

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

NMOC

AMENDED REPORT

AS DRILLED

DEC 17 2018

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-043-21888		2 Pool Code 98172		3 Well Name ESCAVADA N; MANCOS	
4 Property Code 321250		5 Property Name N ESCAVADA UNIT			6 Well Number 315H
7 OGRID No. 372286		8 Operator Name ENDURING RESOURCES			9 Elevation 6860'

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
L	10	22N	7W		1583	SOUTH	250	WEST	SANDOVAL

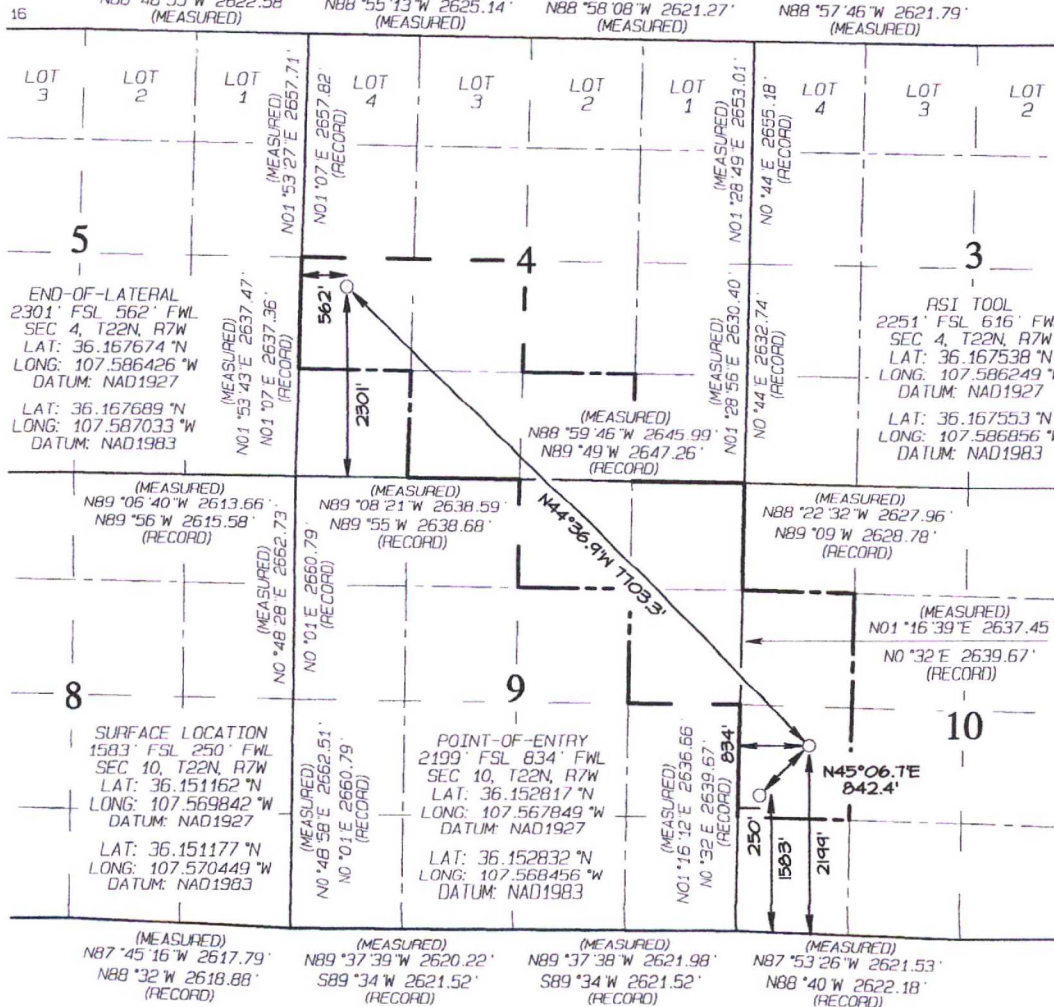
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	4	22N	7W		2301	SOUTH	562	WEST	SANDOVAL

12 Dedicated Acres 360.0		13 Joint or Infill		14 Consolidation Code		15 Order No. R-14080	
N/2 SW/4, SE/4 SW/4 SW/4 SE/4 - Section 4 N/2 NE/4, SE/4 NE/4 - Section 9 SW/4 NW/4, NW/4 SW/4 - Section 10							

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: *12/17/18*

Printed Name: **Lacey Granillo**

E-mail Address: **lgranillo@enduringresources.com**

18 SURVEYOR CERTIFICATION

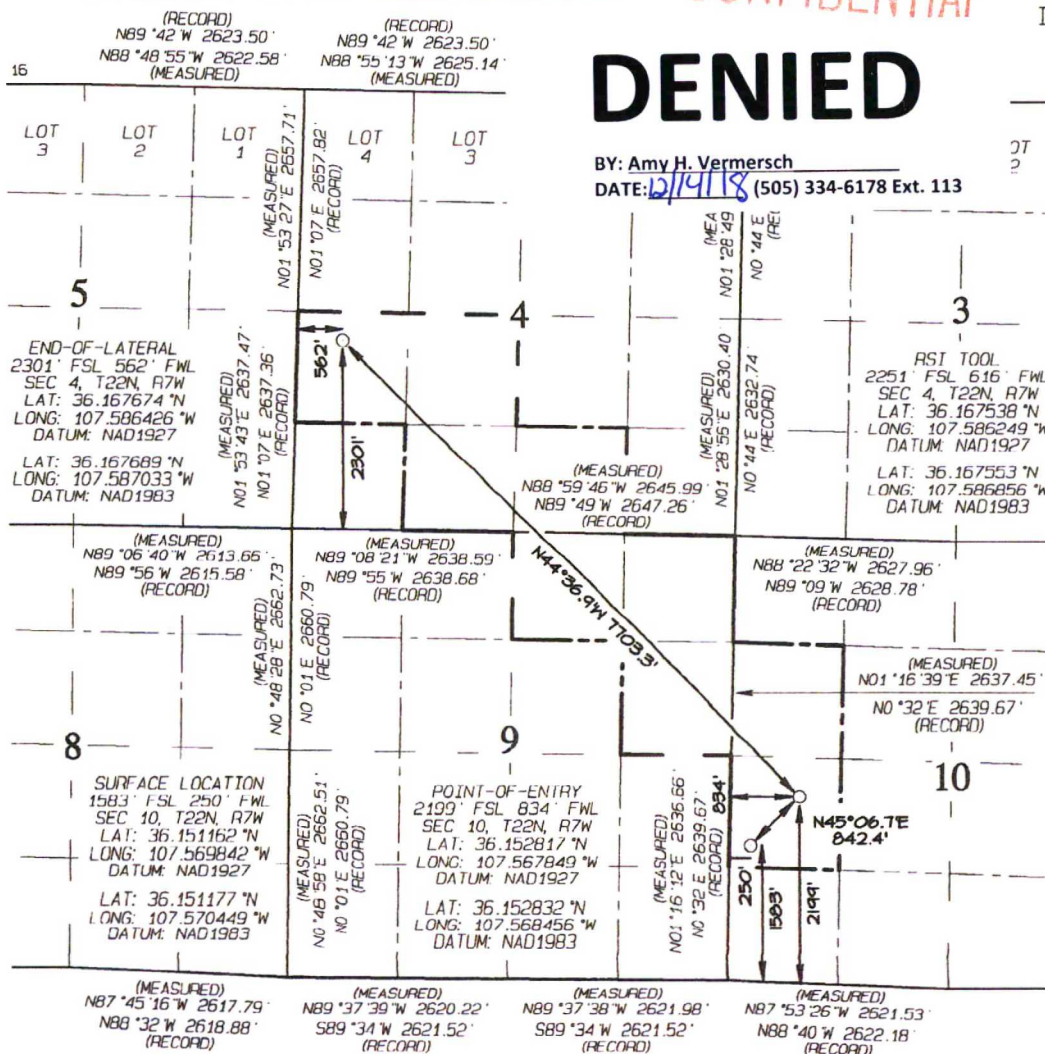
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: **NOVEMBER 9, 2017**
Date of Survey: **JULY 10, 2015**

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number **15269**



N Escavada UT 315H
Sandoval County, NM 3003 West
Northing: 1874369.33
Easting: 577790.34
Actual

SL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
 GL @ 6860.00



WELL DETAILS N Escavada UT 315H

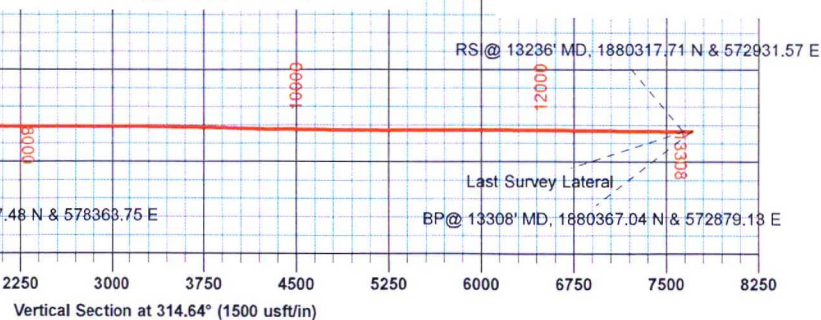
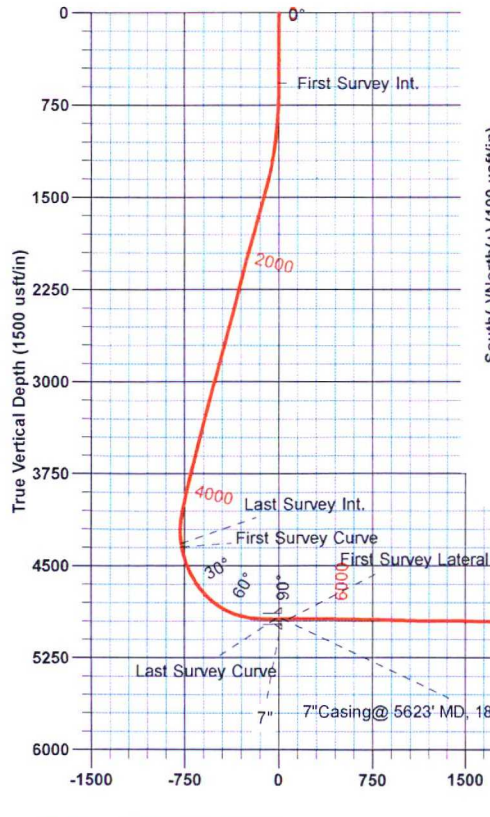
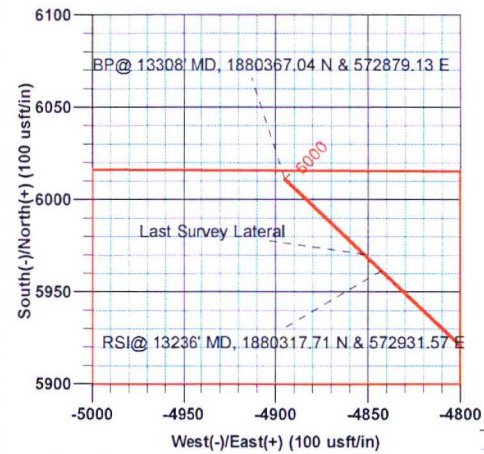
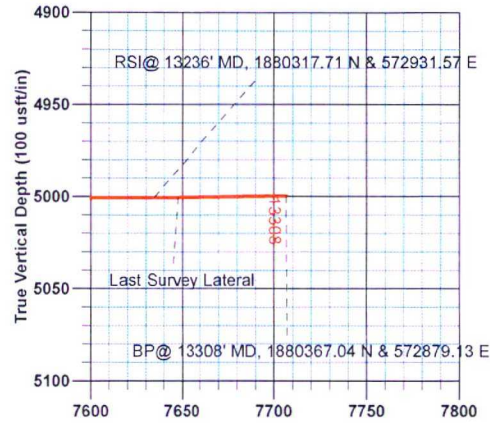
Ground Level: 6860.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1874369.33	577790.34	36.151162	-107.569842

TVD	MD	ANNOTATIONS
572.99	573.00	Annotation
4317.01	4484.00	First Survey Int.
4347.98	4516.00	Last Survey Int.
4933.63	5576.00	Last Survey Curve
4933.13	5623.00	Last Survey Curve
4932.09	5683.00	First Survey Lateral
5000.60	13236.00	RSI@ 13236' MD, 1880317.71 N & 572931.57 E
5000.47	13249.00	Last Survey Lateral
4999.70	13308.00	BP@ 13308' MD, 1880367.04 N & 572879.13 E



Azimuths to True N 311th
 Magnetic North: 3.93°
 Magnetic Field
 Strength: 4952.52nT
 Dip Angle: 62.87°
 Date: 9/11/2017
 Mode I: HDGM



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WPX Energy

Sandoval County, NM 3003 West
N Escavada UT 315 Pad
N Escavada UT 315H
API: 30-043-21888
Wellbore #1

Design: Actual

Survey Report - Geographic

06 November, 2017

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www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 315H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Well:	N Escavada UT 315H	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 315 Pad				
Site Position:		Northing:	1,874,369.33 usft	Latitude:	36.151162
From:	Lat/Long	Easting:	577,790.35 usft	Longitude:	-107.569842
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well	N Escavada UT 315H					
Well Position	+N/-S	0.00 usft	Northing:	1,874,369.33 usft	Latitude:	36.151162
	+E/-W	0.00 usft	Easting:	577,790.35 usft	Longitude:	-107.569842
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,860.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/11/2017	8.93	62.87	49,525

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	314.64	

Survey Program	Date	11/6/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	321.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
573.00	4,484.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,516.00	5,576.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,683.00	13,308.00	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	1,874,369.33	577,790.35	36.151162	-107.569842
21.00	0.00	0.00	21.00	0.00	0.00	1,874,369.33	577,790.35	36.151162	-107.569842
51.00	0.24	51.22	51.00	0.04	0.05	1,874,369.37	577,790.39	36.151162	-107.569842
81.00	0.29	74.84	81.00	0.10	0.17	1,874,369.43	577,790.52	36.151162	-107.569842
111.00	0.29	64.10	111.00	0.15	0.31	1,874,369.48	577,790.66	36.151163	-107.569841
141.00	0.24	17.48	141.00	0.24	0.40	1,874,369.57	577,790.74	36.151163	-107.569841
171.00	0.21	330.77	171.00	0.35	0.39	1,874,369.68	577,790.74	36.151163	-107.569841
201.00	0.25	273.81	201.00	0.40	0.30	1,874,369.73	577,790.64	36.151163	-107.569841
231.00	0.79	263.64	231.00	0.39	0.03	1,874,369.72	577,790.37	36.151163	-107.569842

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 315H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Well:	N Escavada UT 315H	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	0.39	278.08	261.00	0.38	-0.28	1,874,369.71	577,790.07	36.151163	-107.569843
291.00	0.59	256.33	290.99	0.36	-0.53	1,874,369.68	577,789.82	36.151163	-107.569844
321.00	0.66	271.03	320.99	0.32	-0.85	1,874,369.65	577,789.49	36.151163	-107.569845
573.00	0.26	130.91	572.99	-0.03	-1.87	1,874,369.30	577,788.47	36.151162	-107.569849
First Survey Int.									
635.00	1.71	79.17	634.98	0.06	-0.86	1,874,369.38	577,789.49	36.151162	-107.569845
728.00	2.55	91.91	727.91	0.25	2.57	1,874,369.58	577,792.92	36.151163	-107.569834
821.00	4.23	93.55	820.75	-0.03	8.07	1,874,369.32	577,798.41	36.151162	-107.569815
914.00	6.34	97.46	913.35	-0.91	16.58	1,874,368.46	577,806.93	36.151160	-107.569786
1,008.00	8.52	95.98	1,006.55	-2.31	28.66	1,874,367.09	577,819.01	36.151156	-107.569745
1,101.00	10.77	93.82	1,098.23	-3.61	44.18	1,874,365.84	577,834.53	36.151152	-107.569693
1,194.00	12.85	91.57	1,189.26	-4.47	63.19	1,874,365.03	577,853.55	36.151150	-107.569628
1,288.00	15.13	94.66	1,280.47	-5.75	85.87	1,874,363.81	577,876.23	36.151146	-107.569551
1,381.00	17.63	95.40	1,369.68	-8.07	111.99	1,874,361.57	577,902.36	36.151140	-107.569463
1,474.00	19.47	95.80	1,457.85	-10.96	141.43	1,874,358.75	577,931.81	36.151132	-107.569363
1,568.00	19.28	96.96	1,546.53	-14.42	172.42	1,874,355.37	577,962.81	36.151122	-107.569258
1,661.00	17.74	98.58	1,634.71	-18.40	201.68	1,874,351.48	577,992.07	36.151112	-107.569159
1,755.00	18.73	95.36	1,723.99	-21.94	230.86	1,874,348.01	578,021.27	36.151102	-107.569060
1,848.00	20.35	95.80	1,811.63	-24.97	261.82	1,874,345.07	578,052.23	36.151093	-107.568955
1,941.00	19.01	94.80	1,899.20	-27.87	293.00	1,874,342.25	578,083.42	36.151086	-107.568850
2,035.00	18.95	94.08	1,988.09	-30.24	323.48	1,874,339.97	578,113.91	36.151079	-107.568747
2,128.00	18.18	93.77	2,076.25	-32.27	353.02	1,874,338.02	578,143.45	36.151073	-107.568647
2,221.00	18.45	93.14	2,164.54	-34.03	382.19	1,874,336.34	578,172.63	36.151069	-107.568548
2,315.00	17.90	93.43	2,253.85	-35.71	411.46	1,874,334.74	578,201.91	36.151064	-107.568449
2,408.00	18.01	92.60	2,342.32	-37.22	440.09	1,874,333.31	578,230.54	36.151060	-107.568352
2,501.00	19.01	93.00	2,430.51	-38.66	469.58	1,874,331.94	578,260.03	36.151056	-107.568252
2,595.00	19.83	92.36	2,519.16	-40.12	500.80	1,874,330.57	578,291.25	36.151052	-107.568146
2,690.00	19.52	92.67	2,608.61	-41.52	532.76	1,874,329.25	578,323.21	36.151048	-107.568038
2,785.00	19.43	92.25	2,698.18	-42.88	564.40	1,874,327.98	578,354.86	36.151044	-107.567931
2,880.00	19.69	92.41	2,787.69	-44.17	596.18	1,874,326.77	578,386.64	36.151041	-107.567823
2,975.00	18.79	94.01	2,877.39	-45.92	627.43	1,874,325.11	578,417.90	36.151036	-107.567717
3,070.00	19.84	93.92	2,967.04	-48.09	658.78	1,874,323.03	578,449.25	36.151030	-107.567611
3,165.00	19.85	94.00	3,056.40	-50.32	690.95	1,874,320.89	578,481.43	36.151024	-107.567502
3,260.00	19.45	93.29	3,145.87	-52.35	722.83	1,874,318.94	578,513.32	36.151018	-107.567394
3,355.00	19.08	92.87	3,235.55	-54.03	754.13	1,874,317.34	578,544.62	36.151014	-107.567288
3,450.00	18.13	92.63	3,325.58	-55.49	784.40	1,874,315.97	578,574.90	36.151010	-107.567185
3,545.00	18.54	93.61	3,415.76	-57.12	814.24	1,874,314.42	578,604.74	36.151005	-107.567084
3,640.00	17.49	92.91	3,506.10	-58.80	843.57	1,874,312.82	578,634.08	36.151001	-107.566985
3,735.00	17.63	94.08	3,596.67	-60.54	872.18	1,874,311.15	578,662.69	36.150996	-107.566888
3,830.00	17.51	95.59	3,687.24	-62.96	900.76	1,874,308.81	578,691.27	36.150989	-107.566791
3,925.00	18.11	94.70	3,777.69	-65.56	929.69	1,874,306.29	578,720.21	36.150982	-107.566693
4,021.00	16.56	94.78	3,869.32	-67.92	958.20	1,874,304.00	578,748.73	36.150975	-107.566597
4,116.00	15.43	95.01	3,960.65	-70.16	984.28	1,874,301.84	578,774.81	36.150969	-107.566508
4,199.00	13.05	96.44	4,041.09	-72.17	1,004.60	1,874,299.88	578,795.13	36.150964	-107.566440
4,231.00	13.50	91.77	4,072.24	-72.69	1,011.92	1,874,299.38	578,802.46	36.150962	-107.566415
4,262.00	14.05	82.56	4,102.35	-72.32	1,019.27	1,874,299.78	578,809.81	36.150963	-107.566390
4,294.00	14.88	72.61	4,133.34	-70.59	1,027.04	1,874,301.53	578,817.57	36.150968	-107.566364
4,326.00	15.13	62.21	4,164.25	-67.41	1,034.66	1,874,304.73	578,825.18	36.150977	-107.566338
4,357.00	14.96	50.37	4,194.20	-62.97	1,041.32	1,874,309.18	578,831.83	36.150989	-107.566315
4,389.00	15.03	40.22	4,225.11	-57.17	1,047.18	1,874,315.00	578,837.68	36.151005	-107.566295
4,421.00	14.53	28.57	4,256.06	-50.47	1,051.78	1,874,321.71	578,842.26	36.151023	-107.566280
4,452.00	14.72	17.87	4,286.06	-43.31	1,054.85	1,874,328.88	578,845.31	36.151043	-107.566269
4,484.00	14.74	8.09	4,317.01	-35.41	1,056.67	1,874,336.79	578,847.11	36.151065	-107.566263
Last Survey Int.									

Scientific Drilling Int.

Survey Report - Geographic

Company: WPX Energy
Project: Sandoval County, NM 3003 West
Site: N Escavada UT 315 Pad
Well: N Escavada UT 315H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 315H
TVD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
MD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
North Reference: True
Survey Calculation Method: Minimum Curvature
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
4,516.00	14.59	357.91	4,347.98	-27.35	1,057.10	1,874,344.85	578,847.51	36.151087	-107.566262
First Survey Curve									
4,548.00	14.46	346.00	4,378.96	-19.44	1,055.98	1,874,352.75	578,846.38	36.151109	-107.566265
4,579.00	16.00	341.38	4,408.87	-11.64	1,053.68	1,874,360.55	578,844.06	36.151130	-107.566273
4,611.00	17.84	339.50	4,439.49	-2.86	1,050.56	1,874,369.32	578,840.91	36.151154	-107.566284
4,643.00	19.71	337.34	4,469.78	6.71	1,046.76	1,874,378.88	578,837.09	36.151180	-107.566297
4,674.00	21.88	334.66	4,498.76	16.75	1,042.28	1,874,388.91	578,832.57	36.151208	-107.566312
4,706.00	24.43	332.88	4,528.18	28.03	1,036.71	1,874,400.18	578,826.97	36.151239	-107.566331
4,738.00	26.62	332.08	4,557.06	40.26	1,030.33	1,874,412.39	578,820.56	36.151273	-107.566352
4,769.00	28.21	331.39	4,584.58	52.83	1,023.57	1,874,424.94	578,813.77	36.151307	-107.566375
4,801.00	30.57	331.01	4,612.45	66.59	1,016.00	1,874,438.68	578,806.17	36.151345	-107.566401
4,833.00	32.97	329.97	4,639.66	81.25	1,007.70	1,874,453.31	578,797.82	36.151385	-107.566429
4,864.00	35.90	328.27	4,665.22	96.29	998.70	1,874,468.32	578,788.78	36.151427	-107.566459
4,896.00	39.02	326.39	4,690.62	112.66	988.18	1,874,484.67	578,778.22	36.151472	-107.566495
4,928.00	41.69	324.56	4,715.01	129.72	976.44	1,874,501.70	578,766.43	36.151518	-107.566535
4,959.00	43.86	324.69	4,737.76	146.89	964.25	1,874,518.83	578,754.19	36.151566	-107.566576
4,991.00	46.93	324.32	4,760.23	165.43	951.02	1,874,537.34	578,740.91	36.151617	-107.566621
5,023.00	49.83	323.54	4,781.48	184.77	936.93	1,874,556.64	578,726.78	36.151670	-107.566669
5,054.00	52.59	323.71	4,800.90	204.22	922.61	1,874,576.05	578,712.39	36.151723	-107.566717
5,086.00	54.03	323.77	4,820.02	224.91	907.43	1,874,596.70	578,697.16	36.151780	-107.566769
5,118.00	57.44	323.25	4,838.03	246.17	891.70	1,874,617.91	578,681.38	36.151838	-107.566822
5,150.00	60.94	322.92	4,854.42	268.14	875.20	1,874,639.84	578,664.81	36.151899	-107.566878
5,181.00	64.69	322.46	4,868.58	290.06	858.48	1,874,661.72	578,648.04	36.151959	-107.566934
5,213.00	67.94	322.55	4,881.43	313.31	840.65	1,874,684.92	578,630.14	36.152023	-107.566995
5,245.00	70.63	322.54	4,892.75	337.07	822.45	1,874,708.63	578,611.88	36.152088	-107.567056
5,276.00	73.44	322.48	4,902.31	360.46	804.50	1,874,731.97	578,593.87	36.152152	-107.567117
5,308.00	76.08	321.86	4,910.72	384.85	785.57	1,874,756.31	578,574.87	36.152219	-107.567181
5,340.00	78.30	320.07	4,917.82	409.08	765.92	1,874,780.49	578,555.15	36.152286	-107.567248
5,371.00	80.80	318.31	4,923.44	432.15	745.99	1,874,803.50	578,535.16	36.152349	-107.567315
5,403.00	83.10	317.17	4,927.92	455.60	724.69	1,874,826.89	578,513.79	36.152414	-107.567388
5,435.00	85.56	317.36	4,931.08	478.99	703.08	1,874,850.22	578,492.12	36.152478	-107.567461
5,466.00	88.36	317.86	4,932.73	501.85	682.21	1,874,873.03	578,471.19	36.152541	-107.567531
5,498.00	89.30	317.64	4,933.38	525.53	660.70	1,874,896.65	578,449.62	36.152606	-107.567604
5,530.00	89.66	316.81	4,933.67	549.02	638.97	1,874,920.08	578,427.82	36.152670	-107.567678
5,576.00	90.44	316.65	4,933.63	582.51	607.44	1,874,953.49	578,396.20	36.152762	-107.567785
Last Survey Curve									
5,603.42	90.64	316.46	4,933.37	602.42	588.58	1,874,973.34	578,377.29	36.152817	-107.567849
315H POE									
5,623.00	90.78	316.32	4,933.13	616.59	575.08	1,874,987.48	578,363.75	36.152856	-107.567894
7"Casing@ 5623' MD, 1874987.48 N & 578363.75 E									
5,683.00	91.21	315.91	4,932.09	659.83	533.50	1,875,030.61	578,322.05	36.152975	-107.568035
First Survey Lateral									
5,778.00	90.74	315.78	4,930.47	727.98	467.33	1,875,098.58	578,255.70	36.153162	-107.568259
5,873.00	90.33	315.72	4,929.59	796.03	401.04	1,875,166.44	578,189.23	36.153349	-107.568484
5,968.00	88.33	315.93	4,930.70	864.15	334.85	1,875,234.39	578,122.85	36.153536	-107.568708
6,063.00	88.93	314.47	4,932.97	931.54	267.93	1,875,301.59	578,055.75	36.153721	-107.568935
6,158.00	89.46	314.26	4,934.30	997.96	200.02	1,875,367.83	577,987.66	36.153904	-107.569165
6,253.00	88.66	314.25	4,935.86	1,064.25	131.99	1,875,433.93	577,919.45	36.154086	-107.569395
6,348.00	88.69	314.07	4,938.06	1,130.41	63.85	1,875,499.91	577,851.13	36.154268	-107.569626
6,443.00	89.43	314.50	4,939.62	1,196.74	-4.14	1,875,566.05	577,782.95	36.154450	-107.569856
6,538.00	89.83	314.54	4,940.23	1,263.34	-71.88	1,875,632.47	577,715.04	36.154633	-107.570086
6,633.00	87.41	314.99	4,942.52	1,330.22	-139.30	1,875,699.16	577,647.43	36.154816	-107.570314
6,728.00	89.13	316.67	4,945.39	1,398.32	-205.46	1,875,767.09	577,581.09	36.155004	-107.570538
6,823.00	90.47	317.45	4,945.72	1,467.87	-270.18	1,875,836.46	577,516.19	36.155195	-107.570757

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 315H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Well:	N Escavada UT 315H	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
6,918.00	89.60	317.28	4,945.66	1,537.76	-334.52	1,875,906.17	577,451.65	36.155387	-107.570975
7,013.00	89.03	315.60	4,946.80	1,606.59	-399.98	1,875,974.83	577,386.01	36.155576	-107.571197
7,108.00	88.39	315.13	4,948.93	1,674.18	-466.71	1,876,042.23	577,319.10	36.155761	-107.571423
7,203.00	87.82	314.10	4,952.08	1,740.86	-534.30	1,876,108.73	577,251.33	36.155945	-107.571652
7,298.00	90.87	314.60	4,953.16	1,807.26	-602.22	1,876,174.95	577,183.23	36.156127	-107.571882
7,393.00	90.13	313.45	4,952.33	1,873.27	-670.52	1,876,240.78	577,114.74	36.156308	-107.572114
7,488.00	88.09	314.11	4,953.81	1,938.99	-739.10	1,876,306.31	577,045.99	36.156489	-107.572346
7,584.00	88.39	314.52	4,956.76	2,006.03	-807.75	1,876,373.16	576,977.15	36.156673	-107.572578
7,678.00	88.15	313.40	4,959.59	2,071.25	-875.39	1,876,438.19	576,909.34	36.156852	-107.572808
7,774.00	88.96	312.57	4,962.02	2,136.68	-945.59	1,876,503.43	576,838.96	36.157032	-107.573045
7,869.00	89.40	312.54	4,963.38	2,200.92	-1,015.56	1,876,567.49	576,768.82	36.157208	-107.573282
7,964.00	91.00	313.02	4,963.04	2,265.44	-1,085.29	1,876,631.82	576,698.92	36.157386	-107.573519
8,059.00	90.57	313.97	4,961.74	2,330.82	-1,154.20	1,876,697.01	576,629.83	36.157565	-107.573752
8,154.00	89.80	315.02	4,961.44	2,397.40	-1,221.96	1,876,763.40	576,561.89	36.157748	-107.573982
8,249.00	89.70	314.94	4,961.85	2,464.55	-1,289.16	1,876,830.37	576,494.51	36.157933	-107.574209
8,344.00	89.83	314.38	4,962.24	2,531.32	-1,356.73	1,876,896.96	576,426.75	36.158116	-107.574438
8,438.00	90.13	313.99	4,962.27	2,596.84	-1,424.13	1,876,962.30	576,359.17	36.158296	-107.574667
8,531.00	89.90	313.22	4,962.25	2,660.98	-1,491.48	1,877,026.25	576,291.66	36.158472	-107.574895
8,624.00	89.87	315.93	4,962.43	2,726.25	-1,557.72	1,877,091.34	576,225.24	36.158651	-107.575119
8,718.00	89.80	315.54	4,962.71	2,793.56	-1,623.33	1,877,158.47	576,159.45	36.158836	-107.575341
8,811.00	89.60	315.56	4,963.19	2,859.95	-1,688.45	1,877,224.69	576,094.14	36.159019	-107.575562
8,904.00	89.76	314.26	4,963.71	2,925.60	-1,754.31	1,877,290.16	576,028.10	36.159199	-107.575785
8,998.00	88.59	312.26	4,965.07	2,990.01	-1,822.76	1,877,354.38	575,959.48	36.159376	-107.576017
9,090.00	89.40	313.54	4,966.68	3,052.63	-1,890.14	1,877,416.62	575,891.93	36.159548	-107.576245
9,184.00	88.99	312.36	4,968.00	3,116.67	-1,958.93	1,877,480.67	575,822.96	36.159724	-107.576478
9,277.00	89.09	312.05	4,969.56	3,179.13	-2,027.81	1,877,542.95	575,753.91	36.159896	-107.576712
9,370.00	89.23	315.68	4,970.92	3,243.56	-2,094.85	1,877,607.20	575,686.71	36.160073	-107.576939
9,464.00	88.76	314.72	4,972.57	3,310.25	-2,161.07	1,877,673.70	575,620.30	36.160256	-107.577163
9,557.00	89.33	315.00	4,974.12	3,375.84	-2,226.98	1,877,739.12	575,554.21	36.160436	-107.577386
9,650.00	87.51	314.07	4,976.68	3,441.04	-2,293.25	1,877,804.13	575,487.77	36.160615	-107.577611
9,744.00	87.51	315.05	4,980.77	3,506.93	-2,360.16	1,877,869.84	575,420.68	36.160796	-107.577838
9,837.00	89.43	316.19	4,983.25	3,573.37	-2,425.18	1,877,936.11	575,355.48	36.160978	-107.578058
9,931.00	89.50	315.41	4,984.13	3,640.76	-2,490.71	1,878,003.32	575,289.77	36.161164	-107.578280
10,024.00	89.33	314.34	4,985.08	3,706.37	-2,556.61	1,878,068.75	575,223.69	36.161344	-107.578503
10,117.00	89.23	313.71	4,986.25	3,771.00	-2,623.47	1,878,133.19	575,156.65	36.161521	-107.578730
10,211.00	88.96	313.66	4,987.73	3,835.91	-2,691.44	1,878,197.93	575,088.51	36.161700	-107.578960
10,304.00	89.33	313.76	4,989.12	3,900.17	-2,758.65	1,878,262.00	575,021.12	36.161876	-107.579188
10,397.00	89.60	313.15	4,989.99	3,964.13	-2,826.16	1,878,325.78	574,953.44	36.162052	-107.579416
10,491.00	89.23	312.30	4,990.95	4,027.90	-2,895.21	1,878,389.36	574,884.22	36.162227	-107.579650
10,584.00	89.90	315.61	4,991.65	4,092.44	-2,962.15	1,878,453.72	574,817.10	36.162404	-107.579877
10,678.00	90.37	315.43	4,991.43	4,159.51	-3,028.01	1,878,520.61	574,751.06	36.162589	-107.580100
10,771.00	90.27	314.31	4,990.91	4,225.12	-3,093.92	1,878,586.04	574,684.97	36.162769	-107.580323
10,864.00	90.03	313.79	4,990.67	4,289.78	-3,160.76	1,878,650.52	574,617.96	36.162946	-107.580550
10,959.00	90.61	313.09	4,990.14	4,355.10	-3,229.74	1,878,715.65	574,548.80	36.163126	-107.580784
11,054.00	90.43	315.44	4,989.28	4,421.40	-3,297.76	1,878,781.77	574,480.60	36.163308	-107.581014
11,149.00	89.06	313.41	4,989.70	4,487.90	-3,365.60	1,878,848.08	574,412.58	36.163491	-107.581244
11,244.00	89.60	311.54	4,990.81	4,552.04	-3,435.66	1,878,912.03	574,342.35	36.163667	-107.581481
11,339.00	90.10	314.32	4,991.06	4,616.74	-3,505.21	1,878,976.54	574,272.62	36.163844	-107.581717
11,434.00	89.90	315.84	4,991.06	4,684.00	-3,572.29	1,879,043.62	574,205.36	36.164029	-107.581944
11,529.00	89.93	313.53	4,991.20	4,750.80	-3,639.83	1,879,110.24	574,137.64	36.164213	-107.582173
11,625.00	89.66	316.53	4,991.54	4,818.71	-3,707.67	1,879,177.97	574,069.62	36.164399	-107.582403
11,720.00	89.90	314.57	4,991.91	4,886.53	-3,774.19	1,879,245.60	574,002.91	36.164586	-107.582628
11,815.00	89.06	317.48	4,992.77	4,954.88	-3,840.15	1,879,313.77	573,936.77	36.164773	-107.582852
11,910.00	89.39	317.21	4,994.06	5,024.74	-3,904.51	1,879,383.46	573,872.22	36.164965	-107.583070
12,005.00	90.00	316.29	4,994.56	5,093.94	-3,969.60	1,879,452.48	573,806.94	36.165155	-107.583290

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 315H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Well:	N Escavada UT 315H	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
12,100.00	90.54	316.10	4,994.11	5,162.50	-4,035.36	1,879,520.86	573,740.99	36.165344	-107.583513
12,195.00	89.19	315.73	4,994.34	5,230.73	-4,101.45	1,879,588.92	573,674.72	36.165531	-107.583737
12,290.00	89.73	315.30	4,995.23	5,298.51	-4,168.02	1,879,656.51	573,607.97	36.165717	-107.583963
12,385.00	89.83	314.91	4,995.60	5,365.80	-4,235.07	1,879,723.62	573,540.74	36.165902	-107.584190
12,480.00	89.36	314.06	4,996.27	5,432.37	-4,302.84	1,879,790.00	573,472.78	36.166085	-107.584420
12,575.00	89.50	313.15	4,997.21	5,497.89	-4,371.63	1,879,855.33	573,403.82	36.166265	-107.584653
12,670.00	88.93	315.85	4,998.52	5,564.46	-4,439.37	1,879,921.72	573,335.89	36.166448	-107.584882
12,765.00	89.09	315.40	5,000.16	5,632.35	-4,505.80	1,879,989.44	573,269.28	36.166634	-107.585107
12,860.00	89.36	314.55	5,001.44	5,699.49	-4,573.00	1,880,056.39	573,201.90	36.166819	-107.585335
12,955.00	90.20	314.64	5,001.81	5,766.19	-4,640.65	1,880,122.91	573,134.07	36.167002	-107.585564
13,050.00	90.17	314.31	5,001.50	5,832.75	-4,708.43	1,880,189.28	573,066.10	36.167185	-107.585794
13,145.00	90.23	313.82	5,001.17	5,898.82	-4,776.70	1,880,255.16	572,997.66	36.167366	-107.586025
13,236.00	90.49	313.33	5,000.60	5,961.54	-4,842.62	1,880,317.71	572,931.57	36.167538	-107.586249
RSI@ 13236' MD, 1880317.71 N & 572931.57 E									
13,240.00	90.50	313.31	5,000.56	5,964.29	-4,845.53	1,880,320.45	572,928.65	36.167546	-107.586258
13,249.00	90.74	313.42	5,000.47	5,970.46	-4,852.07	1,880,326.61	572,922.09	36.167563	-107.586281
Last Survey Lateral									
13,308.00	90.74	313.42	4,999.70	6,011.01	-4,894.92	1,880,367.04	572,879.13	36.167674	-107.586426
BP@ 13308' MD, 1880367.04 N & 572879.13 E - 315H BHL									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
573.00	572.99	-0.03	-1.87	First Survey Int.	
4,484.00	4,317.01	-35.41	1,056.67	Last Survey Int.	
4,516.00	4,347.98	-27.35	1,057.10	First Survey Curve	
5,576.00	4,933.63	582.51	607.44	Last Survey Curve	
5,623.00	4,933.13	616.59	575.08	7"Casing@ 5623' MD, 1874987.48 N & 578363.75 E	
5,683.00	4,932.09	659.83	533.50	First Survey Lateral	
13,236.00	5,000.60	5,961.54	-4,842.62	RSI@ 13236' MD, 1880317.71 N & 572931.57 E	
13,249.00	5,000.47	5,970.46	-4,852.07	Last Survey Lateral	
13,308.00	4,999.70	6,011.01	-4,894.92	BP@ 13308' MD, 1880367.04 N & 572879.13 E	

Checked By: _____	Approved By: _____	Date: _____
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