

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
OIL CONS. DIV DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

AUG 10 2017

*API Number 30-043-21286		*Pool Code 98172	*Pool Name ESCAVADA N; MANCOS
*Property Code 316006	*Property Name N ESCAVADA UNIT		*Well Number 328H
*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		1918	SOUTH	1267	EAST	SANDOVAL

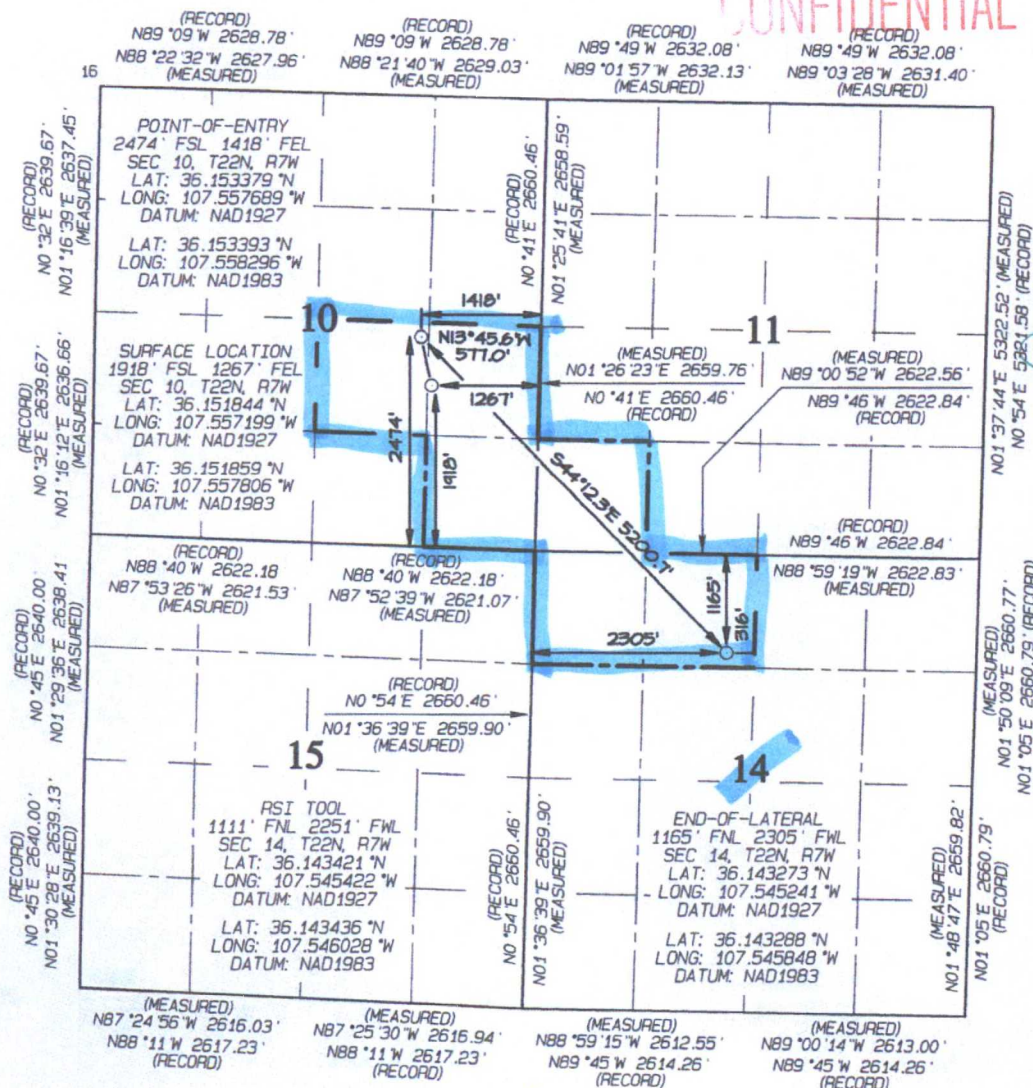
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	14	22N	7W		1165	NORTH	2305	WEST	SANDOVAL

12 Dedicated Acres 240.00 N/2 NW/4 - Section 14 SW/4 SW/4 - Section 11 N/2 SE/4, SE/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 25, 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 #328H**



N Escavada UT #328H
Sandoval County, NM 3003 West
Northing: 1874627.95
Easting: 581522.23
Actual

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



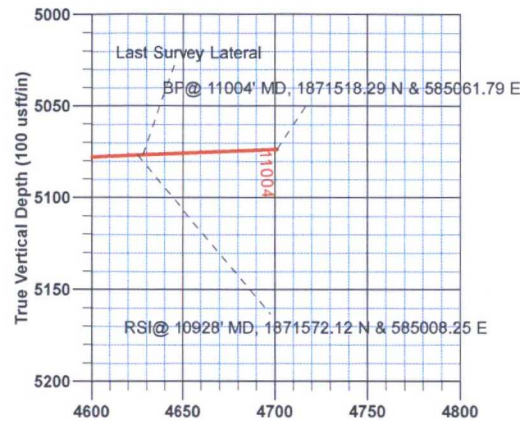
WELL DETAILS N Escavada UT #328H
 Ground Level: 6944.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1874627.95	581522.23	36.151844	-107.557199

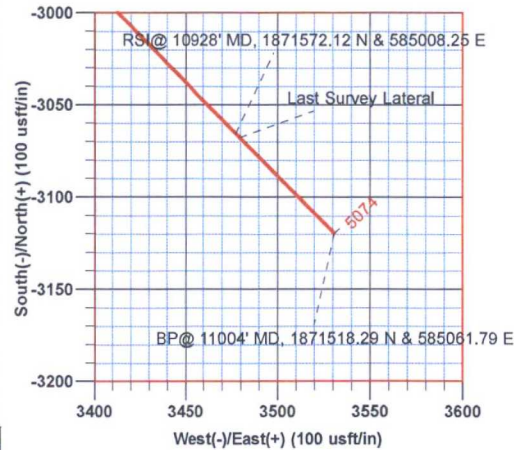
TVD	MD	ANNOTATIONS
438.00	437.97	Annotation
4364.51	4605.00	First Survey Int.
4396.48	4637.00	Last Survey Int.
5062.59	5753.00	First Survey Curve
5063.00	5802.00	Last Survey Curve
5063.19	5817.00	7"Casing@ 5802' MD, 1875186.18 N & 581375.98 E
5077.01	10928.00	First Survey Lateral
5076.89	10931.00	RSI@ 10928' MD, 1871572.12 N & 585008.25 E
5073.81	11004.00	Last Survey Lateral
		BP@ 11004' MD, 1871518.29 N & 585061.79 E

Annotations
 Azimuths to True North
 Magnetic North: 8.95°
 Magnetic Field
 Strength: 49555.3snT
 Dip Angle: 62.87°
 Date: 5/26/2017
 Model: HDGM

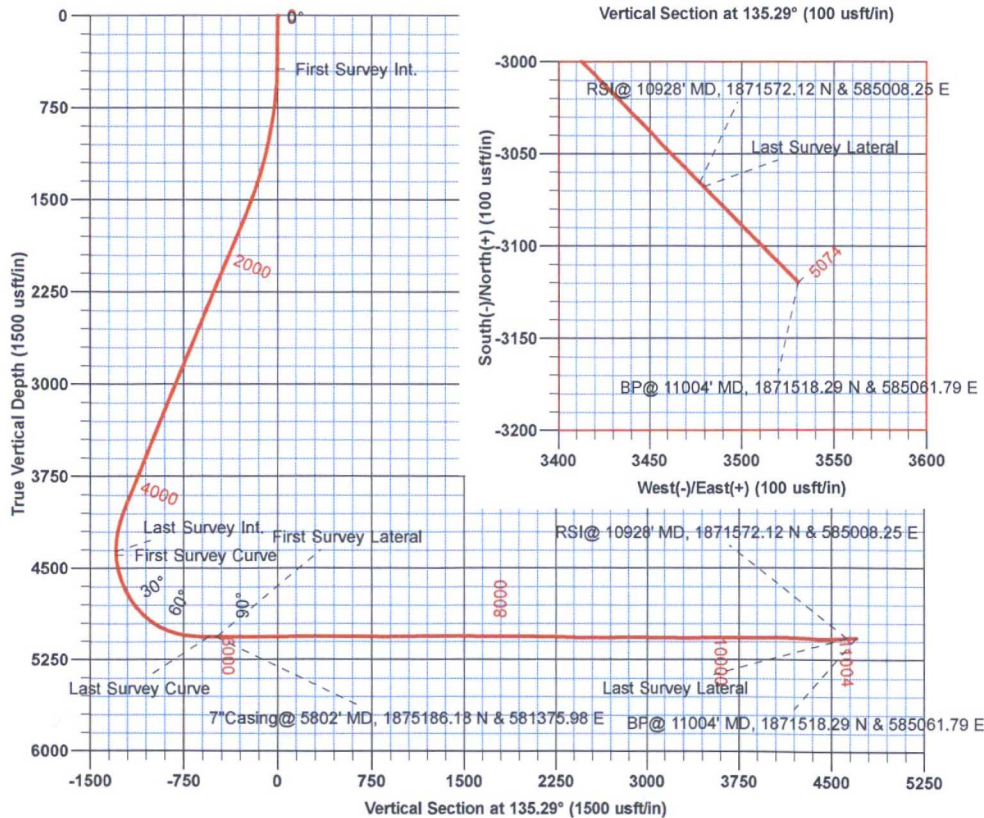
CONFIDENTIAL



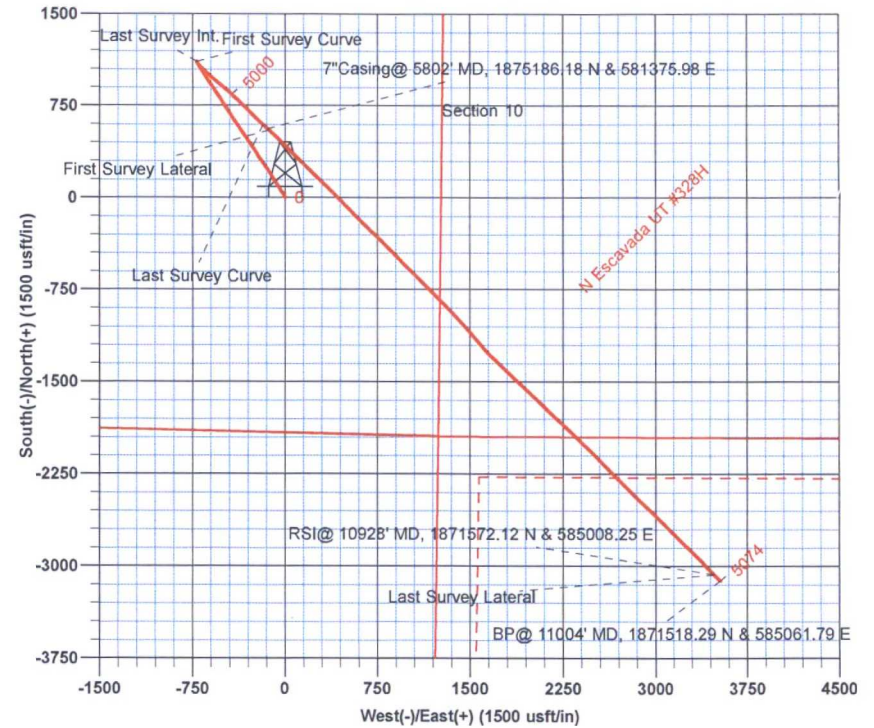
Vertical Section at 135.29° (100 usft/in)



West(-)/East(+) (100 usft/in)



Vertical Section at 135.29° (1500 usft/in)



Bailey Fellows
 10:22, July 24 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 #328H
API: 30-043-21286
Wellbore #1

Design: Actual

Survey Report - Geographic

24 July, 2017



www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #328H
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 #328H	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 #328H					
Well Position	+N/-S	0.00 usft	Northing:	1,874,627.95 usft	Latitude:	36.151844
	+E/-W	0.00 usft	Easting:	581,522.23 usft	Longitude:	-107.557199
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	5/26/2017	8.95	62.87	49,555

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	135.29	

Survey Program	Date	7/24/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	317.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
438.00	4,605.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,637.00	5,753.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,817.00	11,004.00	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	1,874,627.95	581,522.23	36.151844	-107.557199	
21.00	0.00	0.00	21.00	0.00	0.00	1,874,627.95	581,522.23	36.151844	-107.557199	
51.00	0.49	351.71	51.00	0.13	-0.02	1,874,628.08	581,522.21	36.151844	-107.557199	
81.00	0.66	348.99	81.00	0.42	-0.07	1,874,628.38	581,522.16	36.151845	-107.557200	
111.00	0.56	358.96	111.00	0.74	-0.11	1,874,628.69	581,522.12	36.151846	-107.557200	
141.00	0.59	24.17	140.99	1.03	-0.05	1,874,628.98	581,522.18	36.151847	-107.557199	
171.00	0.58	23.74	170.99	1.31	0.08	1,874,629.26	581,522.31	36.151848	-107.557199	
201.00	0.61	21.22	200.99	1.59	0.20	1,874,629.55	581,522.42	36.151848	-107.557199	
231.00	0.60	24.60	230.99	1.89	0.32	1,874,629.84	581,522.55	36.151849	-107.557198	

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #328H
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 #328H	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	0.68	9.54	260.99	2.21	0.42	1,874,630.16	581,522.64	36.151850	-107.557198
291.00	0.41	3.09	290.99	2.49	0.45	1,874,630.44	581,522.68	36.151851	-107.557198
317.00	0.69	359.18	316.99	2.74	0.45	1,874,630.69	581,522.68	36.151852	-107.557198
438.00	0.94	333.09	437.97	4.35	-0.01	1,874,632.30	581,522.21	36.151856	-107.557199
First Survey Int.									
530.00	2.66	336.84	529.92	6.99	-1.19	1,874,634.94	581,521.02	36.151863	-107.557203
623.00	5.20	333.19	622.70	12.73	-3.94	1,874,640.67	581,518.26	36.151879	-107.557213
715.00	6.65	323.90	714.21	20.76	-8.96	1,874,648.69	581,513.22	36.151901	-107.557230
808.00	8.24	324.46	806.42	30.53	-16.00	1,874,658.44	581,506.14	36.151928	-107.557253
900.00	10.15	328.18	897.23	42.79	-24.11	1,874,670.67	581,498.00	36.151962	-107.557281
992.00	11.16	328.70	987.65	57.28	-33.01	1,874,685.14	581,489.06	36.152001	-107.557311
1,084.00	12.99	326.36	1,077.61	73.50	-43.36	1,874,701.33	581,478.66	36.152046	-107.557346
1,177.00	14.75	325.87	1,167.89	92.00	-55.80	1,874,719.80	581,466.17	36.152097	-107.557388
1,269.00	16.36	324.77	1,256.52	112.28	-69.84	1,874,740.04	581,452.07	36.152153	-107.557436
1,362.00	17.04	328.34	1,345.60	134.58	-84.55	1,874,762.29	581,437.30	36.152214	-107.557486
1,454.00	19.16	330.36	1,433.04	159.18	-99.10	1,874,786.85	581,422.68	36.152281	-107.557535
1,546.00	22.21	328.57	1,519.10	187.15	-115.63	1,874,814.77	581,406.07	36.152358	-107.557591
1,640.00	22.14	327.15	1,606.15	217.19	-134.51	1,874,844.76	581,387.11	36.152441	-107.557655
1,734.00	23.00	324.77	1,692.95	247.07	-154.71	1,874,874.58	581,366.82	36.152523	-107.557723
1,828.00	21.12	321.77	1,780.07	275.38	-175.79	1,874,902.83	581,345.66	36.152601	-107.557795
1,922.00	22.80	327.37	1,867.26	304.02	-196.09	1,874,931.42	581,325.28	36.152679	-107.557863
2,016.00	23.82	327.71	1,953.58	335.41	-216.05	1,874,962.75	581,305.23	36.152766	-107.557931
2,110.00	22.90	326.72	2,039.88	366.75	-236.23	1,874,994.02	581,284.96	36.152852	-107.557999
2,204.00	22.10	325.81	2,126.72	396.66	-256.20	1,875,023.88	581,264.90	36.152934	-107.558067
2,298.00	22.81	326.59	2,213.59	426.50	-276.17	1,875,053.66	581,244.85	36.153016	-107.558135
2,392.00	22.60	325.92	2,300.31	456.67	-296.32	1,875,083.78	581,224.61	36.153099	-107.558203
2,485.00	21.58	325.21	2,386.48	485.52	-316.10	1,875,112.57	581,204.76	36.153178	-107.558270
2,579.00	23.41	326.04	2,473.33	515.20	-336.39	1,875,142.20	581,184.38	36.153259	-107.558339
2,673.00	22.67	325.81	2,559.83	545.68	-357.00	1,875,172.61	581,163.68	36.153343	-107.558409
2,767.00	22.56	325.32	2,646.60	575.49	-377.44	1,875,202.37	581,143.15	36.153425	-107.558478
2,861.00	21.43	325.94	2,733.76	604.54	-397.32	1,875,231.36	581,123.19	36.153505	-107.558545
2,954.00	22.07	326.96	2,820.14	633.27	-416.36	1,875,260.03	581,104.07	36.153584	-107.558610
3,048.00	22.70	327.74	2,907.05	663.41	-435.67	1,875,290.12	581,084.68	36.153667	-107.558675
3,143.00	21.32	327.10	2,995.13	693.41	-454.84	1,875,320.07	581,065.42	36.153749	-107.558740
3,237.00	22.70	328.29	3,082.27	723.19	-473.65	1,875,349.79	581,046.52	36.153831	-107.558804
3,331.00	22.42	327.85	3,169.08	753.80	-492.73	1,875,380.34	581,027.36	36.153915	-107.558868
3,425.00	21.38	326.75	3,256.30	783.30	-511.66	1,875,409.80	581,008.35	36.153996	-107.558932
3,519.00	23.20	327.86	3,343.27	813.31	-530.91	1,875,439.75	580,989.02	36.154078	-107.558998
3,613.00	23.67	326.53	3,429.52	844.73	-551.16	1,875,471.11	580,968.67	36.154165	-107.559066
3,707.00	22.20	326.00	3,516.08	875.19	-571.50	1,875,501.52	580,948.25	36.154248	-107.559135
3,801.00	21.74	325.05	3,603.26	904.19	-591.40	1,875,530.45	580,928.26	36.154328	-107.559203
3,895.00	21.59	328.82	3,690.62	933.25	-610.33	1,875,559.47	580,909.25	36.154408	-107.559267
3,989.00	22.05	327.65	3,777.89	962.96	-628.73	1,875,589.12	580,890.77	36.154489	-107.559329
4,083.00	23.31	328.13	3,864.62	993.66	-647.99	1,875,619.76	580,871.42	36.154574	-107.559394
4,176.00	22.67	327.98	3,950.23	1,024.48	-667.21	1,875,650.53	580,852.12	36.154658	-107.559459
4,270.00	19.96	327.43	4,037.79	1,053.36	-685.45	1,875,679.36	580,833.79	36.154738	-107.559521
4,293.00	19.21	326.79	4,059.46	1,059.84	-689.64	1,875,685.83	580,829.58	36.154756	-107.559535
4,324.00	18.40	326.65	4,088.81	1,068.19	-695.12	1,875,694.16	580,824.08	36.154779	-107.559554
4,355.00	16.96	326.00	4,118.34	1,076.03	-700.34	1,875,701.99	580,818.84	36.154800	-107.559572
4,386.00	15.21	328.87	4,148.13	1,083.26	-704.97	1,875,709.20	580,814.18	36.154820	-107.559587
4,418.00	13.22	332.77	4,179.15	1,090.11	-708.81	1,875,716.04	580,810.32	36.154839	-107.559600
4,449.00	11.23	337.49	4,209.44	1,096.05	-711.59	1,875,721.97	580,807.53	36.154855	-107.559610
4,480.00	8.61	338.59	4,239.98	1,101.00	-713.60	1,875,726.92	580,805.51	36.154869	-107.559616
4,512.00	6.18	342.19	4,271.71	1,104.87	-715.00	1,875,730.78	580,804.10	36.154879	-107.559621
4,543.00	4.12	336.79	4,302.58	1,107.48	-715.95	1,875,733.39	580,803.14	36.154887	-107.559624

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #328H
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 #328H	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
4,574.00	2.70	304.86	4,333.53	1,108.92	-716.98	1,875,734.83	580,802.10	36.154890	-107.559628
4,605.00	1.67	219.64	4,364.51	1,108.99	-717.87	1,875,734.90	580,801.21	36.154891	-107.559631
Last Survey Int.									
4,637.00	3.75	171.87	4,396.48	1,107.60	-718.02	1,875,733.50	580,801.06	36.154887	-107.559631
First Survey Curve									
4,668.00	6.75	153.31	4,427.35	1,104.96	-717.06	1,875,730.87	580,802.03	36.154880	-107.559628
4,699.00	9.51	144.46	4,458.03	1,101.25	-714.75	1,875,727.17	580,804.35	36.154869	-107.559620
4,731.00	12.17	146.93	4,489.46	1,096.27	-711.37	1,875,722.20	580,807.74	36.154856	-107.559609
4,762.00	14.02	145.50	4,519.65	1,090.44	-707.46	1,875,716.38	580,811.67	36.154840	-107.559596
4,793.00	16.10	142.47	4,549.58	1,083.93	-702.72	1,875,709.88	580,816.43	36.154822	-107.559580
4,825.00	17.97	138.30	4,580.18	1,076.73	-696.73	1,875,702.70	580,822.44	36.154802	-107.559559
4,856.00	20.43	136.18	4,609.45	1,069.25	-689.80	1,875,695.24	580,829.39	36.154781	-107.559536
4,887.00	22.77	134.57	4,638.28	1,061.14	-681.78	1,875,687.15	580,837.44	36.154759	-107.559509
4,918.00	24.47	134.10	4,666.68	1,052.46	-672.90	1,875,678.50	580,846.35	36.154735	-107.559479
4,950.00	26.65	133.73	4,695.54	1,042.89	-662.95	1,875,668.95	580,856.32	36.154709	-107.559445
4,981.00	28.49	132.21	4,723.02	1,033.11	-652.45	1,875,659.21	580,866.85	36.154682	-107.559409
5,013.00	30.67	131.91	4,750.85	1,022.53	-640.72	1,875,648.66	580,878.61	36.154653	-107.559370
5,044.00	33.32	131.82	4,777.14	1,011.57	-628.49	1,875,637.73	580,890.87	36.154623	-107.559328
5,075.00	36.39	132.07	4,802.58	999.73	-615.31	1,875,625.93	580,904.08	36.154591	-107.559284
5,107.00	39.88	132.39	4,827.74	986.45	-600.69	1,875,612.69	580,918.74	36.154554	-107.559234
5,138.00	43.36	132.12	4,850.91	972.61	-585.45	1,875,598.89	580,934.02	36.154516	-107.559182
5,169.00	45.30	130.96	4,873.09	958.25	-569.23	1,875,584.58	580,950.28	36.154477	-107.559127
5,201.00	48.26	129.39	4,895.00	943.21	-551.41	1,875,569.59	580,968.14	36.154435	-107.559067
5,232.00	51.18	129.54	4,915.04	928.18	-533.16	1,875,554.61	580,986.44	36.154394	-107.559005
5,263.00	53.98	129.77	4,933.87	912.47	-514.20	1,875,538.96	581,005.43	36.154351	-107.558941
5,294.00	56.01	130.65	4,951.66	896.07	-494.82	1,875,522.62	581,024.87	36.154306	-107.558875
5,325.00	58.45	131.75	4,968.43	878.90	-475.21	1,875,505.50	581,044.53	36.154259	-107.558809
5,356.00	61.31	132.81	4,983.99	860.86	-455.37	1,875,487.52	581,064.41	36.154209	-107.558742
5,388.00	64.34	133.30	4,998.60	841.43	-434.58	1,875,468.14	581,085.27	36.154156	-107.558671
5,419.00	68.09	133.69	5,011.10	821.91	-414.00	1,875,448.68	581,105.89	36.154102	-107.558602
5,450.00	71.11	133.79	5,021.91	801.82	-393.01	1,875,428.65	581,126.94	36.154047	-107.558531
5,482.00	73.44	133.83	5,031.65	780.72	-371.02	1,875,407.62	581,149.00	36.153989	-107.558456
5,513.00	75.90	134.19	5,039.84	759.95	-349.52	1,875,386.91	581,170.55	36.153932	-107.558383
5,544.00	78.64	134.73	5,046.67	738.77	-327.94	1,875,365.79	581,192.19	36.153874	-107.558310
5,576.00	81.27	135.86	5,052.26	716.38	-305.78	1,875,343.46	581,214.42	36.153812	-107.558235
5,607.00	83.31	136.41	5,056.41	694.23	-284.49	1,875,321.37	581,235.77	36.153751	-107.558163
5,638.00	86.44	134.81	5,059.18	672.17	-262.89	1,875,299.38	581,257.43	36.153691	-107.558090
5,670.00	87.79	134.48	5,060.79	649.72	-240.15	1,875,276.98	581,280.23	36.153629	-107.558013
5,753.00	89.73	133.81	5,062.59	591.93	-180.61	1,875,219.36	581,339.94	36.153470	-107.557811
Last Survey Curve									
5,802.00	89.32	131.77	5,063.00	558.64	-144.66	1,875,186.18	581,375.98	36.153379	-107.557689
7" Casing@ 5802' MD, 1875186.18 N & 581375.98 E - 7" Casing									
5,803.58	89.30	131.71	5,063.02	557.59	-143.48	1,875,185.13	581,377.17	36.153376	-107.557685
NEU 328H POE orig.									
5,817.00	89.19	131.15	5,063.19	548.71	-133.42	1,875,176.28	581,387.25	36.153351	-107.557651
First Survey Lateral									
5,909.00	89.87	133.89	5,063.95	486.54	-65.62	1,875,114.30	581,455.23	36.153181	-107.557422
6,001.00	90.27	135.31	5,063.84	421.94	-0.12	1,875,049.89	581,520.92	36.153003	-107.557200
6,092.00	90.57	135.06	5,063.17	357.39	64.02	1,874,985.52	581,585.24	36.152826	-107.556982
6,184.00	89.63	133.86	5,063.01	292.96	129.68	1,874,921.28	581,651.08	36.152649	-107.556760
6,276.00	90.40	134.89	5,062.98	228.62	195.44	1,874,857.12	581,717.02	36.152472	-107.556537
6,368.00	90.67	134.44	5,062.13	163.95	260.87	1,874,792.64	581,782.64	36.152294	-107.556316
6,460.00	90.57	133.78	5,061.13	99.92	326.92	1,874,728.80	581,848.87	36.152119	-107.556092
6,551.00	90.50	135.31	5,060.28	36.09	391.77	1,874,665.15	581,913.90	36.151943	-107.555872

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #328H
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 #328H	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	
6,643.00	91.10	134.88	5,059.00	-29.07	456.71	1,874,600.18	581,979.03	36.151764	-107.555652	
6,735.00	89.70	136.45	5,058.35	-94.87	521.00	1,874,534.57	582,043.50	36.151583	-107.555435	
6,827.00	89.93	135.98	5,058.65	-161.29	584.66	1,874,468.33	582,107.35	36.151401	-107.555219	
6,918.00	90.27	134.67	5,058.49	-225.99	648.64	1,874,403.80	582,171.51	36.151223	-107.555002	
7,010.00	89.29	133.86	5,058.84	-290.21	714.52	1,874,339.78	582,237.58	36.151047	-107.554779	
7,102.00	89.46	134.80	5,059.85	-354.49	780.33	1,874,275.68	582,303.56	36.150870	-107.554556	
7,193.00	90.50	135.60	5,059.88	-419.06	844.45	1,874,211.30	582,367.87	36.150693	-107.554339	
7,285.00	91.28	136.17	5,058.45	-485.10	908.48	1,874,145.44	582,432.09	36.150511	-107.554122	
7,377.00	90.71	135.23	5,056.85	-550.93	972.72	1,874,079.79	582,496.52	36.150331	-107.553905	
7,469.00	90.91	134.92	5,055.55	-616.07	1,037.69	1,874,014.84	582,561.67	36.150152	-107.553684	
7,561.00	89.03	135.80	5,055.60	-681.52	1,102.33	1,873,949.56	582,626.49	36.149972	-107.553466	
7,652.00	89.60	135.07	5,056.69	-746.35	1,166.18	1,873,884.92	582,690.53	36.149794	-107.553249	
7,744.00	90.07	135.23	5,056.95	-811.58	1,231.06	1,873,819.88	582,755.59	36.149614	-107.553030	
7,836.00	88.82	135.93	5,057.85	-877.28	1,295.45	1,873,754.36	582,820.17	36.149434	-107.552811	
7,928.00	90.20	136.66	5,058.63	-943.78	1,359.01	1,873,688.04	582,883.92	36.149251	-107.552596	
8,019.00	89.13	138.23	5,059.16	-1,010.81	1,420.55	1,873,621.18	582,945.65	36.149067	-107.552388	
8,111.00	90.24	139.20	5,059.67	-1,079.94	1,481.25	1,873,552.23	583,006.55	36.148877	-107.552182	
8,203.00	89.83	139.54	5,059.61	-1,149.76	1,541.16	1,873,482.58	583,066.65	36.148685	-107.551979	
8,294.00	89.70	137.97	5,059.99	-1,218.18	1,601.15	1,873,414.33	583,126.84	36.148497	-107.551776	
8,386.00	89.60	137.07	5,060.55	-1,286.03	1,663.28	1,873,346.65	583,189.16	36.148311	-107.551566	
8,478.00	89.19	134.04	5,061.52	-1,351.70	1,727.69	1,873,281.17	583,253.75	36.148131	-107.551348	
8,569.00	88.59	133.87	5,063.28	-1,414.85	1,793.18	1,873,218.20	583,319.43	36.147957	-107.551126	
8,661.00	88.22	132.78	5,065.84	-1,477.95	1,860.08	1,873,155.30	583,386.51	36.147784	-107.550899	
8,756.00	89.33	133.63	5,067.88	-1,542.97	1,929.31	1,873,090.47	583,455.92	36.147605	-107.550665	
8,850.00	89.33	133.26	5,068.97	-1,607.61	1,997.56	1,873,026.03	583,524.35	36.147428	-107.550434	
8,944.00	90.50	134.53	5,069.11	-1,672.78	2,065.29	1,872,961.05	583,592.27	36.147248	-107.550204	
9,039.00	90.44	134.09	5,068.33	-1,739.14	2,133.27	1,872,894.89	583,660.43	36.147066	-107.549974	
9,134.00	90.07	133.61	5,067.91	-1,804.95	2,201.78	1,872,829.27	583,729.13	36.146885	-107.549742	
9,228.00	89.97	132.78	5,067.88	-1,869.29	2,270.30	1,872,765.12	583,797.84	36.146709	-107.549510	
9,323.00	89.36	134.01	5,068.43	-1,934.56	2,339.33	1,872,700.06	583,867.05	36.146529	-107.549276	
9,417.00	89.13	133.70	5,069.67	-1,999.68	2,407.11	1,872,635.13	583,935.02	36.146350	-107.549046	
9,512.00	89.06	135.23	5,071.17	-2,066.21	2,474.90	1,872,568.79	584,002.99	36.146168	-107.548817	
9,607.00	90.34	135.56	5,071.67	-2,133.85	2,541.61	1,872,501.34	584,069.89	36.145982	-107.548591	
9,702.00	89.63	135.09	5,071.70	-2,201.40	2,608.40	1,872,433.98	584,136.88	36.145796	-107.548365	
9,796.00	92.05	136.24	5,070.32	-2,268.62	2,674.08	1,872,366.94	584,202.75	36.145611	-107.548142	
9,891.00	90.74	134.91	5,068.00	-2,336.44	2,740.55	1,872,299.31	584,269.42	36.145425	-107.547917	
9,986.00	90.23	134.67	5,067.20	-2,403.37	2,807.97	1,872,232.58	584,337.02	36.145241	-107.547689	
10,081.00	89.53	134.53	5,067.40	-2,470.07	2,875.61	1,872,166.06	584,404.86	36.145058	-107.547460	
10,175.00	89.16	134.24	5,068.47	-2,535.82	2,942.79	1,872,100.51	584,472.22	36.144877	-107.547232	
10,270.00	90.13	134.80	5,069.06	-2,602.43	3,010.52	1,872,034.09	584,540.14	36.144694	-107.547003	
10,365.00	89.13	134.00	5,069.68	-2,668.89	3,078.39	1,871,967.82	584,608.20	36.144512	-107.546773	
10,458.00	89.50	135.33	5,070.79	-2,734.26	3,144.53	1,871,902.64	584,674.52	36.144332	-107.546549	
10,553.00	87.78	134.75	5,073.04	-2,801.46	3,211.64	1,871,835.63	584,741.82	36.144147	-107.546322	
10,648.00	86.67	133.92	5,077.64	-2,867.77	3,279.50	1,871,769.51	584,809.88	36.143965	-107.546092	
10,742.00	89.23	134.52	5,081.00	-2,933.28	3,346.82	1,871,704.20	584,877.38	36.143785	-107.545864	
10,837.00	91.68	135.93	5,080.25	-3,000.71	3,413.72	1,871,636.96	584,944.47	36.143600	-107.545637	
10,928.00	92.40	135.34	5,077.01	-3,065.73	3,477.31	1,871,572.12	585,008.25	36.143421	-107.545422	
RSI@ 10928' MD, 1871572.12 N & 585008.25 E										
10,931.00	92.42	135.32	5,076.89	-3,067.86	3,479.42	1,871,570.00	585,010.36	36.143416	-107.545415	
Last Survey Lateral										
10,990.08	92.42	135.32	5,074.39	-3,109.83	3,520.92	1,871,528.15	585,051.98	36.143300	-107.545274	
NEU 328H BHL										
11,004.00	92.42	135.32	5,073.81	-3,119.72	3,530.70	1,871,518.29	585,061.79	36.143273	-107.545241	
BP@ 11004' MD, 1871518.29 N & 585061.79 E										

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT #328H
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 #328H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
5,802.00	5,063.00	7" Casing	7	8-3/4	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
438.00	437.97	4.35	-0.01	First Survey Int.	
4,605.00	4,364.51	1,108.99	-717.87	Last Survey Int.	
4,637.00	4,396.48	1,107.60	-718.02	First Survey Curve	
5,753.00	5,062.59	591.93	-180.61	Last Survey Curve	
5,802.00	5,063.00	558.64	-144.66	7"Casing@ 5802' MD, 1875186.18 N & 581375.98 E	
5,817.00	5,063.19	548.71	-133.42	First Survey Lateral	
10,928.00	5,077.01	-3,065.73	3,477.31	RSI@ 10928' MD, 1871572.12 N & 585008.25 E	
10,931.00	5,076.89	-3,067.86	3,479.42	Last Survey Lateral	
11,004.00	5,073.81	-3,119.72	3,530.70	BP@ 11004' MD, 1871518.29 N & 585061.79 E	

Checked By: _____	Approved By: _____	Date: _____
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