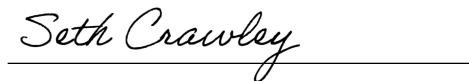


STATE OF NEW MEXICO
COUNTY OF EDDY

I, **Seth Crawley**, certify that; I am employed by **Skyline Directional Drilling, LLC**; that I did on the day(s) of **4/8/2020 to 4/26/2020** conduct or supervise the taking of MWD surveys from a depth of **264 feet to a depth of 16,720 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Skyline Directional Drilling, LLC**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy Production Co.** for the **Uraninite 32-33 State Fed Com 334H**, with the **API # 30-015-46819** in the **Winchester** field and **Bone Spring** pool of **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 **Skyline Directional Drilling, LLC**.

A handwritten signature in cursive script that reads 'Seth Crawley'. The signature is written in black ink and is positioned above a solid horizontal line.

Seth Crawley
Senior Well Planner



Devon Energy Production Company, L.P.

**Eddy Co, New Mexico (NAD-83)
Sec 32-19S-29E (Uraninite)
Uraninite 32-33 State Fed Com 334H**

Wellbore #1

Design: As Drilled

Standard Survey Report

15 June, 2020



Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

Project	Eddy Co, New Mexico (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 32-19S-29E (Uraninite)		
Site Position:		Northing:	591,034.23 usft
From:	Map	Easting:	611,459.43 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 37' 28.548 N
		Longitude:	104° 6' 20.043 W

Well	Uraninite 32-33 State Fed Com 334H		
Well Position	+N/-S	0.0 usft	Northing: 586,932.60 usft
	+E/-W	0.0 usft	Easting: 611,662.98 usft
Position Uncertainty	0.5 usft	Wellhead Elevation:	3,290.5 usft
Grid Convergence:	0.12 °	Ground Level:	3,290.5 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/4/2020	6.93	60.30	47,824.37324766

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	90.00	

Survey Program	Date	6/15/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
264.0	16,720.0	Survey #1 (Wellbore #1)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
264.0	2.11	261.69	263.9	-0.7	-4.8	-4.8	0.80	0.80	0.00	
First Survey										
359.0	2.46	259.14	358.9	-1.3	-8.5	-8.5	0.38	0.37	-2.68	
453.0	2.37	259.32	452.8	-2.1	-12.4	-12.4	0.10	-0.10	0.19	
548.0	1.98	265.65	547.7	-2.6	-16.0	-16.0	0.48	-0.41	6.66	
643.0	1.58	272.33	642.7	-2.6	-18.9	-18.9	0.47	-0.42	7.03	
738.0	1.10	272.68	737.6	-2.5	-21.2	-21.2	0.51	-0.51	0.37	
832.0	0.75	274.88	831.6	-2.4	-22.7	-22.7	0.37	-0.37	2.34	
927.0	0.66	286.65	926.6	-2.2	-23.8	-23.8	0.18	-0.09	12.39	

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

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)
1,022.0	0.62	309.07	1,021.6	-1.8	-24.7	-24.7	0.27	-0.04	23.60
1,116.0	0.79	319.70	1,115.6	-0.9	-25.6	-25.6	0.23	0.18	11.31
1,211.0	0.75	327.70	1,210.6	0.1	-26.3	-26.3	0.12	-0.04	8.42
1,267.0	0.84	333.24	1,266.6	0.8	-26.7	-26.7	0.21	0.16	9.89
1,456.0	0.91	347.34	1,455.6	3.5	-27.6	-27.6	0.12	0.04	7.46
1,552.0	0.79	330.66	1,551.6	4.8	-28.1	-28.1	0.29	-0.13	-17.38
1,647.0	0.83	355.87	1,646.6	6.0	-28.5	-28.5	0.37	0.04	26.54
1,743.0	0.73	331.42	1,742.5	7.3	-28.9	-28.9	0.36	-0.10	-25.47
1,838.0	0.72	339.33	1,837.5	8.4	-29.4	-29.4	0.11	-0.01	8.33
1,933.0	0.72	349.36	1,932.5	9.5	-29.7	-29.7	0.13	0.00	10.56
2,029.0	0.65	347.63	2,028.5	10.6	-29.9	-29.9	0.08	-0.07	-1.80
2,124.0	0.41	345.62	2,123.5	11.5	-30.1	-30.1	0.25	-0.25	-2.12
2,220.0	0.38	344.89	2,219.5	12.1	-30.3	-30.3	0.03	-0.03	-0.76
2,315.0	0.51	39.47	2,314.5	12.8	-30.1	-30.1	0.45	0.14	57.45
2,410.0	0.41	21.69	2,409.5	13.4	-29.7	-29.7	0.18	-0.11	-18.72
2,506.0	0.30	77.35	2,505.5	13.8	-29.3	-29.3	0.36	-0.11	57.98
2,601.0	0.38	57.79	2,600.5	14.0	-28.8	-28.8	0.15	0.08	-20.59
2,697.0	0.28	332.58	2,696.5	14.4	-28.6	-28.6	0.47	-0.10	-88.76
2,792.0	0.44	63.12	2,791.5	14.7	-28.4	-28.4	0.55	0.17	95.31
2,887.0	0.40	96.37	2,886.5	14.9	-27.8	-27.8	0.26	-0.04	35.00
2,983.0	0.23	26.05	2,982.5	15.0	-27.4	-27.4	0.40	-0.18	-73.25
3,078.0	0.13	24.96	3,077.5	15.3	-27.2	-27.2	0.11	-0.11	-1.15
3,272.0	1.50	18.54	3,271.5	17.9	-26.3	-26.3	0.71	0.71	-3.31
3,367.0	3.54	10.29	3,366.4	21.9	-25.4	-25.4	2.18	2.15	-8.68
3,462.0	3.91	1.53	3,461.2	28.1	-24.8	-24.8	0.71	0.39	-9.22
3,558.0	3.46	357.61	3,557.0	34.2	-24.8	-24.8	0.54	-0.47	-4.08
3,653.0	3.21	347.33	3,651.8	39.7	-25.5	-25.5	0.68	-0.26	-10.82
3,748.0	3.65	356.08	3,746.7	45.3	-26.3	-26.3	0.72	0.46	9.21
3,843.0	4.11	356.09	3,841.4	51.7	-26.8	-26.8	0.48	0.48	0.01
3,939.0	4.62	1.33	3,937.2	59.0	-26.9	-26.9	0.67	0.53	5.46
4,034.0	5.72	6.36	4,031.8	67.5	-26.3	-26.3	1.25	1.16	5.29
4,130.0	6.99	6.20	4,127.2	78.1	-25.1	-25.1	1.32	1.32	-0.17
4,225.0	7.69	5.40	4,221.4	90.2	-23.9	-23.9	0.74	0.74	-0.84
4,321.0	9.38	358.21	4,316.3	104.4	-23.6	-23.6	2.08	1.76	-7.49
4,416.0	10.15	355.17	4,410.0	120.5	-24.5	-24.5	0.98	0.81	-3.20
4,511.0	9.69	355.99	4,503.5	136.8	-25.8	-25.8	0.51	-0.48	0.86
4,606.0	9.63	356.45	4,597.2	152.7	-26.8	-26.8	0.10	-0.06	0.48
4,701.0	10.60	354.84	4,690.7	169.3	-28.1	-28.1	1.06	1.02	-1.69
4,796.0	11.04	351.92	4,784.0	187.0	-30.2	-30.2	0.74	0.46	-3.07
4,891.0	10.77	348.30	4,877.3	204.7	-33.2	-33.2	0.77	-0.28	-3.81
4,987.0	9.68	342.75	4,971.8	221.2	-37.4	-37.4	1.53	-1.14	-5.78
5,082.0	10.22	345.94	5,065.4	237.0	-41.9	-41.9	0.81	0.57	3.36
5,178.0	10.48	344.15	5,159.8	253.7	-46.3	-46.3	0.43	0.27	-1.86

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

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)
5,273.0	11.45	353.01	5,253.1	271.4	-49.8	-49.8	2.04	1.02	9.33
5,368.0	12.05	354.92	5,346.1	290.6	-51.8	-51.8	0.75	0.63	2.01
5,464.0	11.60	354.96	5,440.0	310.2	-53.6	-53.6	0.47	-0.47	0.04
5,558.0	11.09	354.55	5,532.2	328.6	-55.3	-55.3	0.55	-0.54	-0.44
5,653.0	12.02	352.40	5,625.3	347.5	-57.4	-57.4	1.08	0.98	-2.26
5,749.0	12.06	352.28	5,719.2	367.4	-60.1	-60.1	0.05	0.04	-0.13
5,844.0	11.30	350.08	5,812.2	386.4	-63.1	-63.1	0.93	-0.80	-2.32
5,939.0	10.53	344.89	5,905.5	403.9	-66.9	-66.9	1.31	-0.81	-5.46
6,035.0	10.28	348.39	5,999.9	420.8	-70.9	-70.9	0.71	-0.26	3.65
6,130.0	10.67	351.32	6,093.3	437.8	-74.0	-74.0	0.69	0.41	3.08
6,226.0	11.89	352.74	6,187.5	456.4	-76.6	-76.6	1.30	1.27	1.48
6,321.0	10.84	348.74	6,280.6	474.8	-79.5	-79.5	1.38	-1.11	-4.21
6,417.0	12.01	352.25	6,374.7	493.6	-82.6	-82.6	1.42	1.22	3.66
6,512.0	13.67	353.80	6,467.3	514.5	-85.2	-85.2	1.78	1.75	1.63
6,607.0	13.52	353.71	6,559.7	536.7	-87.6	-87.6	0.16	-0.16	-0.09
6,703.0	11.59	354.47	6,653.4	557.5	-89.8	-89.8	2.02	-2.01	0.79
6,799.0	10.67	352.77	6,747.5	575.9	-91.8	-91.8	1.02	-0.96	-1.77
6,894.0	9.89	352.18	6,841.0	592.7	-94.0	-94.0	0.83	-0.82	-0.62
6,990.0	10.21	352.23	6,935.6	609.3	-96.3	-96.3	0.33	0.33	0.05
7,086.0	9.52	350.45	7,030.1	625.6	-98.8	-98.8	0.79	-0.72	-1.85
7,181.0	8.69	346.11	7,123.9	640.3	-101.8	-101.8	1.13	-0.87	-4.57
7,277.0	9.38	350.38	7,218.7	655.0	-104.9	-104.9	1.00	0.72	4.45
7,372.0	10.41	349.44	7,312.3	671.1	-107.7	-107.7	1.10	1.08	-0.99
7,467.0	11.81	355.70	7,405.5	689.3	-110.0	-110.0	1.94	1.47	6.59
7,563.0	13.81	355.09	7,499.2	710.5	-111.7	-111.7	2.09	2.08	-0.64
7,659.0	10.93	351.10	7,592.9	730.9	-114.1	-114.1	3.13	-3.00	-4.16
7,754.0	11.14	348.44	7,686.2	748.8	-117.4	-117.4	0.58	0.22	-2.80
7,850.0	12.88	353.45	7,780.1	768.5	-120.4	-120.4	2.11	1.81	5.22
7,945.0	12.33	357.81	7,872.8	789.1	-122.0	-122.0	1.16	-0.58	4.59
8,041.0	10.01	355.96	7,966.9	807.7	-123.0	-123.0	2.45	-2.42	-1.93
8,136.0	10.88	0.32	8,060.4	824.9	-123.6	-123.6	1.24	0.92	4.59
8,232.0	12.16	357.51	8,154.4	844.1	-123.9	-123.9	1.46	1.33	-2.93
8,328.0	10.03	354.88	8,248.6	862.5	-125.1	-125.1	2.28	-2.22	-2.74
8,423.0	8.95	354.36	8,342.3	878.1	-126.6	-126.6	1.14	-1.14	-0.55
8,506.0	10.62	350.94	8,424.1	892.1	-128.4	-128.4	2.13	2.01	-4.12
8,561.0	11.95	351.03	8,478.1	902.7	-130.1	-130.1	2.42	2.42	0.16
8,655.0	20.40	357.81	8,568.3	928.7	-132.3	-132.3	9.20	8.99	7.21
KOP: (8655' MD) 71' FWL/2104' FSL									
8,751.0	32.09	11.77	8,654.3	970.6	-127.7	-127.7	13.70	12.18	14.54
8,846.0	40.92	32.60	8,730.9	1,021.8	-105.6	-105.6	15.91	9.29	21.93
8,942.0	44.95	52.78	8,801.5	1,069.1	-61.5	-61.5	14.87	4.20	21.02
9,037.0	52.75	69.76	8,864.2	1,102.6	1.1	1.1	15.72	8.21	17.87
9,132.0	61.50	84.69	8,915.9	1,119.7	78.6	78.6	16.06	9.21	15.72
9,228.0	65.46	96.92	8,958.9	1,118.3	164.2	164.2	12.11	4.13	12.74

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

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)
9,323.0	71.41	98.24	8,993.8	1,106.6	251.8	251.8	6.39	6.26	1.39
9,404.8	83.91	100.11	9,011.3	1,093.9	330.5	330.5	15.45	15.29	2.29
LP - Uraninite 334H									
9,419.0	86.09	100.42	9,012.5	1,091.4	344.4	344.4	15.45	15.30	2.19
FTP:(9419' MD) 549' FWL/2268' FSL									
9,514.0	94.09	101.58	9,012.4	1,073.3	437.6	437.6	8.51	8.42	1.22
9,610.0	93.56	99.59	9,006.0	1,055.7	531.7	531.7	2.14	-0.55	-2.07
9,705.0	92.73	96.85	9,000.7	1,042.1	625.6	625.6	3.01	-0.87	-2.88
9,801.0	89.47	92.74	8,998.9	1,034.1	721.2	721.2	5.46	-3.40	-4.28
9,896.0	90.30	93.10	8,999.1	1,029.3	816.1	816.1	0.95	0.87	0.38
9,992.0	86.67	92.30	9,001.6	1,024.7	911.9	911.9	3.87	-3.78	-0.83
10,087.0	86.49	91.78	9,007.3	1,021.4	1,006.7	1,006.7	0.58	-0.19	-0.55
10,182.0	87.15	90.96	9,012.6	1,019.1	1,101.5	1,101.5	1.11	0.69	-0.86
10,277.0	88.85	90.75	9,015.9	1,017.7	1,196.5	1,196.5	1.80	1.79	-0.22
10,373.0	87.73	91.41	9,018.7	1,015.9	1,292.4	1,292.4	1.35	-1.17	0.69
10,468.0	87.24	91.06	9,022.9	1,013.8	1,387.3	1,387.3	0.63	-0.52	-0.37
10,564.0	88.18	90.45	9,026.7	1,012.6	1,483.2	1,483.2	1.17	0.98	-0.64
10,659.0	88.17	89.28	9,029.8	1,012.8	1,578.1	1,578.1	1.23	-0.01	-1.23
10,754.0	87.57	88.42	9,033.3	1,014.7	1,673.1	1,673.1	1.10	-0.63	-0.91
10,850.0	89.95	88.28	9,035.4	1,017.4	1,769.0	1,769.0	2.48	2.48	-0.15
10,945.0	88.63	90.05	9,036.6	1,018.8	1,864.0	1,864.0	2.32	-1.39	1.86
11,041.0	89.70	90.34	9,038.0	1,018.5	1,960.0	1,960.0	1.15	1.11	0.30
11,136.0	87.12	90.82	9,040.6	1,017.5	2,054.9	2,054.9	2.76	-2.72	0.51
11,232.0	86.69	90.51	9,045.8	1,016.4	2,150.8	2,150.8	0.55	-0.45	-0.32
11,327.0	86.88	90.21	9,051.1	1,015.8	2,245.6	2,245.6	0.37	0.20	-0.32
11,422.0	88.17	86.93	9,055.2	1,018.2	2,340.5	2,340.5	3.71	1.36	-3.45
11,517.0	88.34	86.25	9,058.1	1,023.9	2,435.3	2,435.3	0.74	0.18	-0.72
11,613.0	89.17	85.63	9,060.2	1,030.7	2,531.0	2,531.0	1.08	0.86	-0.65
11,708.0	89.57	85.40	9,061.2	1,038.1	2,625.7	2,625.7	0.49	0.42	-0.24
11,803.0	88.15	86.50	9,063.1	1,044.8	2,720.4	2,720.4	1.89	-1.49	1.16
11,899.0	88.17	85.80	9,066.2	1,051.2	2,816.2	2,816.2	0.73	0.02	-0.73
11,995.0	89.35	85.81	9,068.3	1,058.2	2,911.9	2,911.9	1.23	1.23	0.01
12,090.0	90.03	88.57	9,068.8	1,062.9	3,006.8	3,006.8	2.99	0.72	2.91
12,186.0	91.37	88.01	9,067.6	1,065.8	3,102.7	3,102.7	1.51	1.40	-0.58
12,280.0	90.79	89.21	9,065.8	1,068.1	3,196.7	3,196.7	1.42	-0.62	1.28
12,375.0	90.84	88.59	9,064.5	1,069.9	3,291.6	3,291.6	0.65	0.05	-0.65
12,471.0	89.00	88.65	9,064.6	1,072.2	3,387.6	3,387.6	1.92	-1.92	0.06
12,567.0	89.04	88.55	9,066.3	1,074.5	3,483.6	3,483.6	0.11	0.04	-0.10
12,662.0	88.35	88.76	9,068.4	1,076.8	3,578.5	3,578.5	0.76	-0.73	0.22
12,758.0	88.34	88.46	9,071.2	1,079.1	3,674.4	3,674.4	0.31	-0.01	-0.31
12,853.0	88.82	88.49	9,073.6	1,081.6	3,769.4	3,769.4	0.51	0.51	0.03
12,948.0	88.67	90.30	9,075.6	1,082.6	3,864.3	3,864.3	1.91	-0.16	1.91
13,044.0	88.53	92.05	9,078.0	1,080.7	3,960.3	3,960.3	1.83	-0.15	1.82

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

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)	
13,139.0	88.93	92.68	9,080.1	1,076.7	4,055.2	4,055.2	0.79	0.42	0.66	
13,235.0	86.92	93.40	9,083.6	1,071.6	4,151.0	4,151.0	2.22	-2.09	0.75	
13,330.0	86.76	92.46	9,088.8	1,066.8	4,245.7	4,245.7	1.00	-0.17	-0.99	
13,425.0	86.55	91.91	9,094.4	1,063.2	4,340.5	4,340.5	0.62	-0.22	-0.58	
13,520.0	86.92	91.93	9,099.8	1,060.0	4,435.3	4,435.3	0.39	0.39	0.02	
13,615.0	89.17	91.86	9,103.0	1,056.9	4,530.2	4,530.2	2.37	2.37	-0.07	
13,710.0	92.49	91.25	9,101.6	1,054.3	4,625.1	4,625.1	3.55	3.49	-0.64	
13,806.0	94.29	91.04	9,096.0	1,052.4	4,720.9	4,720.9	1.89	1.88	-0.22	
13,902.0	93.58	91.87	9,089.4	1,049.9	4,816.7	4,816.7	1.14	-0.74	0.86	
13,997.0	91.79	92.39	9,084.9	1,046.4	4,911.5	4,911.5	1.96	-1.88	0.55	
14,093.0	89.37	91.64	9,083.9	1,043.0	5,007.4	5,007.4	2.64	-2.52	-0.78	
14,165.2	89.52	91.38	9,084.6	1,041.1	5,079.6	5,079.6	0.42	0.21	-0.36	
Cross Section 32-33; (14165' MD) 2224' FSL										
14,189.0	89.57	91.29	9,084.8	1,040.6	5,103.4	5,103.4	0.42	0.21	-0.36	
14,284.0	88.71	90.78	9,086.3	1,038.9	5,198.3	5,198.3	1.05	-0.91	-0.54	
14,380.0	87.04	90.54	9,089.8	1,037.8	5,294.3	5,294.3	1.76	-1.74	-0.25	
14,475.0	87.12	90.61	9,094.7	1,036.8	5,389.1	5,389.1	0.11	0.08	0.07	
14,570.0	88.56	90.05	9,098.2	1,036.3	5,484.1	5,484.1	1.63	1.52	-0.59	
14,665.0	90.13	89.60	9,099.3	1,036.6	5,579.1	5,579.1	1.72	1.65	-0.47	
14,760.0	90.92	89.59	9,098.4	1,037.2	5,674.1	5,674.1	0.83	0.83	-0.01	
14,856.0	91.10	89.67	9,096.8	1,037.8	5,770.0	5,770.0	0.21	0.19	0.08	
14,952.0	90.62	90.37	9,095.3	1,037.8	5,866.0	5,866.0	0.88	-0.50	0.73	
15,047.0	90.88	90.76	9,094.1	1,036.9	5,961.0	5,961.0	0.49	0.27	0.41	
15,142.0	91.31	90.76	9,092.3	1,035.6	6,056.0	6,056.0	0.45	0.45	0.00	
15,237.0	91.82	90.73	9,089.7	1,034.4	6,150.9	6,150.9	0.54	0.54	-0.03	
15,333.0	90.90	90.90	9,087.4	1,033.0	6,246.9	6,246.9	0.97	-0.96	0.18	
15,428.0	90.72	90.75	9,086.0	1,031.6	6,341.9	6,341.9	0.25	-0.19	-0.16	
15,524.0	89.35	91.53	9,086.0	1,029.7	6,437.9	6,437.9	1.64	-1.43	0.81	
15,620.0	89.61	91.72	9,086.9	1,027.0	6,533.8	6,533.8	0.34	0.27	0.20	
15,715.0	90.05	91.86	9,087.1	1,024.0	6,628.8	6,628.8	0.49	0.46	0.15	
15,810.0	88.84	92.05	9,088.1	1,020.8	6,723.7	6,723.7	1.29	-1.27	0.20	
15,905.0	88.65	92.40	9,090.1	1,017.1	6,818.6	6,818.6	0.42	-0.20	0.37	
16,001.0	89.13	92.73	9,092.0	1,012.8	6,914.5	6,914.5	0.61	0.50	0.34	
16,096.0	89.72	92.89	9,092.9	1,008.2	7,009.4	7,009.4	0.64	0.62	0.17	
16,191.0	89.97	93.57	9,093.2	1,002.8	7,104.2	7,104.2	0.76	0.26	0.72	
16,287.0	88.83	91.74	9,094.2	998.4	7,200.1	7,200.1	2.25	-1.19	-1.91	
16,382.0	89.11	91.25	9,095.9	995.9	7,295.1	7,295.1	0.59	0.29	-0.52	
16,478.0	89.67	91.43	9,096.9	993.6	7,391.0	7,391.0	0.61	0.58	0.19	
16,573.0	90.36	91.33	9,096.9	991.4	7,486.0	7,486.0	0.73	0.73	-0.11	
16,651.0	91.07	91.57	9,095.9	989.4	7,564.0	7,564.0	0.96	0.91	0.31	
16,713.3	91.07	91.57	9,094.8	987.7	7,626.2	7,626.2	0.00	0.00	0.00	
LTP: (16713' MD) 100' FCL/2177' FSL										
16,720.0	91.07	91.57	9,094.7	987.5	7,632.9	7,632.9	0.00	0.00	0.00	
PTB: 93' FCL Sec 33, 2177' FSL - PBHL - Uraninite 334H										



Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

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)

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
264.0	263.9	-0.7	-4.8	First Survey
8,655.0	8,568.3	928.7	-132.3	KOP: (8655' MD) 71' FWL/2104' FSL
9,419.0	9,012.5	1,091.4	344.4	FTP:(9419' MD) 549' FWL/2268' FSL
14,165.2	9,084.6	1,041.1	5,079.6	Cross Section 32-33; (14165' MD) 2224' FSL
16,713.3	9,094.8	987.7	7,626.2	LTP: (16713' MD) 100' FCL/2177' FSL
16,720.0	9,094.7	987.5	7,632.9	PTB: 93' FCL Sec 33, 2177' FSL

Checked By: _____	Approved By: _____	Date: _____
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Devon Energy Production Company, L.P.

Eddy Co, New Mexico (NAD-83)

Sec 32-19S-29E (Uraninite)

Uraninite 32-33 State Fed Com 334H

Wellbore #1

Design: As Drilled

Survey Report - Geographic

15 June, 2020



Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

Project	Eddy Co, New Mexico (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 32-19S-29E (Uraninite)		
Site Position:		Northing:	591,034.23 usft
From:	Map	Easting:	611,459.43 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 37' 28.548 N
		Longitude:	104° 6' 20.043 W
		Grid Convergence:	0.12 °

Well	Uraninite 32-33 State Fed Com 334H		
Well Position	+N/-S	0.0 usft	Northing: 586,932.60 usft
	+E/-W	0.0 usft	Easting: 611,662.98 usft
Position Uncertainty	0.5 usft	Wellhead Elevation:	3,290.5 usft
		Latitude:	32° 36' 47.957 N
		Longitude:	104° 6' 17.766 W
		Ground Level:	3,290.5 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/4/2020	6.93	60.30	47,824.37324766

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	90.00	

Survey Program	Date	6/15/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
264.0	16,720.0	Survey #1 (Wellbore #1)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	586,932.60	611,662.98	32° 36' 47.957 N	104° 6' 17.766 W	
264.0	2.11	261.69	263.9	-0.7	-4.8	586,931.90	611,658.17	32° 36' 47.950 N	104° 6' 17.822 W	
First Survey										
359.0	2.46	259.14	358.9	-1.3	-8.5	586,931.26	611,654.44	32° 36' 47.943 N	104° 6' 17.866 W	
453.0	2.37	259.32	452.8	-2.1	-12.4	586,930.52	611,650.55	32° 36' 47.936 N	104° 6' 17.912 W	
548.0	1.98	265.65	547.7	-2.6	-16.0	586,930.03	611,646.98	32° 36' 47.931 N	104° 6' 17.953 W	
643.0	1.58	272.33	642.7	-2.6	-18.9	586,929.96	611,644.04	32° 36' 47.931 N	104° 6' 17.988 W	
738.0	1.10	272.68	737.6	-2.5	-21.2	586,930.06	611,641.82	32° 36' 47.932 N	104° 6' 18.014 W	
832.0	0.75	274.88	831.6	-2.4	-22.7	586,930.15	611,640.30	32° 36' 47.933 N	104° 6' 18.031 W	
927.0	0.66	286.65	926.6	-2.2	-23.8	586,930.36	611,639.16	32° 36' 47.935 N	104° 6' 18.045 W	
1,022.0	0.62	309.07	1,021.6	-1.8	-24.7	586,930.84	611,638.24	32° 36' 47.940 N	104° 6' 18.055 W	
1,116.0	0.79	319.70	1,115.6	-0.9	-25.6	586,931.66	611,637.42	32° 36' 47.948 N	104° 6' 18.065 W	

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,211.0	0.75	327.70	1,210.6	0.1	-26.3	586,932.68	611,636.67	32° 36' 47.958 N	104° 6' 18.074 W
1,267.0	0.84	333.24	1,266.6	0.8	-26.7	586,933.36	611,636.29	32° 36' 47.965 N	104° 6' 18.078 W
1,456.0	0.91	347.34	1,455.6	3.5	-27.6	586,936.06	611,635.33	32° 36' 47.991 N	104° 6' 18.089 W
1,552.0	0.79	330.66	1,551.6	4.8	-28.1	586,937.38	611,634.84	32° 36' 48.004 N	104° 6' 18.095 W
1,647.0	0.83	355.87	1,646.6	6.0	-28.5	586,938.64	611,634.47	32° 36' 48.017 N	104° 6' 18.099 W
1,743.0	0.73	331.42	1,742.5	7.3	-28.9	586,939.87	611,634.13	32° 36' 48.029 N	104° 6' 18.103 W
1,838.0	0.72	339.33	1,837.5	8.4	-29.4	586,940.96	611,633.63	32° 36' 48.040 N	104° 6' 18.109 W
1,933.0	0.72	349.36	1,932.5	9.5	-29.7	586,942.11	611,633.31	32° 36' 48.051 N	104° 6' 18.113 W
2,029.0	0.65	347.63	2,028.5	10.6	-29.9	586,943.23	611,633.08	32° 36' 48.062 N	104° 6' 18.115 W
2,124.0	0.41	345.62	2,123.5	11.5	-30.1	586,944.09	611,632.88	32° 36' 48.071 N	104° 6' 18.118 W
2,220.0	0.38	344.89	2,219.5	12.1	-30.3	586,944.73	611,632.71	32° 36' 48.077 N	104° 6' 18.120 W
2,315.0	0.51	39.47	2,314.5	12.8	-30.1	586,945.36	611,632.90	32° 36' 48.083 N	104° 6' 18.118 W
2,410.0	0.41	21.69	2,409.5	13.4	-29.7	586,946.00	611,633.29	32° 36' 48.090 N	104° 6' 18.113 W
2,506.0	0.30	77.35	2,505.5	13.8	-29.3	586,946.37	611,633.67	32° 36' 48.093 N	104° 6' 18.109 W
2,601.0	0.38	57.79	2,600.5	14.0	-28.8	586,946.60	611,634.18	32° 36' 48.096 N	104° 6' 18.103 W
2,697.0	0.28	332.58	2,696.5	14.4	-28.6	586,946.97	611,634.34	32° 36' 48.099 N	104° 6' 18.101 W
2,792.0	0.44	63.12	2,791.5	14.7	-28.4	586,947.34	611,634.56	32° 36' 48.103 N	104° 6' 18.098 W
2,887.0	0.40	96.37	2,886.5	14.9	-27.8	586,947.47	611,635.21	32° 36' 48.104 N	104° 6' 18.090 W
2,983.0	0.23	26.05	2,982.5	15.0	-27.4	586,947.61	611,635.63	32° 36' 48.106 N	104° 6' 18.086 W
3,078.0	0.13	24.96	3,077.5	15.3	-27.2	586,947.88	611,635.76	32° 36' 48.108 N	104° 6' 18.084 W
3,272.0	1.50	18.54	3,271.5	17.9	-26.3	586,950.48	611,636.66	32° 36' 48.134 N	104° 6' 18.073 W
3,367.0	3.54	10.29	3,366.4	21.9	-25.4	586,954.55	611,637.58	32° 36' 48.174 N	104° 6' 18.063 W
3,462.0	3.91	1.53	3,461.2	28.1	-24.8	586,960.67	611,638.19	32° 36' 48.235 N	104° 6' 18.055 W
3,558.0	3.46	357.61	3,557.0	34.2	-24.8	586,966.84	611,638.15	32° 36' 48.296 N	104° 6' 18.056 W
3,653.0	3.21	347.33	3,651.8	39.7	-25.5	586,972.30	611,637.45	32° 36' 48.350 N	104° 6' 18.064 W
3,748.0	3.65	356.08	3,746.7	45.3	-26.3	586,977.91	611,636.66	32° 36' 48.405 N	104° 6' 18.073 W
3,843.0	4.11	356.09	3,841.4	51.7	-26.8	586,984.32	611,636.22	32° 36' 48.469 N	104° 6' 18.078 W
3,939.0	4.62	1.33	3,937.2	59.0	-26.9	586,991.62	611,636.08	32° 36' 48.541 N	104° 6' 18.079 W
4,034.0	5.72	6.36	4,031.8	67.5	-26.3	587,000.15	611,636.69	32° 36' 48.625 N	104° 6' 18.072 W
4,130.0	6.99	6.20	4,127.2	78.1	-25.1	587,010.71	611,637.85	32° 36' 48.730 N	104° 6' 18.058 W
4,225.0	7.69	5.40	4,221.4	90.2	-23.9	587,022.79	611,639.07	32° 36' 48.849 N	104° 6' 18.043 W
4,321.0	9.38	358.21	4,316.3	104.4	-23.6	587,037.00	611,639.43	32° 36' 48.990 N	104° 6' 18.039 W
4,416.0	10.15	355.17	4,410.0	120.5	-24.5	587,053.08	611,638.49	32° 36' 49.149 N	104° 6' 18.050 W
4,511.0	9.69	355.99	4,503.5	136.8	-25.8	587,069.40	611,637.22	32° 36' 49.311 N	104° 6' 18.064 W
4,606.0	9.63	356.45	4,597.2	152.7	-26.8	587,085.31	611,636.17	32° 36' 49.468 N	104° 6' 18.076 W
4,701.0	10.60	354.84	4,690.7	169.3	-28.1	587,101.94	611,634.89	32° 36' 49.633 N	104° 6' 18.090 W
4,796.0	11.04	351.92	4,784.0	187.0	-30.2	587,119.65	611,632.83	32° 36' 49.808 N	104° 6' 18.114 W
4,891.0	10.77	348.30	4,877.3	204.7	-33.2	587,137.35	611,629.75	32° 36' 49.983 N	104° 6' 18.150 W
4,987.0	9.68	342.75	4,971.8	221.2	-37.4	587,153.84	611,625.54	32° 36' 50.146 N	104° 6' 18.198 W
5,082.0	10.22	345.94	5,065.4	237.0	-41.9	587,169.64	611,621.12	32° 36' 50.303 N	104° 6' 18.250 W
5,178.0	10.48	344.15	5,159.8	253.7	-46.3	587,186.30	611,616.67	32° 36' 50.468 N	104° 6' 18.301 W
5,273.0	11.45	353.01	5,253.1	271.4	-49.8	587,203.97	611,613.16	32° 36' 50.643 N	104° 6' 18.342 W
5,368.0	12.05	354.92	5,346.1	290.6	-51.8	587,223.21	611,611.14	32° 36' 50.833 N	104° 6' 18.365 W
5,464.0	11.60	354.96	5,440.0	310.2	-53.6	587,242.81	611,609.40	32° 36' 51.027 N	104° 6' 18.385 W
5,558.0	11.09	354.55	5,532.2	328.6	-55.3	587,261.22	611,607.71	32° 36' 51.209 N	104° 6' 18.404 W
5,653.0	12.02	352.40	5,625.3	347.5	-57.4	587,280.12	611,605.54	32° 36' 51.397 N	104° 6' 18.429 W
5,749.0	12.06	352.28	5,719.2	367.4	-60.1	587,299.97	611,602.87	32° 36' 51.593 N	104° 6' 18.460 W
5,844.0	11.30	350.08	5,812.2	386.4	-63.1	587,318.97	611,599.93	32° 36' 51.781 N	104° 6' 18.494 W
5,939.0	10.53	344.89	5,905.5	403.9	-66.9	587,336.52	611,596.06	32° 36' 51.955 N	104° 6' 18.538 W
6,035.0	10.28	348.39	5,999.9	420.8	-70.9	587,353.38	611,592.05	32° 36' 52.122 N	104° 6' 18.585 W
6,130.0	10.67	351.32	6,093.3	437.8	-74.0	587,370.38	611,589.02	32° 36' 52.290 N	104° 6' 18.620 W
6,226.0	11.89	352.74	6,187.5	456.4	-76.6	587,388.97	611,586.43	32° 36' 52.474 N	104° 6' 18.650 W
6,321.0	10.84	348.74	6,280.6	474.8	-79.5	587,407.44	611,583.45	32° 36' 52.657 N	104° 6' 18.684 W
6,417.0	12.01	352.25	6,374.7	493.6	-82.6	587,426.20	611,580.34	32° 36' 52.843 N	104° 6' 18.720 W
6,512.0	13.67	353.80	6,467.3	514.5	-85.2	587,447.15	611,577.79	32° 36' 53.050 N	104° 6' 18.749 W

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,607.0	13.52	353.71	6,559.7	536.7	-87.6	587,469.35	611,575.36	32° 36' 53.270 N	104° 6' 18.777 W
6,703.0	11.59	354.47	6,653.4	557.5	-89.8	587,490.10	611,573.20	32° 36' 53.475 N	104° 6' 18.802 W
6,799.0	10.67	352.77	6,747.5	575.9	-91.8	587,508.52	611,571.16	32° 36' 53.657 N	104° 6' 18.825 W
6,894.0	9.89	352.18	6,841.0	592.7	-94.0	587,525.33	611,568.94	32° 36' 53.824 N	104° 6' 18.851 W
6,990.0	10.21	352.23	6,935.6	609.3	-96.3	587,541.92	611,566.67	32° 36' 53.988 N	104° 6' 18.877 W
7,086.0	9.52	350.45	7,030.1	625.6	-98.8	587,558.18	611,564.20	32° 36' 54.149 N	104° 6' 18.905 W
7,181.0	8.69	346.11	7,123.9	640.3	-101.8	587,572.90	611,561.17	32° 36' 54.295 N	104° 6' 18.940 W
7,277.0	9.38	350.38	7,218.7	655.0	-104.9	587,587.65	611,558.13	32° 36' 54.441 N	104° 6' 18.976 W
7,372.0	10.41	349.44	7,312.3	671.1	-107.7	587,603.72	611,555.26	32° 36' 54.600 N	104° 6' 19.009 W
7,467.0	11.81	355.70	7,405.5	689.3	-110.0	587,621.86	611,552.96	32° 36' 54.779 N	104° 6' 19.035 W
7,563.0	13.81	355.09	7,499.2	710.5	-111.7	587,643.07	611,551.24	32° 36' 54.989 N	104° 6' 19.055 W
7,659.0	10.93	351.10	7,592.9	730.9	-114.1	587,663.48	611,548.85	32° 36' 55.191 N	104° 6' 19.082 W
7,754.0	11.14	348.44	7,686.2	748.8	-117.4	587,681.37	611,545.62	32° 36' 55.368 N	104° 6' 19.120 W
7,850.0	12.88	353.45	7,780.1	768.5	-120.4	587,701.09	611,542.54	32° 36' 55.564 N	104° 6' 19.155 W
7,945.0	12.33	357.81	7,872.8	789.1	-122.0	587,721.74	611,540.94	32° 36' 55.768 N	104° 6' 19.173 W
8,041.0	10.01	355.96	7,966.9	807.7	-123.0	587,740.31	611,539.96	32° 36' 55.952 N	104° 6' 19.184 W
8,136.0	10.88	0.32	8,060.4	824.9	-123.6	587,757.51	611,539.43	32° 36' 56.122 N	104° 6' 19.190 W
8,232.0	12.16	357.51	8,154.4	844.1	-123.9	587,776.68	611,539.04	32° 36' 56.312 N	104° 6' 19.194 W
8,328.0	10.03	354.88	8,248.6	862.5	-125.1	587,795.11	611,537.86	32° 36' 56.494 N	104° 6' 19.207 W
8,423.0	8.95	354.36	8,342.3	878.1	-126.6	587,810.70	611,536.39	32° 36' 56.648 N	104° 6' 19.224 W
8,506.0	10.62	350.94	8,424.1	892.1	-128.4	587,824.68	611,534.55	32° 36' 56.787 N	104° 6' 19.245 W
8,561.0	11.95	351.03	8,478.1	902.7	-130.1	587,835.31	611,532.87	32° 36' 56.892 N	104° 6' 19.265 W
8,655.0	20.40	357.81	8,568.3	928.7	-132.3	587,861.34	611,530.72	32° 36' 57.150 N	104° 6' 19.289 W
KOP: (8655' MD) 71' FWL/2104' FSL									
8,751.0	32.09	11.77	8,654.3	970.6	-127.7	587,903.21	611,535.30	32° 36' 57.564 N	104° 6' 19.235 W
8,846.0	40.92	32.60	8,730.9	1,021.8	-105.6	587,954.42	611,557.34	32° 36' 58.070 N	104° 6' 18.976 W
8,942.0	44.95	52.78	8,801.5	1,069.1	-61.5	588,001.67	611,601.51	32° 36' 58.537 N	104° 6' 18.458 W
9,037.0	52.75	69.76	8,864.2	1,102.6	1.1	588,035.23	611,664.07	32° 36' 58.867 N	104° 6' 17.726 W
9,132.0	61.50	84.69	8,915.9	1,119.7	78.6	588,052.28	611,741.56	32° 36' 59.034 N	104° 6' 16.819 W
9,228.0	65.46	96.92	8,958.9	1,118.3	164.2	588,050.92	611,827.21	32° 36' 59.019 N	104° 6' 15.818 W
9,323.0	71.41	98.24	8,993.8	1,106.6	251.8	588,039.25	611,914.74	32° 36' 58.902 N	104° 6' 14.795 W
9,404.8	83.91	100.11	9,011.3	1,093.9	330.5	588,026.51	611,993.45	32° 36' 58.774 N	104° 6' 13.875 W
LP - Uraninite 334H									
9,419.0	86.09	100.42	9,012.5	1,091.4	344.4	588,023.98	612,007.38	32° 36' 58.749 N	104° 6' 13.712 W
FTP:(9419' MD) 549' FWL/2268' FSL									
9,514.0	94.09	101.58	9,012.4	1,073.3	437.6	588,005.87	612,100.56	32° 36' 58.568 N	104° 6' 12.623 W
9,610.0	93.56	99.59	9,006.0	1,055.7	531.7	587,988.28	612,194.71	32° 36' 58.391 N	104° 6' 11.523 W
9,705.0	92.73	96.85	9,000.7	1,042.1	625.6	587,974.72	612,288.58	32° 36' 58.255 N	104° 6' 10.425 W
9,801.0	89.47	92.74	8,998.9	1,034.1	721.2	587,966.70	612,384.20	32° 36' 58.174 N	104° 6' 9.308 W
9,896.0	90.30	93.10	8,999.1	1,029.3	816.1	587,961.86	612,479.07	32° 36' 58.124 N	104° 6' 8.198 W
9,992.0	86.67	92.30	9,001.6	1,024.7	911.9	587,957.34	612,574.92	32° 36' 58.077 N	104° 6' 7.078 W
10,087.0	86.49	91.78	9,007.3	1,021.4	1,006.7	587,953.96	612,669.69	32° 36' 58.042 N	104° 6' 5.970 W
10,182.0	87.15	90.96	9,012.6	1,019.1	1,101.5	587,951.69	612,764.51	32° 36' 58.017 N	104° 6' 4.861 W
10,277.0	88.85	90.75	9,015.9	1,017.7	1,196.5	587,950.28	612,859.44	32° 36' 58.001 N	104° 6' 3.751 W
10,373.0	87.73	91.41	9,018.7	1,015.9	1,292.4	587,948.47	612,955.38	32° 36' 57.981 N	104° 6' 2.630 W
10,468.0	87.24	91.06	9,022.9	1,013.8	1,387.3	587,946.42	613,050.26	32° 36' 57.959 N	104° 6' 1.520 W
10,564.0	88.18	90.45	9,026.7	1,012.6	1,483.2	587,945.16	613,146.18	32° 36' 57.944 N	104° 6' 0.399 W
10,659.0	88.17	89.28	9,029.8	1,012.8	1,578.1	587,945.38	613,241.13	32° 36' 57.944 N	104° 5' 59.289 W
10,754.0	87.57	88.42	9,033.3	1,014.7	1,673.1	587,947.29	613,336.04	32° 36' 57.961 N	104° 5' 58.179 W
10,850.0	89.95	88.28	9,035.4	1,017.4	1,769.0	587,950.05	613,431.97	32° 36' 57.986 N	104° 5' 57.057 W
10,945.0	88.63	90.05	9,036.6	1,018.8	1,864.0	587,951.44	613,526.95	32° 36' 57.998 N	104° 5' 55.947 W
11,041.0	89.70	90.34	9,038.0	1,018.5	1,960.0	587,951.11	613,622.94	32° 36' 57.993 N	104° 5' 54.825 W
11,136.0	87.12	90.82	9,040.6	1,017.5	2,054.9	587,950.15	613,717.89	32° 36' 57.981 N	104° 5' 53.714 W
11,232.0	86.69	90.51	9,045.8	1,016.4	2,150.8	587,949.04	613,813.74	32° 36' 57.968 N	104° 5' 52.594 W
11,327.0	86.88	90.21	9,051.1	1,015.8	2,245.6	587,948.44	613,908.59	32° 36' 57.960 N	104° 5' 51.485 W

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,422.0	88.17	86.93	9,055.2	1,018.2	2,340.5	587,950.81	614,003.45	32° 36' 57.981 N	104° 5' 50.375 W
11,517.0	88.34	86.25	9,058.1	1,023.9	2,435.3	587,956.46	614,098.24	32° 36' 58.035 N	104° 5' 49.267 W
11,613.0	89.17	85.63	9,060.2	1,030.7	2,531.0	587,963.25	614,193.98	32° 36' 58.100 N	104° 5' 48.148 W
11,708.0	89.57	85.40	9,061.2	1,038.1	2,625.7	587,970.68	614,288.68	32° 36' 58.172 N	104° 5' 47.040 W
11,803.0	88.15	86.50	9,063.1	1,044.8	2,720.4	587,977.39	614,383.42	32° 36' 58.236 N	104° 5' 45.932 W
11,899.0	88.17	85.80	9,066.2	1,051.2	2,816.2	587,983.83	614,479.15	32° 36' 58.298 N	104° 5' 44.813 W
11,995.0	89.35	85.81	9,068.3	1,058.2	2,911.9	587,990.85	614,574.87	32° 36' 58.365 N	104° 5' 43.693 W
12,090.0	90.03	88.57	9,068.8	1,062.9	3,006.8	587,995.51	614,669.75	32° 36' 58.409 N	104° 5' 42.584 W
12,186.0	91.37	88.01	9,067.6	1,065.8	3,102.7	587,998.37	614,765.69	32° 36' 58.435 N	104° 5' 41.462 W
12,280.0	90.79	89.21	9,065.8	1,068.1	3,196.7	588,000.65	614,859.65	32° 36' 58.456 N	104° 5' 40.363 W
12,375.0	90.84	88.59	9,064.5	1,069.9	3,291.6	588,002.48	614,954.62	32° 36' 58.472 N	104° 5' 39.253 W
12,471.0	89.00	88.65	9,064.6	1,072.2	3,387.6	588,004.79	615,050.59	32° 36' 58.492 N	104° 5' 38.131 W
12,567.0	89.04	88.55	9,066.3	1,074.5	3,483.6	588,007.13	615,146.55	32° 36' 58.513 N	104° 5' 37.009 W
12,662.0	88.35	88.76	9,068.4	1,076.8	3,578.5	588,009.36	615,241.49	32° 36' 58.533 N	104° 5' 35.899 W
12,758.0	88.34	88.46	9,071.2	1,079.1	3,674.4	588,011.69	615,337.43	32° 36' 58.554 N	104° 5' 34.777 W
12,853.0	88.82	88.49	9,073.6	1,081.6	3,769.4	588,014.22	615,432.36	32° 36' 58.577 N	104° 5' 33.667 W
12,948.0	88.67	90.30	9,075.6	1,082.6	3,864.3	588,015.22	615,527.33	32° 36' 58.585 N	104° 5' 32.556 W
13,044.0	88.53	92.05	9,078.0	1,080.7	3,960.3	588,013.25	615,623.28	32° 36' 58.563 N	104° 5' 31.435 W
13,139.0	88.93	92.68	9,080.1	1,076.7	4,055.2	588,009.33	615,718.17	32° 36' 58.522 N	104° 5' 30.325 W
13,235.0	86.92	93.40	9,083.6	1,071.6	4,151.0	588,004.25	615,813.97	32° 36' 58.470 N	104° 5' 29.205 W
13,330.0	86.76	92.46	9,088.8	1,066.8	4,245.7	587,999.40	615,908.70	32° 36' 58.420 N	104° 5' 28.098 W
13,425.0	86.55	91.91	9,094.4	1,063.2	4,340.5	587,995.78	616,003.47	32° 36' 58.382 N	104° 5' 26.990 W
13,520.0	86.92	91.93	9,099.8	1,060.0	4,435.3	587,992.61	616,098.26	32° 36' 58.348 N	104° 5' 25.882 W
13,615.0	89.17	91.86	9,103.0	1,056.9	4,530.2	587,989.47	616,193.15	32° 36' 58.315 N	104° 5' 24.772 W
13,710.0	92.49	91.25	9,101.6	1,054.3	4,625.1	587,986.89	616,288.09	32° 36' 58.287 N	104° 5' 23.662 W
13,806.0	94.29	91.04	9,096.0	1,052.4	4,720.9	587,984.97	616,383.90	32° 36' 58.266 N	104° 5' 22.542 W
13,902.0	93.58	91.87	9,089.4	1,049.9	4,816.7	587,982.54	616,479.64	32° 36' 58.240 N	104° 5' 21.423 W
13,997.0	91.79	92.39	9,084.9	1,046.4	4,911.5	587,979.01	616,574.47	32° 36' 58.203 N	104° 5' 20.314 W
14,093.0	89.37	91.64	9,083.9	1,043.0	5,007.4	587,975.64	616,670.39	32° 36' 58.167 N	104° 5' 19.193 W
14,165.2	89.52	91.38	9,084.6	1,041.1	5,079.6	587,973.74	616,742.56	32° 36' 58.147 N	104° 5' 18.349 W
Cross Section 32-33; (14165' MD) 2224' FSL									
14,189.0	89.57	91.29	9,084.8	1,040.6	5,103.4	587,973.18	616,766.36	32° 36' 58.141 N	104° 5' 18.071 W
14,284.0	88.71	90.78	9,086.3	1,038.9	5,198.3	587,971.47	616,861.33	32° 36' 58.122 N	104° 5' 16.960 W
14,380.0	87.04	90.54	9,089.8	1,037.8	5,294.3	587,970.36	616,957.25	32° 36' 58.109 N	104° 5' 15.839 W
14,475.0	87.12	90.61	9,094.7	1,036.8	5,389.1	587,969.41	617,052.13	32° 36' 58.097 N	104° 5' 14.730 W
14,570.0	88.56	90.05	9,098.2	1,036.3	5,484.1	587,968.87	617,147.05	32° 36' 58.090 N	104° 5' 13.620 W
14,665.0	90.13	89.60	9,099.3	1,036.6	5,579.1	587,969.16	617,242.04	32° 36' 58.090 N	104° 5' 12.509 W
14,760.0	90.92	89.59	9,098.4	1,037.2	5,674.1	587,969.83	617,337.04	32° 36' 58.095 N	104° 5' 11.398 W
14,856.0	91.10	89.67	9,096.8	1,037.8	5,770.0	587,970.45	617,433.02	32° 36' 58.099 N	104° 5' 10.276 W
14,952.0	90.62	90.37	9,095.3	1,037.8	5,866.0	587,970.41	617,529.01	32° 36' 58.096 N	104° 5' 9.154 W
15,047.0	90.88	90.76	9,094.1	1,036.9	5,961.0	587,969.48	617,624.00	32° 36' 58.085 N	104° 5' 8.043 W
15,142.0	91.31	90.76	9,092.3	1,035.6	6,056.0	587,968.22	617,718.97	32° 36' 58.070 N	104° 5' 6.933 W
15,237.0	91.82	90.73	9,089.7	1,034.4	6,150.9	587,966.98	617,813.93	32° 36' 58.056 N	104° 5' 5.823 W
15,333.0	90.90	90.90	9,087.4	1,033.0	6,246.9	587,965.62	617,909.89	32° 36' 58.040 N	104° 5' 4.701 W
15,428.0	90.72	90.75	9,086.0	1,031.6	6,341.9	587,964.25	618,004.87	32° 36' 58.024 N	104° 5' 3.590 W
15,524.0	89.35	91.53	9,086.0	1,029.7	6,437.9	587,962.34	618,100.85	32° 36' 58.003 N	104° 5' 2.468 W
15,620.0	89.61	91.72	9,086.9	1,027.0	6,533.8	587,959.62	618,196.80	32° 36' 57.974 N	104° 5' 1.346 W
15,715.0	90.05	91.86	9,087.1	1,024.0	6,628.8	587,956.65	618,291.76	32° 36' 57.942 N	104° 5' 0.236 W
15,810.0	88.84	92.05	9,088.1	1,020.8	6,723.7	587,953.41	618,386.70	32° 36' 57.908 N	104° 4' 59.126 W
15,905.0	88.65	92.40	9,090.1	1,017.1	6,818.6	587,949.72	618,481.60	32° 36' 57.869 N	104° 4' 58.017 W
16,001.0	89.13	92.73	9,092.0	1,012.8	6,914.5	587,945.43	618,577.49	32° 36' 57.825 N	104° 4' 56.896 W
16,096.0	89.72	92.89	9,092.9	1,008.2	7,009.4	587,940.77	618,672.37	32° 36' 57.776 N	104° 4' 55.786 W
16,191.0	89.97	93.57	9,093.2	1,002.8	7,104.2	587,935.42	618,767.21	32° 36' 57.721 N	104° 4' 54.678 W
16,287.0	88.83	91.74	9,094.2	998.4	7,200.1	587,930.97	618,863.10	32° 36' 57.675 N	104° 4' 53.557 W
16,382.0	89.11	91.25	9,095.9	995.9	7,295.1	587,928.49	618,958.05	32° 36' 57.648 N	104° 4' 52.446 W

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Uraninite 32-33 State Fed Com 334H
Project:	Eddy Co, New Mexico (NAD-83)	TVD Reference:	Cactus 129: KB 30' @ 3320.5usft
Site:	Sec 32-19S-29E (Uraninite)	MD Reference:	Cactus 129: KB 30' @ 3320.5usft
Well:	Uraninite 32-33 State Fed Com 334H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Compass_DSN

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,478.0	89.67	91.43	9,096.9	993.6	7,391.0	587,926.25	619,054.02	32° 36' 57.624 N	104° 4' 51.324 W
16,573.0	90.36	91.33	9,096.9	991.4	7,486.0	587,923.96	619,148.99	32° 36' 57.599 N	104° 4' 50.214 W
16,651.0	91.07	91.57	9,095.9	989.4	7,564.0	587,921.99	619,226.96	32° 36' 57.577 N	104° 4' 49.303 W
16,713.3	91.07	91.57	9,094.8	987.7	7,626.2	587,920.28	619,289.23	32° 36' 57.559 N	104° 4' 48.575 W
LTP: (16713' MD) 100' FCL/2177' FSL									
16,720.0	91.07	91.57	9,094.7	987.5	7,632.9	587,920.10	619,295.92	32° 36' 57.557 N	104° 4' 48.496 W
PTB: 93' FCL Sec 33, 2177' FSL - PBHL - Uraninite 334H									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
16,720.0	9,094.7	20" Casing	20	24

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
264.0	263.9	-0.7	-4.8	First Survey
8,655.0	8,568.3	928.7	-132.3	KOP: (8655' MD) 71' FWL/2104' FSL
9,419.0	9,012.5	1,091.4	344.4	FTP:(9419' MD) 549' FWL/2268' FSL
14,165.2	9,084.6	1,041.1	5,079.6	Cross Section 32-33; (14165' MD) 2224' FSL
16,713.3	9,094.8	987.7	7,626.2	LTP: (16713' MD) 100' FCL/2177' FSL
16,720.0	9,094.7	987.5	7,632.9	PTB: 93' FCL Sec 33, 2177' FSL

Checked By: _____	Approved By: _____	Date: _____
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