

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

DEC 17 2018

As Drilled

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-043-21300		2 Pool Code 98172		3 Pool Name ESCAVADA N; MANCOS	
4 Property Code 321250		5 Property Name N ESCAVADA UNIT			6 Well Number 316H
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		1590	SOUTH	211	WEST	SANDOVAL

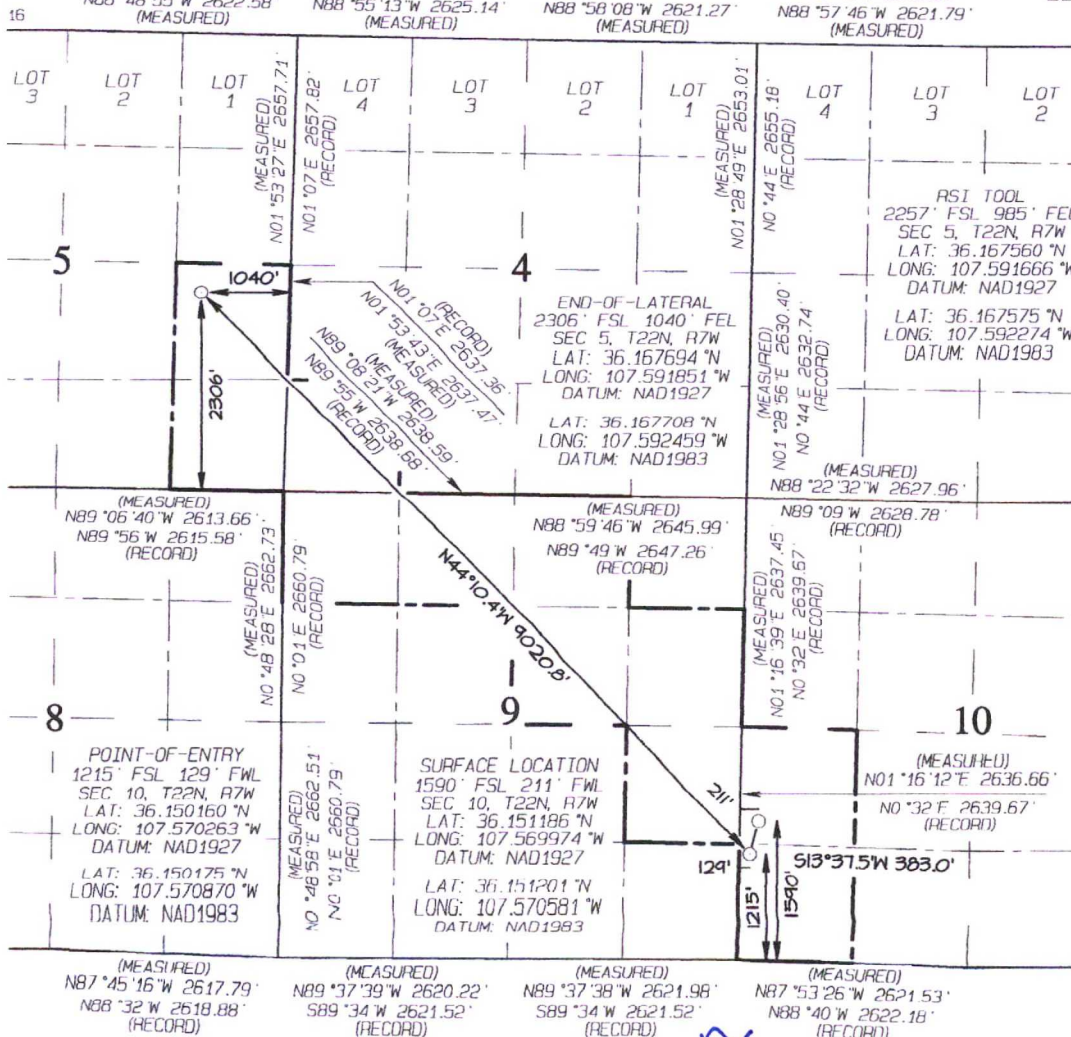
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	5	22N	7W		2306	SOUTH	1040	EAST	SANDOVAL

12 Dedicated Acres 440.0		SW/4 SW/4 - Section 4 E/2 SE/4 - Section 5 N/2 NW/4, W/2 NE/4 SE/4 NE/4, NE/4 SE/4 - Section 9 W/2 SW/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: *12/18/18*
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 17, 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

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Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

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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

¹ API Number 30-043-21300	² Pool Code 98172	³ Pool Name ESCAVADA N; MANCOS
⁴ Property Code 316006	⁵ Property Name N ESCAVADA UNIT	⁶ Well Number 316H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES	⁹ Elevation 6860'

¹⁰ Surface Location **DISTRICT III**

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		1590	SOUTH	211	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
I	5	22N	7W		2306	SOUTH	1040	EAST	SANDOVAL

¹² Dedicated Acres 440.0	SW/4 SW/4 - Section 4 E/2 SE/4 - Section 5 N/2 NW/4, W/2 NE/4 SE/4 NE/4, NE/4 SE/4 - Section 9 W/2 SW/4 - Section 10	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14080
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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

CONFIDENTIAL

DENIED

BY: Amy H. Vermersch
DATE: **12/10/18** (505) 334-6178 Ext. 113

SEC. 3, T22N, R7W
LAT: 36.167694°N
LONG: 107.591851°W
DATUM: NAD1927
LAT: 36.167708°N
LONG: 107.592459°W
DATUM: NAD1983

DATUM: NAD1983

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 **12/10/18**

Printed Name
Lacey Granillo
Email 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 17, 2017
Date of Survey: JULY 10, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



N Escavada UT 316H
Sandoval County, NM 3003 West
Northing: 1874377.96
Easting: 577751.35
Actual

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

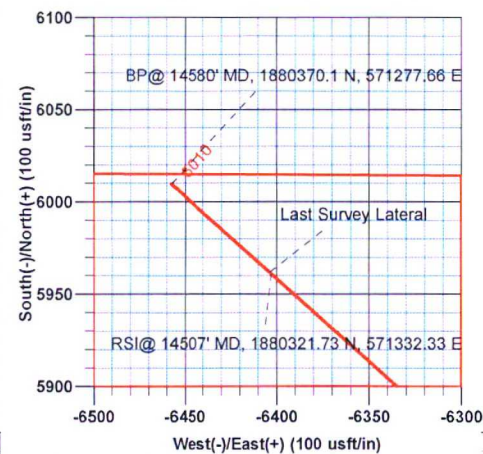
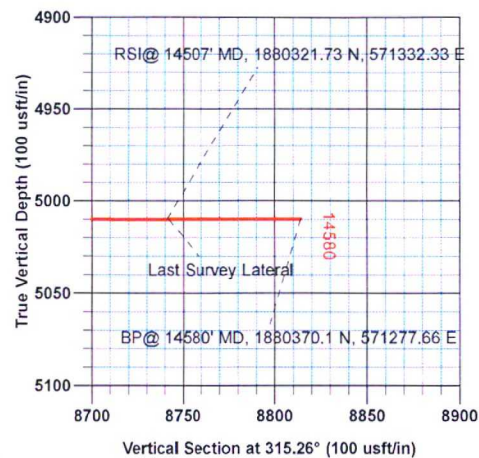
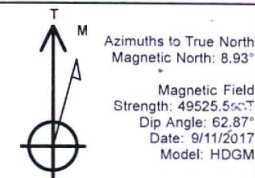


WELL DETAILS N Escavada UT 316H

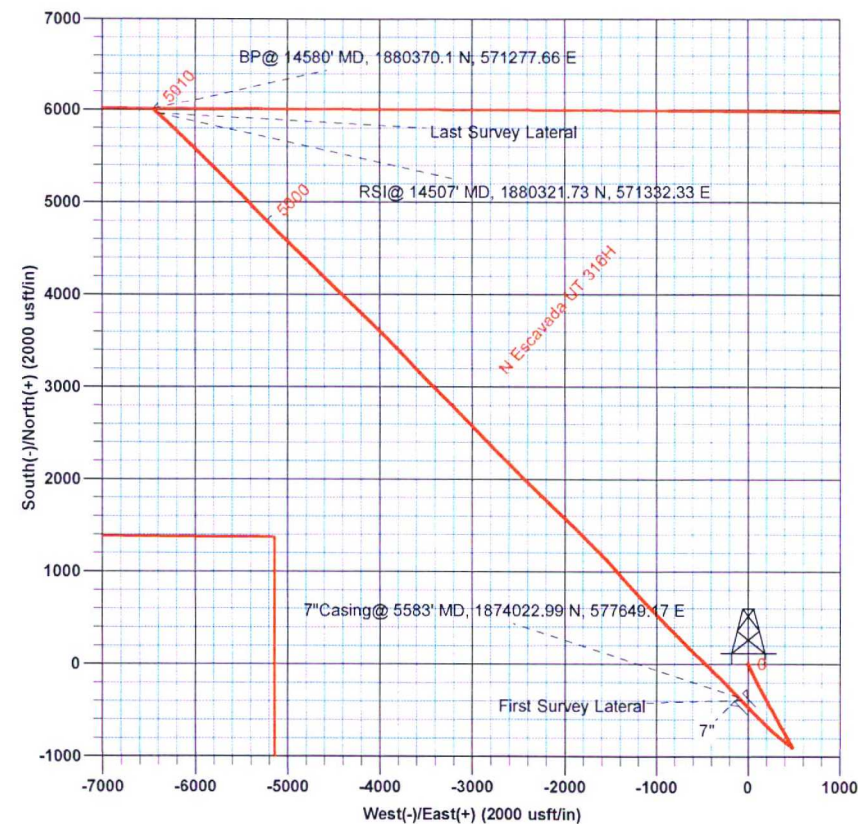
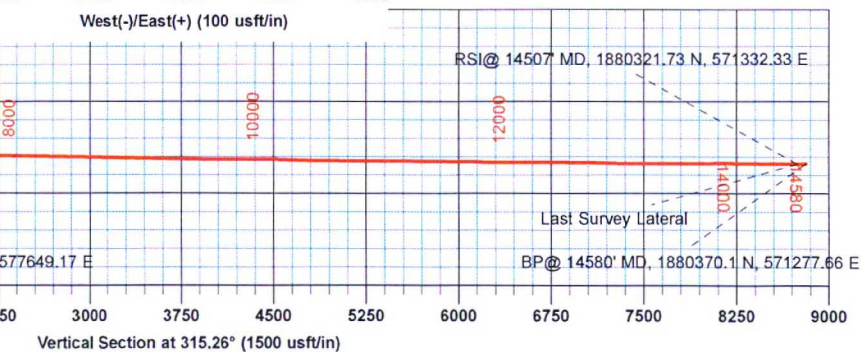
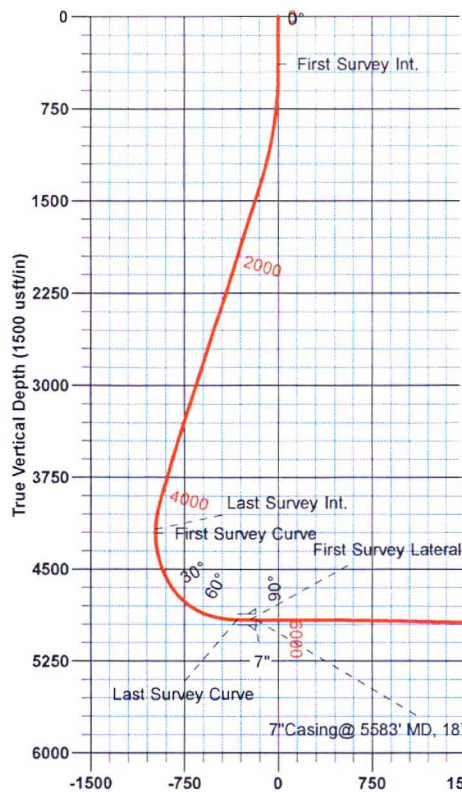
Ground Level: 6860.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1874377.96	577751.35	36.151186	-107.569974

TVD	MD	ANNOTATIONS
385.98	386.00	Annotation
4174.19	4326.00	First Survey Int.
4206.18	4358.00	Last Survey Int.
4910.76	5436.00	First Survey Curve
4912.07	5537.00	Last Survey Curve
4912.36	5583.00	First Survey Lateral
5010.06	14507.00	7"Casing@ 5583' MD, 1874022.99 N, 577649.17 E
5010.06	14508.00	RSI@ 14507' MD, 1880321.73 N, 571332.33 E
5009.98	14580.00	Last Survey Lateral
		BP@ 14580' MD, 1880370.1 N, 571277.66 E



CONFIDENTIAL



Bailey Fellows
6:42, November 15 2017
Scientific Drilling
325 S. Faudree Rd.
Odessa, TX 79765

WPX Energy

Sandoval County, NM 3003 West
N Escavada UT 315 Pad
N Escavada UT 316H
API: 30-043-21300
Wellbore #1

Design: Actual

Survey Report - Geographic

15 November, 2017

CONFIDENTIAL



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 316H
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 316H	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 316H					
Well Position	+N/-S	0.00 usft	Northing:	1,874,377.96 usft	Latitude:	36.151186
	+E/-W	0.00 usft	Easting:	577,751.35 usft	Longitude:	-107.569974
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	49,526

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	315.26	

Survey Program	Date	11/15/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	312.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
386.00	4,326.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,358.00	5,436.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,537.00	14,580.00	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	1,874,377.96	577,751.35	36.151186	-107.569974
21.00	0.00	0.00	21.00	0.00	0.00	1,874,377.96	577,751.35	36.151186	-107.569974
51.00	0.71	90.21	51.00	0.00	0.19	1,874,377.96	577,751.54	36.151186	-107.569974
81.00	0.46	81.48	81.00	0.02	0.49	1,874,377.98	577,751.84	36.151186	-107.569973
111.00	0.50	48.71	111.00	0.12	0.71	1,874,378.08	577,752.06	36.151186	-107.569972
141.00	0.43	25.41	141.00	0.31	0.85	1,874,378.27	577,752.21	36.151187	-107.569971
171.00	0.54	351.99	170.99	0.55	0.88	1,874,378.51	577,752.23	36.151188	-107.569971
201.00	0.89	350.39	200.99	0.92	0.82	1,874,378.88	577,752.17	36.151189	-107.569971
231.00	0.81	0.63	230.99	1.36	0.79	1,874,379.32	577,752.14	36.151190	-107.569972

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 316H
Project:	Sandovall 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 316H	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	0.45	14.19	260.99	1.69	0.82	1,874,379.65	577,752.17	36.151191	-107.569971
291.00	0.51	338.42	290.99	1.93	0.80	1,874,379.89	577,752.15	36.151191	-107.569972
312.00	0.67	343.85	311.99	2.13	0.73	1,874,380.09	577,752.08	36.151192	-107.569972
386.00	0.63	341.71	385.98	2.93	0.48	1,874,380.89	577,751.83	36.151194	-107.569973
First Survey Int.									
448.00	0.49	87.70	447.98	3.27	0.64	1,874,381.23	577,751.98	36.151195	-107.569972
542.00	1.69	150.99	541.96	2.07	1.71	1,874,380.04	577,753.06	36.151192	-107.569968
635.00	3.94	148.80	634.84	-1.86	4.04	1,874,376.11	577,755.39	36.151181	-107.569961
728.00	5.88	148.76	727.50	-8.67	8.16	1,874,369.31	577,759.54	36.151162	-107.569947
821.00	7.67	152.16	819.85	-18.23	13.53	1,874,359.77	577,764.93	36.151136	-107.569928
914.00	9.43	153.27	911.81	-30.52	19.86	1,874,347.49	577,771.29	36.151102	-107.569907
1,008.00	11.45	154.67	1,004.25	-45.84	27.31	1,874,332.20	577,778.79	36.151060	-107.569882
1,101.00	13.31	156.55	1,095.08	-64.00	35.52	1,874,314.05	577,787.05	36.151010	-107.569854
1,194.00	14.76	155.77	1,185.30	-84.63	44.65	1,874,293.45	577,796.23	36.150954	-107.569823
1,288.00	16.28	154.20	1,275.87	-107.41	55.29	1,874,270.70	577,806.94	36.150891	-107.569787
1,381.00	17.62	154.93	1,364.83	-131.90	66.93	1,874,246.24	577,818.64	36.150824	-107.569748
1,474.00	19.46	153.86	1,453.00	-158.56	79.72	1,874,219.62	577,831.50	36.150751	-107.569704
1,568.00	18.64	154.57	1,541.85	-186.18	93.07	1,874,192.03	577,844.93	36.150675	-107.569659
1,661.00	17.45	152.78	1,630.28	-212.00	105.83	1,874,166.24	577,857.76	36.150604	-107.569616
1,755.00	17.87	153.63	1,719.85	-237.46	118.69	1,874,140.82	577,870.68	36.150534	-107.569572
1,848.00	18.81	151.90	1,808.12	-263.47	132.09	1,874,114.85	577,884.15	36.150462	-107.569527
1,941.00	17.92	153.28	1,896.39	-289.47	145.58	1,874,088.88	577,897.72	36.150391	-107.569481
2,035.00	17.22	153.30	1,986.00	-314.82	158.34	1,874,063.57	577,910.54	36.150321	-107.569438
2,128.00	17.69	150.96	2,074.72	-339.47	171.38	1,874,038.95	577,923.65	36.150253	-107.569394
2,221.00	18.62	150.77	2,163.09	-364.78	185.49	1,874,013.68	577,937.83	36.150184	-107.569346
2,315.00	18.29	151.10	2,252.25	-390.79	199.95	1,873,987.71	577,952.36	36.150113	-107.569297
2,408.00	18.72	151.62	2,340.45	-416.70	214.09	1,873,961.84	577,966.57	36.150041	-107.569249
2,501.00	19.02	152.36	2,428.45	-443.25	228.22	1,873,935.33	577,980.77	36.149968	-107.569201
2,595.00	18.56	149.01	2,517.44	-469.65	243.02	1,873,908.97	577,995.65	36.149896	-107.569151
2,690.00	18.20	149.67	2,607.59	-495.42	258.30	1,873,883.25	578,010.99	36.149825	-107.569099
2,785.00	18.70	148.92	2,697.71	-521.26	273.65	1,873,857.44	578,026.42	36.149754	-107.569047
2,880.00	17.75	150.44	2,787.94	-546.90	288.66	1,873,831.84	578,041.49	36.149684	-107.568997
2,975.00	17.69	152.59	2,878.44	-572.31	302.45	1,873,806.47	578,055.35	36.149614	-107.568950
3,070.00	18.40	151.95	2,968.76	-598.36	316.15	1,873,780.46	578,069.12	36.149542	-107.568903
3,165.00	17.57	151.45	3,059.12	-624.19	330.05	1,873,754.67	578,083.09	36.149471	-107.568856
3,260.00	17.92	153.54	3,149.60	-649.87	343.41	1,873,729.03	578,096.53	36.149401	-107.568811
3,355.00	19.01	149.83	3,239.71	-676.33	357.70	1,873,702.60	578,110.89	36.149328	-107.568763
3,450.00	17.99	149.21	3,329.80	-702.31	372.99	1,873,676.66	578,126.24	36.149257	-107.568711
3,545.00	18.65	149.90	3,419.99	-728.05	388.12	1,873,650.96	578,141.44	36.149186	-107.568660
3,640.00	17.50	150.20	3,510.30	-753.59	402.83	1,873,625.46	578,156.23	36.149116	-107.568610
3,735.00	16.24	151.79	3,601.21	-777.69	416.21	1,873,601.40	578,169.67	36.149050	-107.568565
3,830.00	16.00	151.46	3,692.47	-800.90	428.75	1,873,578.22	578,182.27	36.148986	-107.568522
3,925.00	17.17	149.05	3,783.52	-824.43	442.21	1,873,554.73	578,195.80	36.148921	-107.568476
4,021.00	15.62	150.03	3,875.61	-847.78	455.96	1,873,531.42	578,209.61	36.148857	-107.568430
4,116.00	14.05	148.95	3,967.45	-868.74	468.30	1,873,510.49	578,222.00	36.148800	-107.568388
4,136.00	13.97	149.37	3,986.85	-872.90	470.78	1,873,506.34	578,224.50	36.148788	-107.568380
4,168.00	13.36	151.34	4,017.94	-879.46	474.52	1,873,499.78	578,228.25	36.148770	-107.568367
4,200.00	11.53	153.52	4,049.19	-885.57	477.72	1,873,493.69	578,231.47	36.148753	-107.568356
4,231.00	9.00	153.84	4,079.69	-890.52	480.17	1,873,488.74	578,233.93	36.148740	-107.568348
4,263.00	6.57	156.20	4,111.40	-894.44	482.01	1,873,484.83	578,235.79	36.148729	-107.568342
4,295.00	4.45	159.48	4,143.25	-897.28	483.19	1,873,481.99	578,236.97	36.148721	-107.568338
4,326.00	2.10	165.14	4,174.19	-898.96	483.75	1,873,480.32	578,237.54	36.148716	-107.568336
Last Survey Int.									
4,358.00	0.88	249.02	4,206.18	-899.61	483.68	1,873,479.66	578,237.46	36.148715	-107.568336
First Survey Curve									

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 316H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 316H
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
4,390.00	2.46	289.56	4,238.17	-899.47	482.80	1,873,479.80	578,236.59	36.148715	-107.568339
4,422.00	4.70	300.92	4,270.11	-898.57	481.03	1,873,480.70	578,234.81	36.148718	-107.568345
4,453.00	6.92	306.13	4,300.95	-896.81	478.43	1,873,482.45	578,232.21	36.148722	-107.568354
4,485.00	9.31	307.62	4,332.62	-894.10	474.82	1,873,485.15	578,228.59	36.148730	-107.568366
4,517.00	11.56	306.62	4,364.09	-890.60	470.20	1,873,488.63	578,223.96	36.148739	-107.568382
4,548.00	13.64	305.85	4,394.34	-886.61	464.74	1,873,492.61	578,218.49	36.148750	-107.568400
4,580.00	15.46	304.25	4,425.32	-882.00	458.16	1,873,497.21	578,211.90	36.148763	-107.568422
4,612.00	17.95	304.99	4,455.96	-876.77	450.59	1,873,502.41	578,204.32	36.148777	-107.568448
4,643.00	20.58	306.88	4,485.23	-870.76	442.32	1,873,508.40	578,196.03	36.148794	-107.568476
4,675.00	22.64	309.31	4,514.97	-863.48	433.05	1,873,515.66	578,186.74	36.148814	-107.568507
4,707.00	24.53	310.79	4,544.30	-855.24	423.25	1,873,523.87	578,176.92	36.148837	-107.568541
4,738.00	26.64	308.98	4,572.26	-846.66	412.98	1,873,532.42	578,166.62	36.148860	-107.568575
4,770.00	28.66	307.52	4,600.60	-837.47	401.31	1,873,541.58	578,154.93	36.148885	-107.568615
4,802.00	31.74	306.99	4,628.26	-827.73	388.50	1,873,551.28	578,142.10	36.148912	-107.568658
4,833.00	34.91	307.43	4,654.16	-817.43	374.94	1,873,561.55	578,128.51	36.148940	-107.568704
4,865.00	37.57	308.72	4,679.96	-805.76	360.06	1,873,573.17	578,113.59	36.148973	-107.568755
4,897.00	40.76	309.61	4,704.77	-793.00	344.39	1,873,585.90	578,097.89	36.149008	-107.568808
4,928.00	44.01	309.85	4,727.67	-779.64	328.32	1,873,599.21	578,081.79	36.149044	-107.568862
4,960.00	46.66	309.86	4,750.16	-765.06	310.85	1,873,613.75	578,064.28	36.149084	-107.568921
4,992.00	49.94	310.81	4,771.44	-749.59	292.65	1,873,629.16	578,046.03	36.149127	-107.568983
5,023.00	52.95	312.14	4,790.76	-733.53	274.49	1,873,645.17	578,027.83	36.149171	-107.569045
5,055.00	56.41	312.97	4,809.26	-715.88	255.26	1,873,662.78	578,008.55	36.149219	-107.569110
5,087.00	59.96	314.63	4,826.13	-697.05	235.65	1,873,681.55	577,988.89	36.149271	-107.569176
5,119.00	63.43	313.85	4,841.30	-677.40	215.46	1,873,701.14	577,968.65	36.149325	-107.569244
5,150.00	66.68	312.99	4,854.37	-658.09	195.05	1,873,720.40	577,948.18	36.149378	-107.569314
5,182.00	69.70	313.16	4,866.26	-637.80	173.35	1,873,740.63	577,926.43	36.149434	-107.569387
5,214.00	72.47	313.68	4,876.63	-616.99	151.36	1,873,761.38	577,904.39	36.149491	-107.569462
5,245.00	75.02	314.80	4,885.31	-596.23	130.05	1,873,782.08	577,883.01	36.149548	-107.569534
5,277.00	77.32	315.61	4,892.96	-574.18	108.16	1,873,804.07	577,861.06	36.149609	-107.569608
5,309.00	79.71	315.84	4,899.33	-551.73	86.27	1,873,826.46	577,839.11	36.149670	-107.569682
5,340.00	82.29	315.33	4,904.18	-529.86	64.84	1,873,848.27	577,817.63	36.149730	-107.569755
5,372.00	84.99	315.53	4,907.72	-507.21	42.52	1,873,870.87	577,795.25	36.149793	-107.569830
5,404.00	87.58	316.34	4,909.80	-484.27	20.32	1,873,893.75	577,772.98	36.149856	-107.569905
5,436.00	88.96	316.69	4,910.76	-461.06	-1.69	1,873,916.90	577,750.91	36.149919	-107.569980
Last Survey Curve									
5,537.00	89.56	316.24	4,912.07	-387.85	-71.26	1,873,989.92	577,681.15	36.150121	-107.570216
First Survey Lateral									
5,557.11	89.63	316.13	4,912.21	-373.33	-85.18	1,874,004.40	577,667.19	36.150160	-107.570263
316H POE									
5,583.00	89.71	316.00	4,912.36	-354.69	-103.14	1,874,022.99	577,649.17	36.150212	-107.570324
7" Casing@ 5583' MD, 1874022.99 N, 577649.17 E - 7"									
5,620.00	89.83	315.80	4,912.51	-328.12	-128.89	1,874,049.49	577,623.35	36.150285	-107.570411
5,683.00	90.17	315.95	4,912.51	-282.90	-172.75	1,874,094.59	577,579.37	36.150409	-107.570559
5,778.00	89.70	315.39	4,912.62	-214.94	-239.14	1,874,162.37	577,512.80	36.150596	-107.570784
5,873.00	89.97	314.64	4,912.89	-147.75	-306.29	1,874,229.38	577,445.46	36.150780	-107.571012
5,968.00	90.03	314.02	4,912.89	-81.37	-374.25	1,874,295.58	577,377.32	36.150963	-107.571242
6,063.00	90.50	313.36	4,912.45	-15.75	-442.94	1,874,361.01	577,308.45	36.151143	-107.571475
6,158.00	90.34	313.50	4,911.75	49.56	-511.93	1,874,426.13	577,239.29	36.151322	-107.571708
6,253.00	89.29	313.60	4,912.06	115.01	-580.78	1,874,491.40	577,170.26	36.151502	-107.571941
6,348.00	89.67	315.70	4,912.92	181.77	-648.36	1,874,557.97	577,102.50	36.151685	-107.572170
6,443.00	87.88	314.23	4,914.95	248.89	-715.56	1,874,624.90	577,035.12	36.151870	-107.572398
6,538.00	88.18	315.60	4,918.22	315.92	-782.79	1,874,691.76	576,967.71	36.152054	-107.572626
6,633.00	90.17	314.54	4,919.59	383.17	-849.87	1,874,758.82	576,900.44	36.152239	-107.572853
6,729.00	88.15	315.22	4,921.00	450.89	-917.88	1,874,826.36	576,832.25	36.152425	-107.573083

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 316H
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 316H	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
6,824.00	88.12	315.78	4,924.09	518.62	-984.43	1,874,893.90	576,765.51	36.152611	-107.573309
6,919.00	89.60	316.06	4,925.98	586.85	-1,050.51	1,874,961.96	576,699.26	36.152798	-107.573533
7,014.00	88.66	316.73	4,927.42	655.63	-1,116.02	1,875,030.56	576,633.56	36.152987	-107.573755
7,109.00	88.29	317.97	4,929.95	725.47	-1,180.36	1,875,100.23	576,569.03	36.153179	-107.573972
7,204.00	89.33	317.53	4,931.92	795.78	-1,244.22	1,875,170.36	576,504.98	36.153372	-107.574189
7,299.00	88.96	316.86	4,933.34	865.47	-1,308.76	1,875,239.88	576,440.24	36.153564	-107.574407
7,394.00	90.07	316.38	4,934.14	934.51	-1,374.01	1,875,308.74	576,374.81	36.153753	-107.574628
7,489.00	89.50	317.88	4,934.50	1,004.14	-1,438.64	1,875,378.19	576,309.99	36.153945	-107.574847
7,584.00	89.03	317.21	4,935.72	1,074.22	-1,502.76	1,875,448.10	576,245.68	36.154137	-107.575065
7,679.00	88.96	317.16	4,937.38	1,143.90	-1,567.32	1,875,517.60	576,180.94	36.154328	-107.575283
7,774.00	90.37	317.44	4,937.94	1,213.71	-1,631.74	1,875,587.24	576,116.33	36.154520	-107.575501
7,869.00	89.60	314.85	4,937.97	1,282.21	-1,697.55	1,875,655.56	576,050.33	36.154708	-107.575724
7,964.00	88.19	314.38	4,939.80	1,348.92	-1,765.16	1,875,722.09	575,982.54	36.154892	-107.575953
8,059.00	89.66	313.71	4,941.58	1,414.95	-1,833.43	1,875,787.93	575,914.09	36.155073	-107.576185
8,154.00	88.92	314.06	4,942.76	1,480.80	-1,901.90	1,875,853.60	575,845.45	36.155254	-107.576417
8,250.00	88.89	314.71	4,944.59	1,547.94	-1,970.49	1,875,920.55	575,776.67	36.155438	-107.576649
8,345.00	90.37	313.91	4,945.20	1,614.29	-2,038.47	1,875,986.72	575,708.52	36.155621	-107.576879
8,440.00	88.37	313.90	4,946.25	1,680.17	-2,106.90	1,876,052.41	575,639.90	36.155802	-107.577111
8,535.00	88.93	312.93	4,948.49	1,745.44	-2,175.89	1,876,117.49	575,570.73	36.155981	-107.577345
8,630.00	88.59	314.47	4,950.54	1,811.05	-2,244.56	1,876,182.92	575,501.89	36.156161	-107.577577
8,725.00	88.86	315.07	4,952.66	1,877.94	-2,311.98	1,876,249.63	575,434.28	36.156345	-107.577806
8,820.00	88.16	314.71	4,955.13	1,944.97	-2,379.26	1,876,316.47	575,366.82	36.156529	-107.578034
8,915.00	89.50	314.83	4,957.07	2,011.85	-2,446.69	1,876,383.17	575,299.21	36.156713	-107.578262
9,010.00	88.46	315.17	4,958.76	2,079.02	-2,513.86	1,876,450.15	575,231.87	36.156897	-107.578490
9,105.00	87.89	315.56	4,961.78	2,146.59	-2,580.57	1,876,517.54	575,164.97	36.157083	-107.578716
9,200.00	89.36	315.29	4,964.06	2,214.24	-2,647.22	1,876,585.01	575,098.13	36.157269	-107.578942
9,295.00	88.66	315.60	4,965.70	2,281.92	-2,713.86	1,876,652.51	575,031.31	36.157455	-107.579167
9,390.00	90.34	316.08	4,966.53	2,350.07	-2,780.04	1,876,720.48	574,964.95	36.157642	-107.579392
9,485.00	88.49	315.47	4,967.50	2,418.14	-2,846.29	1,876,788.37	574,898.51	36.157829	-107.579616
9,580.00	87.85	315.84	4,970.54	2,486.04	-2,912.66	1,876,856.09	574,831.96	36.158015	-107.579841
9,676.00	90.57	317.41	4,971.86	2,555.81	-2,978.58	1,876,925.68	574,765.85	36.158207	-107.580064
9,769.00	90.23	316.33	4,971.21	2,623.68	-3,042.16	1,876,993.38	574,702.09	36.158393	-107.580280
9,862.00	90.03	315.61	4,971.00	2,690.54	-3,106.79	1,877,060.06	574,637.27	36.158577	-107.580499
9,956.00	89.43	315.06	4,971.44	2,757.39	-3,172.87	1,877,126.74	574,571.02	36.158761	-107.580722
10,049.00	88.99	315.47	4,972.73	2,823.45	-3,238.32	1,877,192.62	574,505.39	36.158942	-107.580944
10,142.00	90.27	315.29	4,973.33	2,889.64	-3,303.64	1,877,258.63	574,439.89	36.159124	-107.581165
10,236.00	89.56	315.21	4,973.47	2,956.40	-3,369.82	1,877,325.21	574,373.53	36.159307	-107.581390
10,329.00	87.52	313.68	4,975.84	3,021.50	-3,436.18	1,877,390.13	574,306.99	36.159486	-107.581614
10,422.00	87.42	315.43	4,979.94	3,086.68	-3,502.39	1,877,455.13	574,240.61	36.159665	-107.581839
10,515.00	89.73	315.88	4,982.25	3,153.16	-3,567.37	1,877,521.44	574,175.45	36.159848	-107.582059
10,608.00	88.36	317.31	4,982.99	3,220.72	-3,631.27	1,877,588.82	574,111.36	36.160033	-107.582275
10,702.00	89.49	316.64	4,984.76	3,289.43	-3,695.39	1,877,657.36	574,047.05	36.160222	-107.582493
10,795.00	91.78	318.02	4,984.54	3,357.80	-3,758.42	1,877,725.55	573,983.84	36.160410	-107.582706
10,888.00	89.97	315.89	4,983.12	3,425.75	-3,821.88	1,877,793.33	573,920.19	36.160597	-107.582921
10,982.00	89.16	315.03	4,983.83	3,492.75	-3,887.81	1,877,860.15	573,854.08	36.160781	-107.583145
11,075.00	90.61	314.94	4,984.02	3,558.49	-3,953.59	1,877,925.71	573,788.13	36.160961	-107.583367
11,169.00	89.46	314.87	4,983.96	3,624.84	-4,020.16	1,877,991.89	573,721.37	36.161143	-107.583593
11,262.00	87.95	314.48	4,986.06	3,690.21	-4,086.28	1,878,057.08	573,655.08	36.161323	-107.583817
11,355.00	89.26	314.13	4,988.32	3,755.15	-4,152.81	1,878,121.83	573,588.37	36.161501	-107.584042
11,449.00	90.88	314.18	4,988.21	3,820.63	-4,220.25	1,878,187.13	573,520.76	36.161681	-107.584271
11,542.00	89.03	313.82	4,988.28	3,885.23	-4,287.15	1,878,251.55	573,453.69	36.161859	-107.584498
11,635.00	88.46	313.42	4,990.32	3,949.37	-4,354.45	1,878,315.51	573,386.20	36.162035	-107.584726
11,729.00	89.76	312.96	4,991.78	4,013.70	-4,422.98	1,878,379.65	573,317.50	36.162211	-107.584958
11,822.00	89.43	314.37	4,992.44	4,077.90	-4,490.25	1,878,443.67	573,250.06	36.162388	-107.585186
11,916.00	88.49	315.29	4,994.14	4,144.16	-4,556.90	1,878,509.75	573,183.23	36.162570	-107.585412

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 316H
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 316H	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
12,009.00	89.97	315.10	4,995.39	4,210.14	-4,622.43	1,878,575.55	573,117.52	36.162751	-107.585634
12,102.00	89.33	314.88	4,995.96	4,275.89	-4,688.20	1,878,641.12	573,051.57	36.162932	-107.585856
12,195.00	90.71	314.17	4,995.93	4,341.10	-4,754.50	1,878,706.15	572,985.09	36.163111	-107.586081
12,291.00	88.83	314.44	4,996.31	4,408.15	-4,823.20	1,878,773.01	572,916.21	36.163295	-107.586314
12,386.00	89.80	313.73	4,997.45	4,474.24	-4,891.44	1,878,838.92	572,847.80	36.163476	-107.586545
12,481.00	90.77	312.69	4,996.98	4,539.28	-4,960.67	1,878,903.77	572,778.39	36.163655	-107.586780
12,576.00	89.40	314.47	4,996.84	4,604.76	-5,029.49	1,878,969.07	572,709.39	36.163835	-107.587013
12,671.00	90.24	313.94	4,997.14	4,671.00	-5,097.59	1,879,035.12	572,641.12	36.164017	-107.587244
12,766.00	89.03	314.81	4,997.74	4,737.43	-5,165.49	1,879,101.37	572,573.04	36.164199	-107.587474
12,861.00	87.89	316.30	5,000.29	4,805.23	-5,231.98	1,879,168.98	572,506.36	36.164386	-107.587699
12,956.00	88.52	315.86	5,003.27	4,873.62	-5,297.85	1,879,237.20	572,440.31	36.164573	-107.587922
13,051.00	88.08	315.70	5,006.09	4,941.68	-5,364.07	1,879,305.07	572,373.90	36.164760	-107.588146
13,146.00	91.37	316.65	5,006.54	5,010.21	-5,429.84	1,879,373.42	572,307.94	36.164949	-107.588369
13,241.00	90.13	316.13	5,005.30	5,078.98	-5,495.36	1,879,442.02	572,242.23	36.165137	-107.588591
13,336.00	89.30	315.65	5,005.77	5,147.19	-5,561.49	1,879,510.05	572,175.93	36.165325	-107.588815
13,431.00	89.76	314.32	5,006.55	5,214.35	-5,628.67	1,879,577.02	572,108.56	36.165509	-107.589043
13,526.00	90.03	313.18	5,006.73	5,280.04	-5,697.30	1,879,642.53	572,039.76	36.165690	-107.589276
13,621.00	90.47	314.42	5,006.31	5,345.79	-5,765.86	1,879,708.09	571,971.01	36.165870	-107.589508
13,716.00	90.03	315.20	5,005.90	5,412.74	-5,833.26	1,879,774.86	571,903.44	36.166054	-107.589736
13,811.00	90.13	314.49	5,005.76	5,479.73	-5,900.62	1,879,841.67	571,835.90	36.166238	-107.589965
13,906.00	90.30	315.76	5,005.41	5,547.05	-5,967.64	1,879,908.81	571,768.69	36.166423	-107.590192
14,001.00	91.04	315.88	5,004.30	5,615.18	-6,033.84	1,879,976.75	571,702.30	36.166610	-107.590416
14,096.00	88.12	313.95	5,004.99	5,682.24	-6,101.11	1,880,043.63	571,634.86	36.166794	-107.590644
14,191.00	88.96	313.27	5,007.41	5,747.74	-6,169.87	1,880,108.95	571,565.92	36.166974	-107.590877
14,286.00	89.29	312.86	5,008.86	5,812.60	-6,239.26	1,880,173.62	571,496.35	36.167152	-107.591112
14,381.00	89.60	312.14	5,009.78	5,876.78	-6,309.30	1,880,237.61	571,426.14	36.167329	-107.591349
14,476.00	90.03	312.06	5,010.09	5,940.47	-6,379.79	1,880,301.11	571,355.48	36.167504	-107.591588
14,507.00	90.07	311.66	5,010.06	5,961.16	-6,402.88	1,880,321.73	571,332.33	36.167560	-107.591666
RSI@ 14507' MD, 1880321.73 N, 571332.33 E									
14,508.00	90.07	311.65	5,010.06	5,961.82	-6,403.62	1,880,322.40	571,331.58	36.167562	-107.591669
Last Survey Lateral									
14,568.09	90.07	311.65	5,009.99	6,001.75	-6,448.52	1,880,362.21	571,286.58	36.167672	-107.591821
316H BHL									
14,580.00	90.07	311.65	5,009.98	6,009.67	-6,457.42	1,880,370.10	571,277.66	36.167694	-107.591851
BP@ 14580' MD, 1880370.1 N, 571277.66 E									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
5,583.00	4,912.36	7"	7	8-3/4

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 316H
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 316H	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)	
386.00	385.98	2.93	0.48	First Survey Int.
4,326.00	4,174.19	-898.96	483.75	Last Survey Int.
4,358.00	4,206.18	-899.61	483.68	First Survey Curve
5,436.00	4,910.76	-461.06	-1.69	Last Survey Curve
5,537.00	4,912.07	-387.85	-71.26	First Survey Lateral
5,583.00	4,912.36	-354.69	-103.14	7"Casing@ 5583' MD, 1874022.99 N, 577649.17 E
14,507.00	5,010.06	5,961.16	-6,402.88	RSI@ 14507' MD, 1880321.73 N, 571332.33 E
14,508.00	5,010.06	5,961.82	-6,403.62	Last Survey Lateral
14,580.00	5,009.98	6,009.67	-6,457.42	BP@ 14580' MD, 1880370.1 N, 571277.66 E

Checked By: _____ Approved By: _____ Date: _____