143.50	0.00	0.00	0.00
5,300.00	10.00	255.58	5,247.33	-153.50	-597.15	-147.66	0.00	0.00	0.00



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)	
5,400.00	10.00	255.58	5,345.81	-157.83	-613.97	-151.82	0.00	0.00	0.00	
5,500.00	10.00	255.58	5,444.29	-162.15	-630.78	-155.98	0.00	0.00	0.00	
5,600.00	10.00	255.58	5,542.77	-166.47	-647.60	-160.14	0.00	0.00	0.00	
5,708.49	10.00	255.58	5,649.62	-171.16	-665.85	-164.65	0.00	0.00	0.00	
5,800.00	8.17	255.58	5,739.97	-174.76	-679.84	-168.11	2.00	-2.00	0.00	
5,900.00	6.17	255.58	5,839.19	-177.87	-691.93	-171.10	2.00	-2.00	0.00	
6,000.00	4.17	255.58	5,938.77	-180.11	-700.66	-173.26	2.00	-2.00	0.00	
6,100.00	2.17	255.58	6,038.62	-181.49	-706.01	-174.58	2.00	-2.00	0.00	
6,208.49	0.00	0.00	6,147.09	-182.00	-708.00	-175.07	2.00	-2.00	0.00	
6,300.00	0.00	0.00	6,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,738.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,838.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,938.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,038.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,138.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,738.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,838.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,938.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,038.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,138.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,738.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,838.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,938.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,038.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,138.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)	
9,700.00	0.00	0.00	9,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,738.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,838.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,938.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,038.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,138.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,238.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,338.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,438.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,538.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,638.59	-182.00	-708.00	-175.07	0.00	0.00	0.00	
10,729.91	0.00	0.00	10,668.50	-182.00	-708.00	-175.07	0.00	0.00	0.00	
<b>[MeadW32#5H]PP/FTP</b>										
10,750.00	2.41	359.44	10,688.58	-181.58	-708.00	-174.65	12.00	12.00	0.00	
10,775.00	5.41	359.44	10,713.52	-179.87	-708.02	-172.94	12.00	12.00	0.00	
10,800.00	8.41	359.44	10,738.34	-176.86	-708.05	-169.94	12.00	12.00	0.00	
10,825.00	11.41	359.44	10,762.96	-172.56	-708.09	-165.63	12.00	12.00	0.00	
10,850.00	14.41	359.44	10,787.33	-166.98	-708.15	-160.05	12.00	12.00	0.00	
10,875.00	17.41	359.44	10,811.37	-160.13	-708.21	-153.20	12.00	12.00	0.00	
10,900.00	20.41	359.44	10,835.02	-152.02	-708.29	-145.09	12.00	12.00	0.00	
10,925.00	23.41	359.44	10,858.21	-142.70	-708.39	-135.77	12.00	12.00	0.00	
10,950.00	26.41	359.44	10,880.88	-132.17	-708.49	-125.24	12.00	12.00	0.00	
10,975.00	29.41	359.44	10,902.97	-120.47	-708.60	-113.54	12.00	12.00	0.00	
11,000.00	32.41	359.44	10,924.42	-107.63	-708.73	-100.70	12.00	12.00	0.00	
11,025.00	35.41	359.44	10,945.16	-93.68	-708.87	-86.75	12.00	12.00	0.00	
11,050.00	38.41	359.44	10,965.15	-78.67	-709.01	-71.74	12.00	12.00	0.00	
11,075.00	41.41	359.44	10,984.32	-62.63	-709.17	-55.70	12.00	12.00	0.00	
11,100.00	44.41	359.44	11,002.63	-45.61	-709.34	-38.68	12.00	12.00	0.00	
11,125.00	47.41	359.44	11,020.02	-27.66	-709.51	-20.72	12.00	12.00	0.00	
11,150.00	50.41	359.44	11,036.45	-8.82	-709.70	-1.88	12.00	12.00	0.00	
11,175.00	53.41	359.44	11,051.87	10.85	-709.89	17.79	12.00	12.00	0.00	
11,200.00	56.41	359.44	11,066.24	31.30	-710.09	38.24	12.00	12.00	0.00	
11,225.00	59.41	359.44	11,079.52	52.48	-710.30	59.42	12.00	12.00	0.00	
11,250.00	62.41	359.44	11,091.67	74.33	-710.51	81.27	12.00	12.00	0.00	
11,275.00	65.41	359.44	11,102.67	96.77	-710.73	103.72	12.00	12.00	0.00	
11,300.00	68.41	359.44	11,112.47	119.77	-710.96	126.71	12.00	12.00	0.00	
11,325.00	71.41	359.44	11,121.06	143.24	-711.19	150.19	12.00	12.00	0.00	
11,350.00	74.41	359.44	11,128.40	167.14	-711.42	174.08	12.00	12.00	0.00	
11,375.00	77.41	359.44	11,134.49	191.38	-711.66	198.33	12.00	12.00	0.00	
11,400.00	80.41	359.44	11,139.29	215.91	-711.90	222.86	12.00	12.00	0.00	
11,425.00	83.41	359.44	11,142.81	240.66	-712.14	247.60	12.00	12.00	0.00	
11,450.00	86.41	359.44	11,145.03	265.55	-712.38	272.50	12.00	12.00	0.00	
11,475.00	89.41	359.44	11,145.94	290.53	-712.63	297.48	12.00	12.00	0.00	
11,492.41	91.50	359.44	11,145.80	307.94	-712.80	314.90	12.00	12.00	0.00	



**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)
11,500.00	91.50	359.44	11,145.60	315.53	-712.87	322.48	0.00	0.00	0.00
11,600.00	91.50	359.44	11,142.98	415.49	-713.85	422.45	0.00	0.00	0.00
11,700.00	91.50	359.44	11,140.37	515.45	-714.83	522.41	0.00	0.00	0.00
11,800.00	91.50	359.44	11,137.75	615.41	-715.81	622.38	0.00	0.00	0.00
11,900.00	91.50	359.44	11,135.13	715.37	-716.79	722.34	0.00	0.00	0.00
12,000.00	91.50	359.44	11,132.51	815.33	-717.77	822.31	0.00	0.00	0.00
12,100.00	91.50	359.44	11,129.89	915.29	-718.75	922.27	0.00	0.00	0.00
12,200.00	91.50	359.44	11,127.27	1,015.25	-719.73	1,022.24	0.00	0.00	0.00
12,300.00	91.50	359.44	11,124.65	1,115.21	-720.71	1,122.21	0.00	0.00	0.00
12,400.00	91.50	359.44	11,122.04	1,215.18	-721.69	1,222.17	0.00	0.00	0.00
12,500.00	91.50	359.44	11,119.42	1,315.14	-722.67	1,322.14	0.00	0.00	0.00
12,600.00	91.50	359.44	11,116.80	1,415.10	-723.65	1,422.10	0.00	0.00	0.00
12,700.00	91.50	359.44	11,114.18	1,515.06	-724.62	1,522.07	0.00	0.00	0.00
12,800.00	91.50	359.44	11,111.56	1,615.02	-725.60	1,622.03	0.00	0.00	0.00
12,900.00	91.50	359.44	11,108.94	1,714.98	-726.58	1,722.00	0.00	0.00	0.00
13,000.00	91.50	359.44	11,106.32	1,814.94	-727.56	1,821.97	0.00	0.00	0.00
13,100.00	91.50	359.44	11,103.71	1,914.90	-728.54	1,921.93	0.00	0.00	0.00
13,200.00	91.50	359.44	11,101.09	2,014.86	-729.52	2,021.90	0.00	0.00	0.00
13,300.00	91.50	359.44	11,098.47	2,114.82	-730.50	2,121.86	0.00	0.00	0.00
13,400.00	91.50	359.44	11,095.85	2,214.78	-731.48	2,221.83	0.00	0.00	0.00
13,500.00	91.50	359.44	11,093.23	2,314.75	-732.46	2,321.79	0.00	0.00	0.00
13,600.00	91.50	359.44	11,090.61	2,414.71	-733.44	2,421.76	0.00	0.00	0.00
13,700.00	91.50	359.44	11,087.99	2,514.67	-734.42	2,521.73	0.00	0.00	0.00
13,800.00	91.50	359.44	11,085.37	2,614.63	-735.40	2,621.69	0.00	0.00	0.00
13,900.00	91.50	359.44	11,082.76	2,714.59	-736.38	2,721.66	0.00	0.00	0.00
14,000.00	91.50	359.44	11,080.14	2,814.55	-737.35	2,821.62	0.00	0.00	0.00
14,100.00	91.50	359.44	11,077.52	2,914.51	-738.33	2,921.59	0.00	0.00	0.00
14,200.00	91.50	359.44	11,074.90	3,014.47	-739.31	3,021.55	0.00	0.00	0.00
14,300.00	91.50	359.44	11,072.28	3,114.43	-740.29	3,121.52	0.00	0.00	0.00
14,400.00	91.50	359.44	11,069.66	3,214.39	-741.27	3,221.49	0.00	0.00	0.00
14,500.00	91.50	359.44	11,067.04	3,314.35	-742.25	3,321.45	0.00	0.00	0.00
14,600.00	91.50	359.44	11,064.43	3,414.32	-743.23	3,421.42	0.00	0.00	0.00
14,700.00	91.50	359.44	11,061.81	3,514.28	-744.21	3,521.38	0.00	0.00	0.00
14,800.00	91.50	359.44	11,059.19	3,614.24	-745.19	3,621.35	0.00	0.00	0.00
14,900.00	91.50	359.44	11,056.57	3,714.20	-746.17	3,721.31	0.00	0.00	0.00
15,000.00	91.50	359.44	11,053.95	3,814.16	-747.15	3,821.28	0.00	0.00	0.00
15,100.00	91.50	359.44	11,051.33	3,914.12	-748.13	3,921.25	0.00	0.00	0.00
15,200.00	91.50	359.44	11,048.71	4,014.08	-749.11	4,021.21	0.00	0.00	0.00
15,300.00	91.50	359.44	11,046.10	4,114.04	-750.09	4,121.18	0.00	0.00	0.00
15,400.00	91.50	359.44	11,043.48	4,214.00	-751.06	4,221.14	0.00	0.00	0.00
15,500.00	91.50	359.44	11,040.86	4,313.96	-752.04	4,321.11	0.00	0.00	0.00
15,600.00	91.50	359.44	11,038.24	4,413.92	-753.02	4,421.07	0.00	0.00	0.00
15,700.00	91.50	359.44	11,035.62	4,513.89	-754.00	4,521.04	0.00	0.00	0.00





**Pro Directional**  
Survey Report



<b>Company:</b>	Marathon Oil	<b>Local Co-ordinate Reference:</b>	Well WFB #5H
<b>Project:</b>	Lea County, NM	<b>TVD Reference:</b>	well @ 3525.00usft
<b>Site:</b>	Mead West 32 (5-6)	<b>MD Reference:</b>	well @ 3525.00usft
<b>Well:</b>	WFB #5H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Prelim Plan A	<b>Database:</b>	WellPlanner1

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)	
15,800.00	91.50	359.44	11,033.00	4,613.85	-754.98	4,621.01	0.00	0.00	0.00	
15,900.00	91.50	359.44	11,030.38	4,713.81	-755.96	4,720.97	0.00	0.00	0.00	
16,000.00	91.50	359.44	11,027.77	4,813.77	-756.94	4,820.94	0.00	0.00	0.00	
16,108.27	91.50	359.44	11,024.93	4,922.00	-758.00	4,929.17	0.00	0.00	0.00	
[MeadW32#5H]LTP/BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
[MeadW32#5H]PP/FTP	0.00	0.00	10,668.50	-182.00	-708.00	586,574.00	761,093.00	32.609734	-103.485438	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										
[MeadW32#5H]LTP/BHL	0.00	0.00	11,024.93	4,922.00	-758.00	591,678.00	761,043.00	32.623764	-103.485468	
- plan hits target center										
- Point										

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_