

District I
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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

RECEIVED

JAN 22 2020

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

☒ AMENDED REPORT
AS-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-45440		2 Pool Code 39350		3 Pool Name Livingston Ridge; Bone Spring	
4 Property Code 310874		5 Property Name TOMB RAIDER 1-12 FED			6 Well Number 514H
7 OGRID No. 6137		8 Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			9 Elevation 3475.7
10 Surface Location					
UL or lot no. 2	Section 1	Township 23 S	Range 31 E	Lot Idn	Feet from the 360
				North/South line NORTH	Feet from the 2365
				East/West line EAST	County EDDY
11 Bottom Hole Location If Different From Surface					
UL or lot no. B	Section 13	Township 23 S	Range 31 E	Lot Idn	Feet from the 25
				North/South line NORTH	Feet from the 2505
				East/West line EAST	County EDDY
12 Dedicated Acres 320-NSL		13 Joint or Infill		14 Consolidation Code	
				15 Order No. NSL-7787	

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.

NW CORNER SEC. 1 LAT. = 32.3407245°N LONG. = 103.7400556°W NMSP EAST (FT) N = 488195.03 E = 724564.59 W/4 CORNER SEC. 1 LAT. = 32.3334649°N LONG. = 103.7400345°W NMSP EAST (FT) N = 485554.08 E = 724585.72 NW CORNER SEC. 12 LAT. = 32.3262057°N LONG. = 103.7400123°W NMSP EAST (FT) N = 482913.26 E = 724607.20 W/4 CORNER SEC. 12 LAT. = 32.3189531°N LONG. = 103.7400200°W NMSP EAST (FT) N = 480274.75 E = 724619.44 SW CORNER SEC. 12 LAT. = 32.3116999°N LONG. = 103.7400280°W NMSP EAST (FT) N = 477636.10 E = 724631.57 W/4 CORNER SEC. 12 LAT. = 32.3044481°N LONG. = 103.7400341°W NMSP EAST (FT) N = 474997.91 E = 724644.28 SW CORNER SEC. 12 LAT. = 32.2971988°N LONG. = 103.7400387°W NMSP EAST (FT) N = 472360.64 E = 724657.46		N/4 CORNER SEC. 1 LAT. = 32.3407180°N LONG. = 103.7315040°W NMSP EAST (FT) N = 488207.42 E = 727205.71 ELEV. = 3475.7 LAT. = 32.3397278°N (NAD83) LONG. = 103.7306116°W NMSP EAST (FT) N = 487848.73 E = 727483.34 N/4 CORNER SEC. 12 LAT. = 32.3262026°N LONG. = 103.7314852°W NMSP EAST (FT) N = 482926.80 E = 727241.16 S/4 CORNER SEC. 12 LAT. = 32.3116989°N LONG. = 103.7314958°W NMSP EAST (FT) N = 477650.43 E = 727267.52 S/4 CORNER SEC. 12 LAT. = 32.2971983°N LONG. = 103.7315037°W NMSP EAST (FT) N = 472375.15 E = 727294.69		NE CORNER SEC. 1 LAT. = 32.3407105°N LONG. = 103.7229557°W NMSP EAST (FT) N = 488219.63 E = 729845.81 E/4 CORNER SEC. 1 LAT. = 32.3334554°N LONG. = 103.7229555°W NMSP EAST (FT) N = 485580.24 E = 729860.91 NE CORNER SEC. 12 LAT. = 32.3262014°N LONG. = 103.7229554°W NMSP EAST (FT) N = 482941.27 E = 729875.98 E/4 CORNER SEC. 12 LAT. = 32.3189486°N LONG. = 103.7229585°W NMSP EAST (FT) N = 480302.72 E = 729890.06 SE CORNER SEC. 12 LAT. = 32.3116930°N LONG. = 103.7229595°W NMSP EAST (FT) N = 477663.17 E = 729904.77 E/4 CORNER SEC. 12 LAT. = 32.3044384°N LONG. = 103.7229608°W NMSP EAST (FT) N = 475023.97 E = 729919.08 SE CORNER SEC. 12 LAT. = 32.2971933°N LONG. = 103.7229608°W NMSP EAST (FT) N = 472388.76 E = 729934.39		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> 9-10-2019 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. MAY 21, 2018 Date of Survey <i>William F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 NO. 6214A	
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Intent ☐ As Drilled ☒

API #

36-015-45440

Operator Name:

DEVON ENERGY PRODUCTION CO., L.P.

Property Name:

TOMB RAIDER 1-12 FED

Well Number

514H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	1	23S	31E	2	59	NORTH	2514	EAST	EDDY
Latitude					Longitude			NAD	
32.3405552					103.7310924			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	1	23S	31E	2	479	NORTH	2509	EAST	EDDY
Latitude					Longitude			NAD	
32.3394018					103.7310772			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
0	12	23S	31E		119	SOUTH	2503	EAST	EDDY
Latitude					Longitude			NAD	
32.3120260					103.7310599			83	

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

no

non-standard location

Is this well an infill well?

no

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



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **01/05/19** thru **01/22/19** conduct or supervise the taking of a **MWD Survey** from a depth of **180'** to a depth of **19262'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy** for the **Tomb Raider 1-12 Fed 514H** API No. **30-015-45440** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

Larry

Wright

Digitally signed
by Larry Wright

Date:

2019.08.16

12:11:06 -05'00'



Devon Energy

Eddy Co., NM (Nad83 - East Zone)

Tomb Raider 1-12 Fed

#514H

OH

Design: OH

End Of Well Report

22 January, 2019

WELLBENDERS
DIRECTIONAL SERVICES LLC



RECEIVED

SEP 12 2019

DISTRICT/ARTESIAO.C.D.



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBOS_SQL_2

Project	Eddy Co., NM (Nad83 - East Zone)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Tomb Raider 1-12 Fed		
Site Position:	From: Map	Northing:	487,848.73 usft
		Easting:	727,483.34 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.339728
		Longitude:	-103.730612
		Grid Convergence:	0.322 °

Well	#514H					
Well Position	+N/-S	0.00 usft	Northing:	487,848.73 usft	Latitude:	32.339728
	+E/-W	0.00 usft	Easting:	727,483.34 usft	Longitude:	-103.730612
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,475.70 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	1/10/2019	7.000	60.090	48,043.00000000

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 (°)		
	0.00	0.00	0.00	179.68		

Survey Program	Date 1/22/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
180.00	19,262.00	Survey #1 (OH)	MWD+IFR1	OWSG MWD + IFR1



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180.00	0.70	31.47	180.00	0.94	0.57	-0.93	180.00	31.47	0.39	
267.00	0.79	30.50	266.99	1.91	1.16	-1.90	87.00	30.96	0.10	
360.00	0.44	14.85	359.98	2.81	1.57	-2.80	93.00	24.91	0.41	
453.00	0.48	359.21	452.98	3.54	1.66	-3.53	93.00	6.69	0.14	
545.00	0.35	356.57	544.98	4.21	1.64	-4.20	92.00	358.10	0.14	
637.00	0.40	327.66	636.98	4.76	1.45	-4.75	92.00	341.13	0.21	
730.00	0.09	305.24	729.97	5.07	1.21	-5.07	93.00	323.60	0.34	
761.00	0.09	354.55	760.97	5.11	1.19	-5.11	31.00	329.89	0.24	
880.00	0.04	263.76	879.97	5.20	1.14	-5.19	119.00	330.46	0.08	
972.00	0.13	217.79	971.97	5.12	1.05	-5.11	92.00	228.12	0.12	
1,064.00	0.13	274.66	1,063.97	5.04	0.88	-5.04	92.00	246.22	0.13	
1,157.00	0.22	223.51	1,156.97	4.92	0.65	-4.92	93.00	242.07	0.18	
1,250.00	0.31	220.17	1,249.97	4.60	0.37	-4.60	93.00	221.56	0.10	
1,343.00	0.31	195.21	1,342.97	4.16	0.14	-4.16	93.00	207.69	0.14	
1,436.00	0.40	209.53	1,435.97	3.64	-0.09	-3.64	93.00	203.28	0.14	
1,528.00	0.48	207.51	1,527.97	3.02	-0.43	-3.02	92.00	208.43	0.09	
1,620.00	0.40	203.38	1,619.96	2.38	-0.73	-2.38	92.00	205.63	0.09	
1,713.00	0.44	250.49	1,712.96	1.96	-1.20	-1.97	93.00	228.12	0.36	
1,808.00	0.44	213.75	1,807.96	1.54	-1.74	-1.55	95.00	232.12	0.29	
1,902.00	0.31	208.74	1,901.96	1.01	-2.07	-1.03	94.00	211.68	0.14	
1,997.00	0.26	194.94	1,996.96	0.58	-2.24	-0.59	95.00	202.45	0.09	
2,091.00	0.26	175.87	2,090.96	0.16	-2.28	-0.18	94.00	185.40	0.09	
2,186.00	0.40	157.32	2,185.95	-0.36	-2.14	0.35	95.00	164.61	0.18	
2,281.00	0.35	155.04	2,280.95	-0.93	-1.89	0.92	95.00	156.26	0.05	
2,375.00	0.26	148.80	2,374.95	-1.37	-1.66	1.36	94.00	152.38	0.10	
2,470.00	0.00	0.00	2,469.95	-1.55	-1.55	1.55	95.00	148.80	0.27	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V.Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
2,565.00	0.88	325.37	2,564.95	-0.95	-1.96	0.94	95.00	325.37	0.93	
2,659.00	1.85	313.15	2,658.92	0.68	-3.48	-0.70	94.00	317.08	1.07	
2,754.00	3.69	320.80	2,753.80	4.10	-6.53	-4.13	95.00	318.25	1.97	
2,849.00	4.48	327.04	2,848.56	9.58	-10.48	-9.64	95.00	324.22	0.95	
2,943.00	4.04	328.80	2,942.30	15.49	-14.19	-15.57	94.00	327.87	0.49	
3,038.00	3.96	330.12	3,037.07	21.20	-17.56	-21.29	95.00	329.45	0.13	
3,133.00	3.69	332.40	3,131.86	26.75	-20.61	-26.87	95.00	331.22	0.33	
3,227.00	3.16	325.90	3,225.69	31.58	-23.47	-31.71	94.00	329.40	0.70	
3,322.00	2.95	325.20	3,320.56	35.75	-26.33	-35.90	95.00	325.56	0.22	
3,417.00	2.90	328.10	3,415.43	39.80	-28.99	-39.96	95.00	326.64	0.16	
3,512.00	3.78	327.13	3,510.27	44.47	-31.96	-44.65	95.00	327.55	0.93	
3,606.00	3.65	328.97	3,604.07	49.64	-35.19	-49.83	94.00	328.03	0.19	
3,701.00	2.29	335.48	3,698.94	53.95	-37.53	-54.16	95.00	331.48	1.47	
3,796.00	2.42	335.30	3,793.86	57.50	-39.16	-57.72	95.00	335.39	0.14	
3,891.00	3.91	341.72	3,888.72	62.40	-41.01	-62.63	95.00	339.27	1.61	
3,985.00	3.87	347.87	3,982.50	68.55	-42.69	-68.78	94.00	344.78	0.45	
4,080.00	2.95	357.10	4,077.33	74.12	-43.48	-74.36	95.00	351.86	1.12	
4,174.00	3.30	343.38	4,171.19	79.13	-44.38	-79.38	94.00	349.85	0.88	
4,269.00	3.60	342.32	4,266.02	84.59	-46.07	-84.85	95.00	342.83	0.32	
4,364.00	3.65	340.57	4,360.83	90.29	-47.98	-90.55	95.00	341.44	0.13	
4,458.00	3.56	335.82	4,454.64	95.77	-50.17	-96.05	94.00	338.22	0.33	
4,553.00	3.38	337.93	4,549.47	101.06	-52.43	-101.35	95.00	336.85	0.23	
4,647.00	3.30	338.19	4,643.31	106.14	-54.48	-106.44	94.00	338.06	0.09	
4,742.00	3.87	335.47	4,738.12	111.59	-56.82	-111.91	95.00	336.72	0.63	
4,837.00	4.35	336.17	4,832.88	117.80	-59.61	-118.13	95.00	335.84	0.51	
4,932.00	3.96	338.28	4,927.63	124.15	-62.28	-124.49	95.00	337.18	0.44	
5,026.00	3.74	337.14	5,021.42	129.99	-64.67	-130.35	94.00	337.73	0.25	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
5,121.00	3.65	339.07	5,116.22	135.67	-66.96	-136.04	95.00	338.09	0.16
5,216.00	3.74	340.74	5,211.02	141.42	-69.06	-141.80	95.00	339.92	0.15
5,310.00	3.60	341.18	5,304.83	147.10	-71.02	-147.50	94.00	340.96	0.15
5,405.00	3.74	335.03	5,399.64	152.73	-73.29	-153.14	95.00	338.05	0.44
5,499.00	3.82	332.74	5,493.43	158.30	-76.02	-158.72	94.00	333.87	0.18
5,594.00	3.74	334.77	5,588.22	163.91	-78.79	-164.35	95.00	333.74	0.16
5,689.00	3.52	335.29	5,683.03	169.37	-81.33	-169.82	95.00	335.02	0.23
5,784.00	3.34	336.44	5,777.86	174.55	-83.66	-175.02	95.00	335.85	0.20
5,878.00	3.34	337.93	5,871.70	179.60	-85.78	-180.08	94.00	337.18	0.09
5,966.00	3.34	339.16	5,959.55	184.37	-87.65	-184.86	88.00	338.55	0.08
6,066.00	3.03	342.32	6,059.40	189.61	-89.49	-190.11	100.00	340.66	0.36
6,161.00	3.03	339.51	6,154.27	194.36	-91.13	-194.86	95.00	340.92	0.16
6,256.00	3.34	329.84	6,249.12	199.10	-93.40	-199.62	95.00	334.44	0.65
6,350.00	3.69	327.30	6,342.94	204.01	-96.41	-204.55	94.00	328.51	0.41
6,445.00	4.00	325.36	6,437.73	209.31	-99.95	-209.87	95.00	326.29	0.35
6,540.00	4.09	323.25	6,532.49	214.75	-103.86	-215.33	95.00	324.29	0.18
6,634.00	4.00	321.67	6,626.26	220.01	-107.90	-220.61	94.00	322.47	0.15
6,729.00	3.69	312.27	6,721.05	224.67	-112.21	-225.29	95.00	317.16	0.74
6,824.00	3.69	318.86	6,815.85	229.02	-116.49	-229.67	95.00	315.56	0.45
6,918.00	3.56	327.56	6,909.66	233.77	-120.04	-234.43	94.00	323.13	0.60
7,013.00	3.43	345.75	7,004.49	239.01	-122.33	-239.69	95.00	336.48	1.17
7,108.00	3.03	349.18	7,099.34	244.23	-123.50	-244.92	95.00	347.36	0.47
7,202.00	2.95	343.64	7,193.21	248.99	-124.64	-249.68	94.00	346.45	0.32
7,297.00	2.90	337.67	7,288.09	253.56	-126.25	-254.26	95.00	340.68	0.32
7,392.00	2.68	337.31	7,382.97	257.83	-128.02	-258.54	95.00	337.50	0.23
7,486.00	2.29	333.80	7,476.89	261.54	-129.69	-262.26	94.00	335.69	0.45
7,581.00	3.03	333.80	7,571.78	265.50	-131.64	-266.23	95.00	333.80	0.78



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
7,675.00	3.08	333.01	7,665.65	269.98	-133.88	-270.72	94.00	333.40	0.07
7,770.00	3.38	337.67	7,760.50	274.84	-136.10	-275.60	95.00	335.45	0.42
7,865.00	3.69	340.39	7,855.32	280.31	-138.19	-281.08	95.00	339.09	0.37
7,960.00	3.25	337.49	7,950.14	285.68	-140.25	-286.46	95.00	339.03	0.50
8,054.00	3.21	334.50	8,043.99	290.52	-142.40	-291.31	94.00	336.00	0.18
8,149.00	2.73	330.55	8,138.87	294.89	-144.66	-295.69	95.00	332.68	0.55
8,244.00	2.42	329.23	8,233.77	298.58	-146.80	-299.40	95.00	329.93	0.33
8,326.00	2.24	326.94	8,315.70	301.41	-148.56	-302.24	82.00	328.13	0.25
8,433.00	4.35	203.81	8,422.60	299.45	-151.34	-300.29	107.00	234.80	5.50
8,528.00	14.95	176.65	8,516.16	283.87	-152.08	-284.72	95.00	182.72	11.84
8,622.00	21.19	175.33	8,605.48	254.81	-149.99	-255.64	94.00	175.88	6.65
8,717.00	31.87	180.25	8,690.36	212.49	-148.70	-213.31	95.00	178.25	11.47
8,811.00	41.10	182.80	8,765.86	156.69	-150.32	-157.53	94.00	181.66	9.95
8,906.00	49.01	179.46	8,832.93	89.53	-151.51	-90.38	95.00	181.01	8.69
9,000.00	56.79	177.09	8,889.59	14.66	-149.17	-15.49	94.00	178.21	8.52
9,094.00	64.04	176.65	8,935.97	-66.91	-144.70	66.10	94.00	176.86	7.72
9,189.00	76.13	179.90	8,968.28	-156.01	-142.11	155.21	95.00	178.34	13.12
9,252.00	86.24	181.92	8,977.92	-218.17	-143.12	217.37	63.00	180.92	16.36
9,336.00	91.52	182.36	8,979.56	-302.07	-146.25	301.24	84.00	182.14	6.31
9,430.00	90.77	182.45	8,977.68	-395.96	-150.20	395.12	94.00	182.41	0.80
9,525.00	89.19	181.13	8,977.71	-490.91	-153.16	490.05	95.00	181.79	2.17
9,620.00	89.54	181.13	8,978.77	-585.89	-155.04	585.01	95.00	181.13	0.37
9,715.00	90.59	181.22	8,978.66	-680.87	-156.98	679.98	95.00	181.17	1.11
9,809.00	89.49	180.17	8,978.59	-774.86	-158.12	773.96	94.00	180.69	1.62
9,904.00	90.51	179.64	8,978.59	-869.85	-157.97	868.96	95.00	179.90	1.21
9,999.00	90.42	179.55	8,977.82	-964.85	-157.30	963.96	95.00	179.59	0.13
10,094.00	90.46	179.29	8,977.09	-1,059.84	-156.33	1,058.95	95.00	179.42	0.28



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
10,189.00	90.59	179.38	8,976.22	-1,154.83	-155.23	1,153.95	95.00	179.33	0.17	
10,283.00	90.64	179.11	8,975.21	-1,248.82	-153.99	1,247.94	94.00	179.25	0.29	
10,376.00	91.03	179.02	8,973.86	-1,341.79	-152.48	1,340.92	93.00	179.07	0.43	
10,468.00	89.71	179.38	8,973.26	-1,433.78	-151.19	1,432.92	92.00	179.20	1.49	
10,561.00	89.63	180.34	8,973.80	-1,526.78	-150.96	1,525.91	93.00	179.86	1.04	
10,653.00	90.46	180.78	8,973.73	-1,618.77	-151.86	1,617.90	92.00	180.56	1.02	
10,745.00	91.56	181.13	8,972.11	-1,710.74	-153.40	1,709.86	92.00	180.95	1.25	
10,838.00	90.24	181.84	8,970.65	-1,803.70	-155.81	1,802.80	93.00	181.49	1.61	
10,930.00	90.20	182.10	8,970.29	-1,895.64	-158.97	1,894.73	92.00	181.97	0.29	
11,022.00	89.01	181.05	8,970.93	-1,987.60	-161.50	1,986.67	92.00	181.58	1.72	
11,115.00	88.88	181.13	8,972.64	-2,080.57	-163.27	2,079.63	93.00	181.09	0.16	
11,208.00	88.62	180.08	8,974.67	-2,173.54	-164.25	2,172.59	93.00	180.61	1.16	
11,301.00	89.41	180.08	8,976.27	-2,266.53	-164.38	2,265.58	93.00	180.08	0.85	
11,394.00	89.93	180.69	8,976.80	-2,359.52	-165.00	2,358.57	93.00	180.39	0.86	
11,486.00	89.45	179.02	8,977.30	-2,451.52	-164.77	2,450.56	92.00	179.86	1.89	
11,578.00	89.93	178.76	8,977.80	-2,543.50	-162.99	2,542.55	92.00	178.89	0.59	
11,671.00	90.37	179.02	8,977.55	-2,636.48	-161.19	2,635.54	93.00	178.89	0.55	
11,766.00	91.52	179.38	8,975.99	-2,731.46	-159.86	2,730.52	95.00	179.20	1.27	
11,860.00	90.37	178.50	8,974.44	-2,825.43	-158.12	2,824.50	94.00	178.94	1.54	
11,955.00	89.45	178.41	8,974.59	-2,920.39	-155.56	2,919.48	95.00	178.46	0.97	
12,049.00	90.15	178.85	8,974.91	-3,014.36	-153.31	3,013.46	94.00	178.63	0.88	
12,144.00	90.51	179.11	8,974.37	-3,109.35	-151.62	3,108.45	95.00	178.98	0.47	
12,239.00	90.77	179.20	8,973.31	-3,204.33	-150.22	3,203.44	95.00	179.15	0.29	
12,333.00	92.04	179.46	8,971.00	-3,298.29	-149.12	3,297.41	94.00	179.33	1.38	
12,427.00	89.76	179.99	8,969.53	-3,392.27	-148.67	3,391.39	94.00	179.73	2.49	
12,522.00	89.45	180.08	8,970.18	-3,487.27	-148.73	3,486.39	95.00	180.03	0.34	
12,617.00	89.67	180.25	8,970.91	-3,582.27	-149.00	3,581.38	95.00	180.17	0.29	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
12,711.00	90.02	180.25	8,971.16	-3,676.27	-149.41	3,675.37	94.00	180.25	0.37	
12,806.00	89.76	180.25	8,971.35	-3,771.27	-149.83	3,770.37	95.00	180.25	0.27	
12,900.00	89.98	180.17	8,971.56	-3,865.26	-150.17	3,864.37	94.00	180.21	0.25	
12,994.00	90.02	179.99	8,971.56	-3,959.26	-150.30	3,958.36	94.00	180.08	0.20	
13,089.00	90.07	180.17	8,971.48	-4,054.26	-150.43	4,053.36	95.00	180.08	0.20	
13,183.00	90.11	180.69	8,971.34	-4,148.26	-151.14	4,147.35	94.00	180.43	0.55	
13,278.00	88.57	178.32	8,972.43	-4,243.24	-150.32	4,242.34	95.00	179.51	2.97	
13,372.00	88.66	177.88	8,974.70	-4,337.16	-147.20	4,336.27	94.00	178.10	0.48	
13,467.00	89.45	178.06	8,976.27	-4,432.09	-143.84	4,431.22	95.00	177.97	0.85	
13,562.00	89.14	177.88	8,977.44	-4,527.02	-140.47	4,526.17	95.00	177.97	0.38	
13,657.00	90.46	178.50	8,977.77	-4,621.97	-137.47	4,621.13	95.00	178.19	1.54	
13,751.00	90.99	178.67	8,976.58	-4,715.93	-135.15	4,715.11	94.00	178.58	0.59	
13,846.00	91.56	178.76	8,974.47	-4,810.89	-133.02	4,810.07	95.00	178.71	0.61	
13,941.00	89.93	179.20	8,973.23	-4,905.86	-131.33	4,905.05	95.00	178.98	1.78	
14,035.00	90.07	179.55	8,973.23	-4,999.85	-130.31	4,999.05	94.00	179.37	0.40	
14,129.00	90.77	179.38	8,972.54	-5,093.85	-129.43	5,093.05	94.00	179.47	0.77	
14,223.00	91.52	179.29	8,970.67	-5,187.82	-128.34	5,187.02	94.00	179.34	0.80	
14,318.00	90.02	179.99	8,969.39	-5,282.81	-127.74	5,282.01	95.00	179.64	1.74	
14,412.00	89.85	179.55	8,969.50	-5,376.81	-127.36	5,376.01	94.00	179.77	0.50	
14,507.00	90.73	179.81	8,969.01	-5,471.80	-126.83	5,471.01	95.00	179.68	0.97	
14,601.00	91.52	179.64	8,967.17	-5,565.78	-126.38	5,564.99	94.00	179.73	0.86	
14,696.00	90.64	179.90	8,965.38	-5,660.76	-126.00	5,659.97	95.00	179.77	0.97	
14,791.00	90.68	179.73	8,964.28	-5,755.76	-125.70	5,754.97	95.00	179.82	0.18	
14,885.00	89.41	179.73	8,964.21	-5,849.75	-125.25	5,848.96	94.00	179.73	1.35	
14,980.00	89.32	179.99	8,965.26	-5,944.75	-125.02	5,943.96	95.00	179.86	0.29	
15,074.00	89.23	179.99	8,966.45	-6,038.74	-125.00	6,037.95	94.00	179.99	0.10	
15,169.00	91.08	179.90	8,966.20	-6,133.74	-124.91	6,132.94	95.00	179.95	1.95	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
15,264.00	91.69	179.73	8,963.90	-6,228.71	-124.61	6,227.91	95.00	179.82	0.67	
15,358.00	91.78	179.55	8,961.05	-6,322.66	-124.02	6,321.87	94.00	179.64	0.21	
15,453.00	92.79	179.81	8,957.27	-6,417.58	-123.49	6,416.79	95.00	179.68	1.10	
15,548.00	92.13	180.08	8,953.19	-6,512.50	-123.39	6,511.71	95.00	179.95	0.75	
15,642.00	92.88	180.08	8,949.08	-6,606.41	-123.53	6,605.61	94.00	180.08	0.80	
15,736.00	91.78	180.08	8,945.26	-6,700.33	-123.66	6,699.53	94.00	180.08	1.17	
15,831.00	90.33	179.99	8,943.51	-6,795.31	-123.71	6,794.51	95.00	180.03	1.53	
15,925.00	91.03	180.08	8,942.39	-6,889.30	-123.77	6,888.50	94.00	180.03	0.75	
16,020.00	90.02	180.34	8,941.52	-6,984.29	-124.12	6,983.49	95.00	180.21	1.10	
16,115.00	89.98	180.25	8,941.52	-7,079.29	-124.61	7,078.49	95.00	180.29	0.10	
16,209.00	91.12	180.52	8,940.62	-7,173.29	-125.24	7,172.47	94.00	180.38	1.25	
16,304.00	90.55	181.13	8,939.24	-7,268.26	-126.61	7,267.44	95.00	180.83	0.88	
16,399.00	90.42	181.22	8,938.43	-7,363.24	-128.56	7,362.41	95.00	181.18	0.17	
16,493.00	92.22	181.31	8,936.27	-7,457.19	-130.63	7,456.34	94.00	181.26	1.92	
16,588.00	92.26	179.90	8,932.55	-7,552.11	-131.63	7,551.26	95.00	180.61	1.48	
16,683.00	90.95	178.94	8,929.89	-7,647.06	-130.67	7,646.21	95.00	179.42	1.71	
16,777.00	90.11	179.11	8,929.02	-7,741.05	-129.07	7,740.20	94.00	179.03	0.91	
16,871.00	90.86	179.64	8,928.23	-7,835.04	-128.05	7,834.20	94.00	179.37	0.98	
16,967.00	90.37	179.55	8,927.20	-7,931.03	-127.37	7,930.19	96.00	179.59	0.52	
17,061.00	91.52	179.64	8,925.65	-8,025.01	-126.70	8,024.18	94.00	179.59	1.23	
17,156.00	90.24	179.29	8,924.19	-8,119.99	-125.82	8,119.16	95.00	179.46	1.40	
17,250.00	88.62	179.55	8,925.12	-8,213.98	-124.87	8,213.15	94.00	179.42	1.75	
17,345.00	89.32	179.73	8,926.83	-8,308.96	-124.27	8,308.14	95.00	179.64	0.76	
17,439.00	90.46	180.43	8,927.01	-8,402.96	-124.40	8,402.13	94.00	180.08	1.42	
17,534.00	89.45	180.61	8,927.09	-8,497.95	-125.26	8,497.12	95.00	180.52	1.08	
17,629.00	89.27	179.11	8,928.15	-8,592.95	-125.03	8,592.11	95.00	179.86	1.59	
17,723.00	90.64	179.38	8,928.22	-8,686.94	-123.79	8,686.11	94.00	179.25	1.49	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TYD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
17,817.00	90.02	179.02	8,927.68	-8,780.92	-122.48	8,780.10	94.00	179.20	0.76	
17,911.00	90.73	178.32	8,927.06	-8,874.90	-120.30	8,874.08	94.00	178.67	1.06	
18,006.00	91.38	177.35	8,925.31	-8,969.81	-116.71	8,969.02	95.00	177.84	1.23	
18,100.00	90.11	177.53	8,924.09	-9,063.71	-112.51	9,062.94	94.00	177.44	1.36	
18,195.00	89.01	177.79	8,924.82	-9,158.62	-108.63	9,157.87	95.00	177.66	1.19	
18,291.00	89.49	177.53	8,926.08	-9,254.53	-104.71	9,253.80	96.00	177.66	0.57	
18,386.00	89.45	176.91	8,926.96	-9,349.42	-100.11	9,348.71	95.00	177.22	0.65	
18,480.00	87.47	179.38	8,929.48	-9,443.32	-97.06	9,442.63	94.00	178.14	3.37	
18,575.00	87.25	178.14	8,933.86	-9,538.20	-95.01	9,537.52	95.00	178.76	1.32	
18,670.00	87.25	177.97	8,938.42	-9,633.03	-91.79	9,632.37	95.00	178.06	0.18	
18,764.00	87.52	178.06	8,942.71	-9,726.88	-88.54	9,726.23	94.00	178.02	0.30	
18,859.00	89.71	178.23	8,945.00	-9,821.80	-85.46	9,821.17	95.00	178.15	2.31	
18,953.00	91.16	179.29	8,944.29	-9,915.77	-83.43	9,915.15	94.00	178.76	1.91	
19,048.00	91.52	179.20	8,942.07	-10,010.73	-82.18	10,010.12	95.00	179.25	0.39	
19,142.00	91.82	179.99	8,939.33	-10,104.69	-81.51	10,104.08	94.00	179.59	0.90	
19,191.00	92.22	180.96	8,937.60	-10,153.66	-81.92	10,153.04	49.00	180.47	2.14	
19,262.00	92.22	180.96	8,934.85	-10,224.59	-83.11	10,223.97	71.00	180.96	0.00	
Final Station Closure Distance= 10224.93 /Direction= 180.47 - Projection to Bit: 19262.00' MD/ 8934.85' TVD - TD: Latitude = 32.311625 / Longitude = -103.731067 - TD: Y= 477624.14 / X= 727400.23										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
19,262.00	8,934.85	-10,224.59	-83.11	Final Station Closure Distance= 10224.93 /Direction= 180.47	
19,262.00	8,934.85	-10,224.59	-83.11	Projection to Bit: 19262.00' MD/ 8934.85' TVD	
19,262.00	8,934.85	-10,224.59	-83.11	TD: Latitude = 32.311625 / Longitude = -103.731067	
19,262.00	8,934.85	-10,224.59	-83.11	TD: Y= 477624.14 / X= 727400.23	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #514H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.70usft (Cactus 108)
Well:	#514H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Checked By: _____	Approved By: _____	Date: _____
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