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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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

EMNRD-OCD ARTESIA Form C-102
REC'D: 4/21/2020 Revised August 1, 2011
Submit one copy to appropriate District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45977	² Pool Code [98123]	³ Pool Name WC-015 G-08 S233102C; WOLFCAMP
⁴ Property Code 316874	⁵ Property Name TOMB RAIDER 1-12 FED	⁶ Well Number 612H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3466.0

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	1	23 S	31 E		210	NORTH	2109	WEST	EDDY

¹¹ 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
N	12	23 S	31 E		381	SOUTH	1631	WEST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

	¹⁷ 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. <i>Jenny Harms</i> 3-21-2020 Signature Date JENNY HARMS Printed Name JENNY.HARMS@DVN.COM E-mail Address ¹⁸ 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. JULY 1, 2019 Date of Survey <i>William F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 Survey No. 6667A
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6/18/2020

RWP

Intent ☐ As Drilled ☒

API # 30-015-45977		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: TOMB RAIDER 1-12 FED	Well Number 612H

Kick Off Point (KOP)

UL C	Section 1	Township 23S	Range 31E	Lot 3	Feet 182	From N/S NORTH	Feet 1570	From E/W WEST	County EDDY
Latitude 32.3402204					Longitude 103.7349704				NAD 83

First Take Point (FTP)

UL C	Section 1	Township 23S	Range 31E	Lot 3	Feet 788	From N/S NORTH	Feet 1623	From E/W WEST	County EDDY
Latitude 32.3385538					Longitude 103.7347945				NAD 83

Last Take Point (LTP)

UL N	Section 12	Township 23S	Range 31E	Lot	Feet 517	From N/S SOUTH	Feet 1628	From E/W WEST	County EDDY
Latitude 32.3131208					Longitude 103.7347583				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Devon

SURVEY REPORT

Tomb Raider 1-12 Fed 612H

Cactus 167

This survey is correct to the best of my knowledge and is supported by actual field data.

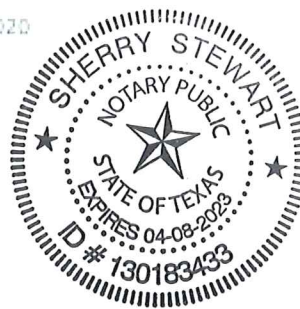
Notarized this data 6th of January, 2020

Sherry Stewart

Notary Signature

County of Midland

State of Texas



The **Ultimate Partner** In Wellbore Placement



Scientific Drilling

Devon Energy

Eddy County, NM (NAD83 NME)

Tomb Raider 1-12 Fed

612H

OH

Survey: SDI Survey #1

Standard Survey Report

14 November, 2019



Scientific Drilling

www.scientificdrilling.com



Company:	Devon Energy	Local Co-ordinate Reference:	Well 612H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3490.00usft (Cactus 167)
Site:	Tomb Raider 1-12 Fed	MD Reference:	KB = 23' @ 3490.00usft (Cactus 167)
Well:	612H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Eddy County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site		Tomb Raider 1-12 Fed			
Site Position:		Northing:	487,968.75 usft	Latitude:	32° 20' 24.208 N
From:	Map	Easting:	727,482.68 usft	Longitude:	103° 43' 50.202 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.32 °

Well	612H					
Well Position	+N/-S	0.00 usft	Northing:	487,994.95 usft	Latitude:	32° 20' 24.512 N
	+E/-W	0.00 usft	Easting:	726,674.81 usft	Longitude:	103° 43' 59.616 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,467.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/25/2019	6.80	60.07	47,989

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)	
	0.00	0.00	0.00	182.18	

Survey Program	Date	11/11/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
207.00	21,100.00	SDI Survey #1 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
207.00	0.91	178.83	206.99	-1.64	0.03	1.64	0.44	0.44	0.00	
298.00	0.58	175.56	297.98	-2.83	0.08	2.82	0.37	-0.36	-3.59	
389.00	1.10	173.28	388.97	-4.15	0.22	4.14	0.57	0.57	-2.51	
478.00	0.79	136.91	477.96	-5.45	0.74	5.42	0.74	-0.35	-40.87	
569.00	1.14	151.07	568.95	-6.70	1.61	6.63	0.46	0.38	15.56	
647.00	1.12	157.92	646.93	-8.08	2.27	7.99	0.17	-0.03	8.78	
768.00	0.40	136.70	767.92	-9.49	3.00	9.37	0.63	-0.60	-17.54	
859.00	0.66	159.20	858.92	-10.21	3.41	10.07	0.36	0.29	24.73	
950.00	0.44	184.02	949.91	-11.05	3.57	10.90	0.35	-0.24	27.27	

Company:	Devon Energy	Local Co-ordinate Reference:	Well 612H
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Well:	612H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,040.00	0.47	185.76	1,039.91	-11.76	3.51	11.62	0.04	0.03	1.93
1,131.00	0.30	199.88	1,130.91	-12.35	3.39	12.22	0.21	-0.19	15.52
1,222.00	0.48	213.04	1,221.91	-12.90	3.10	12.77	0.22	0.20	14.46
1,313.00	0.50	202.47	1,312.90	-13.58	2.74	13.47	0.10	0.02	-11.62
1,404.00	0.47	210.26	1,403.90	-14.27	2.40	14.17	0.08	-0.03	8.56
1,498.00	0.64	207.01	1,497.90	-15.07	1.97	14.99	0.18	0.18	-3.46
1,529.00	0.56	218.49	1,528.89	-15.35	1.80	15.27	0.46	-0.26	37.03
1,624.00	0.70	226.78	1,623.89	-16.11	1.08	16.06	0.18	0.15	8.73
1,718.00	0.89	236.37	1,717.88	-16.91	0.06	16.89	0.25	0.20	10.20
1,813.00	0.90	253.43	1,812.87	-17.53	-1.27	17.56	0.28	0.01	17.96
1,907.00	0.76	241.86	1,906.86	-18.03	-2.53	18.11	0.23	-0.15	-12.31
2,002.00	0.67	263.83	2,001.85	-18.39	-3.64	18.51	0.30	-0.09	23.13
2,096.00	1.32	272.95	2,095.84	-18.39	-5.26	18.58	0.71	0.69	9.70
2,191.00	2.05	272.67	2,190.80	-18.26	-8.05	18.55	0.77	0.77	-0.29
2,287.00	3.08	280.91	2,286.70	-17.69	-12.30	18.14	1.14	1.07	8.58
2,382.00	3.17	281.61	2,381.56	-16.68	-17.38	17.33	0.10	0.09	0.74
2,477.00	3.32	289.04	2,476.40	-15.25	-22.56	16.10	0.47	0.16	7.82
2,573.00	3.39	290.94	2,572.24	-13.33	-27.83	14.38	0.14	0.07	1.98
2,667.00	3.42	293.22	2,666.07	-11.23	-33.01	12.48	0.15	0.03	2.43
2,763.00	3.62	291.55	2,761.89	-8.99	-38.46	10.45	0.23	0.21	-1.74
2,858.00	3.57	294.60	2,856.71	-6.66	-43.94	8.32	0.21	-0.05	3.21
2,954.00	4.13	296.92	2,952.49	-3.85	-49.74	5.74	0.61	0.58	2.42
3,049.00	4.15	294.16	3,047.24	-0.89	-55.92	3.02	0.21	0.02	-2.91
3,144.00	4.00	300.82	3,142.00	2.21	-61.90	0.15	0.52	-0.16	7.01
3,239.00	4.98	297.88	3,236.71	5.84	-68.39	-3.23	1.06	1.03	-3.09
3,334.00	6.58	293.86	3,331.22	9.97	-77.02	-7.03	1.74	1.68	-4.23
3,429.00	8.20	287.17	3,425.43	14.17	-88.47	-10.79	1.93	1.71	-7.04
3,524.00	8.62	287.34	3,519.41	18.29	-101.74	-14.41	0.44	0.44	0.18
3,619.00	8.63	283.67	3,613.34	22.10	-115.46	-17.69	0.58	0.01	-3.86
3,715.00	8.76	274.84	3,708.24	24.42	-129.74	-19.46	1.40	0.14	-9.20
3,810.00	8.21	269.41	3,802.20	24.96	-143.73	-19.47	1.02	-0.58	-5.72
3,905.00	7.76	268.85	3,896.28	24.76	-156.93	-18.77	0.48	-0.47	-0.59
4,000.00	7.88	266.71	3,990.40	24.26	-169.84	-17.77	0.33	0.13	-2.25
4,095.00	8.11	264.82	4,084.47	23.28	-183.02	-16.29	0.37	0.24	-1.99
4,190.00	7.81	259.87	4,178.56	21.54	-196.05	-14.06	0.79	-0.32	-5.21
4,286.00	8.11	266.49	4,273.64	19.98	-209.23	-11.99	1.00	0.31	6.90
4,381.00	8.26	265.97	4,367.67	19.09	-222.72	-10.59	0.18	0.16	-0.55
4,476.00	7.84	266.22	4,461.73	18.18	-235.99	-9.18	0.44	-0.44	0.26
4,572.00	7.81	263.89	4,556.84	17.06	-249.01	-7.56	0.33	-0.03	-2.43
4,666.00	8.43	264.83	4,649.89	15.75	-262.23	-5.76	0.67	0.66	1.00
4,761.00	9.35	264.89	4,743.75	14.44	-276.85	-3.89	0.97	0.97	0.06
4,856.00	9.54	264.01	4,837.46	12.93	-292.36	-1.79	0.25	0.20	-0.93
4,951.00	9.57	259.44	4,931.15	10.66	-307.96	1.07	0.80	0.03	-4.81
5,046.00	8.71	259.22	5,024.94	7.87	-322.79	4.43	0.91	-0.91	-0.23

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,142.00	9.00	257.99	5,119.80	4.95	-337.27	7.90	0.36	0.30	-1.28	
5,237.00	8.29	255.99	5,213.72	1.74	-351.18	11.63	0.81	-0.75	-2.11	
5,332.00	7.99	261.62	5,307.76	-0.88	-364.36	14.75	0.90	-0.32	5.93	
5,428.00	8.05	264.49	5,402.82	-2.49	-377.65	16.88	0.42	0.06	2.99	
5,523.00	7.58	270.33	5,496.94	-3.10	-390.54	17.97	0.97	-0.49	6.15	
5,618.00	7.75	273.37	5,591.09	-2.68	-403.20	18.04	0.46	0.18	3.20	
5,714.00	8.05	271.47	5,686.18	-2.13	-416.38	17.99	0.41	0.31	-1.98	
5,808.00	8.36	272.29	5,779.22	-1.69	-429.79	18.06	0.35	0.33	0.87	
5,903.00	7.32	270.37	5,873.33	-1.37	-442.74	18.24	1.13	-1.09	-2.02	
5,998.00	6.19	270.27	5,967.67	-1.31	-453.92	18.60	1.19	-1.19	-0.11	
6,093.00	4.55	276.66	6,062.25	-0.85	-462.78	18.48	1.83	-1.73	6.73	
6,187.00	2.69	272.97	6,156.06	-0.30	-468.69	18.15	1.99	-1.98	-3.93	
6,283.00	1.26	275.40	6,252.00	-0.09	-471.99	18.06	1.49	-1.49	2.53	
6,378.00	0.53	271.71	6,346.99	0.02	-473.47	18.01	0.77	-0.77	-3.88	
6,474.00	0.59	283.40	6,442.98	0.15	-474.39	17.92	0.13	0.06	12.18	
6,568.00	0.59	286.13	6,536.98	0.40	-475.33	17.71	0.03	0.00	2.90	
6,663.00	0.58	298.80	6,631.97	0.77	-476.22	17.37	0.14	-0.01	13.34	
6,759.00	0.45	299.22	6,727.97	1.18	-476.97	16.98	0.14	-0.14	0.44	
6,853.00	0.46	287.50	6,821.97	1.48	-477.66	16.72	0.10	0.01	-12.47	
6,948.00	0.32	295.80	6,916.96	1.71	-478.26	16.51	0.16	-0.15	8.74	
7,043.00	0.29	278.19	7,011.96	1.86	-478.74	16.38	0.10	-0.03	-18.54	
7,139.00	0.38	252.10	7,107.96	1.79	-479.28	16.46	0.18	0.09	-27.18	
7,234.00	0.48	238.19	7,202.96	1.49	-479.92	16.79	0.15	0.11	-14.64	
7,329.00	0.61	230.93	7,297.95	0.96	-480.65	17.35	0.15	0.14	-7.64	
7,424.00	0.84	219.94	7,392.95	0.11	-481.49	18.23	0.28	0.24	-11.57	
7,519.00	1.25	215.67	7,487.93	-1.27	-482.54	19.65	0.44	0.43	-4.49	
7,615.00	1.47	213.74	7,583.90	-3.14	-483.83	21.57	0.23	0.23	-2.01	
7,710.00	1.62	212.90	7,678.87	-5.28	-485.24	23.76	0.16	0.16	-0.88	
7,805.00	1.59	218.57	7,773.83	-7.44	-486.79	25.98	0.17	-0.03	5.97	
7,900.00	1.39	219.66	7,868.80	-9.36	-488.35	27.95	0.21	-0.21	1.15	
7,996.00	1.75	225.62	7,964.76	-11.28	-490.14	29.94	0.41	0.38	6.21	
8,091.00	1.35	235.50	8,059.73	-12.93	-492.10	31.66	0.50	-0.42	10.40	
8,186.00	1.01	247.49	8,154.71	-13.88	-493.79	32.68	0.44	-0.36	12.62	
8,282.00	1.00	253.11	8,250.69	-14.45	-495.38	33.31	0.10	-0.01	5.85	
8,377.00	0.92	256.52	8,345.68	-14.87	-496.91	33.79	0.10	-0.08	3.59	
8,472.00	0.81	238.86	8,440.67	-15.40	-498.23	34.36	0.30	-0.12	-18.59	
8,567.00	0.98	261.23	8,535.66	-15.87	-499.61	34.88	0.41	0.18	23.55	
8,663.00	0.77	259.01	8,631.65	-16.11	-501.05	35.19	0.22	-0.22	-2.31	
8,758.00	0.91	274.06	8,726.64	-16.18	-502.43	35.31	0.27	0.15	15.84	
8,853.00	1.48	297.16	8,821.62	-15.57	-504.27	34.76	0.77	0.60	24.32	
8,949.00	2.17	309.41	8,917.57	-13.85	-506.78	33.14	0.82	0.72	12.76	
9,044.00	2.66	314.27	9,012.48	-11.17	-509.75	30.58	0.56	0.52	5.12	
9,139.00	2.30	306.68	9,107.39	-8.49	-512.86	28.02	0.51	-0.38	-7.99	

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Well:	612H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,235.00	2.10	306.11	9,203.32	-6.30	-515.82	25.95	0.21	-0.21	-0.59	
9,330.00	2.43	309.39	9,298.25	-4.00	-518.78	23.76	0.37	0.35	3.45	
9,426.00	2.72	306.35	9,394.15	-1.36	-522.19	21.25	0.33	0.30	-3.17	
9,520.00	2.47	304.90	9,488.06	1.12	-525.65	18.90	0.27	-0.27	-1.54	
9,615.00	2.35	302.30	9,582.97	3.33	-528.97	16.82	0.17	-0.13	-2.74	
9,710.00	2.49	298.37	9,677.89	5.36	-532.44	14.93	0.23	0.15	-4.14	
9,805.00	1.87	287.73	9,772.82	6.81	-535.73	13.60	0.78	-0.65	-11.20	
9,899.00	0.89	276.59	9,866.79	7.36	-537.92	13.13	1.08	-1.04	-11.85	
9,993.00	0.78	272.08	9,960.78	7.47	-539.28	13.08	0.14	-0.12	-4.80	
10,088.00	0.73	291.39	10,055.77	7.71	-540.49	12.88	0.27	-0.05	20.33	
10,183.00	0.61	324.20	10,150.77	8.34	-541.35	12.28	0.42	-0.13	34.54	
10,278.00	0.64	230.45	10,245.76	8.41	-542.05	12.24	0.96	0.03	-98.68	
10,373.00	0.84	327.61	10,340.76	8.66	-542.84	12.02	1.18	0.21	102.27	
10,467.00	1.86	32.10	10,434.73	10.54	-542.39	10.13	1.79	1.09	68.61	
10,562.00	2.49	76.91	10,529.67	12.31	-539.56	8.25	1.85	0.66	47.17	
10,658.00	3.11	49.79	10,625.56	14.46	-535.54	5.94	1.50	0.65	-28.25	
10,752.00	3.33	301.03	10,719.48	17.52	-535.94	2.90	5.57	0.23	-115.70	
10,847.00	3.25	357.59	10,814.34	21.63	-538.42	-1.11	3.28	-0.08	59.54	
10,983.00	1.02	338.20	10,950.24	26.61	-539.03	-6.06	1.70	-1.64	-14.26	
11,079.00	0.45	328.13	11,046.23	27.72	-539.54	-7.15	0.61	-0.59	-10.49	
11,174.00	0.71	341.90	11,141.23	28.60	-539.92	-8.02	0.31	0.27	14.49	
11,269.00	7.87	172.96	11,235.95	22.69	-539.31	-2.14	9.02	7.54	-177.83	
11,365.00	17.68	175.69	11,329.46	1.58	-537.40	18.89	10.24	10.22	2.84	
11,412.00	24.46	174.38	11,373.30	-15.24	-535.91	35.64	14.46	14.43	-2.79	
11,460.00	30.15	172.03	11,415.93	-37.08	-533.26	57.37	12.06	11.85	-4.90	
11,507.00	34.14	172.37	11,455.72	-61.85	-529.88	81.99	8.50	8.49	0.72	
11,556.00	38.30	176.43	11,495.25	-90.65	-527.10	110.66	9.80	8.49	8.29	
11,603.00	43.90	177.17	11,530.65	-121.49	-525.39	141.41	11.96	11.91	1.57	
11,651.00	48.86	175.45	11,563.76	-156.15	-523.13	175.96	10.65	10.33	-3.58	
11,698.00	51.22	173.63	11,593.94	-192.01	-519.70	211.66	5.83	5.02	-3.87	
11,746.00	55.58	172.53	11,622.55	-230.25	-515.04	249.70	9.27	9.08	-2.29	
11,793.00	60.06	171.61	11,647.58	-269.64	-509.55	288.85	9.67	9.53	-1.96	
11,842.00	62.10	171.66	11,671.27	-312.07	-503.31	331.01	4.16	4.16	0.10	
11,889.00	62.52	170.90	11,693.11	-353.21	-497.00	371.88	1.69	0.89	-1.62	
11,937.00	66.79	172.93	11,713.66	-396.14	-490.91	414.55	9.68	8.90	4.23	
11,984.00	72.46	177.28	11,730.02	-440.01	-487.19	458.25	14.86	12.06	9.26	
12,032.00	76.75	178.79	11,742.76	-486.25	-485.61	504.39	9.44	8.94	3.15	
12,079.00	77.96	177.47	11,753.05	-532.09	-484.11	550.14	3.76	2.57	-2.81	
12,128.00	78.62	175.65	11,763.00	-579.98	-481.23	597.88	3.88	1.35	-3.71	
12,175.00	83.37	174.84	11,770.35	-626.22	-477.38	643.95	10.25	10.11	-1.72	
12,223.00	88.42	174.89	11,773.79	-673.89	-473.10	691.42	10.52	10.52	0.10	
12,318.00	90.64	175.76	11,774.57	-768.57	-465.36	785.73	2.51	2.34	0.92	
12,414.00	90.13	175.35	11,773.92	-864.28	-457.92	881.09	0.68	-0.53	-0.43	

Company:	Devon Energy	Local Co-ordinate Reference:	Well 612H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3490.00usft (Cactus 167)
Site:	Tomb Raider 1-12 Fed	MD Reference:	KB = 23' @ 3490.00usft (Cactus 167)
Well:	612H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,509.00	90.81	178.61	11,773.14	-959.13	-452.91	975.68	3.51	0.72	3.43
12,605.00	90.37	178.41	11,772.15	-1,055.09	-450.42	1,071.48	0.50	-0.46	-0.21
12,700.00	91.88	179.86	11,770.29	-1,150.06	-448.98	1,166.32	2.20	1.59	1.53
12,796.00	91.38	179.10	11,767.56	-1,246.01	-448.11	1,262.17	0.95	-0.52	-0.79
12,891.00	91.17	178.59	11,765.44	-1,340.97	-446.20	1,356.99	0.58	-0.22	-0.54
12,987.00	89.87	180.55	11,764.57	-1,436.95	-445.48	1,452.88	2.45	-1.35	2.04
13,082.00	89.23	180.09	11,765.32	-1,531.95	-446.01	1,547.82	0.83	-0.67	-0.48
13,177.00	89.56	180.42	11,766.32	-1,626.94	-446.43	1,642.77	0.49	0.35	0.35
13,273.00	89.63	180.09	11,767.00	-1,722.94	-446.86	1,738.71	0.35	0.07	-0.34
13,368.00	88.56	179.82	11,768.50	-1,817.93	-446.78	1,833.62	1.16	-1.13	-0.28
13,464.00	89.90	180.92	11,769.79	-1,913.91	-447.40	1,929.56	1.81	1.40	1.15
13,559.00	88.59	179.60	11,771.04	-2,008.90	-447.83	2,024.50	1.96	-1.38	-1.39
13,654.00	88.22	179.73	11,773.69	-2,103.86	-447.28	2,119.37	0.41	-0.39	0.14
13,750.00	90.54	179.39	11,774.72	-2,199.84	-446.54	2,215.26	2.44	2.42	-0.35
13,845.00	90.23	178.28	11,774.09	-2,294.82	-444.61	2,310.09	1.21	-0.33	-1.17
13,940.00	88.69	177.46	11,774.98	-2,389.75	-441.08	2,404.81	1.84	-1.62	-0.86
14,035.00	91.44	181.26	11,774.87	-2,484.72	-440.02	2,499.67	4.94	2.89	4.00
14,159.00	92.68	182.35	11,770.42	-2,608.57	-443.92	2,623.58	1.33	1.00	0.88
14,254.00	90.10	180.88	11,768.11	-2,703.49	-446.60	2,718.54	3.13	-2.72	-1.55
14,349.00	89.83	180.44	11,768.17	-2,798.49	-447.69	2,813.51	0.54	-0.28	-0.46
14,445.00	90.00	180.10	11,768.31	-2,894.49	-448.14	2,909.45	0.40	0.18	-0.35
14,540.00	89.10	180.09	11,769.06	-2,989.48	-448.30	3,004.39	0.95	-0.95	-0.01
14,635.00	89.26	179.82	11,770.42	-3,084.47	-448.23	3,099.30	0.33	0.17	-0.28
14,731.00	91.27	179.21	11,769.97	-3,180.46	-447.41	3,195.19	2.19	2.09	-0.64
14,826.00	90.50	179.12	11,768.51	-3,275.44	-446.03	3,290.05	0.82	-0.81	-0.09
14,922.00	90.27	179.65	11,767.86	-3,371.43	-445.00	3,385.93	0.60	-0.24	0.55
15,017.00	91.17	178.52	11,766.67	-3,466.41	-443.48	3,480.78	1.52	0.95	-1.19
15,112.00	91.11	178.44	11,764.78	-3,561.36	-440.96	3,575.57	0.11	-0.06	-0.08
15,208.00	90.30	178.90	11,763.60	-3,657.32	-438.73	3,671.38	0.97	-0.84	0.48
15,303.00	89.80	178.85	11,763.51	-3,752.30	-436.87	3,766.22	0.53	-0.53	-0.05
15,398.00	91.98	178.86	11,762.04	-3,847.27	-434.97	3,861.04	2.29	2.29	0.01
15,493.00	90.81	178.10	11,759.73	-3,942.20	-432.45	3,955.81	1.47	-1.23	-0.80
15,588.00	91.68	178.29	11,757.66	-4,037.13	-429.46	4,050.56	0.94	0.92	0.20
15,684.00	91.78	178.60	11,754.76	-4,133.05	-426.86	4,146.31	0.34	0.10	0.32
15,779.00	90.33	177.35	11,753.01	-4,227.97	-423.50	4,241.04	2.02	-1.53	-1.32
15,874.00	89.53	177.05	11,753.13	-4,322.86	-418.86	4,335.68	0.90	-0.84	-0.32
15,970.00	89.23	177.14	11,754.17	-4,418.73	-413.99	4,431.29	0.33	-0.31	0.09
16,065.00	90.33	179.86	11,754.53	-4,513.69	-411.51	4,526.09	3.09	1.16	2.86
16,160.00	90.50	180.37	11,753.85	-4,608.68	-411.70	4,621.02	0.57	0.18	0.54
16,255.00	91.17	180.68	11,752.46	-4,703.67	-412.57	4,715.97	0.78	0.71	0.33
16,351.00	88.76	179.19	11,752.52	-4,799.66	-412.46	4,811.89	2.95	-2.51	-1.55
16,446.00	87.89	178.93	11,755.30	-4,894.61	-410.90	4,906.70	0.96	-0.92	-0.27
16,541.00	90.07	183.23	11,756.99	-4,989.55	-412.69	5,001.64	5.07	2.29	4.53
16,637.00	90.40	183.54	11,756.59	-5,085.38	-418.36	5,097.62	0.47	0.34	0.32

Company:	Devon Energy	Local Co-ordinate Reference:	Well 612H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3490.00usft (Cactus 167)
Site:	Tomb Raider 1-12 Fed	MD Reference:	KB = 23' @ 3490.00usft (Cactus 167)
Well:	612H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,732.00	90.03	184.00	11,756.24	-5,180.17	-424.61	5,192.58	0.62	-0.39	0.48
16,828.00	89.46	183.64	11,756.67	-5,275.96	-431.00	5,288.54	0.70	-0.59	-0.38
16,923.00	87.85	182.87	11,758.90	-5,370.77	-436.40	5,383.50	1.88	-1.69	-0.81
17,018.00	86.42	181.08	11,763.64	-5,465.59	-439.67	5,478.37	2.41	-1.51	-1.88
17,114.00	91.21	180.92	11,765.63	-5,561.53	-441.34	5,574.30	4.99	4.99	-0.17
17,209.00	90.27	181.02	11,764.40	-5,656.50	-442.95	5,669.27	1.00	-0.99	0.11
17,305.00	88.63	180.31	11,765.32	-5,752.49	-444.06	5,765.23	1.86	-1.71	-0.74
17,400.00	90.77	181.28	11,765.82	-5,847.47	-445.38	5,860.19	2.47	2.25	1.02
17,496.00	90.03	181.09	11,765.15	-5,943.45	-447.37	5,956.18	0.80	-0.77	-0.20
17,591.00	91.71	179.49	11,763.71	-6,038.43	-447.85	6,051.11	2.44	1.77	-1.68
17,686.00	90.70	179.88	11,761.71	-6,133.41	-447.33	6,145.99	1.14	-1.06	0.41
17,781.00	90.40	180.36	11,760.80	-6,228.40	-447.52	6,240.93	0.60	-0.32	0.51
17,877.00	89.77	180.26	11,760.66	-6,324.40	-448.04	6,336.88	0.66	-0.66	-0.10
17,971.00	90.97	179.68	11,760.05	-6,418.40	-447.99	6,430.80	1.42	1.28	-0.62
18,067.00	91.07	180.27	11,758.34	-6,514.38	-447.95	6,526.71	0.62	0.10	0.61
18,161.00	90.94	178.50	11,756.69	-6,608.36	-446.94	6,620.58	1.89	-0.14	-1.88
18,257.00	90.34	178.17	11,755.62	-6,704.31	-444.15	6,716.36	0.71	-0.63	-0.34
18,352.00	89.56	177.96	11,755.70	-6,799.25	-440.95	6,811.12	0.85	-0.82	-0.22
18,447.00	88.93	177.48	11,756.95	-6,894.17	-437.17	6,905.82	0.83	-0.66	-0.51
18,541.00	90.30	177.45	11,757.58	-6,988.07	-433.01	6,999.50	1.46	1.46	-0.03
18,637.00	90.30	177.55	11,757.08	-7,083.98	-428.82	7,095.17	0.10	0.00	0.10
18,732.00	89.23	177.28	11,757.47	-7,178.88	-424.54	7,189.84	1.16	-1.13	-0.28
18,826.00	90.60	178.04	11,757.61	-7,272.80	-420.70	7,283.55	1.67	1.46	0.81
18,920.00	91.71	179.15	11,755.72	-7,366.75	-418.40	7,377.34	1.67	1.18	1.18
19,015.00	91.84	178.52	11,752.77	-7,461.68	-416.47	7,472.13	0.68	0.14	-0.66
19,110.00	91.74	178.03	11,749.81	-7,556.60	-413.61	7,566.87	0.53	-0.11	-0.52
19,205.00	91.31	177.73	11,747.28	-7,651.50	-410.09	7,661.56	0.55	-0.45	-0.32
19,298.00	90.77	179.96	11,745.59	-7,744.46	-408.22	7,754.38	2.47	-0.58	2.40
19,392.00	91.17	179.29	11,744.00	-7,838.44	-407.61	7,848.28	0.83	0.43	-0.71
19,487.00	88.93	177.95	11,743.92	-7,933.40	-405.32	7,943.08	2.75	-2.36	-1.41
19,582.00	88.49	180.29	11,746.05	-8,028.36	-403.86	8,037.92	2.51	-0.46	2.46
19,677.00	88.93	180.28	11,748.19	-8,123.34	-404.33	8,132.84	0.46	0.46	-0.01
19,772.00	88.86	180.40	11,750.03	-8,218.32	-404.89	8,227.77	0.15	-0.07	0.13
19,866.00	88.89	180.61	11,751.87	-8,312.29	-405.72	8,321.72	0.23	0.03	0.22
19,961.00	86.64	179.92	11,755.58	-8,407.21	-406.16	8,416.58	2.48	-2.37	-0.73
20,056.00	87.02	180.39	11,760.83	-8,502.07	-406.42	8,511.38	0.64	0.40	0.49
20,151.00	87.62	180.62	11,765.27	-8,596.96	-407.26	8,606.23	0.68	0.63	0.24
20,246.00	89.03	181.14	11,768.05	-8,691.91	-408.71	8,701.17	1.58	1.48	0.55
20,341.00	92.18	181.75	11,767.04	-8,786.86	-411.11	8,796.14	3.38	3.32	0.64
20,436.00	91.17	181.06	11,764.27	-8,881.79	-413.44	8,891.09	1.29	-1.06	-0.73
20,531.00	91.01	181.13	11,762.46	-8,976.75	-415.25	8,986.06	0.18	-0.17	0.07
20,626.00	89.63	180.78	11,761.93	-9,071.74	-416.84	9,081.03	1.50	-1.45	-0.37
20,722.00	92.38	182.35	11,760.25	-9,167.67	-419.46	9,177.00	3.30	2.86	1.64

Company:	Devon Energy	Local Co-ordinate Reference:	Well 612H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 23' @ 3490.00usft (Cactus 167)
Site:	Tomb Raider 1-12 Fed	MD Reference:	KB = 23' @ 3490.00usft (Cactus 167)
Well:	612H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,817.00	91.77	182.21	11,756.81	-9,262.53	-423.23	9,271.93	0.66	-0.64	-0.15	
20,910.00	89.66	181.12	11,755.65	-9,355.48	-425.93	9,364.92	2.55	-2.27	-1.17	
21,005.00	90.13	179.96	11,755.82	-9,450.48	-426.83	9,459.88	1.32	0.49	-1.22	
21,100.00	91.54	180.88	11,754.44	-9,545.46	-427.53	9,554.82	1.77	1.48	0.97	
21,196.00	91.44	178.84	11,751.94	-9,641.42	-427.29	9,650.70	2.13	-0.10	-2.13	
21,291.00	91.78	178.11	11,749.27	-9,736.35	-424.76	9,745.46	0.85	0.36	-0.77	
21,386.00	92.08	178.30	11,746.07	-9,831.25	-421.79	9,840.18	0.37	0.32	0.20	
21,472.00	91.97	178.45	11,743.03	-9,917.16	-419.35	9,925.94	0.22	-0.13	0.17	
FINAL MWD Survey (21472.00' MD)										
21,525.00	91.97	178.45	11,741.21	-9,970.11	-417.92	9,978.79	0.00	0.00	0.00	
FINAL Proj. to Bit (21525.00' MD) - BHL[TR1-12\612H]										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
21,472.00	11,743.03	-9,917.16	-419.35	FINAL MWD Survey (21472.00' MD)	
21,525.00	11,741.21	-9,970.11	-417.92	FINAL Proj. to Bit (21525.00' MD)	

Checked By: _____	Approved By: _____	Date: _____
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