

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

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21294		*Pool Code 98172	*Pool Name ESCAVADA N; MANCOS
*Property Code 316006	*Property Name N ESCAVADA UNIT		*Well Number 312H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6961'

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
0	11	22N	7W		515	SOUTH	2378	EAST	SANDOVAL

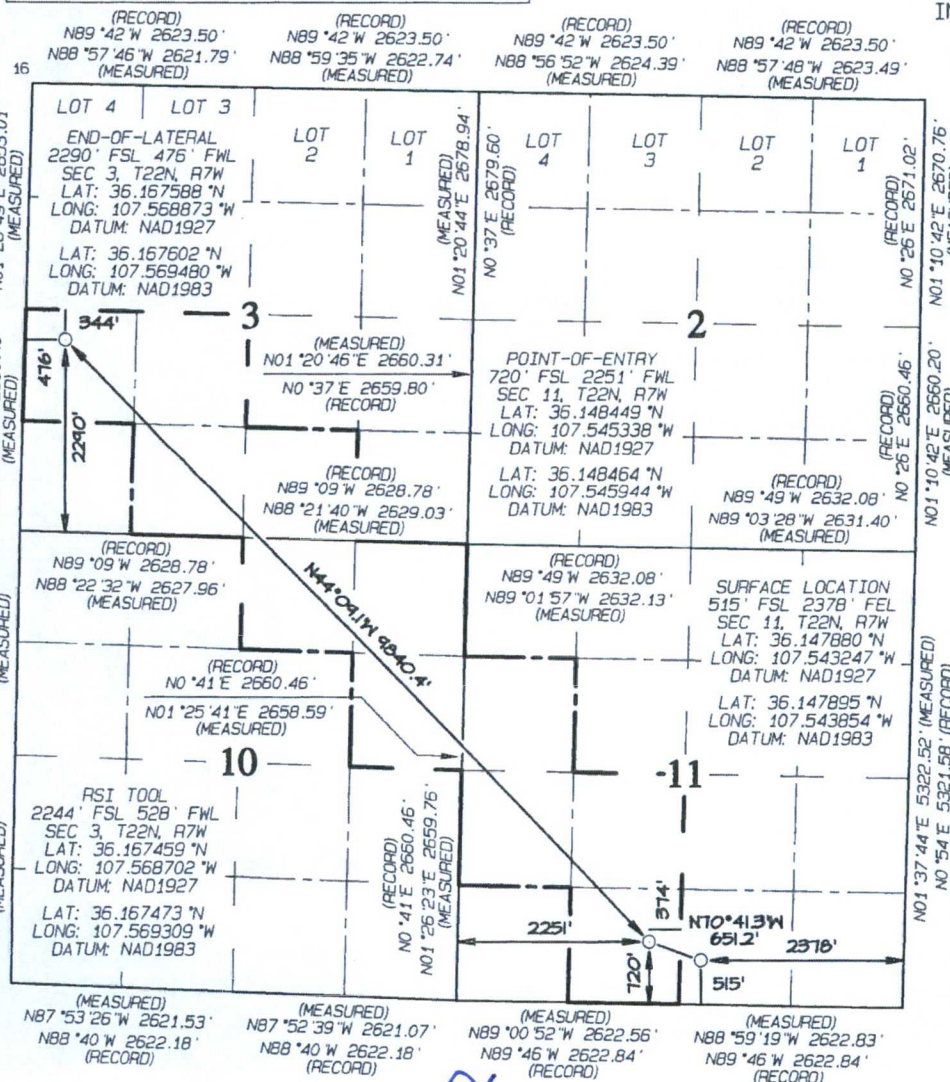
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	3	22N	7W		2290	SOUTH	476	WEST	SANDOVAL

12 Dedicated Acres 440.0 N/2 SW/4, SE/4 SW/4 SW/4 SE/4 - Section 3 N/2 NE/4, SE/4 NE/4 - Section 10 SW/4 NW/4, N/2 SW/4 SE/4 SW/4 - Section 11		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: Lacey Granillo
Date: 2/8/18
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: OCTOBER 23, 2017
Date of Survey: MARCH 16, 2016

Signature and Seal of Professional Surveyor

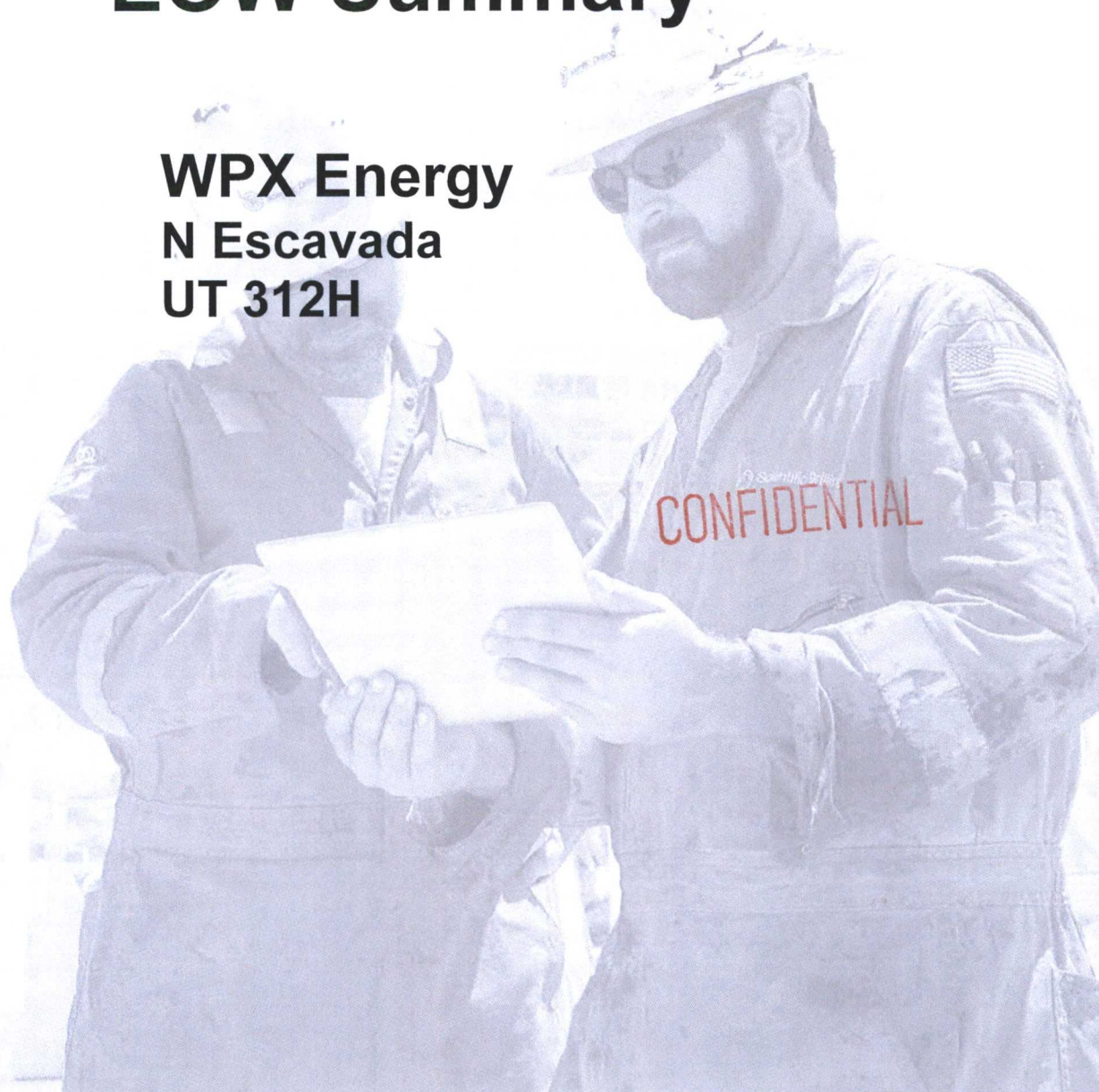


JASON C. EDWARDS
Certificate Number 15269



EOW Summary

WPX Energy
N Escavada
UT 312H





N Escavada UT 312H
Sandoval County, NM 3003 West
Northing: 1873197.03
Easting: 585645.55
Actual

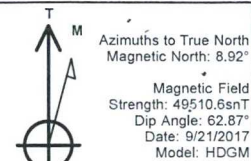
GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
GL @ 6961.00



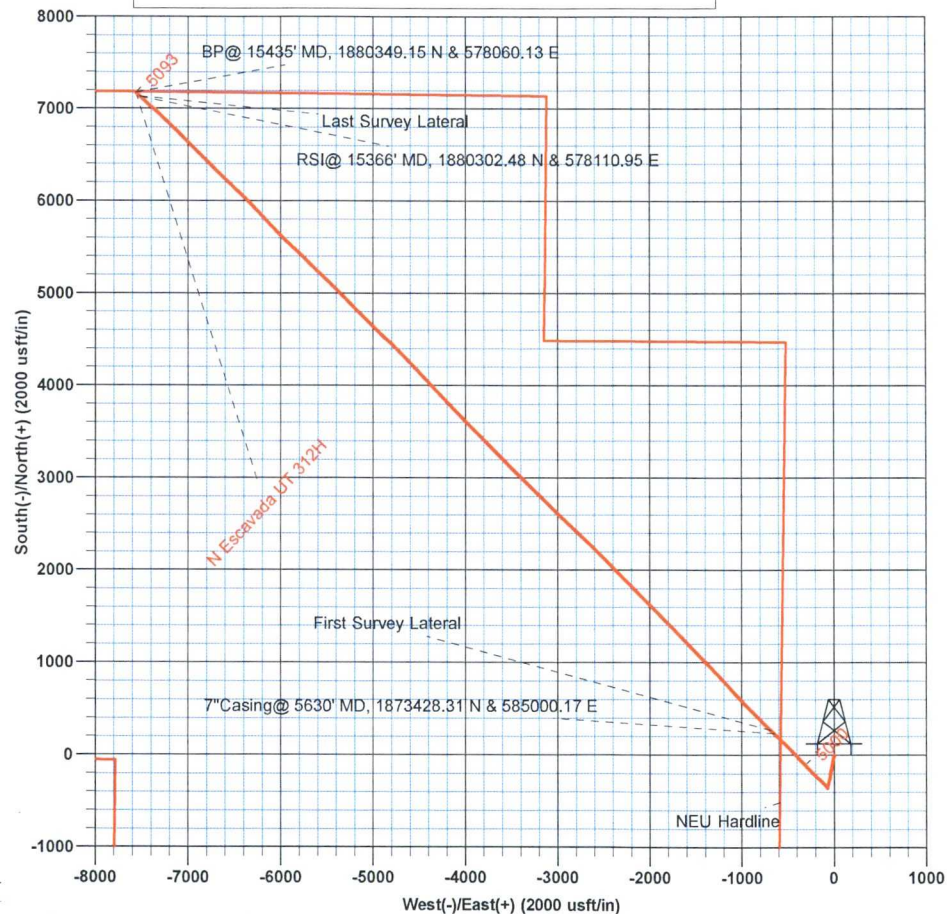
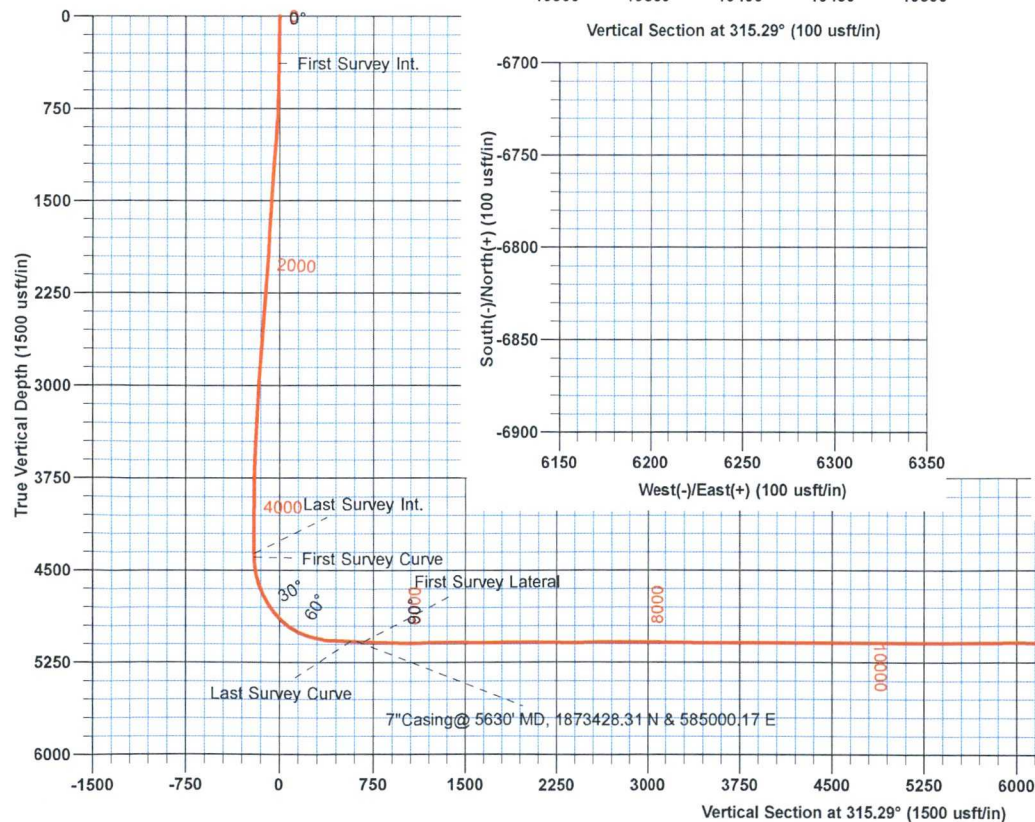
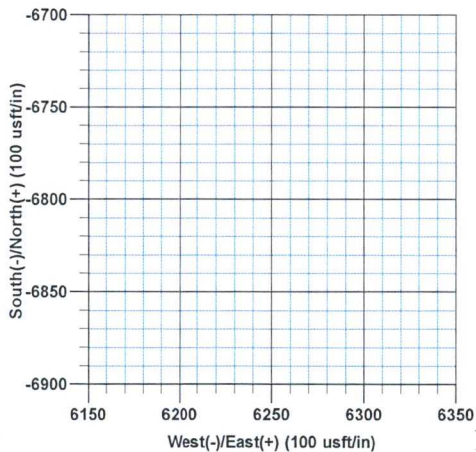
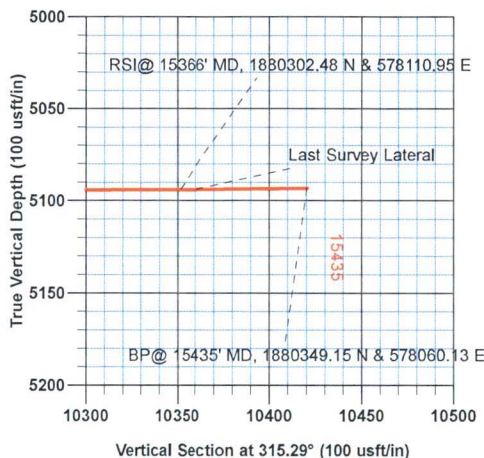
WELL DETAILS

		Ground Level: 6961.00		Escavada UT 312H	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1873197.03	585645.55	36.147880	-107.543247

TVD	MD	ANNOTATIONS
384.98	385.00	Annotation
4363.69	4384.00	First Survey Int.
4394.69	4415.00	Last Survey Int.
5075.67	5583.00	First Survey Curve
5077.70	5630.00	Last Survey Curve
5080.43	5630.00	7"Casing@ 5630' MD, 1873428.31 N & 585000.17 E
5094.01	5683.00	First Survey Lateral
5094.01	5683.00	RSI@ 15366' MD, 1880302.48 N & 578110.95 E
5093.93	5683.00	Last Survey Lateral
5093.34	5683.00	BP@ 15435' MD, 1880349.15 N & 578060.13 E



Magnetic Field
Strength: 49510.6snT
Dip Angle: 62.87°
Date: 9/21/2017
Model: HDGM



Bailey Fellows
10:42, October 18 2017

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

WPX Energy

Sandoval County, NM 3003 West
N Escavada UT 311-312 Pad
N Escavada UT 312H
API: 30-403-21294
Wellbore #1

Design: Actual

Survey Report - Geographic

18 October, 2017



www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 312H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Site:	N Escavada UT 311-312 Pad	MD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Well:	N Escavada UT 312H	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 311-312 Pad			
Site Position:		Northing:	1,873,197.03 usft	Latitude:	36.147880
From:	Lat/Long	Easting:	585,645.55 usft	Longitude:	-107.543247
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Well	N Escavada UT 312H					
Well Position	+N/-S	0.00 usft	Northing:	1,873,197.03 usft	Latitude:	36.147880
	+E/-W	0.00 usft	Easting:	585,645.55 usft	Longitude:	-107.543247
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,961.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/21/2017	8.92	62.87	49,511

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	315.29	

Survey Program	Date	10/18/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	317.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
385.00	4,384.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,415.00	5,583.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,683.00	15,435.00	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	1,873,197.03	585,645.55	36.147880	-107.543247	
21.00	0.00	0.00	21.00	0.00	0.00	1,873,197.03	585,645.55	36.147880	-107.543247	
51.00	0.30	177.73	51.00	-0.08	0.00	1,873,196.95	585,645.56	36.147880	-107.543247	
81.00	0.35	182.63	81.00	-0.25	0.00	1,873,196.78	585,645.56	36.147879	-107.543247	
111.00	0.50	173.82	111.00	-0.47	0.01	1,873,196.56	585,645.57	36.147879	-107.543247	
141.00	0.70	162.96	141.00	-0.78	0.08	1,873,196.25	585,645.64	36.147878	-107.543247	
171.00	0.54	170.86	171.00	-1.09	0.16	1,873,195.94	585,645.71	36.147877	-107.543247	
201.00	0.68	155.30	200.99	-1.39	0.25	1,873,195.64	585,645.81	36.147876	-107.543246	
231.00	0.62	138.91	230.99	-1.68	0.43	1,873,195.35	585,645.99	36.147875	-107.543246	

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 312H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Site:	N Escavada UT 311-312 Pad	MD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Well:	N Escavada UT 312H	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	0.60	119.54	260.99	-1.88	0.68	1,873,195.15	585,646.24	36.147875	-107.543245
291.00	0.69	126.69	290.99	-2.06	0.96	1,873,194.97	585,646.52	36.147874	-107.543244
317.00	0.70	140.38	316.99	-2.28	1.19	1,873,194.75	585,646.75	36.147874	-107.543243
385.00	0.76	145.25	384.98	-2.97	1.71	1,873,194.07	585,647.27	36.147872	-107.543241
First Survey Int.									
447.00	0.82	149.19	446.97	-3.69	2.17	1,873,193.35	585,647.73	36.147870	-107.543240
540.00	2.08	194.19	539.95	-5.89	2.10	1,873,191.14	585,647.67	36.147864	-107.543240
633.00	3.23	196.88	632.84	-10.04	0.92	1,873,186.99	585,646.51	36.147853	-107.543244
727.00	4.71	199.84	726.62	-16.20	-1.16	1,873,180.82	585,644.45	36.147836	-107.543251
820.00	6.19	196.27	819.19	-24.61	-3.86	1,873,172.41	585,641.77	36.147812	-107.543260
913.00	7.31	191.56	911.55	-35.22	-6.45	1,873,161.79	585,639.21	36.147783	-107.543269
1,007.00	7.99	192.74	1,004.71	-47.45	-9.09	1,873,149.55	585,636.61	36.147750	-107.543278
1,100.00	7.90	188.36	1,096.82	-60.08	-11.44	1,873,136.92	585,634.29	36.147715	-107.543286
1,193.00	8.49	188.24	1,188.87	-73.19	-13.36	1,873,123.79	585,632.42	36.147679	-107.543293
1,287.00	6.65	190.82	1,282.05	-85.41	-15.37	1,873,111.57	585,630.44	36.147645	-107.543299
1,380.00	6.14	191.62	1,374.47	-95.57	-17.38	1,873,101.41	585,628.46	36.147618	-107.543306
1,473.00	6.23	190.07	1,466.93	-105.41	-19.27	1,873,091.56	585,626.60	36.147591	-107.543313
1,567.00	6.37	189.92	1,560.36	-115.57	-21.06	1,873,081.40	585,624.84	36.147563	-107.543319
1,660.00	5.92	191.94	1,652.82	-125.34	-22.94	1,873,071.62	585,622.99	36.147536	-107.543325
1,753.00	5.09	186.68	1,745.39	-134.13	-24.41	1,873,062.82	585,621.54	36.147512	-107.543330
1,847.00	4.99	201.71	1,839.03	-142.07	-26.41	1,873,054.88	585,619.57	36.147490	-107.543337
1,940.00	6.37	195.88	1,931.58	-150.79	-29.32	1,873,046.15	585,616.69	36.147466	-107.543347
2,033.00	7.52	191.39	2,023.89	-161.72	-31.93	1,873,035.21	585,614.11	36.147436	-107.543355
2,127.00	6.67	191.00	2,117.17	-173.11	-34.19	1,873,023.82	585,611.88	36.147405	-107.543363
2,220.00	7.76	188.20	2,209.44	-184.63	-36.11	1,873,012.29	585,609.99	36.147373	-107.543370
2,313.00	7.90	187.30	2,301.57	-197.18	-37.82	1,872,999.74	585,608.32	36.147338	-107.543375
2,407.00	7.54	188.10	2,394.72	-209.69	-39.51	1,872,987.22	585,606.67	36.147304	-107.543381
2,500.00	7.63	190.30	2,486.90	-221.81	-41.47	1,872,975.10	585,604.74	36.147271	-107.543388
2,593.00	7.00	189.02	2,579.15	-233.48	-43.47	1,872,963.42	585,602.78	36.147239	-107.543394
2,687.00	7.34	184.87	2,672.41	-245.12	-44.87	1,872,951.77	585,601.41	36.147207	-107.543399
2,780.00	7.40	193.75	2,764.65	-256.86	-46.80	1,872,940.03	585,599.52	36.147174	-107.543406
2,873.00	7.03	195.01	2,856.91	-268.17	-49.70	1,872,928.71	585,596.66	36.147143	-107.543416
2,969.00	6.31	193.57	2,952.26	-278.97	-52.46	1,872,917.90	585,593.93	36.147114	-107.543425
3,064.00	6.37	196.03	3,046.68	-289.11	-55.14	1,872,907.75	585,591.28	36.147086	-107.543434
3,159.00	6.32	193.46	3,141.10	-299.26	-57.81	1,872,897.59	585,588.64	36.147058	-107.543443
3,254.00	5.97	193.50	3,235.55	-309.15	-60.18	1,872,887.69	585,586.30	36.147031	-107.543451
3,349.00	6.17	196.28	3,330.02	-318.86	-62.77	1,872,877.98	585,583.74	36.147004	-107.543460
3,444.00	6.22	192.84	3,424.46	-328.78	-65.34	1,872,868.06	585,581.19	36.146977	-107.543469
3,539.00	4.62	195.89	3,519.04	-337.47	-67.53	1,872,859.35	585,579.03	36.146953	-107.543476
3,634.00	3.07	185.78	3,613.82	-343.69	-68.84	1,872,853.14	585,577.74	36.146936	-107.543480
3,729.00	1.50	180.56	3,708.74	-347.46	-69.11	1,872,849.36	585,577.49	36.146926	-107.543481
3,824.00	0.58	132.05	3,803.73	-349.03	-68.76	1,872,847.80	585,577.84	36.146921	-107.543480
3,919.00	0.79	161.91	3,898.72	-349.97	-68.20	1,872,846.85	585,578.40	36.146919	-107.543478
4,014.00	0.77	155.30	3,993.71	-351.17	-67.73	1,872,845.65	585,578.87	36.146915	-107.543477
4,109.00	0.84	170.09	4,088.70	-352.44	-67.34	1,872,844.39	585,579.26	36.146912	-107.543475
4,204.00	0.45	301.59	4,183.70	-352.93	-67.54	1,872,843.90	585,579.07	36.146911	-107.543476
4,299.00	0.46	261.82	4,278.70	-352.79	-68.24	1,872,844.04	585,578.37	36.146911	-107.543478
4,352.00	0.53	243.92	4,331.69	-352.93	-68.67	1,872,843.90	585,577.94	36.146911	-107.543480
4,384.00	0.56	225.75	4,363.69	-353.10	-68.91	1,872,843.72	585,577.70	36.146910	-107.543481
Last Survey Int.									
4,415.00	1.72	316.41	4,394.69	-352.87	-69.34	1,872,843.95	585,577.27	36.146911	-107.543482
First Survey Curve									
4,447.00	4.12	327.20	4,426.64	-351.56	-70.30	1,872,845.26	585,576.31	36.146914	-107.543485
4,479.00	6.35	326.02	4,458.51	-349.12	-71.91	1,872,847.69	585,574.69	36.146921	-107.543491
4,511.00	8.94	326.77	4,490.22	-345.57	-74.26	1,872,851.23	585,572.33	36.146931	-107.543499

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 312H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Site:	N Escavada UT 311-312 Pad	MD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Well:	N Escavada UT 312H	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
4,542.00	11.69	327.71	4,520.72	-340.90	-77.26	1,872,855.90	585,569.32	36.146944	-107.543509
4,574.00	14.29	327.95	4,551.90	-334.81	-81.09	1,872,861.97	585,565.47	36.146960	-107.543522
4,606.00	16.79	325.95	4,582.72	-327.64	-85.77	1,872,869.14	585,560.76	36.146980	-107.543538
4,637.00	18.78	320.23	4,612.24	-320.09	-91.47	1,872,876.67	585,555.04	36.147001	-107.543557
4,669.00	20.80	316.90	4,642.35	-311.98	-98.65	1,872,884.75	585,547.84	36.147023	-107.543581
4,701.00	22.61	315.04	4,672.08	-303.48	-106.88	1,872,893.23	585,539.58	36.147046	-107.543609
4,732.00	24.56	313.51	4,700.49	-294.83	-115.76	1,872,901.86	585,530.67	36.147070	-107.543639
4,764.00	26.82	312.18	4,729.33	-285.40	-125.94	1,872,911.25	585,520.47	36.147096	-107.543674
4,796.00	30.22	311.98	4,757.44	-275.16	-137.28	1,872,921.46	585,509.10	36.147124	-107.543712
4,828.00	33.10	311.42	4,784.67	-263.99	-149.82	1,872,932.59	585,496.53	36.147155	-107.543755
4,859.00	35.34	310.97	4,810.31	-252.51	-162.94	1,872,944.03	585,483.37	36.147186	-107.543799
4,891.00	37.95	311.33	4,835.98	-239.94	-177.32	1,872,956.56	585,468.96	36.147221	-107.543848
4,922.00	40.40	312.76	4,860.01	-226.83	-191.85	1,872,969.63	585,454.38	36.147257	-107.543897
4,954.00	42.90	314.49	4,883.92	-212.15	-207.24	1,872,984.26	585,438.95	36.147297	-107.543949
4,986.00	45.62	315.96	4,906.84	-196.29	-222.96	1,873,000.07	585,423.18	36.147341	-107.544002
5,018.00	49.02	316.47	4,928.53	-179.31	-239.23	1,873,017.00	585,406.86	36.147387	-107.544058
5,049.00	51.65	316.35	4,948.31	-162.03	-255.69	1,873,034.24	585,390.35	36.147435	-107.544113
5,081.00	55.48	316.35	4,967.31	-143.40	-273.45	1,873,052.81	585,372.53	36.147486	-107.544173
5,113.00	58.77	315.78	4,984.68	-124.05	-292.10	1,873,072.10	585,353.83	36.147539	-107.544237
5,144.00	62.46	315.79	4,999.89	-104.70	-310.93	1,873,091.40	585,334.94	36.147592	-107.544300
5,176.00	66.48	315.99	5,013.68	-83.97	-331.03	1,873,112.07	585,314.78	36.147649	-107.544368
5,208.00	69.76	315.99	5,025.60	-62.61	-351.66	1,873,133.36	585,294.09	36.147708	-107.544438
5,239.00	72.61	316.19	5,035.60	-41.48	-372.00	1,873,154.44	585,273.68	36.147766	-107.544507
5,271.00	75.36	316.37	5,044.43	-19.25	-393.26	1,873,176.60	585,252.35	36.147827	-107.544579
5,303.00	77.54	316.65	5,051.92	3.32	-414.67	1,873,199.11	585,230.88	36.147889	-107.544652
5,335.00	78.36	316.46	5,058.60	26.04	-436.19	1,873,221.77	585,209.29	36.147952	-107.544725
5,366.00	80.81	316.23	5,064.21	48.10	-457.23	1,873,243.76	585,188.18	36.148012	-107.544796
5,398.00	83.94	315.98	5,068.45	70.95	-479.22	1,873,266.55	585,166.12	36.148075	-107.544870
5,430.00	86.98	315.59	5,070.99	93.81	-501.46	1,873,289.34	585,143.81	36.148138	-107.544946
5,461.00	88.39	315.23	5,072.24	115.87	-523.21	1,873,311.33	585,122.00	36.148198	-107.545019
5,525.00	88.69	313.69	5,073.87	160.68	-568.87	1,873,356.01	585,076.20	36.148321	-107.545174
5,583.00	87.75	314.02	5,075.67	200.84	-610.68	1,873,396.05	585,034.28	36.148432	-107.545316
Last Survey Curve									
5,592.19	87.66	313.85	5,076.04	207.22	-617.29	1,873,402.40	585,027.65	36.148449	-107.545338
NEU312H POE									
5,630.00	87.30	313.13	5,077.70	233.21	-644.69	1,873,428.31	585,000.17	36.148521	-107.545431
7"Casing@ 5630' MD, 1873428.31 N & 585000.17 E									
5,683.00	86.79	312.12	5,080.43	269.05	-683.64	1,873,464.04	584,961.11	36.148619	-107.545563
First Survey Lateral									
5,778.00	87.92	313.20	5,084.82	333.36	-753.42	1,873,528.13	584,891.14	36.148796	-107.545799
5,873.00	88.12	315.89	5,088.10	399.95	-821.08	1,873,594.53	584,823.28	36.148979	-107.546028
5,968.00	89.26	316.19	5,090.27	468.32	-887.01	1,873,662.69	584,757.15	36.149167	-107.546252
6,063.00	90.94	316.06	5,090.11	536.79	-952.85	1,873,730.97	584,691.10	36.149355	-107.546475
6,159.00	91.58	316.21	5,088.00	605.99	-1,019.36	1,873,799.97	584,624.39	36.149545	-107.546700
6,254.00	92.21	316.16	5,084.85	674.50	-1,085.09	1,873,868.29	584,558.45	36.149733	-107.546923
6,349.00	90.34	316.12	5,082.74	742.98	-1,150.90	1,873,936.57	584,492.44	36.149921	-107.547146
6,444.00	88.83	316.72	5,083.43	811.80	-1,216.39	1,874,005.19	584,426.75	36.150110	-107.547367
6,539.00	88.62	316.31	5,085.54	880.71	-1,281.75	1,874,073.90	584,361.18	36.150299	-107.547589
6,634.00	89.90	316.34	5,086.77	949.41	-1,347.34	1,874,142.41	584,295.38	36.150488	-107.547811
6,729.00	90.07	316.61	5,086.79	1,018.29	-1,412.77	1,874,211.10	584,229.75	36.150677	-107.548033
6,824.00	90.30	316.75	5,086.49	1,087.41	-1,477.94	1,874,280.02	584,164.37	36.150867	-107.548253
6,919.00	90.34	316.43	5,085.96	1,156.42	-1,543.23	1,874,348.83	584,098.88	36.151057	-107.548474
7,014.00	90.03	316.18	5,085.65	1,225.11	-1,608.85	1,874,417.32	584,033.05	36.151246	-107.548697
7,109.00	89.93	316.19	5,085.68	1,293.66	-1,674.63	1,874,485.68	583,967.07	36.151434	-107.548920

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 312H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Site:	N Escavada UT 311-312 Pad	MD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Well:	N Escavada UT 312H	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	
7,204.00	89.43	315.49	5,086.21	1,361.81	-1,740.81	1,874,553.63	583,900.69	36.151621	-107.549144	
7,299.00	89.50	315.43	5,087.10	1,429.52	-1,807.44	1,874,621.14	583,833.85	36.151807	-107.549369	
7,395.00	89.90	315.10	5,087.60	1,497.71	-1,875.01	1,874,689.13	583,766.08	36.151994	-107.549598	
7,490.00	90.50	315.49	5,087.27	1,565.23	-1,941.83	1,874,756.45	583,699.06	36.152180	-107.549825	
7,585.00	90.60	315.34	5,086.36	1,632.89	-2,008.52	1,874,823.91	583,632.17	36.152366	-107.550051	
7,680.00	90.91	315.44	5,085.11	1,700.51	-2,075.23	1,874,891.33	583,565.26	36.152551	-107.550277	
7,775.00	89.77	315.89	5,084.54	1,768.46	-2,141.62	1,874,959.08	583,498.67	36.152738	-107.550501	
7,870.00	90.07	316.04	5,084.68	1,836.76	-2,207.65	1,875,027.18	583,432.43	36.152926	-107.550725	
7,965.00	89.53	315.25	5,085.01	1,904.68	-2,274.06	1,875,094.91	583,365.81	36.153112	-107.550950	
8,060.00	90.07	315.33	5,085.34	1,972.20	-2,340.90	1,875,162.22	583,298.78	36.153298	-107.551177	
8,155.00	89.40	315.32	5,085.78	2,039.75	-2,407.69	1,875,229.58	583,231.78	36.153483	-107.551403	
8,250.00	89.13	314.85	5,087.00	2,107.02	-2,474.76	1,875,296.65	583,164.51	36.153668	-107.551630	
8,345.00	89.50	314.64	5,088.13	2,173.89	-2,542.23	1,875,363.31	583,096.85	36.153852	-107.551859	
8,440.00	89.70	314.41	5,088.80	2,240.50	-2,609.95	1,875,429.73	583,028.92	36.154035	-107.552088	
8,535.00	90.07	314.06	5,088.99	2,306.78	-2,678.02	1,875,495.79	582,960.66	36.154217	-107.552319	
8,630.00	90.34	313.79	5,088.65	2,372.68	-2,746.44	1,875,561.49	582,892.04	36.154398	-107.552550	
8,725.00	90.77	313.81	5,087.73	2,438.43	-2,815.01	1,875,627.04	582,823.28	36.154578	-107.552783	
8,820.00	89.43	313.03	5,087.56	2,503.72	-2,884.01	1,875,692.13	582,754.08	36.154758	-107.553016	
8,916.00	89.50	312.83	5,088.46	2,569.11	-2,954.29	1,875,757.30	582,683.60	36.154937	-107.553254	
9,011.00	89.76	315.05	5,089.07	2,635.02	-3,022.69	1,875,823.01	582,615.00	36.155119	-107.553486	
9,106.00	90.47	315.20	5,088.88	2,702.34	-3,089.72	1,875,890.13	582,547.78	36.155303	-107.553713	
9,201.00	89.83	314.01	5,088.63	2,769.05	-3,157.36	1,875,956.64	582,479.94	36.155487	-107.553942	
9,296.00	90.07	313.86	5,088.71	2,834.97	-3,225.77	1,876,022.35	582,411.33	36.155668	-107.554174	
9,391.00	89.36	315.52	5,089.19	2,901.77	-3,293.30	1,876,088.95	582,343.60	36.155851	-107.554403	
9,486.00	89.90	315.43	5,089.80	2,969.50	-3,359.92	1,876,156.48	582,276.78	36.156037	-107.554629	
9,581.00	90.10	315.17	5,089.80	3,037.03	-3,426.74	1,876,223.81	582,209.76	36.156223	-107.554855	
9,676.00	89.90	314.22	5,089.80	3,103.84	-3,494.27	1,876,290.42	582,142.03	36.156406	-107.555084	
9,771.00	89.80	315.87	5,090.05	3,171.07	-3,561.39	1,876,357.45	582,074.71	36.156591	-107.555311	
9,866.00	90.37	315.65	5,089.91	3,239.13	-3,627.67	1,876,425.31	582,008.23	36.156778	-107.555536	
9,961.00	90.97	315.76	5,088.80	3,307.12	-3,694.01	1,876,493.10	581,941.69	36.156965	-107.555760	
10,056.00	91.01	315.46	5,087.16	3,375.00	-3,760.45	1,876,560.78	581,875.04	36.157151	-107.555986	
10,151.00	88.86	315.03	5,087.26	3,442.46	-3,827.34	1,876,628.04	581,807.95	36.157336	-107.556212	
10,246.00	89.63	314.88	5,088.52	3,509.57	-3,894.56	1,876,694.95	581,740.53	36.157521	-107.556440	
10,339.00	89.70	315.04	5,089.06	3,575.28	-3,960.36	1,876,760.47	581,674.53	36.157701	-107.556663	
10,432.00	89.97	315.37	5,089.33	3,641.28	-4,025.89	1,876,826.27	581,608.81	36.157883	-107.556885	
10,526.00	90.17	315.67	5,089.21	3,708.35	-4,091.75	1,876,893.14	581,542.75	36.158067	-107.557108	
10,619.00	90.40	316.44	5,088.75	3,775.31	-4,156.29	1,876,959.90	581,478.01	36.158251	-107.557327	
10,712.00	90.37	316.58	5,088.13	3,842.78	-4,220.29	1,877,027.18	581,413.80	36.158436	-107.557543	
10,806.00	90.44	316.75	5,087.46	3,911.15	-4,284.80	1,877,095.36	581,349.09	36.158624	-107.557762	
10,899.00	90.27	316.64	5,086.88	3,978.82	-4,348.58	1,877,162.84	581,285.11	36.158810	-107.557978	
10,992.00	90.24	316.54	5,086.47	4,046.38	-4,412.49	1,877,230.21	581,220.99	36.158995	-107.558195	
11,086.00	89.40	316.48	5,086.77	4,114.58	-4,477.19	1,877,298.21	581,156.10	36.159183	-107.558414	
11,179.00	89.70	316.80	5,087.50	4,182.19	-4,541.04	1,877,365.64	581,092.05	36.159368	-107.558630	
11,272.00	90.81	317.93	5,087.08	4,250.61	-4,604.03	1,877,433.86	581,028.85	36.159556	-107.558844	
11,366.00	91.04	316.51	5,085.56	4,319.59	-4,667.86	1,877,502.66	580,964.81	36.159746	-107.559060	
11,459.00	90.87	314.78	5,084.01	4,386.07	-4,732.86	1,877,568.95	580,899.61	36.159928	-107.559280	
11,552.00	89.87	312.79	5,083.41	4,450.42	-4,800.00	1,877,633.09	580,832.28	36.160105	-107.559508	
11,646.00	89.70	312.00	5,083.77	4,513.80	-4,869.42	1,877,696.26	580,762.68	36.160279	-107.559743	
11,739.00	89.36	313.52	5,084.53	4,576.93	-4,937.69	1,877,759.19	580,694.21	36.160453	-107.559974	
11,832.00	89.80	315.37	5,085.21	4,642.05	-5,004.08	1,877,824.11	580,627.63	36.160631	-107.560199	
11,925.00	90.54	315.29	5,084.94	4,708.19	-5,069.47	1,877,890.05	580,562.05	36.160813	-107.560421	
12,019.00	91.11	315.18	5,083.58	4,774.92	-5,135.65	1,877,956.59	580,495.66	36.160996	-107.560645	
12,112.00	90.67	316.38	5,082.14	4,841.56	-5,200.50	1,878,023.04	580,430.61	36.161179	-107.560865	
12,206.00	89.03	315.78	5,082.38	4,909.27	-5,265.70	1,878,090.55	580,365.21	36.161365	-107.561085	
12,299.00	89.77	315.90	5,083.36	4,975.98	-5,330.49	1,878,157.07	580,300.23	36.161549	-107.561305	

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 312H
Project:	Sandovall County, NM 3003 West	TVD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Site:	N Escavada UT 311-312 Pad	MD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Well:	N Escavada UT 312H	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
12,392.00	90.44	315.60	5,083.19	5,042.60	-5,395.38	1,878,223.49	580,235.13	36.161732	-107.561525
12,486.00	90.40	314.75	5,082.50	5,109.27	-5,461.65	1,878,289.96	580,168.67	36.161915	-107.561749
12,579.00	88.93	312.02	5,083.04	5,173.14	-5,529.22	1,878,353.63	580,100.90	36.162090	-107.561978
12,672.00	89.03	314.41	5,084.70	5,236.80	-5,596.99	1,878,417.09	580,032.95	36.162265	-107.562208
12,766.00	89.56	314.29	5,085.85	5,302.51	-5,664.20	1,878,482.60	579,965.54	36.162445	-107.562436
12,859.00	88.29	315.11	5,087.60	5,367.91	-5,730.29	1,878,547.80	579,899.26	36.162625	-107.562660
12,952.00	88.66	314.03	5,090.07	5,433.15	-5,796.52	1,878,612.84	579,832.84	36.162804	-107.562884
13,046.00	86.75	311.19	5,093.84	5,496.73	-5,865.63	1,878,676.22	579,763.53	36.162979	-107.563118
13,141.00	86.68	313.69	5,099.28	5,560.73	-5,935.62	1,878,740.00	579,693.35	36.163155	-107.563355
13,236.00	87.45	316.74	5,104.15	5,628.06	-6,002.45	1,878,807.13	579,626.33	36.163340	-107.563582
13,331.00	89.70	317.21	5,106.51	5,697.48	-6,067.24	1,878,876.36	579,561.32	36.163530	-107.563801
13,426.00	90.40	316.40	5,106.43	5,766.74	-6,132.27	1,878,945.43	579,496.09	36.163721	-107.564022
13,521.00	91.54	316.57	5,104.82	5,835.62	-6,197.67	1,879,014.11	579,430.48	36.163910	-107.564243
13,616.00	92.69	316.45	5,101.31	5,904.50	-6,263.00	1,879,082.79	579,364.94	36.164099	-107.564465
13,711.00	92.15	316.74	5,097.30	5,973.45	-6,328.23	1,879,151.55	579,299.52	36.164288	-107.564686
13,806.00	89.19	313.80	5,096.19	6,040.92	-6,395.06	1,879,218.82	579,232.48	36.164474	-107.564912
13,901.00	89.63	313.13	5,097.17	6,106.27	-6,464.01	1,879,283.97	579,163.33	36.164653	-107.565146
13,996.00	89.30	314.57	5,098.06	6,172.08	-6,532.52	1,879,349.57	579,094.63	36.164834	-107.565378
14,092.00	89.87	314.48	5,098.75	6,239.40	-6,600.96	1,879,416.68	579,025.99	36.165019	-107.565610
14,187.00	90.81	314.39	5,098.19	6,305.90	-6,668.79	1,879,482.99	578,957.96	36.165201	-107.565840
14,282.00	89.90	314.91	5,097.60	6,372.67	-6,736.37	1,879,549.54	578,890.18	36.165385	-107.566069
14,377.00	91.01	315.07	5,096.85	6,439.83	-6,803.55	1,879,616.50	578,822.80	36.165569	-107.566296
14,472.00	91.27	313.77	5,094.96	6,506.30	-6,871.39	1,879,682.78	578,754.76	36.165752	-107.566526
14,567.00	90.84	316.00	5,093.21	6,573.33	-6,938.68	1,879,749.60	578,687.27	36.165936	-107.566754
14,662.00	90.03	316.30	5,092.49	6,641.83	-7,004.50	1,879,817.91	578,621.25	36.166124	-107.566977
14,757.00	89.77	315.77	5,092.65	6,710.21	-7,070.45	1,879,886.09	578,555.10	36.166312	-107.567201
14,852.00	90.37	315.14	5,092.53	6,777.92	-7,137.08	1,879,953.60	578,488.26	36.166498	-107.567427
14,947.00	90.84	314.23	5,091.53	6,844.72	-7,204.62	1,880,020.20	578,420.52	36.166681	-107.567655
15,042.00	88.69	312.82	5,091.92	6,910.14	-7,273.50	1,880,085.41	578,351.45	36.166861	-107.567889
15,137.00	89.25	311.86	5,093.63	6,974.11	-7,343.71	1,880,149.17	578,281.05	36.167037	-107.568127
15,232.00	90.20	311.93	5,094.09	7,037.55	-7,414.42	1,880,212.40	578,210.15	36.167211	-107.568366
15,328.00	89.80	312.67	5,094.09	7,102.15	-7,485.42	1,880,276.79	578,138.95	36.167388	-107.568607
15,366.00	90.42	312.73	5,094.01	7,127.92	-7,513.35	1,880,302.48	578,110.95	36.167459	-107.568702
RSI@ 15366' MD, 1880302.48 N & 578110.95 E									
15,375.00	90.57	312.74	5,093.93	7,134.03	-7,519.96	1,880,308.57	578,104.32	36.167476	-107.568724
Last Survey Lateral									
15,425.82	90.57	312.74	5,093.43	7,168.52	-7,557.28	1,880,342.94	578,066.89	36.167571	-107.568850
NEU312H BHL									
15,435.00	90.57	312.74	5,093.34	7,174.75	-7,564.03	1,880,349.15	578,060.13	36.167588	-107.568873
BP@ 15435' MD, 1880349.15 N & 578060.13 E									

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 312H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Site:	N Escavada UT 311-312 Pad	MD Reference:	GL 6961 + KB 21 = @ 6982.00usft (Cyclone 32)
Well:	N Escavada UT 312H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
385.00	384.98	-2.97	1.71	First Survey Int.	
4,384.00	4,363.69	-353.10	-68.91	Last Survey Int.	
4,415.00	4,394.69	-352.87	-69.34	First Survey Curve	
5,583.00	5,075.67	200.84	-610.68	Last Survey Curve	
5,630.00	5,077.70	233.21	-644.69	7"Casing@ 5630' MD, 1873428.31 N & 585000.17 E	
5,683.00	5,080.43	269.05	-683.64	First Survey Lateral	
15,366.00	5,094.01	7,127.92	-7,513.35	RSI@ 15366' MD, 1880302.48 N & 578110.95 E	
15,375.00	5,093.93	7,134.03	-7,519.96	Last Survey Lateral	
15,435.00	5,093.34	7,174.75	-7,564.03	BP@ 15435' MD, 1880349.15 N & 578060.13 E	

Checked By: _____	Approved By: _____	Date: _____
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