



NABORS DRILLING TECHNOLOGIES USA, INC.

515 West Greens Road

Houston, TX 77067

Phone: 281.874.0035

Fax: 281.872.5205

Saturday, May 19, 2018

State of New Mexico

HOBBS OCD

OCT 01 2018

RECEIVED

Subject: Survey Certification Letter

Survey Company: NABORS DRILLING TECH USA, INC.

Job Number: T4949

Survey Job Type: Nabors MWD

Customer: Devon Energy Corporation

Well Name: White Dove 17 FED COM 3H

Rig Name: Nabors X20

Surface: 3217 53.088039N 10329 46.037542W

A.P.I. No: 3002543028

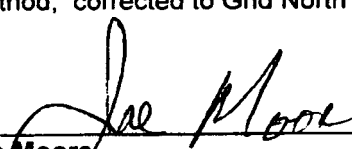
Location: NM

RKB Height: 32'

Distance to Bit: 63'

Surveyor Name	Surveyor Title	Borehole Number	Start Depth	End Depth	Start Date	End Date	Type of	TD Straight
								Line Projection
Joe Moore	MWD Supervisor	OH	258'	15367'	05/02/18	05/19/18	MWD	15430'

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 Grid North 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 3H

OH

Design: Surveys

Completion Report

22 May, 2018

HOBBS OCD

OCT 01 2018

RECEIVED



devon

WELL DETAILS: 17 Fed Com 3H

Ground Elevation: 3478.00
RKB Elevation: KB+32' (Nabors X20) @ 3511.00ft (Nabors X20)
Rig Name: Nabors X20

+N/-S	+E/-W	Northing	Easting	32° 17'	Latitude	Longitude
0.00	0.00	473163.980	800024.020	32° 17' 53.086039 N	103° 29' 46.037542 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
3191.04	6.91	104.32	3189.37	-10.30	40.33	1.00	104.32	-10.30
3366.28	6.91	104.32	3316.73	-194.12	760.22	0.00	0.00	-194.12
9693.82	2.00	104.32	9648.00	-203.41	794.85	1.50	-180.00	-203.41
9993.81	2.00	104.32	9948.00	-203.00	795.00	0.00	0.00	-203.00
10804.37	90.56	0.00	10523.54	375.55	814.76	10.00	-104.29	375.55
16344.53	90.56	0.00	10480.00	4815.80	814.96	0.00	0.00	4815.80

White Dove_3H_KOP
White Dove_3H_TD



Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.29°

Magnetic Field
Strength: 48053.8anT
Dip Angle: 60.00°
Date: 4/27/2018
Model: HDGM

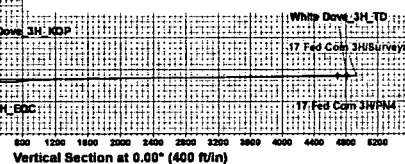
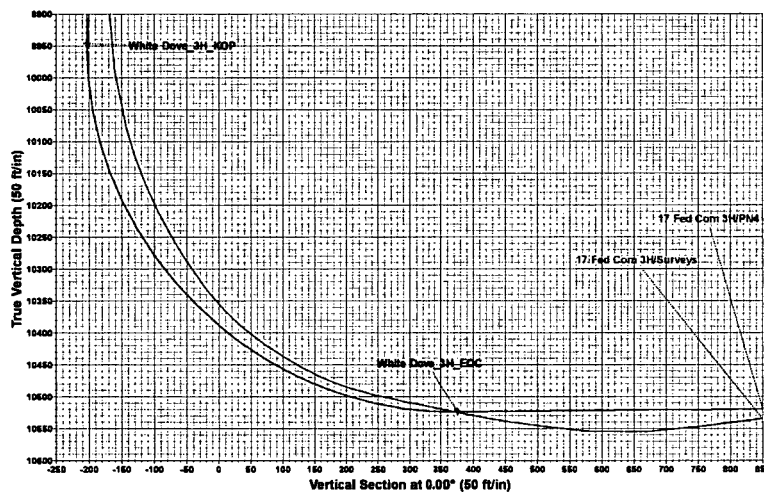


PROJECT DETAILS: Lea Co., NM
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

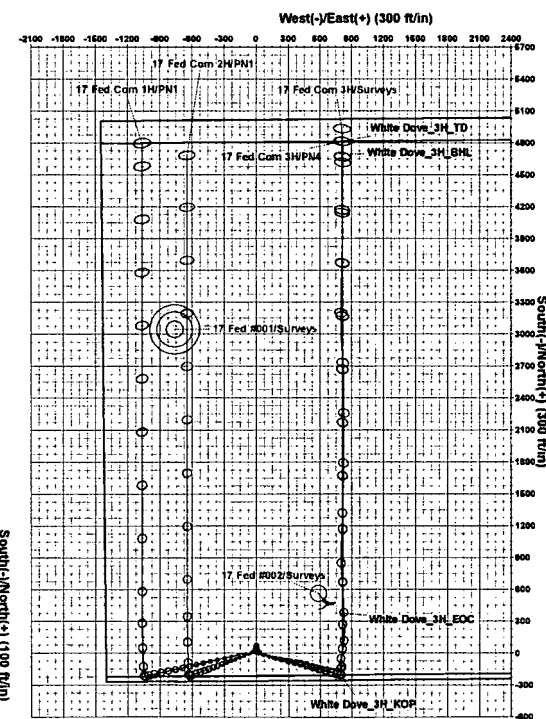
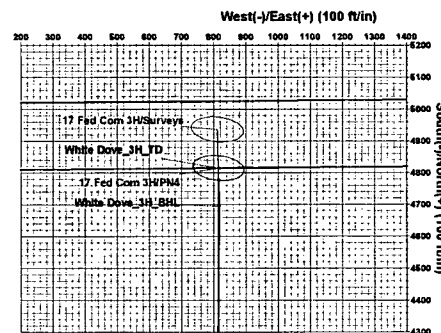
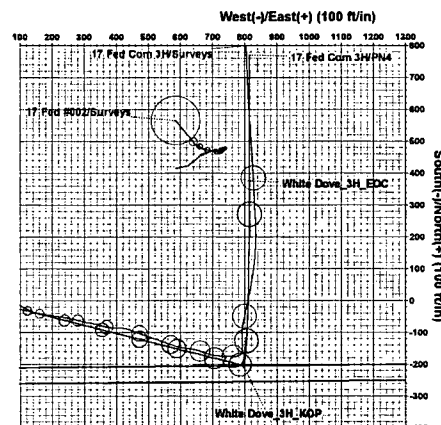
System Datum: Mean Sea Level
Local North: Grid

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
White Dove_3H_BHL	10480.00	4895.33	814.96	477875.300	800838.980
White Dove_3H_EDC	10523.54	375.55	814.76	473588.530	800838.790
White Dove_3H_KOP	9948.00	-203.00	795.00	473889.880	800819.518
White Dove_3H_TD	10480.00	4815.80	814.96	477995.570	800838.978



Project: Lea Co., NM
Site: White Dove
Well: 17 Fed Com 3H
Wellbore: OH
Plan: PN4 (17 Fed Com 3H/OH)



Company: Devon Energy Corporation
Project: Lea Co., NM
Site: White Dove
Well: 17 Fed Com 3H
Wellbore: OH
Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 3H
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

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

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

Well	17 Fed Com 3H		
Well Position	+N/-S	0.00 ft	Northing: 473,183.980 usft
	+E/-W	0.00 ft	Easting: 800,024.020 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 17' 53.088039 N
		Longitude:	103° 29' 46.037542 W
		Ground Level:	3,479.00 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	HDGM	4/27/2018	(°)
			6.73
			Dip Angle (°)
			60.00
			Field Strength (nT)
			48,053.800000000

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

Survey Program	Date	5/22/2018		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
258.00	15,430.00	Survey #1 (OH)	MWD+HRGM	OWSG MWD + HRGM



Nabors
Completion Report



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Wellbore: OH
Design: Surveys

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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
258.00	1.25	112.99	257.98	-1.10	-1.10	2.59	2.81	112.99	0.48
320.00	1.69	108.59	319.96	-1.65	-1.65	4.08	4.40	112.08	0.73
414.00	1.75	100.68	413.92	-2.36	-2.36	6.80	7.20	109.15	0.26
507.00	1.50	91.19	506.88	-2.65	-2.65	9.42	9.78	105.72	0.39
600.00	1.25	96.82	599.85	-2.80	-2.80	11.64	11.97	103.51	0.31
693.00	1.31	82.23	692.83	-2.77	-2.77	13.70	13.98	101.44	0.36
786.00	1.06	79.06	785.81	-2.47	-2.47	15.60	15.79	98.99	0.28
879.00	0.94	79.94	878.80	-2.17	-2.17	17.19	17.33	97.19	0.13
967.00	1.06	83.99	966.78	-1.96	-1.96	18.72	18.82	95.97	0.16
1,147.00	0.75	84.69	1,146.76	-1.68	-1.68	21.54	21.61	94.45	0.17
1,237.00	0.75	90.84	1,236.75	-1.63	-1.63	22.72	22.78	94.10	0.09
1,329.00	0.75	97.52	1,328.74	-1.72	-1.72	23.92	23.98	94.11	0.09
1,420.00	0.63	92.42	1,419.74	-1.82	-1.82	25.01	25.07	94.15	0.15
1,512.00	0.69	77.48	1,511.73	-1.72	-1.72	26.05	26.11	93.77	0.20
1,605.00	0.56	69.04	1,604.73	-1.43	-1.43	27.03	27.06	93.04	0.17
1,699.00	0.44	66.23	1,698.72	-1.12	-1.12	27.79	27.81	92.32	0.13
1,794.00	0.50	70.10	1,793.72	-0.84	-0.84	28.51	28.52	91.68	0.07
1,888.00	0.38	49.71	1,887.72	-0.49	-0.49	29.13	29.14	90.97	0.21
1,983.00	0.25	73.26	1,982.71	-0.23	-0.23	29.57	29.57	90.45	0.19
2,078.00	0.25	21.93	2,077.71	0.02	0.02	29.85	29.85	89.96	0.23
2,172.00	0.38	47.07	2,171.71	0.42	0.42	30.15	30.15	89.20	0.20
2,266.00	0.69	21.23	2,265.71	1.16	1.16	30.58	30.61	87.82	0.41
2,361.00	0.88	22.46	2,360.70	2.37	2.37	31.07	31.16	85.64	0.20
2,455.00	1.19	27.91	2,454.68	3.90	3.90	31.80	32.04	83.01	0.35
2,550.00	2.06	69.22	2,549.65	5.38	5.38	33.86	34.29	80.98	1.48
2,644.00	3.50	93.48	2,643.54	5.80	5.80	38.31	38.74	81.39	1.95



Nabors
Completion Report



Company: Devon Energy Corporation
Project: Lea Co., NM
Site: White Dove
Well: 17 Fed Com 3H
Wellbore: OH
Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 3H
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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)	
2,738.00	5.44	99.98	2,737.25	4.86	4.86	45.56	45.82	83.91	2.13	
2,832.00	7.19	112.99	2,830.68	1.79	1.79	55.36	55.39	88.15	2.39	
2,926.00	7.63	114.04	2,923.89	-3.05	-3.05	66.48	66.55	92.63	0.49	
3,021.00	7.44	109.83	3,018.07	-7.71	-7.71	78.02	78.40	95.64	0.61	
3,115.00	7.63	106.31	3,111.26	-11.53	-11.53	89.74	90.48	97.32	0.53	
3,209.00	6.75	111.93	3,204.52	-15.34	-15.34	100.85	102.01	98.65	1.20	
3,304.00	5.19	121.43	3,299.01	-19.67	-19.67	109.70	111.45	100.16	1.94	
3,398.00	4.94	116.86	3,392.64	-23.71	-23.71	116.94	119.32	101.46	0.50	
3,493.00	4.63	117.38	3,487.31	-27.32	-27.32	123.99	126.97	102.43	0.33	
3,586.00	4.25	119.49	3,580.03	-30.75	-30.75	130.32	133.90	103.28	0.44	
3,680.00	3.94	118.61	3,673.79	-34.01	-34.01	136.19	140.37	104.02	0.34	
3,775.00	4.69	107.54	3,768.52	-36.74	-36.74	142.76	147.41	104.43	1.18	
3,869.00	6.06	100.51	3,862.11	-38.81	-38.81	151.30	156.20	104.38	1.61	
3,963.00	6.75	101.56	3,955.52	-40.82	-40.82	161.59	166.67	104.18	0.74	
4,057.00	6.63	99.81	4,048.88	-42.85	-42.85	172.35	177.60	103.96	0.25	
4,151.00	6.38	97.52	4,142.28	-44.46	-44.46	182.88	188.20	103.66	0.38	
4,245.00	7.19	98.75	4,235.62	-46.04	-46.04	193.87	199.26	103.36	0.88	
4,340.00	8.06	97.87	4,329.78	-47.85	-47.85	206.34	211.82	103.06	0.92	
4,434.00	8.63	97.17	4,422.78	-49.63	-49.63	219.87	225.40	102.72	0.62	
4,528.00	8.44	99.10	4,515.74	-51.61	-51.61	233.68	239.31	102.45	0.37	
4,622.00	7.94	101.92	4,608.78	-54.04	-54.04	246.84	252.69	102.35	0.68	
4,717.00	7.75	101.39	4,702.89	-56.66	-56.66	259.54	265.65	102.31	0.21	
4,812.00	6.31	104.90	4,797.18	-59.27	-59.27	270.87	277.27	102.34	1.58	
4,906.00	5.69	105.43	4,890.66	-61.83	-61.83	280.35	287.09	102.44	0.66	
5,000.00	5.00	102.79	4,984.25	-63.98	-63.98	288.84	295.84	102.49	0.78	
5,045.00	4.63	103.67	5,029.09	-64.84	-64.84	292.51	299.61	102.50	0.84	
5,194.00	4.38	99.63	5,177.63	-67.22	-67.22	303.97	311.31	102.47	0.27	

Company: Devon Energy Corporation
Project: Lea Co., NM
Site: White Dove
Well: 17 Fed Com 3H
Wellbore: OH
Design: Surveys

Local Co-ordinate Reference: Well 17 Fed Com 3H
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Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)
5,288.00	4.69	100.51	5,271.34	-68.52	-68.52	311.28	318.74	102.41	0.34
5,382.00	4.50	99.10	5,365.04	-69.80	-69.80	318.70	326.26	102.35	0.24
5,477.00	5.81	103.50	5,459.85	-71.51	-71.51	327.06	334.79	102.33	1.44
5,570.00	6.88	105.25	5,552.08	-74.08	-74.08	337.01	345.06	102.40	1.17
5,665.00	6.88	105.08	5,646.39	-77.06	-77.06	347.99	356.42	102.49	0.02
5,759.00	6.94	104.20	5,739.71	-79.91	-79.91	358.94	367.72	102.55	0.13
5,853.00	6.06	102.97	5,833.11	-82.42	-82.42	369.28	378.36	102.58	0.95
5,947.00	5.19	99.98	5,926.65	-84.27	-84.27	378.30	387.57	102.56	0.98
6,042.00	4.88	92.07	6,021.29	-85.16	-85.16	386.57	395.84	102.42	0.80
6,136.00	5.19	95.24	6,114.92	-85.69	-85.69	394.80	403.99	102.25	0.44
6,230.00	6.06	90.49	6,208.47	-86.12	-86.12	403.99	413.07	102.03	1.05
6,325.00	6.38	86.45	6,302.91	-85.84	-85.84	414.28	423.08	101.71	0.57
6,419.00	6.56	99.81	6,396.32	-86.43	-86.43	424.78	433.49	101.50	1.61
6,514.00	8.19	109.65	6,490.53	-89.63	-89.63	436.50	445.61	101.60	2.16
6,609.00	8.00	110.18	6,584.59	-94.19	-94.19	449.08	458.85	101.85	0.21
6,703.00	7.50	109.83	6,677.73	-98.53	-98.53	460.99	471.40	102.06	0.53
6,797.00	7.19	110.70	6,770.96	-102.69	-102.69	472.26	483.30	102.27	0.35
6,892.00	7.00	110.35	6,865.23	-106.80	-106.80	483.25	494.91	102.46	0.21
6,986.00	6.88	108.77	6,958.54	-110.60	-110.60	493.95	506.19	102.62	0.24
7,081.00	6.94	108.95	7,052.85	-114.30	-114.30	504.77	517.55	102.76	0.07
7,176.00	6.94	108.95	7,147.15	-118.03	-118.03	515.63	528.96	102.89	0.00
7,270.00	6.19	110.53	7,240.54	-121.65	-121.65	525.74	539.63	103.03	0.82
7,364.00	5.13	113.87	7,334.08	-125.13	-125.13	534.33	548.79	103.18	1.18
7,459.00	6.00	106.66	7,428.63	-128.27	-128.27	542.97	557.92	103.29	1.17
7,552.00	6.19	107.54	7,521.11	-131.17	-131.17	552.41	567.77	103.36	0.23
7,646.00	5.69	110.18	7,614.60	-134.31	-134.31	561.62	577.45	103.45	0.61
7,740.00	5.06	112.99	7,708.19	-137.53	-137.53	569.81	586.17	103.57	0.73

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7,834.00	4.88	104.55	7,801.83	-140.16	-140.16	577.49	594.26	103.64	0.80
7,929.00	4.56	107.89	7,896.51	-142.33	-142.33	585.00	602.07	103.67	0.44
8,023.00	6.06	104.02	7,990.11	-144.68	-144.68	593.37	610.75	103.70	1.64
8,116.00	5.38	103.15	8,082.64	-146.86	-146.86	602.38	620.02	103.70	0.74
8,210.00	6.88	100.16	8,176.10	-148.86	-148.86	612.21	630.05	103.67	1.63
8,305.00	6.50	97.87	8,270.46	-150.60	-150.60	623.14	641.08	103.59	0.49
8,399.00	5.63	96.11	8,363.93	-151.82	-151.82	632.99	650.95	103.49	0.95
8,493.00	5.44	95.76	8,457.49	-152.76	-152.76	642.01	659.94	103.38	0.21
8,587.00	6.19	106.13	8,551.01	-154.61	-154.61	651.31	669.41	103.35	1.37
8,681.00	6.38	110.35	8,644.44	-157.84	-157.84	661.08	679.66	103.43	0.53
8,775.00	5.75	113.17	8,737.92	-161.51	-161.51	670.31	689.49	103.55	0.74
8,869.00	4.75	107.36	8,831.52	-164.52	-164.52	678.35	698.02	103.63	1.20
8,963.00	5.25	108.59	8,925.17	-167.05	-167.05	686.14	706.18	103.68	0.54
9,057.00	5.25	103.85	9,018.77	-169.45	-169.45	694.39	714.77	103.71	0.46
9,152.00	7.19	100.16	9,113.21	-171.54	-171.54	704.47	725.05	103.69	2.08
9,247.00	6.38	95.59	9,207.54	-173.11	-173.11	715.57	736.21	103.60	1.02
9,342.00	5.94	92.07	9,301.99	-173.80	-173.80	725.74	746.26	103.47	0.61
9,436.00	8.69	94.53	9,395.22	-174.53	-174.53	737.68	758.04	103.31	2.94
9,530.00	8.06	89.96	9,488.22	-175.09	-175.09	751.35	771.48	103.12	0.97
9,625.00	6.31	88.56	9,582.47	-174.95	-174.95	763.23	783.02	102.91	1.85
9,718.00	5.31	82.93	9,674.99	-174.30	-174.30	772.61	792.02	102.71	1.24
9,812.00	4.13	73.61	9,768.67	-172.81	-172.81	780.17	799.08	102.49	1.49
9,906.00	3.38	75.20	9,862.47	-171.14	-171.14	786.10	804.51	102.28	0.81
9,987.07	6.31	24.04	9,943.27	-166.46	-166.46	790.22	807.57	101.90	6.10
White Dove_3H_KOP									
10,031.00	8.69	14.55	9,986.83	-161.05	-161.05	792.04	808.25	101.49	6.10
10,125.00	13.94	357.85	10,078.99	-142.84	-142.84	793.40	806.16	100.21	6.53



Nabors
Completion Report



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Site: White Dove
Well: 17 Fed Com 3H
Wellbore: OH
Design: Surveys

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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)
10,170.00	18.88	354.86	10,122.15	-130.16	-130.16	792.55	803.16	99.33	11.13
10,220.00	22.38	357.15	10,168.93	-112.59	-112.59	791.35	799.32	98.10	7.18
10,265.00	26.13	4.53	10,209.96	-94.15	-94.15	791.70	797.28	96.78	10.70
10,314.00	29.69	9.81	10,253.26	-71.42	-71.42	794.63	797.83	95.14	8.84
10,359.00	33.31	12.27	10,291.63	-48.36	-48.36	799.15	800.61	93.46	8.54
10,408.00	38.63	12.44	10,331.27	-20.26	-20.26	805.31	805.57	91.44	10.86
10,453.00	44.88	11.91	10,364.82	9.02	9.02	811.62	811.67	89.36	13.91
10,502.00	51.56	10.33	10,397.45	44.86	44.86	818.64	819.86	86.86	13.84
10,547.00	56.56	8.22	10,423.86	80.81	80.81	824.49	828.44	84.40	11.74
10,595.00	60.19	6.29	10,449.03	121.34	121.34	829.63	838.46	81.68	8.30
10,640.00	65.69	3.13	10,469.49	161.26	161.26	832.89	848.36	79.04	13.73
10,689.00	73.06	0.49	10,486.74	207.06	207.06	834.32	859.63	76.06	15.86
10,734.00	76.94	356.09	10,498.39	250.49	250.49	833.00	869.85	73.26	12.79
10,777.00	78.19	357.50	10,507.65	292.41	292.41	830.66	880.62	70.61	4.32
10,862.22	78.64	357.66	10,524.77	375.82	375.82	827.13	908.51	65.56	0.56
White Dove_3H_EOC									
10,872.00	78.69	357.68	10,526.69	385.40	385.40	826.74	912.16	65.01	0.56
10,966.00	82.13	355.22	10,542.35	477.89	477.89	821.00	949.95	59.80	4.48
11,060.00	84.56	356.62	10,553.24	571.01	571.01	814.36	994.60	54.96	2.98
11,155.00	93.75	357.85	10,554.64	665.78	665.78	809.78	1,048.34	50.57	9.76
11,249.00	97.13	357.33	10,545.73	759.26	759.26	805.85	1,107.19	46.70	3.64
11,343.00	97.00	358.03	10,534.17	852.47	852.47	802.07	1,170.48	43.26	0.75
11,438.00	92.56	0.84	10,526.26	947.11	947.11	801.15	1,240.50	40.23	5.53
11,532.00	92.19	2.25	10,522.36	1,040.99	1,040.99	803.68	1,315.13	37.67	1.55
11,626.00	92.81	2.60	10,518.26	1,134.81	1,134.81	807.65	1,392.88	35.44	0.76
11,721.00	91.63	2.25	10,514.58	1,229.66	1,229.66	811.67	1,473.38	33.43	1.30
11,815.00	90.06	0.31	10,513.19	1,323.61	1,323.61	813.77	1,553.76	31.58	2.65



Nabors
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Survey

MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)
11,909.00	90.75	0.49	10,512.53	1,417.61	1,417.61	814.42	1,634.90	29.88	0.76
12,003.00	92.63	1.54	10,509.76	1,511.55	1,511.55	816.09	1,717.78	28.36	2.29
12,097.00	90.06	1.72	10,507.55	1,605.48	1,605.48	818.76	1,802.20	27.02	2.74
12,191.00	89.69	1.72	10,507.76	1,699.43	1,699.43	821.58	1,887.61	25.80	0.39
12,285.00	90.94	2.25	10,507.24	1,793.37	1,793.37	824.84	1,973.97	24.70	1.44
12,379.00	90.44	0.49	10,506.11	1,887.34	1,887.34	827.08	2,060.61	23.66	1.95
12,473.00	91.44	0.67	10,504.57	1,981.32	1,981.32	828.04	2,147.38	22.68	1.08
12,568.00	90.56	0.67	10,502.91	2,076.30	2,076.30	829.15	2,235.73	21.77	0.93
12,662.00	89.44	359.61	10,502.91	2,170.29	2,170.29	829.38	2,323.37	20.91	1.64
12,755.00	91.06	359.96	10,502.50	2,263.29	2,263.29	829.03	2,410.34	20.12	1.78
12,850.00	91.13	359.79	10,500.69	2,358.27	2,358.27	828.82	2,499.68	19.36	0.19
12,944.00	91.69	359.08	10,498.37	2,452.24	2,452.24	827.89	2,588.22	18.66	0.96
13,038.00	89.25	358.56	10,497.60	2,546.21	2,546.21	825.96	2,676.82	17.97	2.65
13,132.00	89.31	357.68	10,498.78	2,640.15	2,640.15	822.87	2,765.41	17.31	0.94
13,226.00	90.00	356.97	10,499.35	2,734.04	2,734.04	818.49	2,853.93	16.67	1.05
13,321.00	90.81	356.09	10,498.68	2,828.86	2,828.86	812.74	2,943.30	16.03	1.26
13,415.00	90.75	357.15	10,497.40	2,922.69	2,922.69	807.20	3,032.11	15.44	1.13
13,509.00	90.63	357.50	10,496.27	3,016.58	3,016.58	802.81	3,121.58	14.90	0.39
13,603.00	90.13	0.31	10,495.64	3,110.55	3,110.55	801.01	3,212.03	14.44	3.04
13,697.00	90.75	0.49	10,494.92	3,204.55	3,204.55	801.67	3,303.30	14.05	0.69
13,791.00	92.38	358.91	10,492.35	3,298.50	3,298.50	801.18	3,394.41	13.65	2.41
13,885.00	90.63	1.90	10,489.88	3,392.45	3,392.45	801.84	3,485.93	13.30	3.68
13,980.00	91.63	1.54	10,488.01	3,487.39	3,487.39	804.69	3,579.03	12.99	1.12
14,074.00	89.00	2.07	10,487.49	3,581.33	3,581.33	807.65	3,671.28	12.71	2.85
14,168.00	90.00	1.54	10,488.31	3,675.28	3,675.28	810.62	3,763.62	12.44	1.20
14,262.00	91.50	1.90	10,487.08	3,769.23	3,769.23	813.44	3,856.00	12.18	1.64
14,356.00	88.81	0.31	10,486.83	3,863.20	3,863.20	815.25	3,948.28	11.92	3.32



Nabors
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MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)
14,451.00	89.63	359.96	10,488.12	3,958.19	3,958.19	815.47	4,041.32	11.64	0.94
14,546.00	90.94	359.26	10,487.65	4,053.18	4,053.18	814.83	4,134.28	11.37	1.56
14,640.00	91.75	358.56	10,485.44	4,147.14	4,147.14	813.04	4,226.09	11.09	1.14
14,735.00	89.81	1.02	10,484.15	4,242.12	4,242.12	812.69	4,319.26	10.85	3.30
14,829.00	90.13	0.49	10,484.20	4,336.11	4,336.11	813.93	4,411.84	10.63	0.66
14,924.00	91.38	0.14	10,482.95	4,431.10	4,431.10	814.45	4,505.33	10.41	1.37
15,018.00	88.69	1.02	10,482.89	4,525.08	4,525.08	815.40	4,597.96	10.21	3.01
15,113.00	88.94	0.49	10,484.86	4,620.05	4,620.05	816.65	4,691.68	10.02	0.62
15,188.23	89.74	359.64	10,485.72	4,695.28	4,695.28	816.74	4,765.78	9.87	1.55
White Dove_3H_BHL									
15,207.00	89.94	359.43	10,485.77	4,714.05	4,714.05	816.59	4,784.25	9.83	1.55
15,302.00	91.06	358.73	10,484.95	4,809.03	4,809.03	815.06	4,877.61	9.62	1.39
15,308.70	91.16	358.69	10,484.82	4,815.73	4,815.73	814.91	4,884.19	9.60	1.63
White Dove_3H_TD									
15,367.00	92.06	358.38	10,483.18	4,873.98	4,873.98	813.43	4,941.39	9.47	1.63
15,430.00	92.06	358.38	10,480.91	4,936.92	4,936.92	811.65	5,003.19	9.34	0.00
PTB									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
15,430.00	10,480.91	4,936.92	811.65	PTB

Checked By: _____ Approved By: _____ Date: _____