



30-015-64241

Mack Energy

Chavez County
Sec.17, T15 S, R 29 E
Prince Rupert Federal 3H

Wellbore #2

Design: Wellbore #2

Standard Survey Report

01 March, 2017

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 22 2017

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Integrity Directional Services, LLC

Survey Report



Company: Mack Energy
Project: Chavez County
Site: Sec.17, T15 S, R 29 E
Well: Prince Rupert Federal 3H
Wellbore: Wellbore #2
Design: Wellbore #2

Local Co-ordinate Reference: Well Prince Rupert Federal 3H
TVD Reference: KB=17.5 @ 3798.00ft (UNK)
MD Reference: KB=17.5 @ 3798.00ft (UNK)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Multi User Db

Project: Chavez County	System Datum: Mean Sea Level
Map System: US State Plane 1983	
Geo Datum: North American Datum 1983	
Map Zone: New Mexico Eastern Zone	

Site: Sec.17, T15 S, R 29 E

Site Position:	Northing: 731,138.5800 usft	Latitude: 33° 0' 34.477 N
From: Map	Easting: 628,480.3200 usft	Longitude: 104° 2' 56.610 W
Position Uncertainty: 0.00 ft	Slot Radius: 13-3/16 "	Grid Convergence: 0.15 °

Well: Prince Rupert Federal 3H, ACTIVE

Well Position	+N/-S 0.00 ft	Northing: 731,138.5800 usft	Latitude: 33° 0' 34.477 N
	+E/-W 0.00 ft	Easting: 628,480.3200 usft	Longitude: 104° 2' 56.610 W
Position Uncertainty	0.00 ft	Wellhead Elevation: 0.00 ft	Ground Level: 3,780.50 ft

Wellbore: Wellbore #2

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/4/2016	7.31	60.71	48,422

Design: Wellbore #2

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 2,534.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	181.15

Survey Program **Date** 3/1/2017

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
146.00	2,534.00	IDS MWD Surveys (Wellbore #1)	MWD	MWD - Standard
2,638.00	8,233.00	IDS MWD Surveys (Wellbore #2)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146.00	0.60	120.00	146.00	-0.38	0.66	0.37	0.41	0.41	0.00
170.00	0.60	127.00	170.00	-0.52	0.87	0.50	0.31	0.00	29.17
281.00	1.00	112.90	280.99	-1.25	2.23	1.20	0.40	0.36	-12.70
374.00	1.30	103.90	373.97	-1.82	4.00	1.74	0.38	0.32	-9.68
467.00	1.60	99.00	466.94	-2.27	6.31	2.15	0.35	0.32	-5.27
558.00	0.70	114.10	557.92	-2.70	8.07	2.54	1.04	-0.99	16.59
647.00	0.60	328.90	646.92	-2.52	8.32	2.35	1.39	-0.11	-163.15
741.00	0.70	333.40	740.91	-1.59	7.81	1.43	0.12	0.11	4.79
835.00	0.40	334.80	834.90	-0.78	7.42	0.63	0.32	-0.32	1.49



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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Buird Rate (°/100usft)	Turn Rate (°/100usft)
930.00	0.50	330.30	929.90	-0.12	7.07	-0.02	0.11	0.11	-4.74
1,025.00	0.40	322.90	1,024.90	0.51	6.66	-0.64	0.12	-0.11	-7.79
1,120.00	0.40	310.50	1,119.90	0.99	6.21	-1.11	0.09	0.00	-13.05
1,215.00	0.30	289.80	1,214.89	1.29	5.73	-1.40	0.17	-0.11	-21.79
1,309.00	0.10	306.40	1,308.89	1.42	5.43	-1.53	0.22	-0.21	17.66
1,404.00	0.30	343.30	1,403.89	1.71	5.29	-1.81	0.24	0.21	38.84
1,498.00	1.30	249.50	1,497.89	1.57	4.22	-1.65	1.44	1.06	-99.79
1,591.00	3.20	238.10	1,590.81	-0.17	1.03	0.15	2.09	2.04	-12.26
1,686.00	4.50	238.10	1,685.59	-3.54	-4.39	3.63	1.37	1.37	0.00
1,780.00	4.40	238.00	1,779.31	-7.40	-10.58	7.61	0.11	-0.11	-0.11
1,874.00	5.40	237.80	1,872.97	-11.67	-17.38	12.02	1.06	1.06	-0.21
1,968.00	5.50	236.70	1,966.54	-16.50	-24.88	16.99	0.15	0.11	-1.17
2,061.00	5.30	236.90	2,059.13	-21.29	-32.21	21.93	0.22	-0.22	0.22
2,155.00	5.00	235.10	2,152.75	-26.01	-39.20	26.79	0.36	-0.32	-1.91
2,250.00	4.50	232.10	2,247.42	-30.67	-45.54	31.57	0.59	-0.53	-3.16
2,344.00	5.40	232.80	2,341.07	-35.60	-51.97	36.64	0.96	0.96	0.74
2,439.00	5.30	233.60	2,435.66	-40.91	-59.07	42.08	0.13	-0.11	0.84
2,534.00	5.00	231.90	2,530.27	-46.07	-65.86	47.38	0.35	-0.32	-1.79
2,638.00	7.60	202.80	2,633.66	-55.21	-72.09	56.64	3.88	2.50	-27.98
2,670.00	11.40	190.50	2,665.22	-60.27	-73.49	61.73	13.40	11.88	-38.44
2,701.00	15.90	187.90	2,695.34	-67.49	-74.63	68.97	14.65	14.52	-8.39
2,732.00	19.70	187.80	2,724.85	-76.88	-75.92	78.38	12.26	12.26	-0.32
2,764.00	23.00	187.10	2,754.65	-88.43	-77.43	89.96	10.34	10.31	-2.19
2,795.00	25.90	186.30	2,782.86	-101.17	-78.92	102.73	9.42	9.35	-2.58
2,826.00	28.60	185.30	2,810.42	-115.29	-80.35	116.88	8.83	8.71	-3.23
2,857.00	31.00	184.90	2,837.32	-130.64	-81.72	132.25	7.77	7.74	-1.29
2,889.00	33.70	184.40	2,864.35	-147.70	-83.10	149.34	8.48	8.44	-1.56
2,920.00	36.00	184.90	2,889.79	-165.36	-84.54	167.02	7.48	7.42	1.61
2,952.00	37.70	185.50	2,915.39	-184.47	-86.28	186.16	5.43	5.31	1.88
2,983.00	38.30	186.20	2,939.82	-203.45	-88.23	205.18	2.38	1.94	2.26
3,014.00	39.10	186.00	2,964.02	-222.73	-90.29	224.49	2.61	2.58	-0.65
3,045.00	41.00	185.80	2,987.75	-242.57	-92.33	244.37	6.14	6.13	-0.65
3,077.00	42.70	185.90	3,011.58	-263.81	-94.51	265.64	5.32	5.31	0.31
3,108.00	44.10	185.70	3,034.10	-285.00	-96.66	286.87	4.54	4.52	-0.65
3,140.00	44.60	185.70	3,056.99	-307.25	-98.88	309.17	1.56	1.56	0.00
3,171.00	45.50	185.40	3,078.89	-329.09	-101.01	331.05	2.98	2.90	-0.97
3,203.00	47.70	184.70	3,100.87	-352.25	-103.05	354.24	7.06	6.88	-2.19
3,235.00	49.90	184.00	3,121.95	-376.26	-104.87	378.28	7.07	6.88	-2.19
3,266.00	52.80	183.60	3,141.31	-400.41	-106.48	402.46	9.41	9.35	-1.29
3,298.00	56.90	182.90	3,159.73	-426.53	-107.96	428.60	12.94	12.81	-2.19
3,329.00	60.70	182.60	3,175.78	-453.01	-109.23	455.10	12.29	12.26	-0.97
3,361.00	65.30	182.10	3,190.31	-481.49	-110.39	483.60	14.44	14.38	-1.56
3,392.00	69.30	181.80	3,202.27	-510.06	-111.36	512.19	12.93	12.90	-0.97



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3,424.00	73.80	181.10	3,212.39	-540.40	-112.13	542.54	14.21	14.06	-2.19
3,455.00	77.20	180.40	3,220.15	-570.41	-112.52	572.54	11.18	10.97	-2.26
3,487.00	80.50	180.00	3,226.34	-601.80	-112.63	603.93	10.39	10.31	-1.25
3,518.00	84.80	179.50	3,230.31	-632.54	-112.50	634.66	13.96	13.87	-1.61
3,549.00	88.50	179.40	3,232.12	-663.48	-112.20	665.59	11.94	11.94	-0.32
3,580.00	89.60	179.90	3,232.63	-694.47	-112.01	696.57	3.90	3.55	1.61
3,675.00	89.90	180.30	3,233.05	-789.47	-112.17	791.56	0.53	0.32	0.42
3,770.00	89.90	180.70	3,233.21	-884.47	-113.00	886.55	0.42	0.00	0.42
3,865.00	89.80	181.30	3,233.46	-979.45	-114.66	981.55	0.64	-0.11	0.63
3,959.00	90.40	180.80	3,233.30	-1,073.43	-116.38	1,075.55	0.83	0.64	-0.53
4,053.00	91.60	179.50	3,231.66	-1,167.42	-116.63	1,169.52	1.88	1.28	-1.38
4,148.00	89.90	179.20	3,230.41	-1,262.40	-115.55	1,264.46	1.82	-1.79	-0.32
4,243.00	90.00	179.20	3,230.50	-1,357.39	-114.23	1,359.40	0.11	0.11	0.00
4,338.00	89.70	179.20	3,230.74	-1,452.38	-112.90	1,454.35	0.32	-0.32	0.00
4,433.00	89.30	179.70	3,231.57	-1,547.37	-111.99	1,549.30	0.67	-0.42	0.53
4,527.00	88.80	179.50	3,233.13	-1,641.35	-111.33	1,643.25	0.57	-0.53	-0.21
4,622.00	90.00	180.10	3,234.13	-1,736.35	-111.00	1,738.22	1.41	1.26	0.63
4,717.00	91.30	180.80	3,233.05	-1,831.34	-111.75	1,833.20	1.55	1.37	0.74
4,811.00	91.00	180.80	3,231.16	-1,925.31	-113.06	1,927.18	0.32	-0.32	0.00
4,905.00	90.60	181.20	3,229.85	-2,019.28	-114.70	2,021.17	0.60	-0.43	0.43
4,985.00	90.90	181.80	3,228.80	-2,099.25	-116.79	2,101.17	0.84	0.38	0.75
5,079.00	91.70	180.50	3,226.67	-2,193.20	-118.68	2,195.14	1.62	0.85	-1.38
5,174.00	91.20	178.90	3,224.27	-2,288.17	-118.18	2,290.07	1.76	-0.53	-1.68
5,269.00	89.10	179.10	3,224.02	-2,383.15	-116.52	2,385.00	2.22	-2.21	0.21
5,364.00	90.00	179.60	3,224.76	-2,478.14	-115.45	2,479.95	1.08	0.95	0.53
5,458.00	90.40	180.10	3,224.44	-2,572.14	-115.20	2,573.93	0.68	0.43	0.53
5,552.00	90.20	180.50	3,223.94	-2,666.13	-115.69	2,667.91	0.48	-0.21	0.43
5,646.00	90.10	181.10	3,223.70	-2,760.12	-117.00	2,761.91	0.65	-0.11	0.64
5,741.00	90.90	179.80	3,222.87	-2,855.11	-117.75	2,856.90	1.61	0.84	-1.37
5,835.00	90.70	180.00	3,221.56	-2,949.10	-117.59	2,950.87	0.30	-0.21	0.21
5,929.00	91.00	178.80	3,220.16	-3,043.09	-116.60	3,044.81	1.32	0.32	-1.28
6,022.00	91.00	179.10	3,218.54	-3,136.06	-114.90	3,137.73	0.32	0.00	0.32
6,117.00	90.70	179.20	3,217.13	-3,231.04	-113.49	3,232.66	0.33	-0.32	0.11
6,212.00	90.60	179.20	3,216.05	-3,326.02	-112.16	3,327.60	0.11	-0.11	0.00
6,305.00	90.20	179.40	3,215.40	-3,419.01	-111.03	3,420.55	0.48	-0.43	0.22
6,399.00	91.20	178.80	3,214.25	-3,512.99	-109.55	3,514.48	1.24	1.06	-0.64
6,494.00	91.10	179.10	3,212.35	-3,607.96	-107.81	3,609.39	0.33	-0.11	0.32
6,588.00	90.90	179.20	3,210.71	-3,701.93	-106.42	3,703.32	0.24	-0.21	0.11
6,683.00	90.60	179.20	3,209.46	-3,796.91	-105.09	3,798.26	0.32	-0.32	0.00
6,778.00	90.00	179.20	3,208.97	-3,891.90	-103.76	3,893.20	0.63	-0.63	0.00
6,872.00	90.70	180.60	3,208.39	-3,985.90	-103.60	3,987.17	1.67	0.74	1.49
6,967.00	90.70	180.50	3,207.23	-4,080.89	-104.51	4,082.16	0.11	0.00	-0.11
7,062.00	90.60	180.00	3,206.15	-4,175.88	-104.93	4,177.14	0.54	-0.11	-0.53



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7,157.00	91.00	179.40	3,204.83	-4,270.87	-104.43	4,272.10	0.76	0.42	-0.63
7,252.00	91.10	179.20	3,203.09	-4,365.84	-103.27	4,367.04	0.24	0.11	-0.21
7,346.00	91.10	179.00	3,201.28	-4,459.82	-101.79	4,460.96	0.21	0.00	-0.21
7,468.00	89.90	180.10	3,200.22	-4,581.80	-100.83	4,582.90	1.33	-0.98	0.90
7,562.00	89.30	180.20	3,200.87	-4,675.80	-101.08	4,676.89	0.65	-0.64	0.11
7,657.00	90.70	181.00	3,200.87	-4,770.79	-102.07	4,771.88	1.70	1.47	0.84
7,751.00	90.50	180.80	3,199.89	-4,864.77	-103.55	4,865.87	0.30	-0.21	-0.21
7,846.00	90.40	180.80	3,199.14	-4,959.76	-104.88	4,960.87	0.11	-0.11	0.00
7,940.00	90.20	180.60	3,198.65	-5,053.75	-106.03	5,054.86	0.30	-0.21	-0.21
8,008.00	89.60	180.10	3,198.77	-5,121.75	-106.44	5,122.86	1.15	-0.88	-0.74
8,102.00	90.00	179.90	3,199.10	-5,215.75	-106.44	5,216.84	0.48	0.43	-0.21
8,184.00	90.00	180.40	3,199.10	-5,297.75	-106.66	5,298.82	0.61	0.00	0.61
Final IDS MWD Survey									
8,233.00	90.00	180.40	3,199.10	-5,346.75	-107.00	5,347.82	0.00	0.00	0.00
Projection to TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,184.00	3,199.10	-5,297.75	-106.66	Final IDS MWD Survey
8,233.00	3,199.10	-5,346.75	-107.00	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

March 6, 2017

Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: Prince Rupert Fed 3H
330' FSL & 2160' FEL
Sec. 17, T15S, R29E
Chaves County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

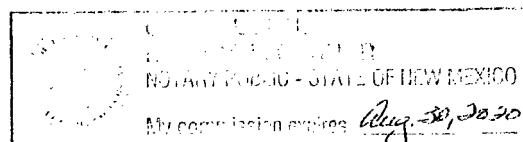
The foregoing was acknowledged before me this 6th day of March, 2017

Notary Public

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 22 2017

RECEIVED



PRINCE RUPERT FEDERAL 3-H

Date	Depth	Deviation	Direction	TVD	Horiz Disp
2/15/2017	146	0.60			
2/15/2017	170	0.60			
2/16/2017	281	1.00	112.90		
2/16/2017	374	1.30	103.70		
2/16/2017	467	1.60	99.00		
2/16/2017	559	0.70	114.10		
2/17/2017	741	0.70	333.40		
2/17/2017	835	0.40	334.80		
2/17/2017	930	0.50	330.30		
2/17/2017	1025	0.40	322.90		
2/17/2017	1120	0.40	310.50		
2/17/2017	1215	0.30	289.80		
2/17/2017	1309	0.10	306.40		
2/17/2017	1404	0.30	343.30		
2/17/2017	1498	1.30	249.50		
2/17/2017	1591	3.20	238.10		
2/17/2017	1780	4.40	238.00		
2/17/2017	1874	5.40	237.80		
2/17/2017	1968	5.50	236.70		
2/17/2017	2061	5.30	236.80		
2/17/2017	2155	5.00	235.10		
2/17/2017	2250	4.50	232.10		
2/17/2017	2344	5.40	237.80		
2/17/2017	2439	5.30	233.60		
2/17/2017	2534	5.00	231.90		
2/18/2017	2628	5.00	232.90		
2/18/2017	2723	4.50	229.40		
2/18/2017	2817	2.90	223.90		
2/18/2017	2911	1.60	213.40		
2/18/2017	3005	1.60	216.90		
2/18/2017	3099	1.50	218.10		
2/18/2017	3193	1.60	214.00		
2/18/2017	3287	1.80	218.40		
2/18/2017	3381	0.50	191.60		
2/18/2017	3449	0.40	196.70		
2/21/2017	2638	7.60	202.80		
2/21/2017	2670	11.40	190.50		
2/21/2017	2701	15.90	187.90		
2/21/2017	2732	19.70	187.80		
2/21/2017	2764	23.00	187.20		
2/21/2017	2795	25.90	186.30		
2/21/2017	2826	28.60	185.30		
2/21/2017	2857	31.00	184.90		

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Date	Depth	Deviation	Direction	TVD	Horiz Disp
2/21/2017	2889	33.70	184.40		
2/21/2017	2920	36.00	184.90		
2/21/2017	3045	41.00	185.80		
2/21/2017	3077	42.70	185.90		
2/21/2017	3108	44.10	185.70		
2/21/2017	3140	44.60	185.70		
2/21/2017	3171	45.50	185.40		
2/21/2017	3203	47.70	184.70		
2/22/2017	3235	49.90	184.00	3121.00	578.00
2/22/2017	3266	52.80	183.60	3141.00	402.00
2/22/2017	3298	56.90	182.90	3159.00	428.00
2/22/2017	3329	60.70	182.60	3175.00	455.00
2/22/2017	3361	65.30	182.10	3190.00	483.00
2/22/2017	3372	69.30	181.80	3204.00	512.00
2/22/2017	3424	73.80	181.10	3212.00	542.00
2/22/2017	3482	80.50	180.00	3226.00	624.00
2/22/2017	3518	88.80	179.50	3230.00	634.00
2/22/2017	3549	88.50	179.40	3232.00	665.00
2/22/2017	3580	89.60	179.90	3233.00	696.00
2/22/2017	3675	89.90	180.30	3233.00	791.00
2/22/2017	3770	89.90	180.70	3233.00	886.00
2/22/2017	3865	89.80	181.30	3234.00	981.00
2/22/2017	3959	90.40	180.80		
2/22/2017	4053	91.60	179.50		
2/22/2017	4148	89.90	179.20		
2/22/2017	4243	90.00	179.20		
2/22/2017	4338	89.00	179.20		
2/22/2017	4433	89.30	179.70		
2/22/2017	4527	88.80	179.50		
2/22/2017	4622	90.00	180.10		
2/23/2017	4717	91.30	180.80		
2/23/2017	4811	91.00	180.80		
2/23/2017	4905	90.60	181.20		
2/23/2017	4985	90.90	181.80		
2/23/2017	5079	91.70	180.50		
2/23/2017	5174	91.20	178.90	3224.00	
2/23/2017	5269	89.10	179.10	3224.00	
2/23/2017	5364	90.00	179.60	3224.00	
2/24/2017	5458	90.40	180.10		
2/24/2017	5552	90.20	180.50		
2/24/2017	5646	90.10	181.10		
2/24/2017	5741	90.90	179.80		
2/24/2017	5835	90.70	180.00		
2/24/2017	5929	91.00	178.80		
2/24/2017	6022	91.00	179.10		

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Date	Depth	Deviation	Direction	TVD	Horiz Disp
2/24/2017	6117	90.20	179.20		
2/24/2017	6272	90.60	179.20	3216.00	
2/24/2017	6305	90.20	179.40	3215.00	
2/24/2017	6399	91.20	178.80	3214.00	
2/24/2017	6494	91.10	179.10	3212.00	
2/24/2017	6588	90.90	179.20	3210.00	
2/24/2017	6683	90.60	179.20	3209.00	
2/25/2017	6872	90.70	180.60		
2/25/2017	6967	90.70	180.50		
2/25/2017	7062	90.60	180.00		
2/25/2017	7157	91.00	179.40		
2/25/2017	7252	91.10	179.20	3203.00	
2/25/2017	7346	91.10	179.00	3201.00	
2/26/2017	7468	89.90	180.10		
2/26/2017	7562	89.30	180.20		
2/26/2017	7657	90.70	181.00		
2/26/2017	7751	90.50	180.80		
2/26/2017	7846	90.40	180.80		
2/26/2017	7940	90.20	180.60		
2/27/2017	8008	89.60	180.10		
2/27/2017	8102	90.00	179.90		
2/27/2017	8184	90.00	180.40		

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