

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

OIL CONS. DIV DIST. 3
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

AUG 10 2017

*API Number 30-043-21284		*Pool Code 98172	*Pool Name ESCAVADA N; MANCOS
*Property Code 316006	*Property Name N ESCAVADA UNIT		*Well Number 313H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6944'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	10	22N	7W		1937	SOUTH	1259	EAST	SANDOVAL

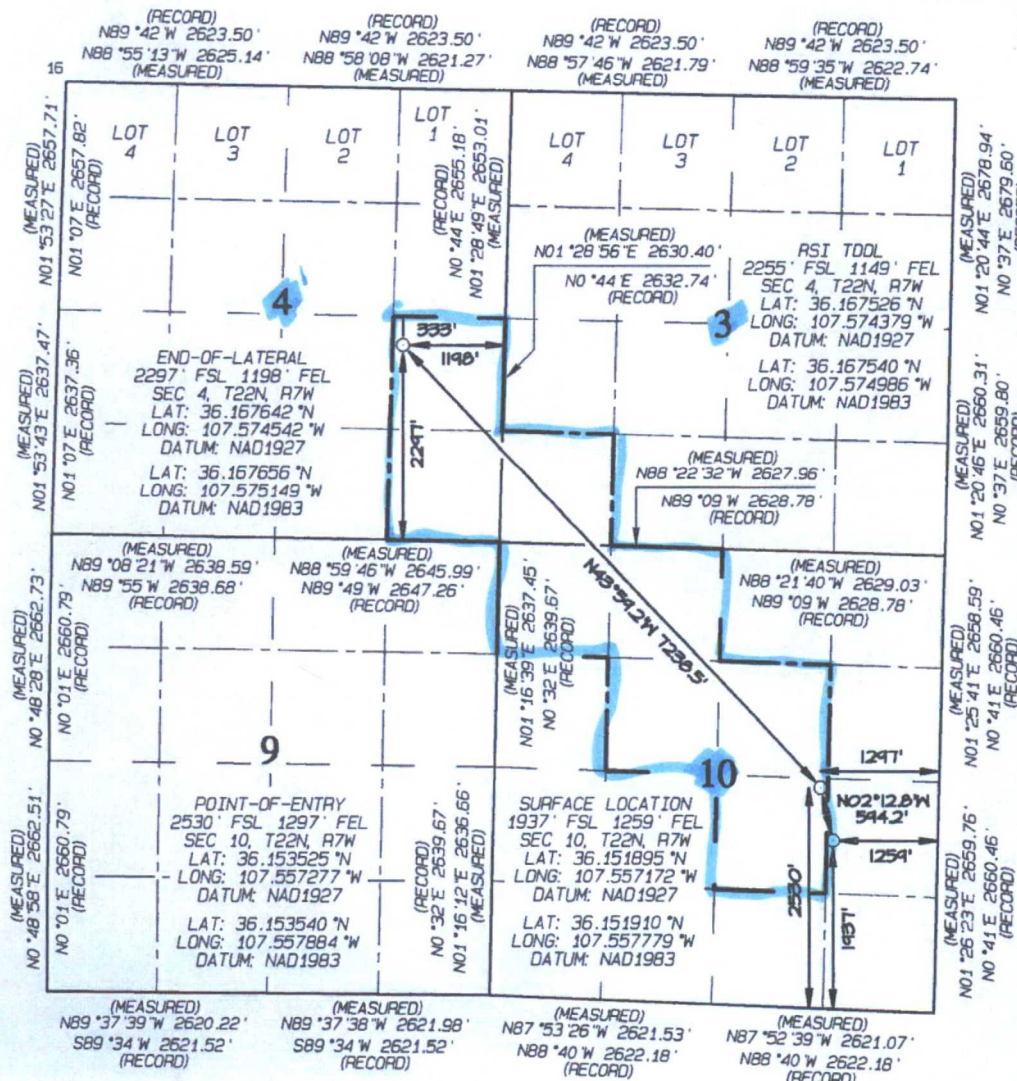
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	4	22N	7W		2297	SOUTH	1198	EAST	SANDOVAL

¹² Dedicated Acres 320.00	SW/4 SW/4 - Section 3 E/2 SE/4 - Section 4 N/2 NW/4, SE/4 NW/4 SW/4 NE/4, NW/4 SE/4 - Section 10	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14080
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CONFIDENTIAL

NO ALLOWABLE WILL BE ASSIGNED
TO THIS COMPLETION UNTIL ALL
INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS
BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: 8/10/17

Printed Name: Lacey granillo

E-mail Address: lacey.granillo@wpxenergy.com

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: JULY 31, 2017

Survey Date: OCTOBER 30, 2015

Signature and Seal of Professional Surveyor



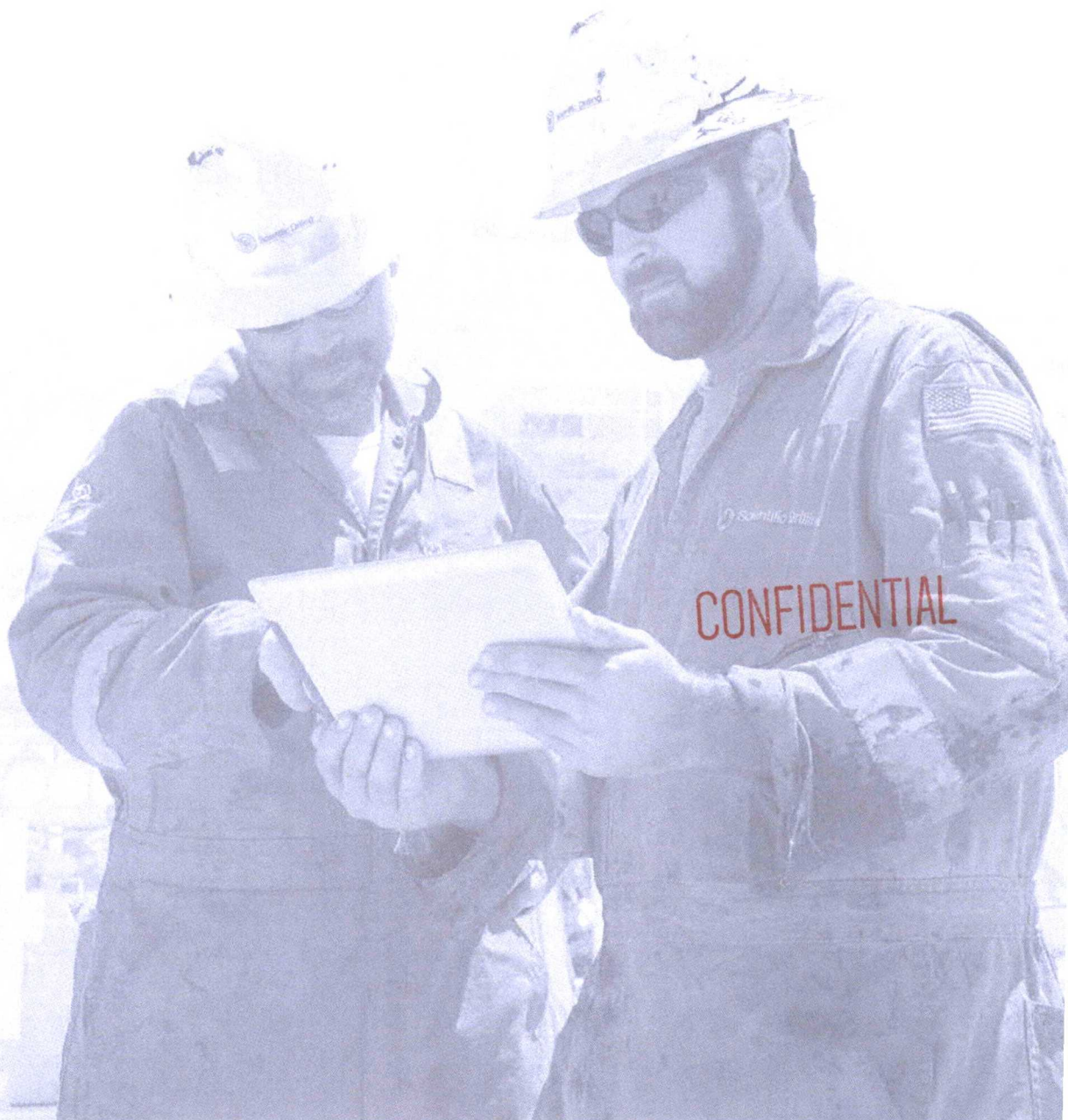
JASON C. EDWARDS

Certificate Number 15269



EOW Summary

**WPX Energy
N Escavada
UT #313H**



CONFIDENTIAL

N Escavada UT #313H
Sandoval County, NM 3003 West
Northing: 1874646.54
Easting: 581530.15
Actual

SL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
GL @ 6944.00



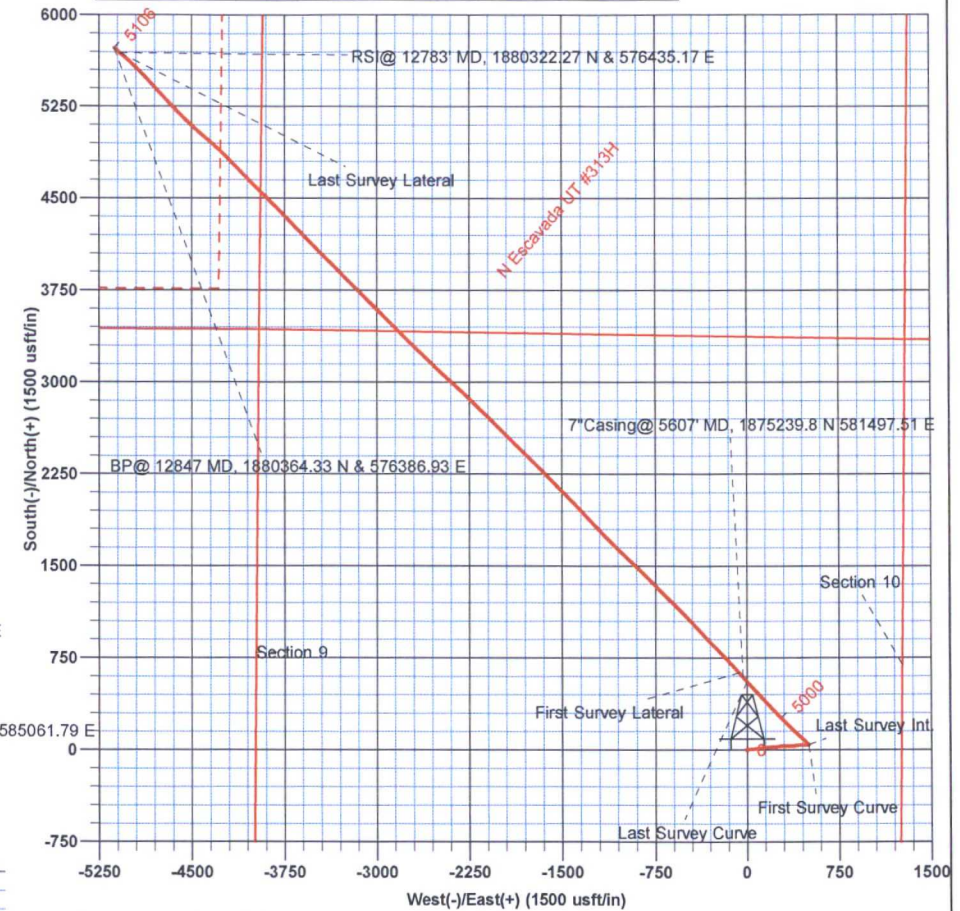
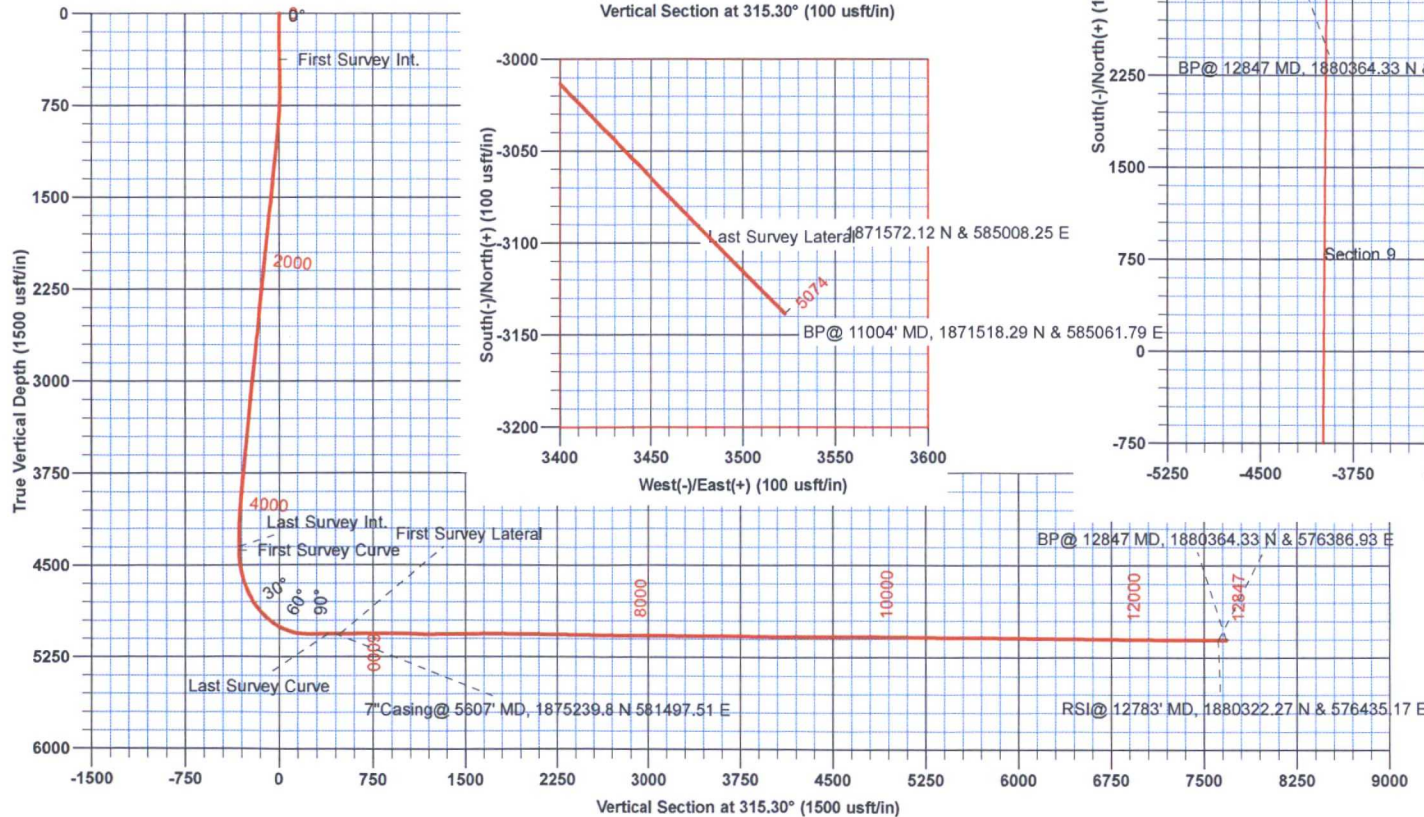
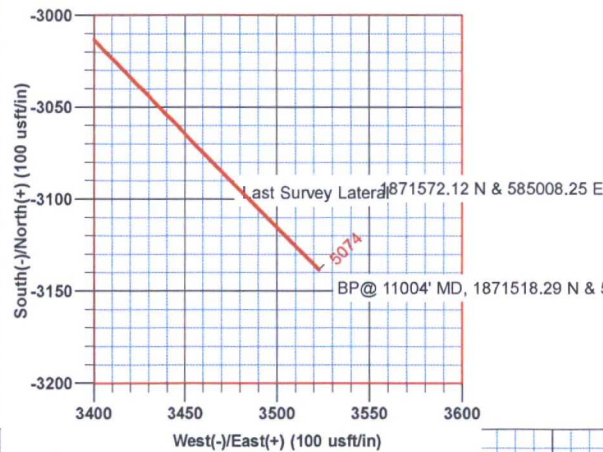
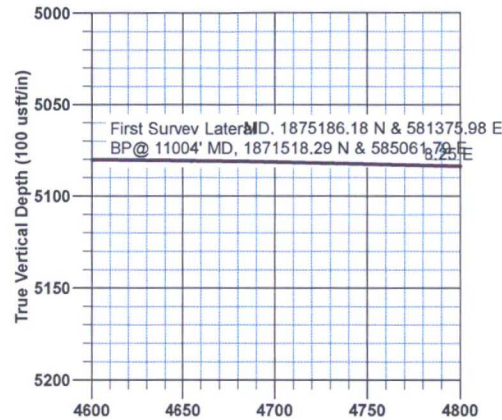
WELL DETAILS N Escavada UT #313H

		Ground Level: 6944.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1874646.54	581530.15	36.151895	-107.557172

TVD	MD	ANNOTATIONS
375.94	376.00	Annotation
4349.49	4387.00	First Survey Int.
4381.48	4419.00	Last Survey Int.
5062.58	5558.00	First Survey Curve
5062.80	5607.00	Last Survey Curve
5062.51	5653.00	7"Casing@ 5607' MD, 1875239.8 N 581497.51 E
5105.66	12783.00	First Survey Lateral
5105.67	12784.00	RSI@ 12783' MD, 1880322.27 N & 576435.17 E
5105.89	12847.00	Last Survey Lateral
		BP@ 12847 MD, 1880364.33 N & 576386.93 E

Azimuths to True North
Magnetic North: 8.95°
Magnetic Field
Strength: 49551.9snT
Dip Angle: 62.87°
Date: 6/6/2017
Model: HDGM

CONFIDENTIAL



Bailey Fellows
9:25, July 28 2017

Scientific Drilling
325 S. Faudree Rd.
Odessa, TX 79765

WPX Energy

Sandoval County, NM 3003 West
N Escavada UT 329 Pad
N Escavada UT #313H
API:30-043-21284
Wellbore #1

Design: Actual

Survey Report - Geographic

28 July, 2017



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #313H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Site:	N Escavada UT 329 Pad	MD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Well:	N Escavada UT #313H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Project	Sandoval County, NM 3003 West		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	N Escavada UT 329 Pad			
Site Position:		Northing:	1,874,646.54 usft	Latitude: 36.151895
From:	Lat/Long	Easting:	581,530.15 usft	Longitude: -107.557172
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.16 °

Well	N Escavada UT #313H			
Well Position	+N/-S	0.00 usft	Northing: 1,874,646.54 usft	Latitude: 36.151895
	+E/-W	0.00 usft	Easting: 581,530.15 usft	Longitude: -107.557172
Position Uncertainty		0.00 usft	Wellhead Elevation: 0.00 usft	Ground Level: 6,944.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/6/2017	8.95	62.87	49,552

Design	Actual			
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	315.30

Survey Program	Date	7/28/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
21.00	296.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
376.00	4,387.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM
4,419.00	5,558.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM
5,653.00	12,847.00	SDI MWD Lateral (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,874,646.54	581,530.15	36.151895	-107.557172
21.00	0.00	0.00	21.00	0.00	0.00	1,874,646.54	581,530.15	36.151895	-107.557172
51.00	0.39	155.08	51.00	-0.09	0.04	1,874,646.45	581,530.19	36.151895	-107.557172
81.00	0.40	202.13	81.00	-0.28	0.05	1,874,646.26	581,530.20	36.151894	-107.557172
111.00	0.52	219.61	111.00	-0.48	-0.08	1,874,646.06	581,530.07	36.151894	-107.557173
141.00	0.32	250.08	141.00	-0.62	-0.25	1,874,645.92	581,529.91	36.151893	-107.557173
171.00	0.49	300.16	171.00	-0.58	-0.43	1,874,645.96	581,529.72	36.151893	-107.557174
201.00	0.72	315.89	201.00	-0.38	-0.68	1,874,646.16	581,529.47	36.151894	-107.557175
231.00	1.06	320.26	230.99	-0.03	-0.99	1,874,646.50	581,529.16	36.151895	-107.557176

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #313H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Site:	N Escavada UT 329 Pad	MD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Well:	N Escavada UT #313H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
261.00	1.18	317.04	260.99	0.41	-1.37	1,874,646.94	581,528.77	36.151896	-107.557177
291.00	1.51	318.11	290.98	0.93	-1.85	1,874,647.46	581,528.30	36.151898	-107.557179
296.00	1.51	318.68	295.98	1.03	-1.94	1,874,647.56	581,528.21	36.151898	-107.557179
376.00	1.72	307.59	375.94	2.55	-3.58	1,874,649.08	581,526.56	36.151902	-107.557184
First Survey Int.									
438.00	0.83	305.21	437.93	3.38	-4.69	1,874,649.90	581,525.45	36.151904	-107.557188
530.00	0.18	358.34	529.92	3.90	-5.24	1,874,650.43	581,524.90	36.151906	-107.557190
622.00	1.23	70.49	621.92	4.38	-4.31	1,874,650.91	581,525.83	36.151907	-107.557187
715.00	2.42	83.59	714.87	4.93	-1.42	1,874,651.47	581,528.72	36.151909	-107.557177
807.00	4.48	82.42	806.70	5.62	4.08	1,874,652.17	581,534.21	36.151911	-107.557158
899.00	6.63	86.98	898.26	6.38	12.94	1,874,652.95	581,543.07	36.151913	-107.557128
992.00	8.45	87.81	990.45	6.92	25.13	1,874,653.53	581,555.26	36.151914	-107.557087
1,084.00	9.06	88.44	1,081.38	7.38	39.13	1,874,654.03	581,569.26	36.151915	-107.557040
1,176.00	8.83	87.34	1,172.26	7.90	53.42	1,874,654.59	581,583.55	36.151917	-107.556991
1,269.00	8.40	83.65	1,264.21	8.98	67.30	1,874,655.71	581,597.43	36.151920	-107.556944
1,361.00	8.97	83.75	1,355.16	10.51	81.11	1,874,657.28	581,611.23	36.151924	-107.556898
1,453.00	8.29	81.00	1,446.11	12.33	94.79	1,874,659.13	581,624.91	36.151929	-107.556851
1,546.00	10.30	82.18	1,537.89	14.51	109.65	1,874,661.36	581,639.76	36.151935	-107.556801
1,640.00	10.01	79.92	1,630.42	17.08	126.02	1,874,663.98	581,656.12	36.151942	-107.556745
1,734.00	9.10	81.55	1,723.11	19.60	141.42	1,874,666.54	581,671.51	36.151949	-107.556693
1,828.00	9.15	83.58	1,815.92	21.53	156.20	1,874,668.51	581,686.29	36.151954	-107.556643
1,922.00	10.00	86.71	1,908.61	22.83	171.77	1,874,669.86	581,701.86	36.151958	-107.556590
2,016.00	9.27	84.85	2,001.29	23.98	187.46	1,874,671.05	581,717.54	36.151961	-107.556537
2,110.00	9.39	85.58	2,094.04	25.25	202.65	1,874,672.37	581,732.73	36.151964	-107.556486
2,203.00	8.41	82.89	2,185.92	26.68	216.96	1,874,673.83	581,747.03	36.151968	-107.556437
2,297.00	9.39	85.81	2,278.79	28.09	231.43	1,874,675.29	581,761.50	36.151972	-107.556388
2,391.00	8.57	85.13	2,371.64	29.24	246.06	1,874,676.48	581,776.12	36.151975	-107.556339
2,485.00	8.37	85.79	2,464.61	30.34	259.86	1,874,677.62	581,789.92	36.151978	-107.556292
2,579.00	7.81	83.56	2,557.68	31.56	273.03	1,874,678.88	581,803.09	36.151982	-107.556247
2,673.00	9.38	88.73	2,650.62	32.45	287.04	1,874,679.80	581,817.09	36.151984	-107.556200
2,766.00	8.79	88.30	2,742.45	32.82	301.71	1,874,680.22	581,831.77	36.151985	-107.556150
2,860.00	8.48	86.67	2,835.39	33.44	315.81	1,874,680.88	581,845.87	36.151987	-107.556103
2,954.00	8.89	88.21	2,928.31	34.07	329.99	1,874,681.55	581,860.04	36.151989	-107.556055
3,048.00	8.08	87.28	3,021.28	34.61	343.85	1,874,682.13	581,873.90	36.151990	-107.556008
3,142.00	8.94	87.43	3,114.24	35.25	357.75	1,874,682.81	581,887.79	36.151992	-107.555961
3,236.00	8.22	88.07	3,207.19	35.81	371.76	1,874,683.40	581,901.80	36.151993	-107.555913
3,331.00	7.19	84.49	3,301.33	36.60	384.46	1,874,684.24	581,914.51	36.151996	-107.555870
3,425.00	9.25	82.17	3,394.36	38.20	397.81	1,874,685.87	581,927.84	36.152000	-107.555825
3,519.00	8.79	83.38	3,487.20	40.06	412.42	1,874,687.77	581,942.46	36.152005	-107.555775
3,613.00	7.83	85.84	3,580.21	41.35	425.95	1,874,689.10	581,955.98	36.152009	-107.555730
3,707.00	8.68	88.41	3,673.24	42.01	439.42	1,874,689.80	581,969.45	36.152010	-107.555684
3,800.00	7.82	86.81	3,765.27	42.56	452.75	1,874,690.38	581,982.78	36.152012	-107.555639
3,894.00	7.83	88.73	3,858.40	43.05	465.54	1,874,690.92	581,995.57	36.152013	-107.555595
3,988.00	7.52	87.12	3,951.56	43.51	478.09	1,874,691.40	582,008.11	36.152015	-107.555553
4,082.00	5.57	89.03	4,044.94	43.89	488.79	1,874,691.82	582,018.81	36.152016	-107.555517
4,176.00	3.69	87.72	4,138.63	44.09	496.38	1,874,692.04	582,026.40	36.152016	-107.555491
4,270.00	2.06	78.33	4,232.51	44.55	501.05	1,874,692.52	582,031.07	36.152017	-107.555475
4,333.00	0.45	121.12	4,295.49	44.65	502.37	1,874,692.62	582,032.39	36.152018	-107.555471
4,356.00	0.56	171.52	4,318.49	44.50	502.47	1,874,692.46	582,032.49	36.152017	-107.555470
4,387.00	0.97	206.86	4,349.49	44.11	502.37	1,874,692.08	582,032.39	36.152016	-107.555471
Last Survey Int.									
4,419.00	0.75	294.03	4,381.48	43.95	502.06	1,874,691.92	582,032.08	36.152016	-107.555472
First Survey Curve									
4,450.00	2.34	321.60	4,412.47	44.53	501.48	1,874,692.50	582,031.50	36.152017	-107.555474
4,481.00	4.95	319.83	4,443.41	46.05	500.22	1,874,694.01	582,030.24	36.152022	-107.555478

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #313H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Site:	N Escavada UT 329 Pad	MD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Well:	N Escavada UT #313H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,513.00	6.96	317.31	4,475.23	48.53	498.02	1,874,696.49	582,028.03	36.152028	-107.555485	
4,544.00	8.47	314.92	4,505.95	51.52	495.13	1,874,699.47	582,025.13	36.152037	-107.555495	
4,575.00	10.11	315.70	4,536.54	55.08	491.61	1,874,703.02	582,021.60	36.152046	-107.555507	
4,606.00	12.21	315.31	4,566.96	59.36	487.40	1,874,707.29	582,017.38	36.152058	-107.555521	
4,638.00	14.98	314.85	4,598.06	64.69	482.09	1,874,712.60	582,012.05	36.152073	-107.555539	
4,669.00	17.24	314.24	4,627.84	70.72	475.96	1,874,718.61	582,005.91	36.152089	-107.555560	
4,700.00	19.87	313.71	4,657.22	77.56	468.86	1,874,725.44	581,998.79	36.152108	-107.555584	
4,732.00	22.44	313.08	4,687.06	85.49	460.46	1,874,733.34	581,990.37	36.152130	-107.555613	
4,763.00	24.01	311.80	4,715.55	93.74	451.44	1,874,741.56	581,981.32	36.152153	-107.555643	
4,794.00	26.64	310.22	4,743.57	102.43	441.43	1,874,750.23	581,971.29	36.152176	-107.555677	
4,825.00	29.13	309.63	4,770.97	111.74	430.31	1,874,759.50	581,960.14	36.152202	-107.555715	
4,857.00	31.30	311.89	4,798.62	122.25	418.12	1,874,769.98	581,947.92	36.152231	-107.555756	
4,888.00	33.85	311.80	4,824.74	133.39	405.69	1,874,781.08	581,935.46	36.152262	-107.555798	
4,919.00	36.67	311.54	4,850.05	145.28	392.32	1,874,792.94	581,922.06	36.152294	-107.555843	
4,950.00	39.57	313.03	4,874.44	158.16	378.17	1,874,805.78	581,907.87	36.152330	-107.555891	
4,982.00	42.82	315.50	4,898.52	172.88	363.09	1,874,820.45	581,892.75	36.152370	-107.555942	
5,013.00	45.16	316.11	4,920.82	188.32	348.09	1,874,835.85	581,877.70	36.152412	-107.555993	
5,045.00	47.92	317.34	4,942.83	205.23	332.17	1,874,852.71	581,861.74	36.152459	-107.556047	
5,076.00	51.09	317.25	4,962.96	222.55	316.19	1,874,869.99	581,845.70	36.152506	-107.556101	
5,107.00	56.07	315.77	4,981.35	240.63	299.02	1,874,888.02	581,828.48	36.152556	-107.556159	
5,139.00	60.07	314.73	4,998.28	259.91	279.90	1,874,907.25	581,809.31	36.152609	-107.556224	
5,170.00	63.09	313.99	5,013.03	278.97	260.40	1,874,926.25	581,789.76	36.152661	-107.556290	
5,201.00	66.17	314.13	5,026.31	298.45	240.28	1,874,945.67	581,769.58	36.152715	-107.556358	
5,233.00	70.17	315.14	5,038.21	319.32	219.15	1,874,966.48	581,748.39	36.152772	-107.556430	
5,264.00	74.34	316.41	5,047.65	340.47	198.56	1,874,987.58	581,727.74	36.152830	-107.556500	
5,295.00	78.15	317.86	5,055.02	362.54	178.09	1,875,009.58	581,707.20	36.152891	-107.556569	
5,326.00	82.43	318.53	5,060.25	385.31	157.72	1,875,032.30	581,686.78	36.152954	-107.556638	
5,357.00	87.92	318.49	5,062.86	408.44	137.27	1,875,055.37	581,666.25	36.153017	-107.556707	
5,389.00	89.63	318.29	5,063.54	432.36	116.02	1,875,079.23	581,644.94	36.153083	-107.556779	
5,483.00	91.11	317.27	5,062.93	501.97	52.86	1,875,148.66	581,581.58	36.153274	-107.556993	
5,558.00	89.43	317.66	5,062.58	557.23	2.16	1,875,203.78	581,530.72	36.153426	-107.557165	
Last Survey Curve										
5,607.00	90.06	317.31	5,062.80	593.35	-30.95	1,875,239.80	581,497.51	36.153525	-107.557277	
7"Casing@ 5607' MD, 1875239.8 N 581497.51 E										
5,645.66	90.56	317.04	5,062.58	621.71	-57.23	1,875,268.08	581,471.15	36.153603	-107.557366	
NEU 313H POE orig.										
5,653.00	90.66	316.99	5,062.51	627.08	-62.23	1,875,273.44	581,466.13	36.153618	-107.557383	
First Survey Lateral										
5,748.00	90.91	316.44	5,061.20	696.23	-127.36	1,875,342.40	581,400.81	36.153808	-107.557604	
5,843.00	91.38	316.13	5,059.31	764.88	-193.00	1,875,410.86	581,334.97	36.153996	-107.557826	
5,938.00	89.56	316.60	5,058.53	833.63	-258.55	1,875,479.43	581,269.23	36.154185	-107.558048	
6,032.00	90.24	316.51	5,058.69	901.87	-323.19	1,875,547.49	581,204.40	36.154373	-107.558267	
6,127.00	88.99	316.88	5,059.33	971.00	-388.35	1,875,616.43	581,139.04	36.154563	-107.558488	
6,222.00	87.98	315.77	5,061.84	1,039.69	-453.93	1,875,684.93	581,073.27	36.154751	-107.558710	
6,317.00	88.15	314.31	5,065.05	1,106.87	-521.01	1,875,751.92	581,005.99	36.154936	-107.558937	
6,411.00	90.50	315.10	5,066.16	1,172.98	-587.81	1,875,817.85	580,939.00	36.155117	-107.559163	
6,506.00	90.91	314.63	5,064.99	1,240.00	-655.14	1,875,884.67	580,871.49	36.155302	-107.559391	
6,601.00	90.34	316.03	5,063.95	1,307.55	-721.92	1,875,952.03	580,804.51	36.155487	-107.559618	
6,695.00	90.67	315.55	5,063.12	1,374.93	-787.46	1,876,019.22	580,738.78	36.155672	-107.559840	
6,789.00	89.90	315.80	5,062.65	1,442.17	-853.14	1,876,086.28	580,672.91	36.155857	-107.560062	
6,884.00	90.20	314.31	5,062.57	1,509.41	-920.25	1,876,153.33	580,605.61	36.156042	-107.560290	
6,978.00	89.83	313.90	5,062.55	1,574.83	-987.75	1,876,218.56	580,537.93	36.156221	-107.560518	
7,073.00	89.53	314.21	5,063.08	1,640.89	-1,056.02	1,876,284.42	580,469.47	36.156403	-107.560749	
7,168.00	89.66	316.29	5,063.75	1,708.35	-1,122.90	1,876,351.69	580,402.40	36.156588	-107.560976	

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #313H
Project:	Sandovall County, NM 3003 West	TVD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Site:	N Escavada UT 329 Pad	MD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Well:	N Escavada UT #313H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,262.00	89.60	317.61	5,064.36	1,777.04	-1,187.06	1,876,420.19	580,338.04	36.156777	-107.561193
7,357.00	88.29	316.90	5,066.11	1,846.79	-1,251.53	1,876,489.76	580,273.37	36.156968	-107.561412
7,451.00	88.92	316.76	5,068.39	1,915.33	-1,315.82	1,876,558.12	580,208.89	36.157157	-107.561630
7,546.00	89.50	316.97	5,069.70	1,984.65	-1,380.77	1,876,627.25	580,143.74	36.157347	-107.561850
7,640.00	89.43	316.13	5,070.58	2,052.88	-1,445.41	1,876,695.30	580,078.91	36.157535	-107.562069
7,735.00	90.03	315.54	5,071.03	2,121.03	-1,511.60	1,876,763.26	580,012.52	36.157722	-107.562293
7,830.00	88.45	315.68	5,072.29	2,188.91	-1,578.05	1,876,830.95	579,945.88	36.157908	-107.562518
7,924.00	88.66	315.38	5,074.66	2,255.97	-1,643.88	1,876,897.82	579,879.86	36.158092	-107.562741
8,016.00	89.73	315.94	5,075.95	2,321.76	-1,708.17	1,876,963.43	579,815.38	36.158273	-107.562959
8,108.00	89.90	314.70	5,076.25	2,387.17	-1,772.86	1,877,028.66	579,750.51	36.158453	-107.563178
8,200.00	91.07	314.51	5,075.47	2,451.77	-1,838.36	1,877,093.07	579,684.83	36.158630	-107.563400
8,291.00	89.90	315.16	5,074.70	2,515.93	-1,902.88	1,877,157.05	579,620.12	36.158807	-107.563618
8,383.00	89.50	315.83	5,075.18	2,581.54	-1,967.37	1,877,222.48	579,555.45	36.158987	-107.563837
8,474.00	89.56	315.03	5,075.93	2,646.37	-2,031.23	1,877,287.12	579,491.40	36.159165	-107.564053
8,566.00	89.73	314.49	5,076.50	2,711.15	-2,096.55	1,877,351.71	579,425.89	36.159343	-107.564274
8,658.00	90.27	314.60	5,076.50	2,775.68	-2,162.12	1,877,416.06	579,360.14	36.159520	-107.564497
8,750.00	90.60	314.27	5,075.80	2,840.09	-2,227.81	1,877,480.28	579,294.27	36.159697	-107.564719
8,842.00	90.81	313.77	5,074.67	2,904.01	-2,293.96	1,877,544.02	579,227.94	36.159873	-107.564943
8,934.00	88.36	311.28	5,075.33	2,966.19	-2,361.75	1,877,606.00	579,159.97	36.160043	-107.565173
9,025.00	88.56	313.75	5,077.78	3,027.66	-2,428.80	1,877,667.28	579,092.75	36.160212	-107.565400
9,117.00	88.76	313.77	5,079.93	3,091.27	-2,495.23	1,877,730.70	579,026.14	36.160387	-107.565625
9,209.00	89.23	314.88	5,081.55	3,155.54	-2,561.03	1,877,794.79	578,960.15	36.160564	-107.565848
9,300.00	89.70	314.46	5,082.39	3,219.51	-2,625.75	1,877,858.57	578,895.26	36.160739	-107.566067
9,392.00	90.48	314.70	5,082.25	3,284.09	-2,691.28	1,877,922.96	578,829.55	36.160917	-107.566289
9,484.00	90.44	314.18	5,081.51	3,348.50	-2,756.96	1,877,987.19	578,763.68	36.161094	-107.566512
9,576.00	90.54	314.16	5,080.72	3,412.60	-2,822.95	1,878,051.10	578,697.51	36.161270	-107.566735
9,668.00	90.30	314.38	5,080.05	3,476.82	-2,888.82	1,878,115.13	578,631.45	36.161446	-107.566958
9,759.00	89.56	316.23	5,080.16	3,541.51	-2,952.82	1,878,179.63	578,567.27	36.161624	-107.567175
9,851.00	89.16	315.70	5,081.19	3,607.64	-3,016.77	1,878,245.59	578,503.14	36.161805	-107.567392
9,943.00	88.32	314.62	5,083.21	3,672.86	-3,081.62	1,878,310.62	578,438.10	36.161985	-107.567612
10,035.00	89.66	315.95	5,084.83	3,738.22	-3,146.34	1,878,375.80	578,373.20	36.162164	-107.567831
10,126.00	89.63	316.12	5,085.40	3,803.72	-3,209.51	1,878,441.12	578,309.84	36.162344	-107.568045
10,218.00	89.33	315.29	5,086.23	3,869.57	-3,273.76	1,878,506.78	578,245.40	36.162525	-107.568263
10,309.00	89.50	315.04	5,087.16	3,934.10	-3,337.91	1,878,571.13	578,181.06	36.162702	-107.568480
10,402.00	89.66	314.74	5,087.84	3,999.73	-3,403.80	1,878,636.57	578,114.99	36.162882	-107.568703
10,493.00	89.73	314.67	5,088.33	4,063.74	-3,468.47	1,878,700.40	578,050.13	36.163058	-107.568922
10,585.00	89.73	316.19	5,088.76	4,129.28	-3,533.04	1,878,765.76	577,985.39	36.163238	-107.569141
10,677.00	89.60	316.36	5,089.30	4,195.76	-3,596.62	1,878,832.06	577,921.61	36.163421	-107.569357
10,769.00	89.16	316.20	5,090.30	4,262.25	-3,660.20	1,878,898.36	577,857.84	36.163604	-107.569572
10,860.00	89.63	316.58	5,091.26	4,328.13	-3,722.97	1,878,964.07	577,794.89	36.163785	-107.569785
10,952.00	90.57	316.50	5,091.10	4,394.91	-3,786.25	1,879,030.67	577,731.42	36.163968	-107.569999
11,044.00	88.02	312.49	5,092.23	4,459.37	-3,851.85	1,879,094.94	577,665.63	36.164145	-107.570221
11,135.00	89.03	314.46	5,094.57	4,521.95	-3,917.86	1,879,157.34	577,599.45	36.164317	-107.570445
11,227.00	88.82	316.70	5,096.30	4,587.65	-3,982.24	1,879,222.85	577,534.88	36.164497	-107.570663
11,319.00	89.56	316.76	5,097.60	4,654.63	-4,045.29	1,879,289.65	577,471.64	36.164681	-107.570877
11,410.00	89.97	316.39	5,097.97	4,720.72	-4,107.84	1,879,355.56	577,408.90	36.164863	-107.571089
11,502.00	90.03	316.13	5,097.97	4,787.19	-4,171.45	1,879,421.85	577,345.10	36.165045	-107.571304
11,594.00	89.29	313.72	5,098.52	4,852.15	-4,236.58	1,879,486.62	577,279.79	36.165224	-107.571525
11,688.00	89.53	313.39	5,099.48	4,916.92	-4,304.70	1,879,551.20	577,211.48	36.165402	-107.571756
11,783.00	89.66	313.05	5,100.16	4,981.97	-4,373.93	1,879,616.05	577,142.07	36.165581	-107.571990
11,878.00	89.03	310.44	5,101.24	5,045.21	-4,444.80	1,879,679.09	577,071.02	36.165754	-107.572230
11,972.00	89.13	313.40	5,102.75	5,108.00	-4,514.73	1,879,741.68	577,000.92	36.165927	-107.572467
12,067.00	89.60	315.81	5,103.80	5,174.70	-4,582.35	1,879,808.19	576,933.10	36.166110	-107.572696
12,162.00	89.34	317.69	5,104.68	5,243.89	-4,647.44	1,879,877.19	576,867.82	36.166300	-107.572917
12,257.00	90.07	317.36	5,105.17	5,313.96	-4,711.59	1,879,947.08	576,803.47	36.166492	-107.573134

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #313H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Site:	N Escavada UT 329 Pad	MD Reference:	GL 6944 + KB 21= @ 6965.00usft (Cyclone 32)
Well:	N Escavada UT #313H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
12,351.00	89.46	316.97	5,105.56	5,382.89	-4,775.50	1,880,015.83	576,739.36	36.166682	-107.573351	
12,446.00	89.73	316.79	5,106.23	5,452.23	-4,840.43	1,880,084.98	576,674.23	36.166872	-107.573571	
12,540.00	90.30	316.46	5,106.21	5,520.56	-4,904.99	1,880,153.12	576,609.48	36.167060	-107.573790	
12,635.00	90.47	315.60	5,105.57	5,588.92	-4,970.94	1,880,221.31	576,543.34	36.167248	-107.574013	
12,729.00	89.70	312.36	5,105.43	5,654.19	-5,038.57	1,880,286.38	576,475.52	36.167427	-107.574242	
12,783.00	89.80	311.27	5,105.66	5,690.19	-5,078.82	1,880,322.27	576,435.17	36.167526	-107.574379	
RSI@ 12783' MD, 1880322.27 N & 576435.17 E										
12,784.00	89.80	311.25	5,105.67	5,690.85	-5,079.57	1,880,322.92	576,434.42	36.167528	-107.574381	
Last Survey Lateral										
12,847.00	89.80	311.25	5,105.89	5,732.39	-5,126.94	1,880,364.33	576,386.93	36.167642	-107.574542	
BP@ 12847 MD, 1880364.33 N & 576386.93 E - NEU 313H BHL										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
376.00	375.94	2.55	-3.58	First Survey Int.	
4,387.00	4,349.49	44.11	502.37	Last Survey Int.	
4,419.00	4,381.48	43.95	502.06	First Survey Curve	
5,558.00	5,062.58	557.23	2.16	Last Survey Curve	
5,607.00	5,062.80	593.35	-30.95	7"Casing@ 5607' MD, 1875239.8 N 581497.51 E	
5,653.00	5,062.51	627.08	-62.23	First Survey Lateral	
12,783.00	5,105.66	5,690.19	-5,078.82	RSI@ 12783' MD, 1880322.27 N & 576435.17 E	
12,784.00	5,105.67	5,690.85	-5,079.57	Last Survey Lateral	
12,847.00	5,105.89	5,732.39	-5,126.94	BP@ 12847 MD, 1880364.33 N & 576386.93 E	

Checked By: _____ Approved By: _____ Date: _____