



EOG Resources - Midland

Eddy County, NM (NAD 27 NME)

Terlingua 23 State

#501H

OH

30-015-44052

Survey: Intrepid MWD #1

EOG PVA

17 April, 2017

Provide signature page for survey

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EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Eddy County, NM (NAD 27 NME)
Site: Terlingua 23 State
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3474.0usft (H&P 653)
MD Reference: KB = 25' @ 3474.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project: Eddy County, NM (NAD 27 NME)
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Site: Terlingua 23 State
Site Position:
From: Map
Position Uncertainty: 0.0 usft

Northing: 628,015.00 usft
Easting: 591,002.00 usft
Slot Radius: 13-3/16 "

Latitude: 32° 43' 34.176 N
Longitude: 104° 2' 14.706 W
Grid Convergence: 0.16 °

Well: #501H
Well Position: +N/-S 0.0 usft
+E/-W 0.0 usft
Position Uncertainty: 0.0 usft

Northing: 628,015.00 usft
Easting: 591,002.00 usft
Wellhead Elevation: 0.0 usft

Latitude: 32° 43' 34.176 N
Longitude: 104° 2' 14.706 W
Ground Level: 3,449.0 usft

Wellbore: OH
Magnetics: Model Name Sample Date
IGRF2015 3/28/2017

Declination (°)
7.23

Dip Angle (°)
60.45

Field Strength (mT)
48.209

Design: OH
Audit Notes:
Version: 1.0
Vertical Section:

Phase: ACTUAL
Depth From (TVD) (usft) 0.0
+N/-S (usft) 0.0
+E/-W (usft) 0.0
Direction (°) 359.86



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Minimum Curvature
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Survey Program		Date		4/17/2017															
From	To	Survey (Wellbore)		Tool Name		Description													
(ustf)	(ustf)																		
11.5	501.5	MWD #1 (OH)		MWD		MWD - Standard													
591.0	12,750.0	Interp'd MWD #1 (OH)		MWD		MWD - Standard													
Survey																			
MD	Inc	Azi (azimuth)		TVD		N/S		E/W		DLeg		Build		Turn		High to Plan		Right to Plan	
(ustf)	(°)	(°)		(ustf)		(ustf)		(ustf)		(°/100ustf)		(°/100ustf)		(°/100ustf)		(ustf)		(ustf)	
501.5	0.40	104.30		501.4		-8.6		0.0		0.00		0.00		0.00		-2.1		-8.3	
591.0	1.20	160.30		590.9		-9.5		0.6		1.15		0.89		62.57		-9.2		-2.6	
777.0	1.10	142.70		776.9		-12.8		2.3		0.20		-0.05		-9.46		-11.6		-5.9	
961.0	1.70	104.80		960.8		-14.9		6.0		0.58		0.33		-20.60		-9.6		-12.8	
1,147.0	2.80	262.40		1,146.8		-16.2		4.2		2.38		0.59		84.73		2.0		16.6	
1,334.0	2.50	244.10		1,333.6		-18.6		-4.0		0.48		-0.16		-9.79		-11.7		15.0	
1,521.0	2.90	191.30		1,520.4		-25.0		-8.6		1.30		0.21		-28.24		-26.2		-3.5	
1,707.0	2.00	187.40		1,706.2		-32.8		-9.9		0.49		-0.48		-2.10		-33.8		-5.6	
1,801.0	1.80	200.10		1,800.2		-35.8		-10.6		0.49		-0.21		13.51		-37.3		2.3	
1,989.0	1.70	201.70		1,988.1		-41.2		-12.7		0.06		-0.05		0.85		-43.0		3.4	
2,176.0	1.50	207.30		2,175.0		-45.9		-14.8		0.14		-0.11		2.99		-45.3		6.6	
2,363.0	1.10	194.40		2,361.9		-49.9		-16.4		0.26		-0.21		-6.90		-41.6		-6.4	
2,551.0	1.00	181.10		2,549.9		-53.3		-16.9		0.14		-0.05		-7.07		-32.6		-16.4	
2,738.0	2.20	179.90		2,736.8		-58.5		-16.9		0.64		0.64		-0.64		-27.6		-17.2	
2,925.0	2.70	182.70		2,923.7		-66.5		-17.1		0.27		0.27		1.50		-26.6		-16.2	
3,070.0	2.60	185.80		3,068.5		-73.1		-17.6		0.12		-0.07		2.14		-26.6		-15.3	
3,207.0	2.40	185.80		3,205.4		-79.1		-18.2		0.15		-0.15		0.00		-25.5		-16.1	
3,395.0	2.00	181.70		3,393.2		-86.3		-18.7		0.23		-0.21		-2.18		-21.6		-18.5	
3,583.0	1.80	185.50		3,581.1		-92.5		-19.1		0.13		-0.11		2.02		-19.2		-17.8	
3,770.0	1.50	184.80		3,768.1		-97.9		-19.6		0.16		-0.16		-0.37		-14.6		-19.0	
3,956.0	3.10	163.70		3,955.9		-105.2		-18.3		0.95		0.85		-11.22		-4.7		-21.2	



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Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	E/W (ustf)	D Leg (°/100ustf)	Build (°/100ustf)	Turn (°/100ustf)	High to Plan (ustf)	Right to Plan (ustf)
	4,146.0	2.50	164.30	4,143.7	-114.0	-15.8	0.32	-0.32	0.32	-4.6	-18.5
	4,334.0	1.90	164.20	4,331.5	-121.0	-13.9	0.32	-0.32	-0.05	-2.3	-15.9
	4,522.0	1.20	153.80	4,519.5	-125.7	-12.1	0.40	-0.37	-5.53	4.4	-12.3
	4,710.0	1.00	152.20	4,707.4	-129.0	-10.5	0.11	-0.11	-0.85	9.9	-7.7
	4,897.0	0.60	167.70	4,894.4	-131.4	-9.5	0.24	-0.21	8.29	14.0	-7.7
	5,086.0	0.40	161.70	5,083.4	-132.9	-9.1	0.11	-0.11	-3.17	17.2	-5.0
	5,272.0	0.00	177.80	5,269.4	-133.6	-8.9	0.22	-0.22	0.00	-14.2	9.9
	5,460.0	0.20	176.70	5,457.4	-133.9	-8.9	0.11	0.11	0.00	14.4	-9.1
	5,646.0	0.30	298.40	5,643.4	-134.0	-9.3	0.24	0.05	65.43	-15.6	-7.2
	5,833.0	0.60	304.80	5,830.4	-133.2	-10.5	0.16	0.16	3.42	-17.8	-5.4
	6,022.0	0.40	287.20	6,019.4	-132.4	-12.0	0.13	-0.11	-9.31	-16.9	-10.8
	6,210.0	0.70	288.80	6,207.4	-131.9	-13.7	0.16	0.16	0.65	-19.0	-10.3
	6,397.0	1.10	151.30	6,394.4	-133.1	-13.9	0.90	0.21	-73.53	20.1	-6.0
	6,586.0	1.10	148.00	6,583.3	-136.2	-12.1	0.03	0.00	-1.75	16.7	-5.0
	6,774.0	1.20	127.00	6,771.3	-138.9	-9.6	0.23	0.05	-11.17	13.8	0.7
	6,961.0	1.70	117.50	6,958.2	-141.4	-5.5	0.30	0.27	-5.08	8.7	2.7
	7,148.0	1.40	111.40	7,145.2	-143.5	-0.9	0.18	-0.16	-3.26	3.4	3.3
	7,335.0	0.50	192.30	7,332.2	-145.1	1.0	0.75	-0.48	43.26	2.6	-0.6
	7,426.0	0.70	176.70	7,423.1	-146.1	1.0	0.26	0.22	-17.14	1.7	0.0
	7,441.0	0.70	174.30	7,438.1	-146.2	1.0	0.20	0.00	-16.00	1.5	0.1
	7,486.0	1.80	21.70	7,485.1	-145.8	1.3	5.20	2.34	-324.68	-1.9	0.5
	7,535.0	7.30	2.50	7,532.0	-142.2	1.7	11.98	11.70	-40.85	-5.4	-0.4
	7,582.0	14.50	356.60	7,578.1	-133.3	1.5	15.48	15.32	-12.55	-10.5	-1.1
	7,629.0	21.10	355.60	7,622.8	-119.0	0.5	14.06	14.04	-2.13	-16.6	-0.7
	7,676.0	25.40	357.60	7,666.0	-100.5	-0.6	9.30	9.15	4.26	-22.5	0.7
	7,724.0	30.20	1.80	7,708.4	-78.1	-0.7	10.60	10.00	8.75	-27.2	2.3
	7,771.0	35.80	2.70	7,747.9	-52.5	0.4	11.96	11.91	1.91	-31.2	1.7



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	7,818.0	40.20	2.90	7,784.9	-23.6	1.8	9.37	9.36	0.43	-34.4	0.4
	7,865.0	44.30	3.60	7,819.7	7.9	3.6	8.78	8.72	1.49	-36.2	-1.2
	7,912.0	48.90	3.00	7,851.9	42.0	5.5	9.83	9.79	-1.28	-36.5	-3.7
	7,959.0	53.60	1.70	7,881.4	78.6	7.0	10.23	10.00	-2.77	-35.6	-5.9
	8,005.0	57.10	0.80	7,907.5	116.4	7.8	7.78	7.61	-1.96	-33.1	-7.3
	8,020.1	58.64	0.87	7,915.5	129.2	8.0	10.22	10.21	0.44	-31.9	-7.5
HL Crossing 8020.1' MD; 7916.5' TVD; 129.2; 8.0; 58.64											
	8,052.0	61.90	1.00	7,931.4	156.9	8.5	10.22	10.21	0.42	-29.1	-8.1
	8,054.7	62.22	1.04	7,932.6	159.3	8.5	11.99	11.91	1.56	-28.9	-8.1
FTP (Terlingua 23 State #501H)											
	8,099.0	67.50	1.70	7,951.4	199.4	9.5	11.89	11.92	1.49	-24.5	-9.2
	8,146.0	72.20	0.80	7,967.6	243.5	10.4	10.16	10.00	-1.91	-19.3	-10.4
	8,193.0	77.60	358.60	7,979.9	288.8	10.2	12.35	11.49	-4.68	-13.3	-10.4
	8,240.0	82.70	358.00	7,987.9	335.1	8.8	10.92	10.85	-1.28	-7.1	-9.1
	8,287.0	88.50	357.70	7,991.5	381.9	7.1	12.36	12.34	-0.64	-2.7	-7.4
	8,334.0	89.30	357.10	7,992.4	428.8	4.9	2.13	1.70	-1.28	-0.9	-5.4
	8,381.0	89.70	356.70	7,992.8	475.8	2.4	1.20	0.85	-0.85	0.3	-3.0
	8,475.0	91.30	355.30	7,992.0	569.5	-4.2	2.26	1.70	-1.49	1.2	3.3
	8,569.0	91.00	356.60	7,990.1	663.3	-10.8	1.42	-0.32	1.38	1.1	9.7
	8,663.0	90.20	358.70	7,989.1	757.2	-14.7	2.39	-0.85	2.23	1.8	13.3
	8,757.0	91.50	359.40	7,987.7	851.2	-16.2	1.57	1.38	0.74	2.1	14.7
	8,851.0	90.90	359.50	7,985.8	945.1	-17.1	0.65	-0.64	0.11	1.8	15.3
	8,945.0	88.80	359.90	7,986.0	1,039.1	-17.6	2.27	-2.23	0.43	3.8	15.6
	9,039.0	89.80	0.00	7,987.2	1,133.1	-17.7	1.07	1.06	0.11	6.6	15.4
	9,133.0	91.30	359.90	7,986.3	1,227.1	-17.8	1.60	1.60	-0.11	7.5	15.3
	9,227.0	90.50	0.30	7,984.8	1,321.1	-17.6	0.95	-0.85	0.43	7.7	14.8
	9,321.0	91.30	0.40	7,983.3	1,415.1	-17.0	0.86	0.85	0.11	7.9	14.0



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TGT#1 (Terlingua 23 State #501H)											
	9,415.0	92.90	0.50	7,979.9	1,509.0	-16.3	1.71	1.70	0.11	6.2	13.1
	9,506.3	91.35	0.50	7,976.5	1,600.3	-15.5	1.70	-1.70	0.00	4.5	12.0
TGT#2 (Terlingua 23 State #501H)											
	9,509.0	91.30	0.50	7,976.4	1,603.0	-15.5	1.70	-1.70	0.00	4.5	12.0
	9,603.0	89.70	0.10	7,975.6	1,696.9	-15.0	1.75	-1.70	-0.43	5.8	11.3
	9,698.0	90.80	0.10	7,975.2	1,791.9	-14.8	1.16	1.16	0.00	7.6	10.8
	9,791.0	90.00	0.20	7,974.5	1,884.9	-14.6	0.87	-0.86	0.11	9.1	10.4
	9,885.0	91.10	0.30	7,973.6	1,978.9	-14.2	1.18	1.17	0.11	10.4	9.7
	9,978.0	89.80	1.20	7,972.9	2,071.9	-13.0	1.70	-1.40	0.97	11.8	8.2
	10,072.0	91.00	1.40	7,972.2	2,165.9	-10.8	1.29	1.28	0.21	13.3	5.9
	10,166.0	89.60	2.00	7,971.7	2,259.8	-8.0	1.62	-1.49	0.64	15.0	2.8
	10,259.0	90.10	1.70	7,972.0	2,352.8	-5.0	0.63	0.54	-0.32	17.4	-0.4
	10,353.0	91.80	2.40	7,970.4	2,446.7	-1.7	1.96	1.81	0.74	18.0	-4.0
	10,447.0	90.30	1.50	7,968.7	2,540.6	1.5	1.86	-1.60	-0.96	18.4	-7.5
	10,540.0	89.20	2.80	7,969.1	2,633.6	5.0	1.83	-1.18	1.40	21.0	-11.2
	10,634.0	89.60	3.00	7,970.1	2,727.4	9.8	0.48	0.43	0.21	24.2	-16.2
	10,728.0	89.50	2.10	7,970.8	2,821.4	14.0	0.96	-0.11	-0.96	27.1	-20.6
	10,822.0	86.70	358.50	7,972.3	2,915.3	14.4	3.92	-0.85	-3.83	30.7	-21.4
	10,916.0	90.50	358.20	7,973.0	3,009.3	11.7	1.94	1.91	-0.32	33.5	-18.9
	11,010.0	92.40	358.40	7,970.6	3,103.2	9.0	2.03	2.02	0.21	33.3	-16.4
	11,104.0	91.70	358.80	7,967.2	3,197.1	6.7	0.86	-0.74	0.43	32.1	-14.3
	11,107.7	91.65	358.83	7,967.1	3,200.8	6.6	1.67	-1.49	0.75	32.1	-14.3
TGT#2 (Terlingua 23 State #501H)											
	11,198.0	90.30	359.50	7,965.6	3,291.1	5.3	1.67	-1.49	0.74	33.5	-13.2
	11,292.0	91.60	359.70	7,964.0	3,385.1	4.6	1.40	1.38	0.21	35.0	-12.8
	11,386.0	93.50	359.90	7,959.8	3,479.0	4.3	2.03	2.02	0.21	34.0	-12.7
	11,480.0	92.40	0.30	7,955.0	3,572.8	4.4	1.24	-1.17	0.43	32.3	-13.1



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	11,573.0	93.10	0.30	7,950.5	3,665.7	4.9	0.75	0.75	0.00	30.9	-13.8
	11,666.0	91.10	0.80	7,947.1	3,758.7	5.8	2.22	-2.15	0.54	30.6	-14.9
	11,760.0	90.90	0.60	7,945.5	3,852.6	7.0	0.30	-0.21	-0.21	32.1	-16.3
	11,854.0	92.70	0.60	7,942.5	3,946.6	8.0	1.91	1.91	0.00	32.3	-17.6
	11,947.0	91.90	0.30	7,938.8	4,039.5	8.7	0.92	-0.86	-0.32	31.7	-18.5
	12,041.0	91.70	0.10	7,935.9	4,133.5	9.0	0.30	-0.21	-0.21	31.9	-19.1
	12,134.0	93.30	0.00	7,931.8	4,226.4	9.1	1.72	1.72	-0.11	30.9	-19.5
	12,227.0	92.00	0.70	7,927.5	4,319.3	9.7	1.59	-1.40	0.75	29.7	-20.3
	12,321.0	92.20	0.60	7,924.1	4,413.2	10.7	0.24	0.21	-0.11	29.4	-21.6
	12,414.0	90.80	0.60	7,921.6	4,506.2	11.7	1.51	-1.51	0.00	30.1	-22.8
	12,508.0	90.80	0.70	7,920.3	4,600.1	12.8	0.11	0.00	0.11	31.9	-24.1
	12,602.0	92.90	1.10	7,917.3	4,694.1	14.2	2.27	2.23	0.43	32.0	-25.8
	12,659.2	94.25	1.23	7,913.7	4,751.2	15.4	2.37	2.36	0.22	30.4	-27.1
HL Crossing 12659.2' MD: 7913.7' TVD: 4751.2'; 15.4'; 94.25											
	12,691.0	95.00	1.30	7,911.1	4,782.8	16.1	2.37	2.36	0.23	28.8	-27.9
Last MWD Survey											
	12,750.0	95.00	1.30	7,906.0	4,841.6	17.4	0.00	0.00	0.00	25.7	-29.4
Projection to Bit - PBHL (Terlingua 23 State #501H)											

Survey Annotations		Vertical		Local Coordinates		Comment
Measured Depth (usft)	Depth (usft)	+N/S (usft)	+E/W (usft)			
8,020.1	7,915.5	129.2	8.0	HL Crossing 8020.1' MD: 7915.5' TVD: 129.2'; 8.0'; 58.64		
12,659.2	7,913.7	4,751.2	15.4	HL Crossing 12659.2' MD: 7913.7' TVD: 4751.2'; 15.4'; 94.25		
12,691.0	7,911.1	4,782.8	16.1	Last MWD Survey		
12,750.0	7,906.0	4,841.6	17.4	Projection to Bit		



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Eddy County, NM (NAD 27 NME)
Site: Terlingua 23 State
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3474.0usft (H&P 653)
MID Reference: KB = 25' @ 3474.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000, 1 Single User Db

Checked By: _____ Approved By: _____ Date: _____



Eddy County, NM (NAD 27 NME)

Terlingua 23 State #501H

H&P 653

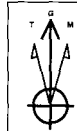
Plan #1

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #501H

Ground Level: 3449.0
KB = 28' @ 3474.0usft (H&P 653)
Northing: 628015.00 Easting: 591002.00
Latitude: 32° 43' 34.176 N Longitude: 104° 2' 14.706 W



Azimuths to Grid North:
True North: -0.18°
Magnetic North: 7.07°

Magnetic Field:
Strength: 48208.8nT
Dip Angle: 60.48°
Date: 3/28/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 7.07°
To convert a Magnetic Direction to a True Direction, Add 7.23° East
To convert a True Direction to a Grid Direction, Subtract 0.16°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.00	0.00	0.00	0.0	
3	2300.3	3.00	179.61	2300.1	-7.9	0.1	1.00	179.61	-7.9	
4	4821.1	3.00	179.61	4817.5	-139.9	1.0	0.00	0.00	-139.9	
5	5121.3	0.00	0.00	5117.6	-147.8	1.0	1.00	180.00	-147.8	
6	7521.3	0.00	0.00	7517.6	-147.8	1.0	0.00	0.00	-147.8	
7	8280.0	91.04	359.85	7995.0	338.4	-0.2	12.00	359.85	338.4	
8	9541.9	91.04	359.85	7972.0	1600.0	-3.5	0.00	0.00	1600.0	TGT#1 (Terlingua 23 State #501H)
9	9556.0	91.33	359.85	7971.7	1614.1	-3.5	2.00	-0.52	1614.1	TGT#2 (Terlingua 23 State #501H)
10	11142.3	91.33	359.85	7935.0	3200.0	-7.7	0.00	0.00	3200.0	
11	11171.6	91.91	359.85	7934.2	3229.3	-7.8	2.00	0.00	3229.3	
12	12795.2	91.91	359.85	7880.0	4852.0	-12.0	0.00	0.00	4852.0	PBHL (Terlingua 23 State #501H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Terlingua 23 State #501H)	7880.0	4852.0	-12.0	632867.00	590990.00
TGT#2 (Terlingua 23 State #501H)	7935.0	3200.0	-7.7	631215.00	590994.32
TGT#1 (Terlingua 23 State #501H)	7872.0	1600.0	-3.5	628616.00	590998.51
FTP (Terlingua 23 State #501H)	7995.0	130.0	0.0	628145.00	591002.00

