



NABORS DRILLING TECHNOLOGIES USA, INC.  
 515 West Greens Road  
 Houston, TX 77067  
 Phone: 281.874.0035  
 Fax: 281.872.5205

Monday, June 04, 2018

State of New Mexico  
 County of Lea

**HOBBS OCD**

**OCT 01 2018**

**RECEIVED**

Subject: **Survey Certification Letter**

Survey Company: **NABORS DRILLING TECH USA, INC.**  
 Job Number: **T4950**  
 Survey Job Type: **Nabors MWD**  
 Customer: **Devon Energy Corporation**  
 Well Name: **White Dove 17 FED COM 3H**  
 Rig Name: **Nabors X20**

Surface: **32 1753.087752N 103 2946.621011W**  
 A.P.I. No: **30-025-34027**  
 Location: **Lea, NM**  
 RKB Height: **32'**  
 Distance to Bit: **59'**

<i>Surveyor Name</i>	<i>Surveyor Title</i>	<i>Borehole Number</i>	<i>Start Depth</i>	<i>End Depth</i>	<i>Start Date</i>	<i>End Date</i>	<i>Type of</i>	<i>TD Straight Line Projection</i>
Joe Moore	MWD Supervisor	OH	268'	15051'	05/22/18	06/04/18	MWD	15110'

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by NABORS DRILLING TECHNOLOGIES USA, INC. I am authorized and qualified to review the data, calculations and these reports; the reports represents true and correct Directional Surveys of this well based on the original data, the minimum curvature method, corrected to #ERROR SET SURVEY CORRECTION ON HEADER and obtained at the well site

Joe Moore  
 MWD Supervisor  
 NABORS DRILLING TECHNOLOGIES USA, INC.



**devon**

## **Devon Energy Corporation**

**Lea Co., NM**

**White Dove**

**17 Fed Com 2H**

**OH**

**HOBBS OCD**

**OCT 01 2018**

**RECEIVED**

**Design: Surveys**

## **Completion Report**

**04 June, 2018**



**NABORS**



Ground Elevation: 3479.20  
 Rig Elevation: 8083.37 Nabors 220 @ 3511.00ft (Nabors 220)  
 Rig Name: Nabors 220

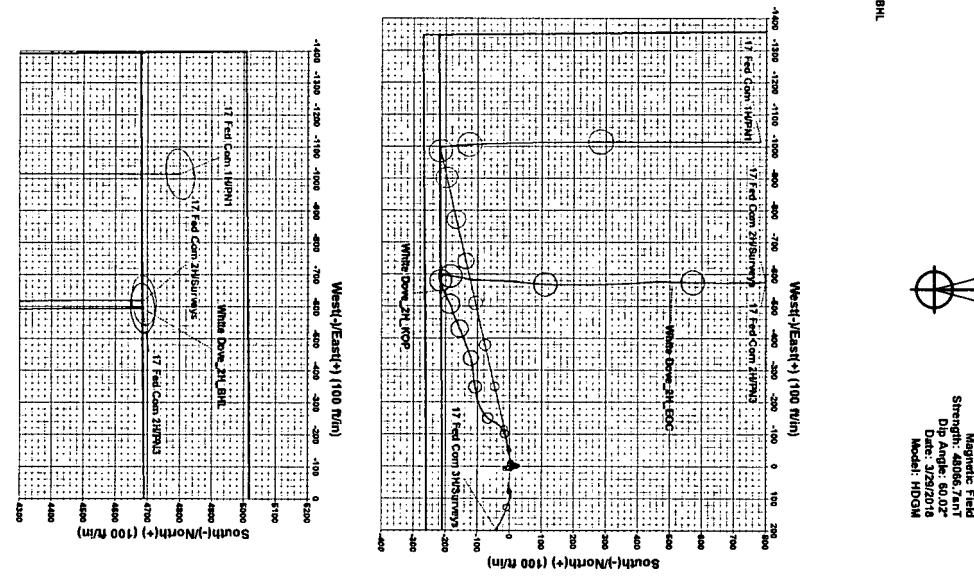
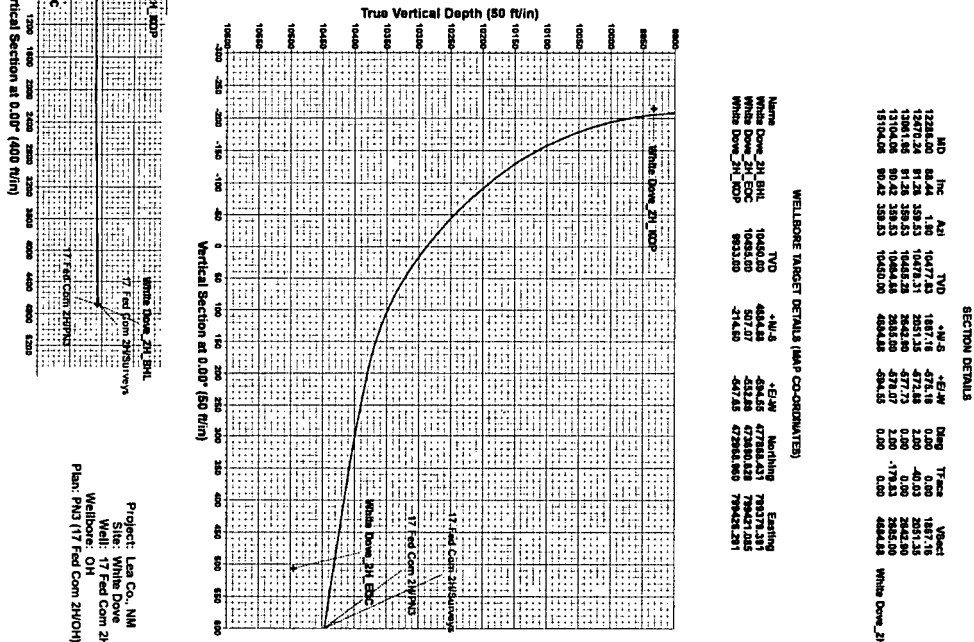
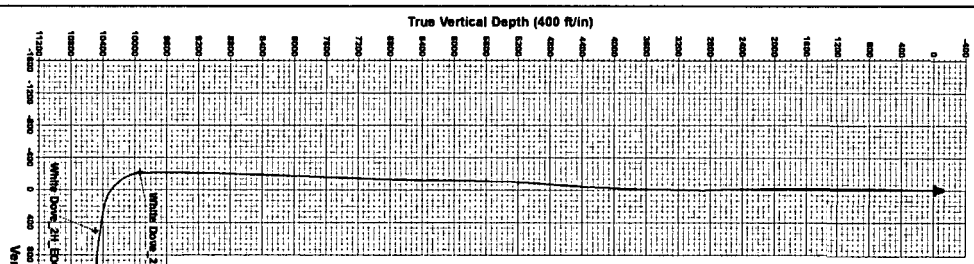
WELL DETAILS: 17 Fed Com 2H  
 +N/S 0.00 +E/W 0.00 Northing 473183.560 Easting 789734.60 32° 17' 53.087752 N 103° 29' 46.531011 W  
 Longitude

SECTION DETAILS

MD	Inc	API	TVD	+W/S	+E/W	Dip	TFac	Vertical
12284.00	88.44	1.80	10477.43	1887.18	-876.18	0.00	0.00	1887.18
12284.00	88.44	1.80	10477.43	1887.18	-876.18	0.00	0.00	1887.18
12801.50	81.28	359.53	10468.21	2642.50	-477.23	0.00	0.00	2642.50
13104.00	80.42	359.53	10464.48	2855.00	-478.07	1.00	-179.21	2855.00
15104.00	80.42	359.53	10450.00	4884.48	-484.55	0.00	0.00	4884.48

WELLSBONE TARGET DETAILS (MAP COORDINATES)

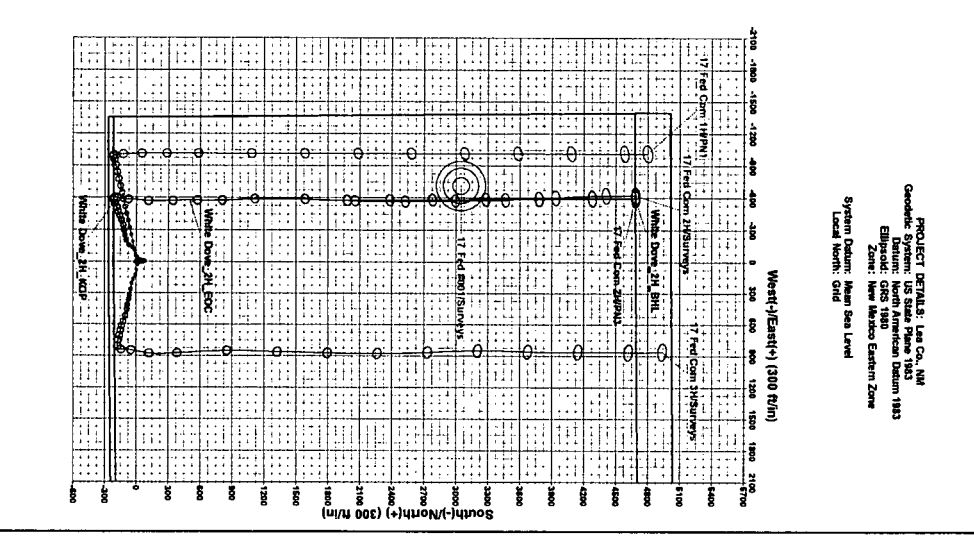
Name	TVD	+W/S	+E/W	Northing	Easting
White Dove 2H BHL	10450.00	4884.48	-484.55	473183.56	789734.60
White Dove 2H EOC	10450.00	807.00	-477.23	473183.56	789734.60
White Dove 2H 200'	8833.00	-714.50	-447.45	473183.56	789734.60



T  
G  
M

Azimuth to Grid North  
 True North: -0.26°  
 Magnetic North: 6.25°

Magnetic Field  
 Strength: 48066.7e1  
 Dip Angle: 60.02°  
 Date: 3/28/2018  
 Model: HDGM



PROJECT DETAILS: Lea Co, NM  
 Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: West North American Eastern Zone  
 System Datum: Mean Sea Level  
 Local North: Grid



Project: Lea Co, NM  
 Site: White Dove  
 Well: 17 Fed Com 2H  
 Wellbore: OH  
 Plan: PMS (17 Fed Com 2H(OH))



**Nabors**  
Completion Report



**Company:** Devon Energy Corporation  
**Project:** Lea Co., NM  
**Site:** White Dove  
**Well:** 17 Fed Com 2H  
**Wellbore:** OH  
**Design:** Surveys

**Local Co-ordinate Reference:** Well 17 Fed Com 2H  
**TVD Reference:** KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
**MD Reference:** KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Ryan USA\_ODBC\_32bit

<b>Project</b>	Lea Co., NM		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	White Dove				
<b>Site Position:</b>	<b>Northing:</b>	473,183.150 usft	<b>Latitude:</b>	32° 17' 53.087557 N	
<b>From:</b> Map	<b>Easting:</b>	799,923.940 usft	<b>Longitude:</b>	103° 29' 47.203545 W	
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.45 °

<b>Well</b>	17 Fed Com 2H					
<b>Well Position</b>	<b>+N-S</b>	0.00 ft	<b>Northing:</b>	473,183.560 usft	<b>Latitude:</b>	32° 17' 53.087752 N
	<b>+E-W</b>	0.00 ft	<b>Easting:</b>	799,973.940 usft	<b>Longitude:</b>	103° 29' 46.621011 W
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	3,479.00 ft	

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	HDGM	3/29/2018	(°)	(°)	(nT)
			6.73	60.02	48,066.70000000

<b>Design</b>	Surveys				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N-S</b>	<b>+E-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	0.00	

<b>Survey Program</b>	<b>Date</b>	6/4/2018		
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(ft)	(ft)			
268.00	15,110.00	Survey #1 - NDS MWD (OH)	MWD+HRGM	OWSG MWD + HRGM

Company: Devon Energy Corporation  
 Project: Lea Co., NM  
 Site: White Dove  
 Well: 17 Fed Com 2H  
 Wellbore: OH  
 Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 2H  
 TVD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 MD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: Ryan USA\_ODBC\_32bit

Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
268.00	1.75	171.17	267.96	-4.04	-4.04	0.63	4.09	171.17	0.65
329.00	1.63	168.71	328.93	-5.82	-5.82	0.94	5.89	170.81	0.23
419.00	1.44	172.40	418.90	-8.19	-8.19	1.34	8.30	170.70	0.24
509.00	1.00	165.20	508.88	-10.07	-10.07	1.69	10.21	170.47	0.52
599.00	0.81	165.02	598.87	-11.45	-11.45	2.06	11.63	169.81	0.21
689.00	0.50	157.11	688.86	-12.42	-12.42	2.37	12.65	169.18	0.36
780.00	0.44	152.19	779.86	-13.10	-13.10	2.69	13.37	168.39	0.08
870.00	0.44	157.11	869.86	-13.72	-13.72	2.99	14.04	167.72	0.04
961.00	0.31	130.92	960.85	-14.20	-14.20	3.31	14.58	166.89	0.23
990.00	0.19	134.96	989.85	-14.29	-14.29	3.40	14.69	166.61	0.42
1,145.00	0.38	114.04	1,144.85	-14.68	-14.68	4.05	15.23	164.57	0.14
1,237.00	0.13	16.84	1,236.85	-14.70	-14.70	4.36	15.34	163.48	0.45
1,327.00	0.31	123.89	1,326.85	-14.74	-14.74	4.59	15.44	162.69	0.41
1,418.00	0.31	133.73	1,417.85	-15.05	-15.05	4.98	15.85	161.70	0.06
1,510.00	0.38	46.02	1,509.85	-15.01	-15.01	5.38	15.94	160.30	0.52
1,604.00	0.56	69.40	1,603.85	-14.63	-14.63	6.03	15.83	157.60	0.28
1,698.00	0.31	106.13	1,697.84	-14.54	-14.54	6.70	16.01	155.25	0.39
1,793.00	0.31	94.71	1,792.84	-14.63	-14.63	7.21	16.31	153.78	0.06
1,887.00	0.31	356.09	1,886.84	-14.40	-14.40	7.44	16.21	152.67	0.50
1,981.00	0.56	17.72	1,980.84	-13.71	-13.71	7.57	15.66	151.11	0.31
2,076.00	0.69	47.77	2,075.83	-12.88	-12.88	8.13	15.23	147.74	0.37
2,170.00	0.63	32.83	2,169.83	-12.07	-12.07	8.83	14.95	143.81	0.19
2,265.00	1.06	51.11	2,264.82	-11.08	-11.08	9.80	14.79	138.51	0.53
2,359.00	1.56	46.37	2,358.79	-9.65	-9.65	11.40	14.93	130.25	0.54
2,454.00	1.81	40.04	2,453.75	-7.61	-7.61	13.30	15.32	119.77	0.33
2,548.00	1.81	359.61	2,547.71	-4.99	-4.99	14.25	15.09	109.29	1.33

Company: Devon Energy Corporation  
 Project: Lea Co., NM  
 Site: White Dove  
 Well: 17 Fed Com 2H  
 Wellbore: OH  
 Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 2H  
 TVD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 MD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: Ryan USA\_ODBC\_32bit

Survey

MD (ft)	Inc (")	Azi (azimuth) (")	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (")	DLeg ("/100ft)
2,642.00	3.00	320.59	2,641.63	-1.60	-1.60	12.67	12.77	97.20	2.08
2,736.00	3.63	294.40	2,735.48	1.53	1.53	8.40	8.54	79.69	1.73
2,831.00	4.88	281.74	2,830.21	3.59	3.59	1.71	3.98	25.41	1.64
2,925.00	6.44	266.45	2,923.76	4.08	4.08	-7.47	8.51	298.64	2.29
3,019.00	6.56	260.12	3,017.15	2.83	2.83	-18.02	18.24	278.93	0.77
3,113.00	5.63	263.11	3,110.62	1.36	1.36	-27.89	27.92	272.79	1.05
3,208.00	5.81	255.55	3,205.15	-0.40	-0.40	-37.17	37.17	269.38	0.81
3,302.00	5.88	250.45	3,298.66	-3.20	-3.20	-46.32	46.43	266.05	0.56
3,397.00	4.44	256.95	3,393.28	-5.66	-5.66	-54.49	54.78	264.07	1.63
3,491.00	5.25	270.49	3,486.94	-6.44	-6.44	-62.33	62.66	264.10	1.49
3,585.00	6.50	259.42	3,580.45	-7.38	-7.38	-71.86	72.24	264.13	1.79
3,679.00	7.25	254.67	3,673.77	-9.93	-9.93	-82.81	83.41	263.16	1.00
3,773.00	5.69	254.32	3,767.17	-12.76	-12.76	-93.02	93.89	262.19	1.66
3,867.00	4.13	249.92	3,860.83	-15.18	-15.18	-100.69	101.82	261.43	1.71
3,961.00	4.81	238.85	3,954.54	-18.38	-18.38	-107.24	108.80	260.28	1.17
4,056.00	4.88	237.62	4,049.20	-22.60	-22.60	-114.06	116.28	258.79	0.13
4,150.00	4.44	235.51	4,142.89	-26.80	-26.80	-120.44	123.38	257.45	0.50
4,244.00	3.31	227.42	4,236.67	-30.70	-30.70	-125.43	129.14	256.25	1.33
4,338.00	3.25	215.47	4,330.52	-34.71	-34.71	-128.98	133.57	254.94	0.73
4,432.00	4.06	212.66	4,424.33	-39.68	-39.68	-132.32	138.14	253.31	0.88
4,527.00	3.88	200.35	4,519.10	-45.52	-45.52	-135.25	142.71	251.40	0.92
4,621.00	5.56	213.89	4,612.78	-52.29	-52.29	-138.90	148.41	249.37	2.13
4,715.00	5.63	207.91	4,706.34	-60.14	-60.14	-143.59	155.68	247.27	0.62
4,810.00	6.19	220.57	4,800.84	-68.15	-68.15	-149.11	163.94	245.44	1.49
4,905.00	6.38	227.42	4,895.27	-75.61	-75.61	-156.33	173.65	244.19	0.81
4,999.00	6.81	239.20	4,988.65	-82.00	-82.00	-164.96	184.22	243.57	1.51
5,078.00	7.06	245.53	5,067.07	-86.41	-86.41	-173.40	193.74	243.51	1.02



Nabors  
Completion Report



Company: Devon Energy Corporation  
 Project: Lea Co., NM  
 Site: White Dove  
 Well: 17 Fed Com 2H  
 Wellbore: OH  
 Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 2H  
 TVD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 MD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: Ryan USA\_ODBC\_32bit

Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)
5,195.00	6.44	244.47	5,183.26	-92.22	-92.22	-185.87	207.48	243.61	0.54
5,289.00	6.69	243.95	5,276.64	-96.89	-96.89	-195.54	218.23	243.64	0.27
5,383.00	6.44	255.90	5,370.03	-100.58	-100.58	-205.57	228.86	243.93	1.47
5,478.00	6.50	262.40	5,464.43	-102.59	-102.59	-216.07	239.19	244.60	0.77
5,571.00	6.25	261.35	5,556.85	-104.05	-104.05	-226.29	249.07	245.31	0.30
5,666.00	6.19	259.77	5,651.29	-105.74	-105.74	-236.45	259.01	245.91	0.19
5,760.00	6.06	259.94	5,744.76	-107.50	-107.50	-246.32	268.76	246.42	0.14
5,854.00	5.69	259.77	5,838.26	-109.20	-109.20	-255.79	278.12	246.88	0.39
5,948.00	5.00	257.13	5,931.85	-110.94	-110.94	-264.37	286.70	247.24	0.78
6,043.00	5.56	264.69	6,026.45	-112.28	-112.28	-272.99	295.18	247.64	0.94
6,137.00	5.56	267.50	6,120.01	-112.90	-112.90	-282.07	303.83	248.19	0.29
6,231.00	5.44	266.27	6,213.58	-113.39	-113.39	-291.07	312.38	248.72	0.18
6,326.00	5.38	263.11	6,308.15	-114.22	-114.22	-299.98	320.99	249.16	0.32
6,420.00	5.19	263.11	6,401.75	-115.26	-115.26	-308.58	329.40	249.52	0.20
6,515.00	5.06	262.23	6,496.37	-116.34	-116.34	-317.00	337.67	249.85	0.16
6,610.00	6.31	256.43	6,590.91	-118.13	-118.13	-326.22	346.95	250.09	1.45
6,704.00	6.81	252.38	6,684.29	-121.03	-121.03	-336.56	357.66	250.22	0.72
6,798.00	6.56	252.56	6,777.65	-124.33	-124.33	-346.99	368.59	250.29	0.27
6,893.00	6.19	250.98	6,872.06	-127.62	-127.62	-357.01	379.13	250.33	0.43
6,987.00	6.50	248.87	6,965.49	-131.19	-131.19	-366.76	389.52	250.32	0.41
7,082.00	6.56	247.29	7,059.87	-135.23	-135.23	-376.78	400.32	250.26	0.20
7,177.00	6.44	247.81	7,154.26	-139.33	-139.33	-386.72	411.06	250.19	0.14
7,271.00	5.88	248.69	7,247.72	-143.07	-143.07	-396.09	421.14	250.14	0.60
7,366.00	5.50	248.16	7,342.25	-146.54	-146.54	-404.85	430.55	250.10	0.40
7,460.00	5.31	247.29	7,435.83	-149.89	-149.89	-413.04	439.40	250.05	0.22
7,553.00	5.00	248.87	7,528.46	-153.01	-153.01	-420.79	447.75	250.02	0.37
7,648.00	5.00	244.30	7,623.09	-156.30	-156.30	-428.39	456.01	249.95	0.42



Nabors  
Completion Report



Company: Devon Energy Corporation  
 Project: Lea Co., NM  
 Site: White Dove  
 Well: 17 Fed Com 2H  
 Wellbore: OH  
 Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 2H  
 TVD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 MD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: Ryan USA\_ODBC\_32bit

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)	
7,741.00	5.13	247.64	7,715.73	-159.64	-159.64	-435.88	464.20	249.88	0.35	
7,836.00	5.13	244.65	7,810.35	-163.07	-163.07	-443.65	472.67	249.82	0.28	
7,930.00	4.63	242.72	7,904.01	-166.61	-166.61	-450.82	480.62	249.72	0.56	
8,024.00	4.94	247.11	7,997.68	-169.93	-169.93	-457.92	488.43	249.64	0.51	
8,117.00	4.69	251.68	8,090.35	-172.68	-172.68	-465.22	496.23	249.64	0.49	
8,211.00	5.25	248.87	8,184.00	-175.44	-175.44	-472.88	504.37	249.65	0.65	
8,306.00	5.50	253.26	8,278.58	-178.31	-178.31	-481.29	513.26	249.67	0.51	
8,400.00	4.94	254.67	8,372.19	-180.68	-180.68	-489.51	521.79	249.74	0.61	
8,494.00	5.13	252.03	8,465.83	-183.05	-183.05	-497.41	530.02	249.80	0.32	
8,588.00	5.75	243.07	8,559.41	-186.48	-186.48	-505.60	538.90	249.75	1.12	
8,682.00	5.44	241.84	8,652.96	-190.71	-190.71	-513.73	547.99	249.63	0.35	
8,776.00	5.63	245.88	8,746.52	-194.70	-194.70	-521.87	557.01	249.54	0.46	
8,870.00	5.19	244.30	8,840.10	-198.43	-198.43	-529.91	565.84	249.47	0.49	
8,964.00	4.88	242.36	8,933.74	-202.13	-202.13	-537.28	574.04	249.38	0.38	
9,058.00	4.50	247.29	9,027.43	-205.41	-205.41	-544.22	581.70	249.32	0.59	
9,153.00	4.56	248.87	9,122.13	-208.21	-208.21	-551.18	589.20	249.31	0.15	
9,248.00	4.56	252.21	9,216.83	-210.72	-210.72	-558.30	596.75	249.32	0.28	
9,343.00	4.44	256.43	9,311.54	-212.74	-212.74	-565.47	604.17	249.38	0.37	
9,437.00	4.31	256.95	9,405.26	-214.39	-214.39	-572.45	611.28	249.47	0.14	
9,531.00	4.00	256.08	9,499.02	-215.98	-215.98	-579.07	618.04	249.55	0.34	
9,626.00	3.19	282.79	9,593.83	-216.19	-216.19	-584.87	623.54	249.71	1.93	
9,719.00	3.00	310.22	9,686.70	-214.04	-214.04	-589.25	626.92	250.04	1.59	
9,813.00	2.63	312.85	9,780.59	-210.99	-210.99	-592.71	629.14	250.41	0.42	
9,876.00	2.38	313.38	9,843.53	-209.11	-209.11	-594.72	630.41	250.63	0.40	
9,907.00	2.25	305.65	9,874.50	-208.31	-208.31	-595.68	631.06	250.73	1.09	
9,938.00	3.00	335.35	9,905.47	-207.22	-207.22	-596.52	631.48	250.84	4.93	





Nabors  
Completion Report



Company: Devon Energy Corporation  
Project: Lea Co., NM  
Site: White Dove  
Well: 17 Fed Com 2H  
Wellbore: OH  
Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 2H  
TVD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
MD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Ryan USA\_ODBC\_32bit

Survey											
MD (ft)	Inc (")	Azi (azimuth) (")	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (")	DLeg ("/100ft)		
9,964.46	5.84	0.58	9,931.85	-205.24	-205.24	-596.79	631.10	251.02	12.76		
<b>White Dove_2H_KOP</b>											
9,970.00	6.50	2.95	9,937.36	-204.65	-204.65	-596.77	630.89	251.07	12.76		
10,002.00	9.88	15.78	9,969.03	-200.19	-200.19	-595.93	628.66	251.43	11.94		
10,033.00	14.13	10.68	9,999.35	-193.91	-193.91	-594.51	625.33	251.93	14.12		
10,065.00	17.68	7.70	10,030.12	-185.26	-185.26	-593.13	621.39	252.65	11.38		
10,096.00	20.88	9.10	10,059.38	-175.13	-175.13	-591.63	617.00	253.51	10.43		
10,141.00	26.56	10.86	10,100.56	-157.32	-157.32	-588.46	609.13	255.03	12.72		
10,191.00	32.50	9.10	10,144.05	-133.06	-133.06	-584.23	599.19	257.17	12.00		
10,236.00	38.19	4.53	10,180.74	-107.23	-107.23	-581.21	591.02	259.55	13.94		
10,285.00	42.50	1.19	10,218.08	-75.56	-75.56	-579.67	584.57	262.57	9.84		
10,330.00	47.06	2.07	10,250.02	-43.88	-43.88	-578.76	580.42	265.66	10.23		
10,379.00	51.75	3.83	10,281.90	-6.74	-6.74	-576.82	576.86	269.33	9.95		
10,424.00	55.88	6.47	10,308.46	29.42	29.42	-573.54	574.30	272.94	10.33		
10,473.00	61.63	4.53	10,333.87	71.10	71.10	-569.55	573.97	277.12	12.21		
10,518.00	67.81	2.42	10,353.08	111.69	111.69	-567.11	578.00	281.14	14.37		
10,566.00	73.44	0.84	10,369.00	156.94	156.94	-565.83	587.19	285.50	12.13		
10,611.00	78.19	359.79	10,380.02	200.55	200.55	-565.59	600.10	289.52	10.80		
10,660.00	79.13	359.08	10,389.66	248.59	248.59	-566.07	618.25	293.71	2.39		
10,705.00	79.81	358.38	10,397.88	292.82	292.82	-567.05	638.19	297.31	2.15		
10,754.00	80.50	357.68	10,406.26	341.07	341.07	-568.71	663.14	300.95	1.99		
10,799.00	81.00	356.97	10,413.49	385.44	385.44	-570.78	688.73	304.03	1.91		
10,848.00	81.81	356.45	10,420.81	433.81	433.81	-573.56	719.14	307.10	1.96		
10,893.00	80.75	1.02	10,427.64	478.26	478.26	-574.55	747.56	309.77	10.31		
10,932.26	81.24	0.88	10,433.78	517.04	517.04	-573.90	772.46	312.02	1.31		
<b>White Dove_2H_EOC</b>											
10,943.00	81.38	0.84	10,435.41	527.65	527.65	-573.75	779.49	312.60	1.31		



Nabors  
Completion Report



Company: Devon Energy Corporation  
 Project: Lea Co., NM  
 Site: White Dove  
 Well: 17 Fed Com 2H  
 Wellbore: OH  
 Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 2H  
 TVD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 MD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: Ryan USA\_ODBC\_32bit

Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)
10,988.00	81.88	0.67	10,441.96	572.17	572.17	-573.16	809.87	314.95	1.17
11,037.00	82.13	0.67	10,448.77	620.69	620.69	-572.59	844.46	317.31	0.51
11,082.00	82.56	0.14	10,454.77	665.28	665.28	-572.28	877.55	319.30	1.51
11,131.00	82.69	359.79	10,461.06	713.88	713.88	-572.31	914.96	321.28	0.76
11,176.00	83.50	359.08	10,466.47	758.55	758.55	-572.75	950.49	322.95	2.39
11,225.00	83.81	358.38	10,471.88	807.24	807.24	-573.83	990.41	324.59	1.55
11,257.00	84.25	358.20	10,475.21	839.05	839.05	-574.78	1,017.04	325.59	1.48
11,320.00	86.75	357.68	10,480.15	901.81	901.81	-577.03	1,070.62	327.39	4.05
11,346.00	88.63	357.68	10,481.20	927.77	927.77	-578.09	1,093.13	328.07	7.23
11,439.00	89.88	356.97	10,482.41	1,020.65	1,020.65	-582.43	1,175.14	330.29	1.55
11,533.00	90.56	358.03	10,482.05	1,114.56	1,114.56	-586.53	1,259.47	332.24	1.34
11,627.00	90.00	0.31	10,481.59	1,208.54	1,208.54	-587.89	1,343.95	334.06	2.50
11,722.00	89.69	0.14	10,481.85	1,303.54	1,303.54	-587.51	1,429.82	335.74	0.37
11,816.00	91.25	0.14	10,481.07	1,397.54	1,397.54	-587.28	1,515.92	337.21	1.66
11,910.00	92.69	0.14	10,477.84	1,491.48	1,491.48	-587.05	1,602.85	338.52	1.53
12,004.00	90.13	2.25	10,475.53	1,585.42	1,585.42	-585.09	1,689.93	339.74	3.53
12,098.00	91.50	2.25	10,474.19	1,679.33	1,679.33	-581.40	1,777.13	340.90	1.46
12,192.00	87.81	1.72	10,474.76	1,773.26	1,773.26	-578.15	1,865.13	341.94	3.97
12,286.00	88.44	1.90	10,477.83	1,867.16	1,867.16	-575.18	1,953.74	342.88	0.70
12,380.00	89.94	2.07	10,479.16	1,961.09	1,961.09	-571.93	2,042.79	343.74	1.61
12,474.00	91.19	1.90	10,478.24	2,055.03	2,055.03	-568.67	2,132.26	344.53	1.34
12,569.00	92.63	2.42	10,475.07	2,149.90	2,149.90	-565.09	2,222.93	345.27	1.61
12,663.00	89.56	0.49	10,473.27	2,243.84	2,243.84	-562.71	2,313.32	345.92	3.86
12,756.00	90.63	359.79	10,473.12	2,336.84	2,336.84	-562.48	2,403.58	346.47	1.37
12,851.00	91.56	359.96	10,471.30	2,431.82	2,431.82	-562.69	2,496.07	346.97	1.00
12,945.00	89.63	359.26	10,470.33	2,525.81	2,525.81	-563.33	2,587.87	347.43	2.18
13,039.00	90.31	359.08	10,470.38	2,619.80	2,619.80	-564.69	2,679.97	347.84	0.75

Company: Devon Energy Corporation  
 Project: Lea Co., NM  
 Site: White Dove  
 Well: 17 Fed Com 2H  
 Wellbore: OH  
 Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 2H  
 TVD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 MD Reference: KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Database: Ryan USA\_ODBC\_32bit

Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)
13,133.00	91.25	359.26	10,469.10	2,713.78	2,713.78	-566.05	2,772.18	348.22	1.02
13,227.00	92.44	358.91	10,466.07	2,807.72	2,807.72	-567.55	2,864.50	348.57	1.32
13,322.00	89.94	359.96	10,464.10	2,902.68	2,902.68	-568.49	2,957.83	348.92	2.85
13,416.00	89.63	359.43	10,464.45	2,996.68	2,996.68	-568.99	3,050.22	349.25	0.65
13,510.00	90.63	359.43	10,464.24	3,090.67	3,090.67	-569.92	3,142.78	349.55	1.06
13,604.00	91.94	359.79	10,462.13	3,184.65	3,184.65	-570.56	3,235.35	349.84	1.45
13,698.00	90.19	358.38	10,460.38	3,278.61	3,278.61	-572.06	3,328.14	350.10	2.39
13,792.00	91.56	358.38	10,458.95	3,372.56	3,372.56	-574.72	3,421.18	350.33	1.46
13,886.00	88.88	357.68	10,458.59	3,466.49	3,466.49	-577.95	3,514.34	350.53	2.95
13,981.00	89.69	357.33	10,459.77	3,561.40	3,561.40	-582.09	3,608.65	350.72	0.93
14,075.00	91.00	357.15	10,459.21	3,655.28	3,655.28	-586.61	3,702.06	350.88	1.41
14,169.00	89.69	357.50	10,458.64	3,749.18	3,749.18	-591.00	3,795.47	351.04	1.44
14,263.00	90.50	358.20	10,458.48	3,843.11	3,843.11	-594.53	3,888.82	351.21	1.14
14,357.00	92.19	358.03	10,456.28	3,937.03	3,937.03	-597.62	3,982.13	351.37	1.81
14,452.00	92.13	355.74	10,452.70	4,031.82	4,031.82	-602.77	4,076.63	351.50	2.41
14,547.00	91.19	356.62	10,449.94	4,126.56	4,126.56	-609.10	4,171.27	351.60	1.36
14,641.00	89.44	358.38	10,449.43	4,220.46	4,220.46	-613.20	4,264.78	351.73	2.64
14,736.00	90.63	358.56	10,449.37	4,315.43	4,315.43	-615.74	4,359.13	351.88	1.27
14,831.00	91.13	359.43	10,447.91	4,410.40	4,410.40	-617.40	4,453.41	352.03	1.06
14,925.00	92.13	359.96	10,445.24	4,504.36	4,504.36	-617.90	4,546.54	352.19	1.20
15,019.00	93.81	359.79	10,440.37	4,598.23	4,598.23	-618.11	4,639.59	352.34	1.80
15,051.00	94.44	359.79	10,438.06	4,630.15	4,630.15	-618.22	4,671.24	352.39	1.97
15,104.56	94.44	359.79	10,433.92	4,683.54	4,683.54	-618.42	4,724.20	352.48	0.00
White Dove_2H_BHL									
15,110.00	94.44	359.79	10,433.50	4,688.97	4,688.97	-618.44	4,729.58	352.49	0.00



**Nabors**  
Completion Report



**Company:** Devon Energy Corporation  
**Project:** Lea Co., NM  
**Site:** White Dove  
**Well:** 17 Fed Com 2H  
**Wellbore:** OH  
**Design:** Surveys

**Local Co-ordinate Reference:** Well 17 Fed Com 2H  
**TVD Reference:** KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
**MD Reference:** KB=32' (Nabors X20) @ 3511.00ft (Nabors X20)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Ryan USA\_ODBC\_32bit

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------