

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



Notice of C-104 Denial and Request for Information

OCD denies your C-104 – *Request for Allowable and Authorization to Transport* because it is incomplete or conflicts with other information provided to OCD.

The sale or transport of product without a C-104 approved by OCD violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC.

To avoid an enforcement action, you must submit the indicated information no later than 30 days after receipt of this notice.

Test Allowable, New Well and Recompleted Well

*Amend C-104 **

(30-015-45439)

** Review & Confirm all
spaces, Sec 28, 29, 30.*

- ☐ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☒ Production Casing or Liner *PROD. PRESSURE TEST*
- ☐ Applicable Order (NSL, NSP, Other _____)
- ☐ Deviation Survey for Vertical Wells
- ☒ Directional Survey *← (Notarized Survey required)*
 - ☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

- ☒ C-103 Completion Sundry (or BLM equivalent) *approved BLM Copy*
- ☒ C-105 Completion Report (or BLM equivalent) *approved BLM Copy*
- ☐ All Logs Run on Well

If you have any questions please contact the local OCD District Office

RECEIVED

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 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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45439	² Pool Code 39350	³ Pool Name Livingston Ridge; Bonespring
⁴ Property Code 6137	⁵ Property Name TOMB RAIDER 1-12 FED	
⁶ GRID No. 6137	⁷ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁸ Well Number 525H
		⁹ Elevation 3475.8

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
2	1	23 S	31 E		360	NORTH	2335	EAST	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
O	12	23 S	31 E		216	SOUTH	1854	EAST	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.

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 SW CORNER SEC. 1 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		N89°43'53"E 2641.72 FT N/4 CORNER SEC. 1 LAT. = 32.3407180°N LONG. = 103.7315040°W NMSP EAST (FT) N = 488207.42 E = 727205.71 AS-DRILLED KOP 62° FNL, 1861' FEL LAT. = 32.3405464°N LONG. = 103.7289811°W NMSP EAST (FT) N = 488149.36 E = 727985.22 AS-DRILLED FIRST TAKE POINT 529° FNL, 1849' FEL LAT. = 32.3392609°N LONG. = 103.7289401°W NMSP EAST (FT) N = 487681.79 E = 728000.55 S/4 CORNER SEC. 1 LAT. = 32.3262026°N LONG. = 103.7314852°W NMSP EAST (FT) N = 482926.80 E = 727241.16 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE VERTICAL DATUM NAVD83. AS-DRILLED LAST TAKE POINT 348° FNL, 1852' FEL LAT. = 32.3126523°N LONG. = 103.7289515°W NMSP EAST (FT) N = 478001.67 E = 728051.62 AS-DRILLED BOTTOM OF HOLE LAT. = 32.3122898°N LONG. = 103.7289597°W NMSP EAST (FT) N = 477869.80 E = 728049.82		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 SE CORNER SEC. 1 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	
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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 into with the division.

Jenny Harms 9-11-2019
Signature Date

Jenny Harms
Printed Name
Jenny.harms@dmv.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.

AUGUST 22, 2019
Date of Survey

William F. Jaramila
Signature and Seal of Professional Surveyor:
Certificate Number: WILLIAM F. JARAMILA, 2797
SURVEY NO. 6213A

RECEIVED

SEP 12 2019

DISTRICT/ARTESIAO.C.D.

Intent ☐ As Drilled ☒

API #		
Operator Name: DEVON ENERGY PRODUCTION CO., L.P.	Property Name: TOMB RAIDER 1-12 FED	Well Number 525H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	1	23S	31E	2	62	NORTH	1861	EAST	EDDY
Latitude 32.3405464					Longitude 103.7289811			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	1	23S	31E	2	529	NORTH	1849	EAST	EDDY
Latitude 32.3392609					Longitude 103.7289401			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	12	23S	31E		348	SOUTH	1852	EAST	EDDY
Latitude 32.3126523					Longitude 103.7289515			NAD 83	

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

no

Is this well an infill well?

yes

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 **12/06/18** thru **12/31/18** conduct or supervise the taking of a **MWD Survey** from a depth of **175'** to a depth of **19194'**; 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 525H API No. 30-015-45439** 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

Notarized



Devon Energy

Eddy Co., NM (Nad83 - East Zone)

Tomb Raider 1-12 Fed

#525H

OH

Design: OH

End Of Well Report

02 January, 2019



RECEIVED

SEP 12 2019

DISTRICT/ARTESIA O.C.D.



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_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:	Northing:	487,848.73 usft	Latitude:	32.339728	
From: Map	Easting:	727,483.34 usft	Longitude:	-103.730612	
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.32 °

Well:	#525H					
Well Position	+N/-S	0.00 usft	Northing:	487,848.84 usft	Latitude:	32.339728
	+E/-W	0.00 usft	Easting:	727,513.29 usft	Longitude:	-103.730515
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,475.80 usft	

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/27/2018	6.88	60.12	47,840.76989005

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	179.67	

Survey Program	Date 1/2/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
175.00	19,194.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	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	
175.00	0.84	265.66	174.99	-0.10	-1.28	0.09	175.00	265.66	0.48	
267.00	0.97	272.87	266.98	-0.11	-2.73	0.09	92.00	269.52	0.19	
359.00	1.10	263.29	358.97	-0.17	-4.38	0.15	92.00	267.78	0.23	
452.00	0.97	272.08	451.95	-0.25	-6.06	0.21	93.00	267.41	0.22	
545.00	0.97	260.39	544.94	-0.35	-7.62	0.31	93.00	266.24	0.21	
637.00	0.57	252.39	636.93	-0.62	-8.82	0.57	92.00	257.43	0.45	
730.00	0.44	248.17	729.93	-0.89	-9.60	0.84	93.00	250.55	0.15	
760.00	0.48	245.36	759.93	-0.99	-9.82	0.93	30.00	246.70	0.15	
881.00	0.40	235.25	880.92	-1.44	-10.63	1.38	121.00	240.77	0.09	
974.00	0.44	227.34	973.92	-1.87	-11.15	1.80	93.00	231.11	0.08	
1,066.00	0.26	244.04	1,065.92	-2.20	-11.60	2.13	92.00	233.53	0.22	
1,158.00	0.48	83.20	1,157.92	-2.24	-11.41	2.18	92.00	103.20	0.79	
1,252.00	0.92	80.04	1,251.91	-2.07	-10.27	2.01	94.00	81.12	0.47	
1,345.00	0.70	82.23	1,344.90	-1.86	-8.97	1.81	93.00	80.99	0.24	
1,437.00	0.48	85.49	1,436.90	-1.75	-8.03	1.71	92.00	83.56	0.24	
1,529.00	0.44	73.62	1,528.89	-1.62	-7.31	1.58	92.00	79.81	0.11	
1,621.00	0.40	87.95	1,620.89	-1.51	-6.65	1.48	92.00	80.44	0.12	
1,714.00	0.26	72.21	1,713.89	-1.44	-6.13	1.40	93.00	81.76	0.18	
1,809.00	0.22	68.52	1,808.89	-1.30	-5.75	1.27	95.00	70.52	0.05	
1,903.00	0.18	47.34	1,902.89	-1.14	-5.47	1.11	94.00	59.00	0.09	
1,998.00	0.22	83.38	1,997.89	-1.02	-5.18	0.99	95.00	67.22	0.14	
2,093.00	0.04	28.62	2,092.89	-0.97	-4.99	0.94	95.00	75.73	0.21	
2,188.00	0.04	190.69	2,187.89	-0.97	-4.98	0.94	95.00	109.65	0.08	
2,282.00	0.04	220.31	2,281.89	-1.03	-5.00	1.00	94.00	205.50	0.02	
2,377.00	0.31	81.00	2,376.89	-1.01	-4.77	0.98	95.00	86.33	0.36	
2,471.00	0.53	64.22	2,470.88	-0.78	-4.13	0.76	94.00	70.40	0.27	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	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)	
2,566.00	1.10	92.43	2,565.87	-0.63	-2.82	0.61	95.00	83.35	0.72	
2,661.00	2.11	46.37	2,660.84	0.54	-0.64	-0.54	95.00	61.78	1.64	
2,755.00	2.95	44.97	2,754.75	3.44	2.32	-3.43	94.00	45.55	0.90	
2,850.00	3.87	51.91	2,849.58	7.15	6.57	-7.11	95.00	48.91	1.06	
2,945.00	5.14	58.06	2,944.28	11.38	12.70	-11.31	95.00	55.42	1.43	
3,040.00	6.29	57.71	3,038.81	16.41	20.71	-16.29	95.00	57.87	1.21	
3,134.00	6.59	58.77	3,132.22	21.96	29.68	-21.79	94.00	58.25	0.34	
3,229.00	5.93	58.24	3,226.65	27.37	38.51	-27.15	95.00	58.52	0.70	
3,324.00	5.49	55.60	3,321.18	32.52	46.44	-32.25	95.00	56.97	0.54	
3,418.00	6.15	54.20	3,414.69	38.00	54.23	-37.69	94.00	54.86	0.72	
3,513.00	6.73	53.85	3,509.09	44.26	62.85	-43.90	95.00	54.02	0.61	
3,608.00	6.68	57.10	3,603.44	50.55	71.99	-50.13	95.00	55.47	0.40	
3,702.00	6.20	59.38	3,696.85	56.10	80.94	-55.64	94.00	58.20	0.58	
3,797.00	6.02	62.46	3,791.31	61.02	89.78	-60.50	95.00	60.90	0.39	
3,892.00	5.49	62.37	3,885.83	65.43	98.22	-64.86	95.00	62.42	0.56	
3,986.00	5.63	60.79	3,979.39	69.77	106.23	-69.15	94.00	61.57	0.22	
4,081.00	6.73	60.44	4,073.84	74.79	115.14	-74.12	95.00	60.60	1.16	
4,176.00	6.90	60.61	4,168.16	80.33	124.95	-79.61	95.00	60.53	0.18	
4,271.00	6.42	64.48	4,262.52	85.42	134.72	-84.65	95.00	62.48	0.69	
4,365.00	5.71	61.76	4,356.00	89.90	143.58	-89.07	94.00	63.20	0.81	
4,459.00	6.33	60.70	4,449.48	94.65	152.22	-93.77	94.00	61.20	0.67	
4,554.00	6.15	57.80	4,543.92	99.92	161.09	-98.99	95.00	59.27	0.38	
4,649.00	6.20	58.15	4,638.36	105.34	169.75	-104.36	95.00	57.98	0.07	
4,737.00	6.64	58.59	4,725.81	110.50	178.13	-109.47	88.00	58.38	0.50	
4,832.00	6.29	57.98	4,820.21	116.12	187.23	-115.04	95.00	58.29	0.38	
4,927.00	5.80	59.38	4,914.68	121.33	195.78	-120.20	95.00	58.65	0.54	
5,021.00	5.85	55.69	5,008.19	126.45	203.82	-125.27	94.00	57.53	0.40	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	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)	
5,116.00	6.68	55.34	5,102.63	132.32	212.37	-131.09	95.00	55.50	0.87	
5,211.00	7.16	55.60	5,196.93	138.81	221.80	-137.53	95.00	55.47	0.51	
5,305.00	6.68	53.49	5,290.25	145.37	231.02	-144.03	94.00	54.58	0.58	
5,400.00	5.93	52.35	5,384.67	151.65	239.35	-150.27	95.00	52.95	0.80	
5,494.00	6.37	51.30	5,478.13	157.88	247.26	-156.45	94.00	51.81	0.48	
5,589.00	6.99	51.91	5,572.49	164.74	255.93	-163.26	95.00	51.62	0.66	
5,684.00	6.20	50.86	5,666.86	171.54	264.46	-170.02	95.00	51.42	0.84	
5,779.00	7.12	54.72	5,761.22	178.18	273.24	-176.61	95.00	52.92	1.08	
5,873.00	7.60	55.95	5,854.44	185.03	283.15	-183.39	94.00	55.35	0.54	
5,946.00	7.16	54.99	5,926.84	190.34	290.87	-188.66	73.00	55.48	0.63	
6,064.00	6.37	54.28	6,044.01	198.38	302.21	-196.64	118.00	54.66	0.67	
6,159.00	6.15	53.32	6,138.45	204.50	310.57	-202.71	95.00	53.81	0.26	
6,253.00	6.64	52.97	6,231.86	210.78	318.95	-208.94	94.00	53.14	0.52	
6,348.00	7.16	55.25	6,326.17	217.46	328.20	-215.57	95.00	54.15	0.62	
6,442.00	7.38	55.34	6,419.42	224.23	337.98	-222.28	94.00	55.30	0.23	
6,538.00	7.47	53.23	6,514.61	231.48	348.05	-229.47	96.00	54.28	0.30	
6,632.00	7.38	52.88	6,607.83	238.78	357.75	-236.71	94.00	53.06	0.11	
6,726.00	7.25	54.20	6,701.06	245.89	367.38	-243.77	94.00	53.53	0.23	
6,821.00	7.34	54.46	6,795.29	252.92	377.18	-250.75	95.00	54.33	0.10	
6,916.00	5.80	61.23	6,889.67	258.76	386.32	-256.53	95.00	57.45	1.81	
7,011.00	5.41	63.51	6,984.21	263.07	394.54	-260.79	95.00	62.33	0.47	
7,105.00	4.88	64.74	7,077.83	266.75	402.12	-264.43	94.00	64.09	0.58	
7,200.00	4.84	67.12	7,172.49	270.04	409.47	-267.67	95.00	65.93	0.22	
7,295.00	4.53	71.07	7,267.17	272.81	416.71	-270.41	95.00	69.03	0.47	
7,389.00	4.48	70.90	7,360.88	275.22	423.69	-272.77	94.00	70.99	0.06	
7,484.00	4.35	74.15	7,455.60	277.41	430.66	-274.93	95.00	72.50	0.30	
7,579.00	4.26	75.47	7,550.33	279.28	437.54	-276.76	95.00	74.80	0.14	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	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)
7,673.00	4.13	67.12	7,644.08	281.48	444.04	-278.91	94.00	71.36	0.66
7,768.00	3.65	55.08	7,738.87	284.54	449.67	-281.94	95.00	61.47	0.99
7,862.00	3.34	51.56	7,832.69	287.95	454.27	-285.33	94.00	53.40	0.40
7,957.00	2.90	49.89	7,927.55	291.22	458.28	-288.58	95.00	50.78	0.47
8,052.00	2.86	49.45	8,022.43	294.31	461.92	-291.64	95.00	49.67	0.05
8,147.00	1.76	46.73	8,117.35	296.85	464.78	-294.17	95.00	48.41	1.16
8,241.00	1.41	48.92	8,211.31	298.60	466.70	-295.91	94.00	47.70	0.38
8,336.00	1.19	61.32	8,306.29	299.84	468.45	-297.14	95.00	54.59	0.37
8,431.00	0.97	59.47	8,401.27	300.72	470.01	-298.01	95.00	60.49	0.23
8,526.00	0.97	43.03	8,496.26	301.72	471.25	-299.00	95.00	51.25	0.29
8,619.00	2.73	165.82	8,589.23	300.15	472.33	-297.42	93.00	145.51	3.61
8,682.00	12.75	178.83	8,651.58	291.72	472.84	-288.99	63.00	176.53	16.05
8,714.00	17.41	177.95	8,682.47	283.40	473.08	-280.67	32.00	178.32	14.58
8,809.00	25.19	175.13	8,770.91	249.00	475.31	-246.26	95.00	176.29	8.26
8,903.00	31.74	178.56	8,853.51	204.30	477.63	-201.54	94.00	177.03	7.18
8,997.00	39.03	178.30	8,930.09	149.92	479.13	-147.16	94.00	178.42	7.76
9,092.00	49.32	179.44	8,998.14	83.83	480.38	-81.06	95.00	178.92	10.86
9,187.00	60.75	176.19	9,052.50	6.18	483.49	-3.40	95.00	177.70	12.35
9,281.00	66.86	178.12	9,093.98	-78.02	487.64	80.82	94.00	177.18	6.76
9,376.00	72.62	182.17	9,126.87	-167.08	487.36	169.88	95.00	180.18	7.26
9,470.00	86.99	178.83	9,143.47	-259.33	486.61	262.13	94.00	180.46	15.68
9,528.00	89.58	177.95	9,145.21	-317.28	488.24	320.09	58.00	178.39	4.72
9,623.00	88.53	179.18	9,146.77	-412.23	490.62	415.05	95.00	178.56	1.70
9,718.00	88.97	179.53	9,148.85	-507.21	491.69	510.03	95.00	179.36	0.59
9,813.00	89.98	179.88	9,149.72	-602.20	492.18	605.02	95.00	179.71	1.13
9,907.00	88.48	180.41	9,150.98	-696.19	491.94	699.01	94.00	180.14	1.69
10,002.00	89.19	180.23	9,152.91	-791.16	491.41	793.98	95.00	180.32	0.77



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	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)
10,097.00	90.42	180.06	9,153.23	-886.16	491.17	888.98	95.00	180.14	1.31
10,192.00	89.23	180.41	9,153.52	-981.16	490.78	983.97	95.00	180.23	1.31
10,286.00	89.45	180.41	9,154.61	-1,075.15	490.11	1,077.96	94.00	180.41	0.23
10,379.00	88.26	179.88	9,156.47	-1,168.13	489.87	1,170.93	93.00	180.15	1.40
10,472.00	89.01	179.44	9,158.68	-1,261.10	490.42	1,263.90	93.00	179.66	0.93
10,564.00	91.03	178.91	9,158.65	-1,353.09	491.75	1,355.90	92.00	179.18	2.27
10,656.00	89.80	178.91	9,157.98	-1,445.07	493.50	1,447.88	92.00	178.91	1.34
10,748.00	89.32	179.97	9,158.69	-1,537.06	494.40	1,539.88	92.00	179.44	1.26
10,841.00	87.47	180.41	9,161.29	-1,630.02	494.09	1,632.83	93.00	180.19	2.04
10,933.00	87.82	180.41	9,165.07	-1,721.94	493.43	1,724.75	92.00	180.41	0.38
11,025.00	89.01	180.50	9,167.62	-1,813.90	492.70	1,816.70	92.00	180.46	1.30
11,118.00	90.29	180.06	9,168.19	-1,906.89	492.25	1,909.69	93.00	180.28	1.46
11,212.00	89.10	179.27	9,168.69	-2,000.88	492.80	2,003.69	94.00	179.67	1.52
11,304.00	90.59	179.44	9,168.94	-2,092.88	493.83	2,095.69	92.00	179.36	1.63
11,397.00	89.89	179.88	9,168.55	-2,185.87	494.39	2,188.68	93.00	179.66	0.89
11,489.00	90.55	179.79	9,168.19	-2,277.87	494.65	2,280.68	92.00	179.84	0.72
11,581.00	88.88	179.97	9,168.65	-2,369.87	494.84	2,372.68	92.00	179.88	1.83
11,674.00	88.31	179.70	9,170.93	-2,462.84	495.11	2,465.65	93.00	179.84	0.68
11,769.00	88.18	179.27	9,173.84	-2,557.79	495.96	2,560.60	95.00	179.49	0.47
11,863.00	89.23	179.27	9,175.96	-2,651.76	497.16	2,654.58	94.00	179.27	1.12
11,958.00	90.29	179.53	9,176.36	-2,746.75	498.16	2,749.57	95.00	179.40	1.15
12,052.00	88.84	179.97	9,177.08	-2,840.74	498.57	2,843.57	94.00	179.75	1.61
12,147.00	88.79	180.32	9,179.04	-2,935.72	498.33	2,938.54	95.00	180.14	0.37
12,242.00	89.67	180.32	9,180.32	-3,030.71	497.80	3,033.53	95.00	180.32	0.93
12,336.00	90.95	180.76	9,179.81	-3,124.70	496.91	3,127.51	94.00	180.54	1.44
12,430.00	90.02	180.32	9,179.01	-3,218.69	496.02	3,221.50	94.00	180.54	1.09
12,525.00	90.81	181.02	9,178.33	-3,313.68	494.91	3,316.48	95.00	180.67	1.11



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	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)
12,620.00	90.15	179.18	9,177.53	-3,408.68	494.75	3,411.47	95.00	180.10	2.06
12,714.00	91.21	179.35	9,176.41	-3,502.66	495.95	3,505.46	94.00	179.26	1.14
12,809.00	90.02	179.00	9,175.39	-3,597.64	497.32	3,600.45	95.00	179.17	1.31
12,903.00	89.32	178.65	9,175.94	-3,691.62	499.25	3,694.43	94.00	178.83	0.83
12,998.00	89.76	179.18	9,176.70	-3,786.60	501.05	3,789.42	95.00	178.92	0.73
13,092.00	90.86	179.62	9,176.19	-3,880.59	502.03	3,883.42	94.00	179.40	1.26
13,187.00	89.45	180.23	9,175.93	-3,975.59	502.16	3,978.41	95.00	179.93	1.62
13,281.00	90.51	180.06	9,175.97	-4,069.59	501.92	4,072.41	94.00	180.14	1.14
13,376.00	88.22	179.27	9,177.02	-4,164.57	502.47	4,167.40	95.00	179.67	2.55
13,470.00	89.63	179.53	9,178.78	-4,258.55	503.46	4,261.38	94.00	179.40	1.53
13,565.00	90.99	179.62	9,178.27	-4,353.54	504.16	4,356.37	95.00	179.57	1.43
13,660.00	91.21	181.02	9,176.44	-4,448.52	503.63	4,451.35	95.00	180.32	1.49
13,754.00	91.30	179.88	9,174.39	-4,542.49	502.89	4,545.31	94.00	180.45	1.22
13,849.00	90.51	179.44	9,172.88	-4,637.48	503.46	4,640.30	95.00	179.66	0.95
13,947.00	87.74	180.85	9,174.38	-4,735.46	503.21	4,738.28	98.00	180.14	3.17
14,041.00	88.13	179.88	9,177.77	-4,829.39	502.61	4,832.21	94.00	180.36	1.11
14,135.00	88.62	179.62	9,180.43	-4,923.35	503.02	4,926.17	94.00	179.75	0.59
14,230.00	89.14	179.35	9,182.29	-5,018.33	503.87	5,021.15	95.00	179.48	0.62
14,324.00	90.02	179.35	9,182.98	-5,112.32	504.94	5,115.14	94.00	179.35	0.94
14,418.00	90.46	178.91	9,182.59	-5,206.31	506.37	5,209.14	94.00	179.13	0.66
14,513.00	91.25	179.09	9,181.17	-5,301.28	508.03	5,304.12	95.00	179.00	0.85
14,608.00	89.80	179.18	9,180.30	-5,396.26	509.46	5,399.11	95.00	179.14	1.53
14,702.00	89.93	178.74	9,180.52	-5,490.25	511.17	5,493.10	94.00	178.96	0.49
14,797.00	90.90	178.74	9,179.83	-5,585.22	513.26	5,588.09	95.00	178.74	1.02
14,892.00	90.81	178.56	9,178.41	-5,680.19	515.49	5,683.06	95.00	178.65	0.21
14,986.00	90.59	178.56	9,177.27	-5,774.15	517.86	5,777.04	94.00	178.56	0.23
15,081.00	89.76	179.62	9,176.98	-5,869.13	519.36	5,872.03	95.00	179.09	1.42



Wellbenders
End Of Well Report



Company: Devon Energy
Project: Eddy Co., NM (Nad83 - East Zone)
Site: Tomb Raider 1-12 Fed
Well: #525H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #525H
TVD Reference: RKB=30' @ 3505.80usft (Cactus 108)
MD Reference: RKB=30' @ 3505.80usft (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
15,175.00	90.15	179.88	9,177.05	-5,963.13	519.77	5,966.03	94.00	179.75	0.50	
15,270.00	90.95	179.53	9,176.14	-6,058.13	520.26	6,061.02	95.00	179.71	0.92	
15,365.00	89.67	180.41	9,175.62	-6,153.12	520.31	6,156.02	95.00	179.97	1.64	
15,459.00	89.80	180.58	9,176.06	-6,247.12	519.50	6,250.01	94.00	180.50	0.23	
15,554.00	90.15	180.32	9,176.10	-6,342.11	518.75	6,345.00	95.00	180.45	0.46	
15,648.00	90.64	180.14	9,175.45	-6,436.11	518.38	6,438.99	94.00	180.23	0.56	
15,743.00	89.23	180.76	9,175.56	-6,531.10	517.63	6,533.98	95.00	180.45	1.62	
15,837.00	89.14	180.58	9,176.90	-6,625.09	516.53	6,627.95	94.00	180.67	0.21	
15,932.00	87.60	179.79	9,179.60	-6,720.05	516.23	6,722.91	95.00	180.19	1.82	
16,026.00	87.56	179.27	9,183.57	-6,813.96	517.00	6,816.82	94.00	179.53	0.55	
16,121.00	87.78	179.00	9,187.43	-6,908.87	518.43	6,911.74	95.00	179.13	0.37	
16,216.00	88.79	180.14	9,190.27	-7,003.82	519.14	7,006.70	95.00	179.57	1.60	
16,310.00	90.86	179.09	9,190.56	-7,097.81	519.77	7,100.69	94.00	179.61	2.47	
16,405.00	91.74	178.47	9,188.40	-7,192.77	521.79	7,195.65	95.00	178.78	1.13	
16,500.00	90.99	178.21	9,186.14	-7,287.70	524.55	7,290.60	95.00	178.34	0.84	
16,594.00	90.20	179.53	9,185.17	-7,381.67	526.40	7,384.58	94.00	178.87	1.64	
16,689.00	90.37	179.44	9,184.69	-7,476.67	527.25	7,479.58	95.00	179.49	0.20	
16,783.00	91.03	179.18	9,183.54	-7,570.65	528.39	7,573.57	94.00	179.31	0.75	
16,878.00	90.64	180.23	9,182.16	-7,665.64	528.87	7,668.56	95.00	179.71	1.18	
16,973.00	90.95	181.02	9,180.84	-7,760.62	527.84	7,763.53	95.00	180.62	0.89	
17,067.00	89.19	180.50	9,180.73	-7,854.61	526.59	7,857.51	94.00	180.76	1.95	
17,162.00	89.71	179.79	9,181.64	-7,949.61	526.35	7,952.51	95.00	180.14	0.93	
17,256.00	90.20	179.70	9,181.71	-8,043.60	526.77	8,046.50	94.00	179.74	0.53	
17,351.00	90.55	179.35	9,181.09	-8,138.60	527.56	8,141.50	95.00	179.53	0.52	
17,445.00	90.90	179.35	9,179.90	-8,232.58	528.62	8,235.49	94.00	179.35	0.37	
17,540.00	89.10	179.97	9,179.90	-8,327.58	529.19	8,330.49	95.00	179.66	2.00	
17,635.00	89.01	179.70	9,181.47	-8,422.57	529.46	8,425.48	95.00	179.84	0.30	



Wellbenders End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	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)	
17,729.00	89.41	179.18	9,182.76	-8,516.55	530.38	8,519.46	94.00	179.44	0.70	
17,823.00	89.41	179.18	9,183.73	-8,610.54	531.72	8,613.46	94.00	179.18	0.00	
17,917.00	89.80	178.83	9,184.38	-8,704.52	533.36	8,707.45	94.00	179.00	0.56	
18,012.00	90.33	178.65	9,184.27	-8,799.50	535.45	8,802.43	95.00	178.74	0.59	
18,107.00	90.77	177.95	9,183.36	-8,894.45	538.26	8,897.40	95.00	178.30	0.87	
18,201.00	89.93	179.62	9,182.79	-8,988.42	540.26	8,991.39	94.00	178.79	1.99	
18,296.00	90.37	179.88	9,182.54	-9,083.42	540.67	9,086.38	95.00	179.75	0.54	
18,391.00	91.08	178.74	9,181.34	-9,178.40	541.81	9,181.37	95.00	179.31	1.41	
18,486.00	89.93	180.14	9,180.50	-9,273.39	542.74	9,276.36	95.00	179.44	1.91	
18,581.00	89.67	180.50	9,180.83	-9,368.39	542.21	9,371.36	95.00	180.32	0.47	
18,676.00	89.98	180.32	9,181.12	-9,463.39	541.53	9,466.35	95.00	180.41	0.38	
18,770.00	90.20	180.14	9,180.97	-9,557.39	541.16	9,560.34	94.00	180.23	0.30	
18,865.00	91.65	180.06	9,179.44	-9,652.37	540.99	9,655.33	95.00	180.10	1.53	
18,959.00	90.73	181.02	9,177.49	-9,746.34	540.10	9,749.29	94.00	180.54	1.41	
19,054.00	91.16	180.85	9,175.92	-9,841.32	538.55	9,844.26	95.00	180.94	0.49	
19,130.00	92.35	180.76	9,173.59	-9,917.27	537.49	9,920.21	76.00	180.81	1.57	
19,194.00	92.35	180.76	9,170.97	-9,981.21	536.64	9,984.14	64.00	180.76	0.00	
Final Station Closure Distance= 9995.63 /Direction= 176.92 - Projection to Bit: 19194.00' MD/ 9170.97' TVD - TD: Latitude = 32.312284 / Longitude = -103.728959 - TD: Y= 477867.63 / X= 728049.93										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
19,194.00	9,170.97	-9,981.21	536.64	Final Station Closure Distance= 9995.63 /Direction= 176.92	
19,194.00	9,170.97	-9,981.21	536.64	Projection to Bit: 19194.00' MD/ 9170.97' TVD	
19,194.00	9,170.97	-9,981.21	536.64	TD: Latitude = 32.312284 / Longitude = -103.728959	
19,194.00	9,170.97	-9,981.21	536.64	TD: Y= 477867.63 / X= 728049.93	



Wellbenders
End Of Well Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well #525H
Project:	Eddy Co., NM (Nad83 - East Zone)	TVD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Site:	Tomb Raider 1-12 Fed	MD Reference:	RKB=30' @ 3505.80usft (Cactus 108)
Well:	#525H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Checked By: _____ Approved By: _____ Date: _____