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DISTRICT II-ARTESIA O.C.D.



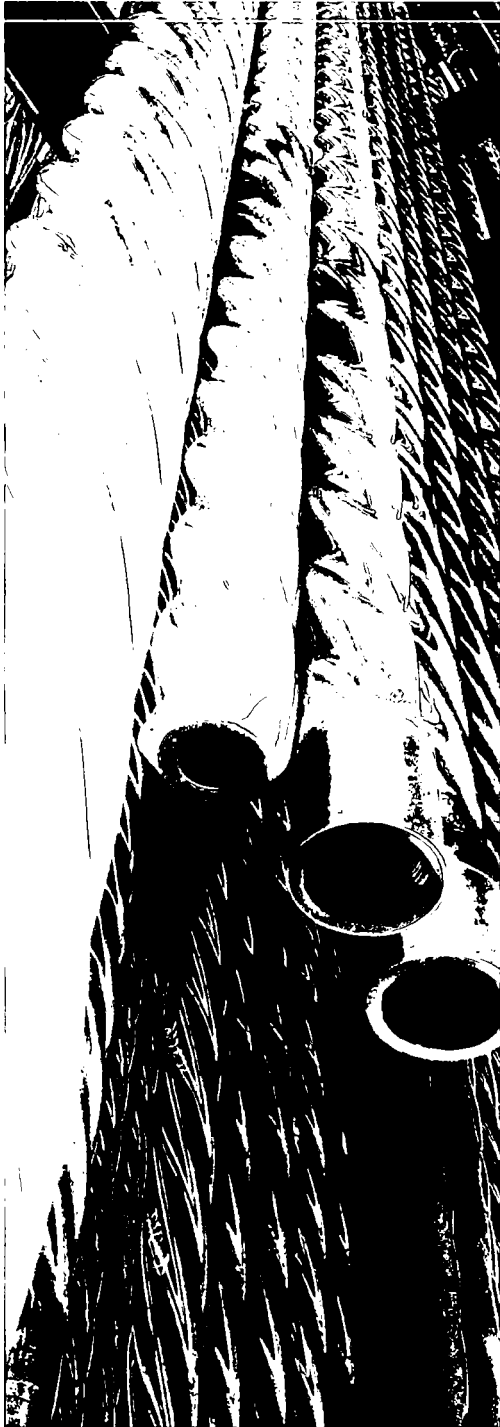
Tomb Raider 1-12 Fed No. 714H

Eddy County, NM

August 23, 2018

Job No. LNM5177018

Survey Completion Report





PRODIRECTIONAL

Survey Report

August 23, 2018



Operator Name: Devon Energy Corp.
Well Name: Tomb Raider 1-12 Fed No. 714H
County/Parish: Eddy County,
State: NM
Rig Name: Nabors X-15
Job Number: LNM5177018

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

<u>Surveyor</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
ProDirectional	188' MD – 11,939' MD	06/10/18 – 06/22/18	MWD

Sincerely,

Mike Coats

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Devon Energy Corp.

**Eddy County, NM
Tomb Raider 1-12 Fed
No. 714H
OH**

Survey: ProDirectional

Survey Report

23 August, 2018

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DISTRICT II-ARTESIA O.C.D.





ProDirectional Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 714H
Wellbore: OH
Design: Surveys 188-11879 MD

Local Co-ordinate Reference: Well 714H
TVD Reference: GL 3475'+KB 32.8' @ 3507.80usft (Nabors X15)
MD Reference: GL 3475'+KB 32.8' @ 3507.80usft (Nabors X15)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project	Eddy County, NM (NAD83)		
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:	488,001.88 usft
From:	Map	Easting:	726,025.92 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.340171
		Longitude:	-103.735328
		Grid Convergence:	0.32 °

Well		714H				
Well Position	+N/-S	0.00 usft	Northing:	487,968.75 usft	Latitude:	32.340058
	+E/-W	0.00 usft	Easting:	727,482.68 usft	Longitude:	-103.730612
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,475.00 usft	

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM	5/15/2018	6.93	60.12	48,116.30	

Design	Surveys 188-11879 MD				
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	8/23/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
188.00	11,939.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HDGM	



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487,968.75	727,482.68
188.00	0.60	104.20	188.00	0.25	-0.24	0.95	0.98	104.20	487,968.51	727,483.63
Pro MWD First Survey: 188' MD										
281.00	0.70	74.30	280.99	0.22	-0.21	1.97	1.98	95.99	487,968.54	727,484.65
374.00	0.60	96.60	373.98	0.13	-0.11	3.00	3.01	92.09	487,968.64	727,485.68
467.00	0.60	94.20	466.98	0.22	-0.20	3.97	3.98	92.90	487,968.55	727,486.65
560.00	0.50	89.80	559.98	0.26	-0.24	4.86	4.87	92.77	487,968.51	727,487.54
654.00	0.30	115.40	653.97	0.37	-0.34	5.50	5.51	93.53	487,968.41	727,488.18
799.00	0.50	93.00	798.97	0.57	-0.54	6.47	6.49	94.73	487,968.21	727,489.15
891.00	0.20	106.00	890.97	0.64	-0.60	7.03	7.05	94.89	487,968.15	727,489.71
983.00	0.10	63.50	982.97	0.65	-0.61	7.25	7.28	94.80	487,968.14	727,489.93
1,076.00	0.10	300.30	1,075.97	0.57	-0.53	7.26	7.28	94.19	487,968.22	727,489.94
1,167.00	0.10	277.30	1,166.97	0.52	-0.48	7.11	7.12	93.88	487,968.27	727,489.79
1,259.00	0.10	122.90	1,258.97	0.55	-0.52	7.10	7.11	94.15	487,968.23	727,489.78
1,350.00	0.20	96.70	1,349.97	0.62	-0.58	7.32	7.34	94.51	487,968.17	727,490.00
1,442.00	0.10	103.70	1,441.97	0.66	-0.61	7.56	7.58	94.65	487,968.14	727,490.24
1,533.00	0.20	346.60	1,532.97	0.52	-0.48	7.60	7.61	93.61	487,968.27	727,490.28
1,624.00	0.10	223.80	1,623.97	0.42	-0.38	7.51	7.52	92.91	487,968.37	727,490.19
1,716.00	0.10	169.10	1,715.97	0.56	-0.52	7.47	7.48	93.97	487,968.23	727,490.15
1,811.00	0.10	138.50	1,810.97	0.70	-0.66	7.54	7.57	95.02	487,968.09	727,490.22
1,905.00	0.00	179.40	1,904.97	0.77	-0.72	7.59	7.63	95.44	487,968.03	727,490.27
1,999.00	0.00	2.00	1,998.97	0.77	-0.72	7.59	7.63	95.44	487,968.03	727,490.27
2,092.00	0.20	96.60	2,091.97	0.79	-0.74	7.75	7.79	95.47	487,968.01	727,490.43
2,186.00	0.10	30.90	2,185.97	0.73	-0.69	7.96	7.99	94.96	487,968.06	727,490.64
2,280.00	0.10	147.60	2,279.97	0.73	-0.69	8.04	8.07	94.90	487,968.06	727,490.72
2,374.00	0.00	103.70	2,373.97	0.80	-0.76	8.09	8.12	95.36	487,967.99	727,490.77
2,468.00	1.90	70.70	2,467.95	0.30	-0.24	9.56	9.56	91.46	487,968.51	727,492.24



ProDirectional
Survey Report



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2,561.00	4.00	72.90	2,560.82	-1.14	1.22	14.11	14.17	85.06	487,969.97	727,496.79
2,656.00	5.80	69.80	2,655.47	-3.73	3.85	21.79	22.12	79.97	487,972.60	727,504.47
2,750.00	6.90	66.70	2,748.89	-7.55	7.73	31.43	32.37	76.19	487,976.48	727,514.11
2,844.00	7.40	70.60	2,842.16	-11.73	11.97	42.33	43.99	74.21	487,980.72	727,525.01
2,938.00	7.70	77.90	2,935.35	-15.00	15.30	54.19	56.31	74.23	487,984.05	727,536.87
3,033.00	7.80	78.50	3,029.48	-17.55	17.92	66.73	69.10	74.97	487,986.67	727,549.41
3,127.00	7.30	77.00	3,122.66	-20.09	20.53	78.80	81.44	75.39	487,989.28	727,561.48
3,222.00	6.50	74.40	3,216.98	-22.84	23.34	89.86	92.84	75.44	487,992.09	727,572.54
3,317.00	6.80	74.50	3,311.34	-25.73	26.29	100.46	103.84	75.34	487,995.04	727,583.14
3,410.00	8.20	72.90	3,403.54	-29.08	29.71	112.11	115.98	75.16	487,998.46	727,594.79
3,505.00	9.10	73.20	3,497.46	-33.17	33.87	125.78	130.26	74.93	488,002.62	727,608.46
3,599.00	8.40	73.80	3,590.36	-37.16	37.94	139.48	144.55	74.78	488,006.69	727,622.16
3,693.00	8.30	78.00	3,683.37	-40.41	41.26	152.71	158.19	74.88	488,010.01	727,635.39
3,787.00	8.20	83.10	3,776.40	-42.55	43.48	166.01	171.61	75.32	488,012.23	727,648.69
3,882.00	7.60	84.60	3,870.49	-43.88	44.88	178.99	184.53	75.92	488,013.63	727,661.67
3,975.00	7.10	86.90	3,962.73	-44.71	45.77	190.85	196.26	76.51	488,014.52	727,673.53
4,070.00	7.10	91.70	4,057.00	-44.79	45.92	202.58	207.72	77.23	488,014.67	727,685.26
4,164.00	7.40	89.80	4,150.25	-44.57	45.77	214.44	219.27	77.95	488,014.52	727,697.12
4,258.00	7.60	78.10	4,243.45	-45.80	47.07	226.58	231.41	78.26	488,015.82	727,709.26
4,352.00	7.00	74.10	4,336.69	-48.59	49.92	238.17	243.34	78.16	488,018.67	727,720.85
4,446.00	6.20	75.80	4,430.07	-51.35	52.73	248.60	254.13	78.02	488,021.48	727,731.28
4,539.00	6.30	74.40	4,522.51	-53.89	55.34	258.38	264.24	77.91	488,024.09	727,741.06
4,633.00	7.10	71.70	4,615.87	-57.05	58.55	268.86	275.16	77.71	488,027.30	727,751.54
4,726.00	8.40	68.60	4,708.02	-61.26	62.83	280.65	287.59	77.38	488,031.58	727,763.33
4,820.00	9.20	67.80	4,800.91	-66.53	68.18	294.00	301.80	76.94	488,036.93	727,776.68
4,914.00	9.20	69.10	4,893.70	-71.98	73.70	307.97	316.67	76.54	488,042.45	727,790.65
5,008.00	8.80	70.70	4,986.55	-76.96	78.75	321.78	331.28	76.25	488,047.50	727,804.46



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5,102.00	8.70	71.50	5,079.45	-81.51	83.39	335.31	345.52	76.03	488,052.14	727,817.99
5,195.00	8.60	72.80	5,171.39	-85.73	87.68	348.62	359.48	75.88	488,056.43	727,831.30
5,288.00	8.60	74.30	5,263.35	-89.59	91.61	361.96	373.37	75.80	488,060.36	727,844.64
5,382.00	8.00	76.60	5,356.36	-92.93	95.03	375.09	386.94	75.78	488,063.78	727,857.77
5,476.00	7.60	75.40	5,449.49	-95.95	98.11	387.46	399.69	75.79	488,066.86	727,870.14
5,569.00	7.40	72.40	5,541.70	-99.24	101.47	399.12	411.82	75.74	488,070.22	727,881.80
5,663.00	7.40	72.80	5,634.92	-102.80	105.09	410.68	423.91	75.65	488,073.84	727,893.36
5,756.00	7.20	74.10	5,727.16	-106.10	108.46	422.00	435.72	75.59	488,077.21	727,904.68
5,850.00	7.10	75.40	5,820.43	-109.12	111.54	433.29	447.42	75.56	488,080.29	727,915.97
5,944.00	7.00	75.80	5,913.72	-111.93	114.41	444.46	458.95	75.56	488,083.16	727,927.14
6,038.00	6.90	76.80	6,007.03	-114.56	117.10	455.51	470.33	75.58	488,085.85	727,938.19
6,132.00	7.00	77.30	6,100.34	-117.05	119.65	466.60	481.70	75.62	488,088.40	727,949.28
6,225.00	7.40	73.70	6,192.61	-119.91	122.58	477.88	493.35	75.61	488,091.33	727,960.56
6,318.00	7.20	74.00	6,284.85	-123.13	125.87	489.23	505.16	75.57	488,094.62	727,971.91
6,413.00	7.00	76.00	6,379.12	-126.11	128.91	500.57	516.90	75.56	488,097.66	727,983.25
6,507.00	6.90	76.70	6,472.43	-128.73	131.59	511.62	528.27	75.58	488,100.34	727,994.30
6,601.00	6.60	78.60	6,565.78	-131.04	133.96	522.41	539.31	75.62	488,102.71	728,005.09
6,694.00	6.40	80.30	6,658.18	-132.91	135.89	532.76	549.82	75.69	488,104.64	728,015.44
6,789.00	6.20	82.10	6,752.61	-134.45	137.49	543.06	560.19	75.79	488,106.24	728,025.74
6,883.00	5.80	83.80	6,846.10	-135.61	138.70	552.81	569.94	75.92	488,107.45	728,035.49
6,978.00	5.50	86.10	6,940.63	-136.38	139.53	562.12	579.18	76.06	488,108.28	728,044.80
7,072.00	5.10	88.70	7,034.23	-136.74	139.93	570.79	587.69	76.23	488,108.68	728,053.47
7,167.00	4.80	91.80	7,128.88	-136.66	139.90	578.99	595.65	76.42	488,108.65	728,061.67
7,262.00	4.40	97.50	7,223.57	-136.02	139.30	586.57	602.89	76.64	488,108.05	728,069.25
7,355.00	4.10	102.40	7,316.32	-134.80	138.12	593.36	609.22	76.90	488,106.87	728,076.04
7,449.00	3.70	106.80	7,410.10	-133.17	136.52	599.54	614.89	77.17	488,105.27	728,082.22
7,544.00	3.30	112.50	7,504.92	-131.21	134.59	605.00	619.79	77.46	488,103.34	728,087.68



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7,639.00	3.00	116.30	7,599.78	-129.03	132.44	609.76	623.98	77.75	488,101.19	728,092.44
7,734.00	2.90	118.30	7,694.65	-126.77	130.20	614.10	627.75	78.03	488,098.95	728,096.78
7,828.00	2.60	120.00	7,788.54	-124.55	128.01	618.04	631.16	78.30	488,096.76	728,100.72
7,923.00	2.50	123.30	7,883.45	-122.32	125.79	621.64	634.24	78.56	488,094.54	728,104.32
8,018.00	2.50	127.50	7,978.36	-119.90	123.39	625.02	637.08	78.83	488,092.14	728,107.70
8,112.00	2.20	132.00	8,072.28	-117.43	120.94	627.98	639.52	79.10	488,089.69	728,110.66
8,201.00	2.20	136.30	8,161.22	-115.04	118.56	630.43	641.48	79.35	488,087.31	728,113.11
8,296.00	1.50	99.80	8,256.17	-113.49	117.03	632.92	643.65	79.52	488,085.78	728,115.60
8,390.00	2.50	73.60	8,350.11	-113.84	117.40	636.10	646.84	79.54	488,086.15	728,118.78
8,485.00	2.40	38.80	8,445.03	-115.96	119.53	639.33	650.41	79.41	488,088.28	728,122.01
8,579.00	2.20	41.80	8,538.95	-118.83	122.41	641.77	653.34	79.20	488,091.16	728,124.45
8,673.00	1.70	31.50	8,632.90	-121.35	124.95	643.70	655.71	79.02	488,093.70	728,126.38
8,767.00	1.30	2.60	8,726.87	-123.60	127.20	644.48	656.91	78.84	488,095.95	728,127.16
8,860.00	0.80	325.50	8,819.85	-125.19	128.79	644.16	656.90	78.69	488,097.54	728,126.84
8,954.00	0.90	247.60	8,913.85	-125.45	129.05	643.10	655.92	78.65	488,097.80	728,125.78
9,049.00	1.10	234.70	9,008.83	-124.65	128.24	641.67	654.36	78.70	488,096.99	728,124.35
9,144.00	0.80	274.00	9,103.82	-124.18	127.76	640.26	652.88	78.72	488,096.51	728,122.94
9,237.00	0.50	252.20	9,196.81	-124.11	127.68	639.23	651.85	78.70	488,096.43	728,121.91
9,332.00	0.50	258.80	9,291.81	-123.90	127.47	638.43	651.03	78.71	488,096.22	728,121.11
9,426.00	0.10	294.50	9,385.81	-123.86	127.42	637.95	650.55	78.70	488,096.17	728,120.63
9,521.00	0.30	170.60	9,480.81	-123.65	127.21	637.91	650.48	78.72	488,095.96	728,120.59
9,615.00	1.30	17.20	9,574.80	-124.42	127.99	638.27	650.98	78.66	488,096.74	728,120.95
9,709.00	1.30	21.70	9,668.78	-126.43	130.00	638.98	652.07	78.50	488,098.75	728,121.66
9,804.00	1.20	23.80	9,763.75	-128.34	131.91	639.78	653.24	78.35	488,100.66	728,122.46
9,904.00	1.50	29.00	9,863.73	-130.43	134.01	640.84	654.70	78.19	488,102.76	728,123.52
9,998.00	1.60	25.60	9,957.69	-132.68	136.27	642.00	656.30	78.02	488,105.02	728,124.68
10,092.00	0.90	17.80	10,051.67	-134.57	138.16	642.79	657.47	77.87	488,106.91	728,125.47



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Database: WellPlanner1

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
10,186.00	1.20	26.50	10,145.65	-136.15	139.74	643.46	658.46	77.75	488,108.49	728,126.14
10,281.00	1.50	29.60	10,240.63	-138.11	141.71	644.52	659.91	77.60	488,110.46	728,127.20
10,375.00	1.40	23.50	10,334.60	-140.23	143.84	645.58	661.41	77.44	488,112.59	728,128.26
10,470.00	0.90	45.10	10,429.58	-141.81	145.43	646.57	662.73	77.32	488,114.18	728,129.25
10,564.00	0.40	70.40	10,523.57	-142.44	146.06	647.40	663.68	77.29	488,114.81	728,130.08
10,656.00	0.80	116.00	10,615.57	-142.26	145.89	648.28	664.50	77.32	488,114.64	728,130.96
10,750.00	1.40	130.60	10,709.55	-141.22	144.85	649.75	665.70	77.43	488,113.60	728,132.43
10,844.00	1.50	136.40	10,803.52	-139.57	143.21	651.47	667.02	77.60	488,111.96	728,134.15
10,939.00	1.30	134.00	10,898.49	-137.91	141.56	653.10	668.27	77.77	488,110.31	728,135.78
11,033.00	0.30	140.30	10,992.48	-136.98	140.63	654.02	668.97	77.86	488,109.38	728,136.70
11,128.00	0.10	194.80	11,087.48	-136.71	140.36	654.16	669.05	77.89	488,109.11	728,136.84
11,222.00	0.00	205.10	11,181.48	-136.63	140.28	654.14	669.01	77.90	488,109.03	728,136.82
11,316.00	0.50	285.60	11,275.48	-136.74	140.39	653.75	668.65	77.88	488,109.14	728,136.43
11,411.00	1.00	225.60	11,370.47	-136.28	139.92	652.75	667.58	77.90	488,108.67	728,135.43
11,503.00	5.30	186.20	11,462.32	-131.49	135.14	651.72	665.58	78.29	488,103.89	728,134.40
11,597.00	13.60	185.80	11,554.96	-116.16	119.80	650.13	661.08	79.56	488,088.55	728,132.81
11,644.00	18.30	183.60	11,600.14	-103.30	106.93	649.11	657.86	80.65	488,075.68	728,131.79
11,691.00	22.90	180.80	11,644.12	-86.79	90.41	648.52	654.79	82.06	488,059.16	728,131.20
11,742.00	28.50	176.00	11,690.06	-64.70	68.33	649.23	652.82	83.99	488,037.08	728,131.91
11,785.00	33.30	174.40	11,726.95	-42.70	46.34	651.10	652.74	85.93	488,015.09	728,133.78
11,832.00	36.40	174.40	11,765.52	-15.96	19.61	653.72	654.01	88.28	487,988.36	728,136.40
11,879.00	40.20	175.40	11,802.39	13.06	-9.40	656.30	656.36	90.82	487,959.35	728,138.98
11,939.00	46.80	175.00	11,845.89	54.21	-50.53	659.76	661.69	94.38	487,918.22	728,142.44

Final Pro Survey: 11939' MD



ProDirectional Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 714H
Wellbore: OH
Design: Surveys 188-11879 MD

Local Co-ordinate Reference: Well 714H
TVD Reference: GL 3475'+KB 32.8' @ 3507.80usft (Nabors X15)
MD Reference: GL 3475'+KB 32.8' @ 3507.80usft (Nabors X15)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
188.00	188.00	-0.24	0.95	Pro MWD First Survey: 188' MD
11,939.00	11,845.89	-50.53	659.76	Final Pro Survey: 11939' MD