

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

NMOCB

1 API Number 30-043-21301		2 Pool Code 98172		3 Pool Name ESCAVADA N; MANCOS	
4 Property Code 321250		5 Property Name N ESCAVADA UNIT			
6 GRID No. 372286		7 Operator Name ENDURING RESOURCES LLC		8 Well Number 318H DISTRICT III	
				9 Elevation 6864'	

DEC 31 2018
318H
DISTRICT III

10 Surface Location

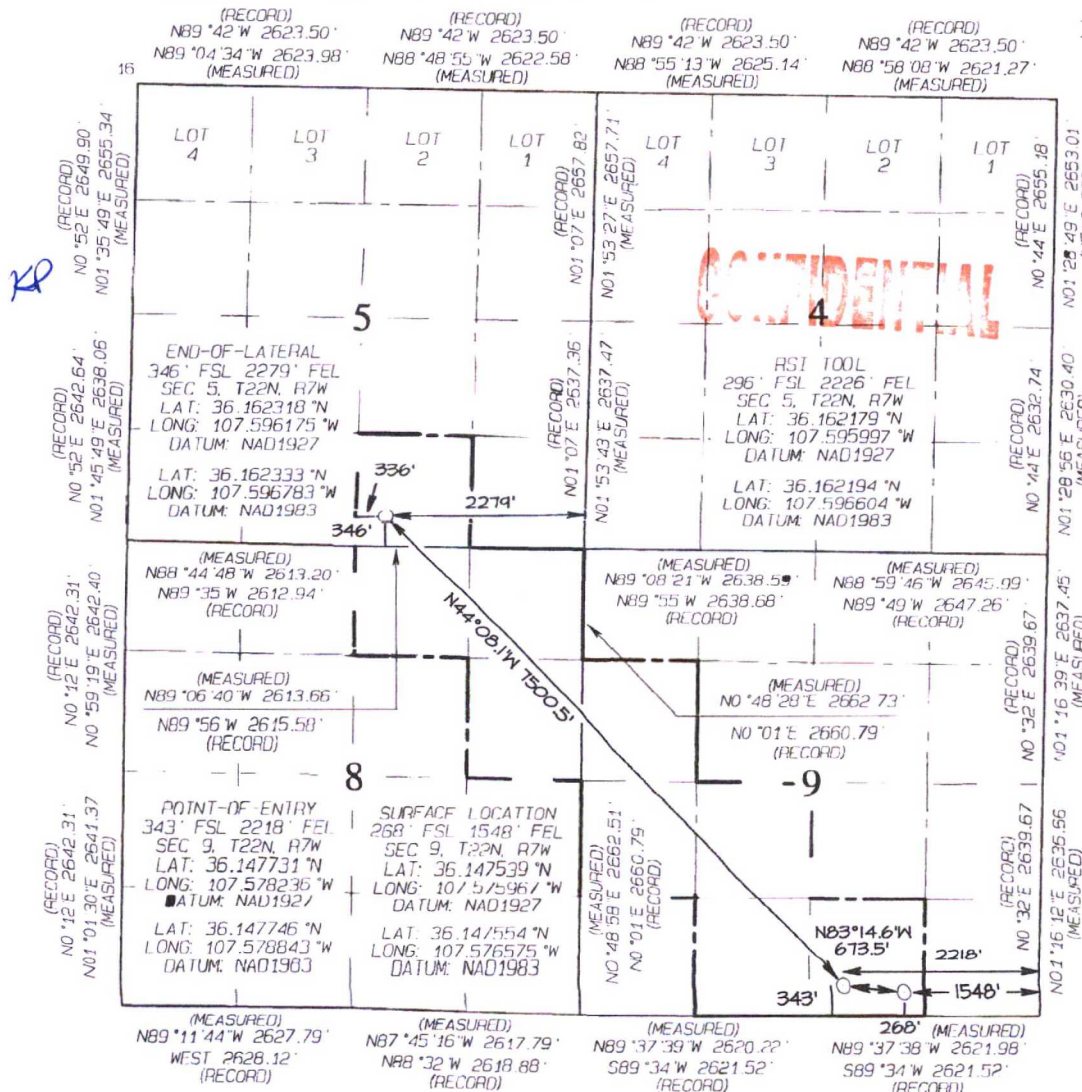
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	9	22N	7W		268	SOUTH	1548	EAST	SANDOVAL

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
0	5	22N	7W		346	SOUTH	2279	EAST	SANDOVAL

12 Dedicated Acres 360.0 SW/4 SE/4 - Section 5 N/2 NE/4, SE/4 NE/4 - Section 8 SW/4 NW/4, N/2 SW/4 SE/4 SW/4, SW/4 SE/4 - Section 9		13 Joint or Infill		14 Consolidation Code		15 Order No. R-14080	
---	--	--------------------	--	-----------------------	--	-------------------------	--

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: 12/31/18

Lacey Graillio
Printed Name
lgraillio@edrnresources.co
E-mail Address

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 30, 2017
Survey Date: FEBRUARY 1, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



NMOCB

DEC 31 2018

DISTRICT III

EOW Summary

**WPX Energy
N Escavada
UT 318H**

CONFIDENTIAL



N Escavada UT 318H
Sandoval County, NM 3003 West
Northing: 1873045.67
Easting: 575985.55
Actual

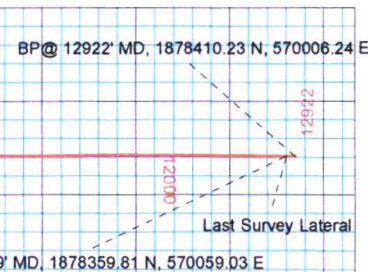
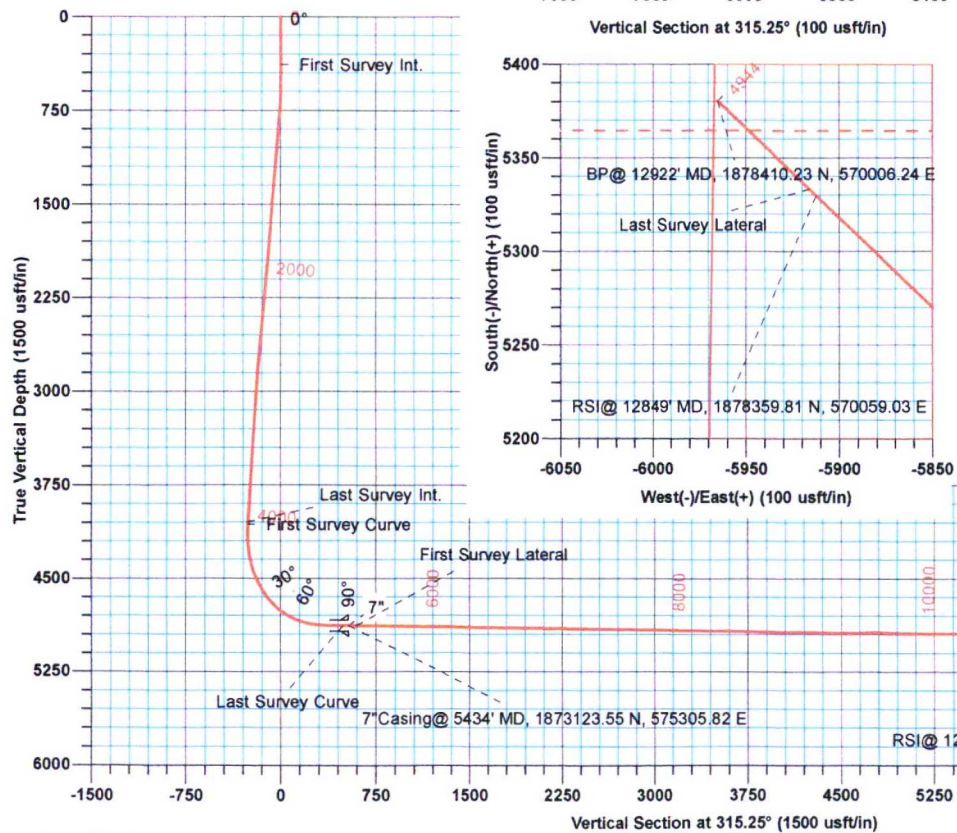
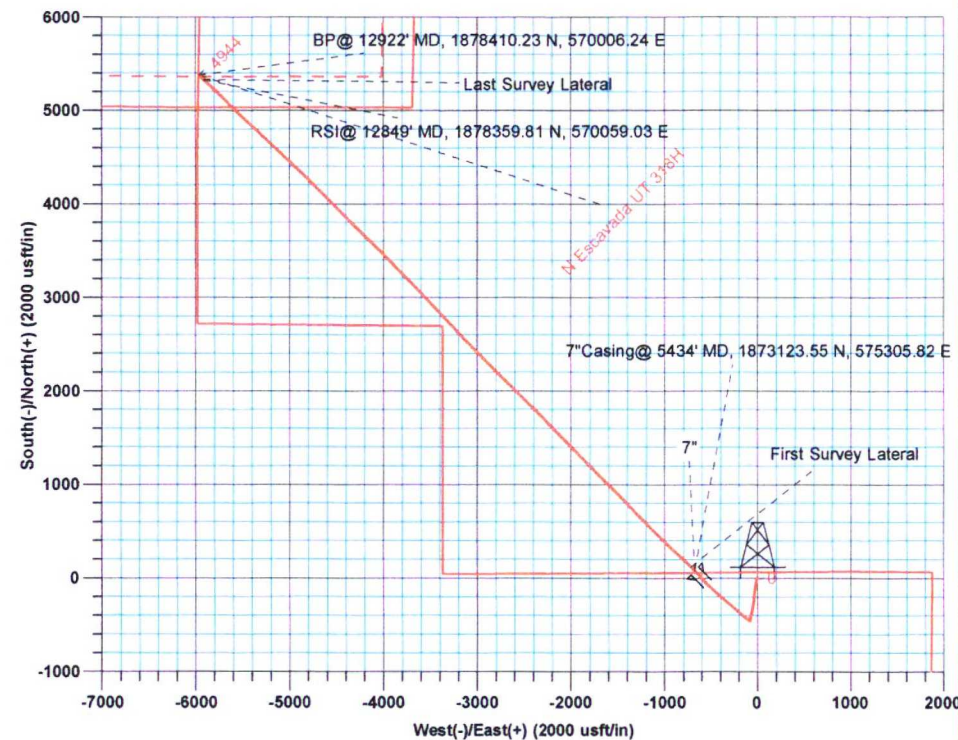
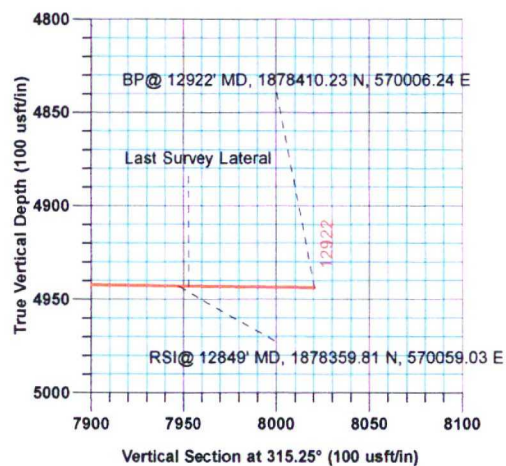
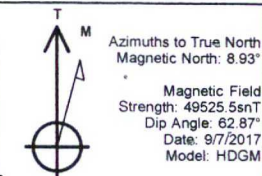
L 6864 + KB 21 = @ 6885.00usft (Cyclone 32)
GL @ 6864.00



WELL DETAILS N Escavada UT 318H

		Ground Level:	6864.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1873045.67	575985.55	36.147539	-107.575967

TVD		MD	Annotation
383.96		384.00	First Survey Int.
4047.53		4077.00	Last Survey Int.
4067.40		4097.00	First Survey Curve
4882.71		5387.00	Last Survey Curve
4882.16		5434.00	7" Casing@ 5434' MD, 1873123.55 N, 575305.82 E
4881.33		5492.00	First Survey Lateral
4943.08		12849.00	RSI@ 12849' MD, 1878359.81 N, 570059.03 E
4943.13		12854.00	Last Survey Lateral
4943.81		12922.00	BP@ 12922' MD, 1878410.23 N, 570006.24 E



Bailey Fellows
9:53, November 29 2017
Scientific Drilling
325 S. Faudree Rd.
Odessa, TX 79765

WPX Energy

Sandoval County, NM 3003 West
N Escavada UT 317-318 Pad
N Escavada UT 318H
API: 30-043-21301
Wellbore #1

Design: Actual

Survey Report - Geographic

29 November, 2017

NMOC
DEC 31 2018
DISTRICT III



Scientific Drilling Int.
Survey Report - Geographic

Company: WPX Energy
Project: Sandoval County, NM 3003 West
Site: N Escavada UT 317-318 Pad
Well: N Escavada UT 318H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 318H
TVD Reference: GL 6864 + KB 21 = @ 6885.00usft (Cyclone 32)
MD Reference: GL 6864 + KB 21 = @ 6885.00usft (Cyclone 32)
North Reference: True
Survey Calculation Method: Minimum Curvature
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 317-318 Pad			
Site Position:		Northing:	1,873,005.64 usft	Latitude: 36.147429
From:	Lat/Long	Easting:	575,985.96 usft	Longitude: -107.575966
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.15 °

Well	N Escavada UT 318H			
Well Position	+N/-S	0.00 usft	Northing:	1,873,045.68 usft
	+E/-W	0.00 usft	Easting:	575,985.56 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 6,864.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/7/2017	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	315.25	

Survey Program	Date	11/29/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	318.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
384.00	4,077.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,097.00	5,387.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,492.00	12,922.00	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	1,873,045.68	575,985.56	36.147539	-107.575967
	21.00	0.00	0.00	21.00	0.00	0.00	1,873,045.68	575,985.56	36.147539	-107.575967
	51.00	0.13	10.67	51.00	0.03	0.01	1,873,045.71	575,985.56	36.147539	-107.575967
	81.00	0.39	321.48	81.00	0.15	-0.05	1,873,045.82	575,985.51	36.147539	-107.575967
	111.00	0.32	301.33	111.00	0.27	-0.19	1,873,045.95	575,985.37	36.147540	-107.575968
	141.00	0.47	300.57	141.00	0.38	-0.36	1,873,046.05	575,985.19	36.147540	-107.575969
	171.00	0.41	284.69	171.00	0.47	-0.57	1,873,046.14	575,984.98	36.147540	-107.575969
	201.00	0.11	189.20	201.00	0.46	-0.68	1,873,046.14	575,984.87	36.147540	-107.575970
	231.00	0.36	237.84	231.00	0.39	-0.77	1,873,046.06	575,984.79	36.147540	-107.575970

Scientific Drilling Int.

Survey Report - Geographic

Company: WPX Energy
Project: Sandoval County, NM 3003 West
Site: N Escavada UT 317-318 Pad
Well: N Escavada UT 318H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 318H
TVD Reference: GL 6864 + KB 21 = @ 6885.00usft (Cyclone 32)
MD Reference: GL 6864 + KB 21 = @ 6885.00usft (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
261.00	0.43	215.16	261.00	0.24	-0.91	1,873,045.92	575,984.65	36.147540	-107.575970
291.00	1.22	252.22	290.99	0.05	-1.28	1,873,045.73	575,984.28	36.147539	-107.575972
318.00	1.47	263.60	317.99	-0.07	-1.90	1,873,045.60	575,983.66	36.147539	-107.575974
384.00	1.44	264.58	383.96	-0.24	-3.56	1,873,045.42	575,981.99	36.147538	-107.575979
First Survey Int.									
446.00	1.02	221.18	445.95	-0.73	-4.70	1,873,044.93	575,980.86	36.147537	-107.575983
540.00	3.05	197.42	539.89	-3.75	-6.00	1,873,041.91	575,979.56	36.147529	-107.575988
633.00	4.60	198.45	632.68	-9.65	-7.92	1,873,036.01	575,977.66	36.147513	-107.575994
726.00	6.74	197.10	725.22	-18.40	-10.71	1,873,027.25	575,974.90	36.147489	-107.576004
820.00	8.44	193.39	818.39	-30.39	-13.93	1,873,015.25	575,971.71	36.147456	-107.576014
913.00	8.37	192.11	910.39	-43.64	-16.93	1,873,001.99	575,968.74	36.147419	-107.576025
1,006.00	8.25	191.83	1,002.42	-56.79	-19.72	1,872,988.83	575,965.99	36.147383	-107.576034
1,100.00	8.04	190.19	1,095.47	-69.86	-22.26	1,872,975.75	575,963.48	36.147347	-107.576043
1,193.00	7.58	190.43	1,187.61	-82.30	-24.52	1,872,963.31	575,961.25	36.147313	-107.576050
1,287.00	7.80	192.14	1,280.76	-94.63	-26.99	1,872,950.97	575,958.82	36.147279	-107.576059
1,380.00	7.86	185.96	1,372.89	-107.13	-28.98	1,872,938.47	575,956.87	36.147245	-107.576065
1,473.00	7.36	186.13	1,465.08	-119.37	-30.27	1,872,926.22	575,955.60	36.147211	-107.576070
1,567.00	7.25	180.06	1,558.31	-131.29	-30.92	1,872,914.30	575,954.98	36.147178	-107.576072
1,660.00	6.81	183.72	1,650.61	-142.66	-31.28	1,872,902.93	575,954.65	36.147147	-107.576073
1,753.00	7.73	187.06	1,742.87	-154.37	-32.41	1,872,891.22	575,953.55	36.147115	-107.576077
1,847.00	7.44	187.58	1,836.04	-166.68	-33.99	1,872,878.91	575,952.01	36.147081	-107.576082
1,940.00	7.23	185.83	1,928.28	-178.47	-35.38	1,872,867.12	575,950.65	36.147049	-107.576087
2,034.00	7.01	184.93	2,021.56	-190.07	-36.47	1,872,855.51	575,949.59	36.147017	-107.576091
2,127.00	7.35	185.13	2,113.83	-201.65	-37.49	1,872,843.93	575,948.60	36.146985	-107.576094
2,220.00	7.15	184.24	2,206.09	-213.34	-38.45	1,872,832.23	575,947.67	36.146953	-107.576098
2,314.00	8.39	186.93	2,299.22	-225.99	-39.71	1,872,819.59	575,946.44	36.146918	-107.576102
2,407.00	8.73	186.07	2,391.18	-239.74	-41.28	1,872,805.83	575,944.91	36.146880	-107.576107
2,500.00	9.21	185.11	2,483.05	-254.17	-42.69	1,872,791.39	575,943.54	36.146841	-107.576112
2,594.00	8.30	188.69	2,575.95	-268.37	-44.38	1,872,777.19	575,941.89	36.146802	-107.576118
2,687.00	8.60	189.50	2,667.94	-281.86	-46.54	1,872,763.69	575,939.76	36.146765	-107.576125
2,780.00	8.22	190.22	2,759.94	-295.26	-48.87	1,872,750.28	575,937.47	36.146728	-107.576133
2,874.00	7.16	189.42	2,853.09	-307.66	-51.02	1,872,737.89	575,935.35	36.146694	-107.576140
2,969.00	6.72	191.04	2,947.40	-318.95	-53.06	1,872,726.58	575,933.35	36.146663	-107.576147
3,064.00	6.80	190.06	3,041.74	-329.95	-55.10	1,872,715.59	575,931.33	36.146633	-107.576154
3,159.00	6.62	190.44	3,136.09	-340.87	-57.08	1,872,704.66	575,929.38	36.146603	-107.576161
3,254.00	6.46	188.55	3,230.47	-351.54	-58.86	1,872,693.98	575,927.62	36.146573	-107.576167
3,349.00	6.81	196.29	3,324.83	-362.23	-61.24	1,872,683.28	575,925.28	36.146544	-107.576175
3,444.00	6.91	195.98	3,419.15	-373.13	-64.39	1,872,672.38	575,922.15	36.146514	-107.576185
3,539.00	6.26	195.53	3,513.53	-383.62	-67.35	1,872,661.88	575,919.22	36.146485	-107.576195
3,634.00	6.71	190.85	3,607.92	-394.06	-69.78	1,872,651.44	575,916.82	36.146457	-107.576204
3,729.00	6.36	193.50	3,702.30	-404.62	-72.06	1,872,640.86	575,914.57	36.146428	-107.576211
3,824.00	7.61	189.56	3,796.60	-415.94	-74.33	1,872,629.54	575,912.33	36.146396	-107.576219
3,919.00	7.31	193.13	3,890.79	-428.03	-76.75	1,872,617.44	575,909.94	36.146363	-107.576227
4,014.00	7.48	186.13	3,985.00	-440.07	-78.78	1,872,605.40	575,907.94	36.146330	-107.576234
4,077.00	6.53	189.21	4,047.53	-447.68	-79.79	1,872,597.79	575,906.95	36.146309	-107.576238
Last Survey Int.									
4,097.00	6.60	189.99	4,067.40	-449.94	-80.17	1,872,595.53	575,906.58	36.146303	-107.576239
First Survey Curve									
4,129.00	5.68	189.26	4,099.22	-453.31	-80.75	1,872,592.15	575,906.01	36.146294	-107.576241
4,161.00	2.55	182.45	4,131.13	-455.58	-81.03	1,872,589.88	575,905.73	36.146288	-107.576242
4,193.00	1.01	230.81	4,163.12	-456.47	-81.28	1,872,588.99	575,905.48	36.146285	-107.576243
4,224.00	2.97	289.32	4,194.10	-456.38	-82.25	1,872,589.08	575,904.51	36.146285	-107.576246
4,256.00	5.28	296.58	4,226.01	-455.45	-84.35	1,872,590.01	575,902.41	36.146288	-107.576253
4,288.00	7.07	301.90	4,257.83	-453.75	-87.34	1,872,591.70	575,899.42	36.146293	-107.576263
4,319.00	9.24	304.07	4,288.51	-451.35	-91.02	1,872,594.09	575,895.73	36.146299	-107.576276

Scientific Drilling Int.

Survey Report - Geographic

Company: WPX Energy
Project: Sandoval County, NM 3003 West
Site: N Escavada UT 317-318 Pad
Well: N Escavada UT 318H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 318H
TVD Reference: GL 6864 + KB 21 = @ 6885.00usft (Cyclone 32)
MD Reference: GL 6864 + KB 21 = @ 6885.00usft (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
4,351.00	11.02	306.02	4,320.01	-448.11	-95.62	1,872,597.32	575,891.12	36.146308	-107.576291
4,382.00	12.61	306.26	4,350.35	-444.36	-100.75	1,872,601.05	575,885.99	36.146318	-107.576309
4,414.00	14.60	306.81	4,381.46	-439.88	-106.80	1,872,605.51	575,879.93	36.146331	-107.576329
4,446.00	16.66	307.42	4,412.27	-434.68	-113.67	1,872,610.70	575,873.04	36.146345	-107.576352
4,477.00	18.99	307.04	4,441.78	-428.94	-121.22	1,872,616.42	575,865.47	36.146361	-107.576378
4,509.00	21.31	307.51	4,471.82	-422.26	-129.99	1,872,623.07	575,856.68	36.146379	-107.576408
4,534.00	23.35	308.69	4,494.94	-416.40	-137.47	1,872,628.92	575,849.20	36.146395	-107.576433
7"									
4,541.00	23.92	308.98	4,501.36	-414.64	-139.65	1,872,630.67	575,847.00	36.146400	-107.576440
4,572.00	26.29	310.59	4,529.43	-406.21	-149.75	1,872,639.07	575,836.88	36.146423	-107.576474
4,604.00	28.68	311.36	4,557.81	-396.53	-160.90	1,872,648.72	575,825.71	36.146450	-107.576512
4,636.00	30.60	310.91	4,585.62	-386.12	-172.82	1,872,659.10	575,813.76	36.146478	-107.576553
4,667.00	32.12	309.97	4,612.10	-375.66	-185.10	1,872,669.53	575,801.46	36.146507	-107.576594
4,699.00	35.09	309.68	4,638.74	-364.32	-198.70	1,872,680.83	575,787.82	36.146538	-107.576640
4,731.00	37.64	309.86	4,664.51	-352.18	-213.28	1,872,692.93	575,773.21	36.146572	-107.576690
4,762.00	40.37	309.66	4,688.60	-339.70	-228.28	1,872,705.37	575,758.18	36.146606	-107.576740
4,794.00	43.88	309.03	4,712.33	-326.10	-244.88	1,872,718.93	575,741.54	36.146643	-107.576797
4,826.00	47.04	309.12	4,734.77	-311.73	-262.58	1,872,733.26	575,723.80	36.146683	-107.576857
4,857.00	50.41	309.49	4,755.22	-296.97	-280.61	1,872,747.97	575,705.74	36.146723	-107.576918
4,889.00	54.07	310.23	4,774.81	-280.75	-300.02	1,872,764.13	575,686.28	36.146768	-107.576983
4,921.00	58.59	310.81	4,792.55	-263.45	-320.26	1,872,781.38	575,666.00	36.146815	-107.577052
4,952.00	62.17	310.21	4,807.87	-245.95	-340.74	1,872,798.82	575,645.47	36.146863	-107.577121
4,984.00	65.18	310.38	4,822.05	-227.40	-362.62	1,872,817.31	575,623.54	36.146914	-107.577195
5,016.00	68.24	310.81	4,834.71	-208.28	-384.93	1,872,836.38	575,601.18	36.146967	-107.577271
5,047.00	71.26	311.55	4,845.43	-189.13	-406.82	1,872,855.47	575,579.24	36.147020	-107.577345
5,079.00	73.97	311.81	4,854.99	-168.83	-429.62	1,872,875.71	575,556.38	36.147075	-107.577422
5,111.00	76.58	312.52	4,863.13	-148.05	-452.56	1,872,896.43	575,533.39	36.147132	-107.577500
5,142.00	79.19	312.44	4,869.63	-127.59	-474.91	1,872,916.83	575,510.98	36.147189	-107.577576
5,174.00	82.40	314.33	4,874.75	-105.89	-497.86	1,872,938.47	575,487.98	36.147248	-107.577654
5,206.00	85.43	314.33	4,878.14	-83.66	-520.62	1,872,960.64	575,465.16	36.147309	-107.577731
5,237.00	87.41	315.57	4,880.08	-61.80	-542.52	1,872,982.44	575,443.21	36.147369	-107.577805
5,269.00	87.65	316.48	4,881.46	-38.79	-564.71	1,873,005.39	575,420.95	36.147433	-107.577880
5,332.00	89.76	316.05	4,882.88	6.71	-608.25	1,873,050.78	575,377.29	36.147558	-107.578027
5,387.00	90.60	315.83	4,882.71	46.24	-646.50	1,873,090.20	575,338.94	36.147666	-107.578157
Last Survey Curve									
5,420.30	90.70	315.16	4,882.33	69.98	-669.84	1,873,113.89	575,315.53	36.147731	-107.578236
318H POE									
5,434.00	90.73	314.88	4,882.16	79.67	-679.53	1,873,123.55	575,305.82	36.147758	-107.578269
7"Casing@ 5434' MD, 1873123.55 N, 575305.82 E									
5,492.00	90.90	313.71	4,881.33	120.17	-721.03	1,873,163.94	575,264.21	36.147869	-107.578409
First Survey Lateral									
5,587.00	89.20	313.89	4,881.25	185.92	-789.60	1,873,229.51	575,195.47	36.148050	-107.578642
5,682.00	88.12	312.73	4,883.47	251.07	-858.70	1,873,294.47	575,126.19	36.148229	-107.578876
5,777.00	88.08	314.54	4,886.62	316.59	-927.42	1,873,359.80	575,057.30	36.148409	-107.579109
5,872.00	88.83	314.30	4,889.18	383.05	-995.25	1,873,426.09	574,989.30	36.148591	-107.579338
5,967.00	89.06	314.19	4,890.93	449.33	-1,063.29	1,873,492.18	574,921.08	36.148773	-107.579569
6,062.00	89.76	313.90	4,891.91	515.37	-1,131.57	1,873,558.04	574,852.62	36.148955	-107.579800
6,157.00	89.70	316.49	4,892.36	582.77	-1,198.51	1,873,625.26	574,785.51	36.149140	-107.580027
6,252.00	89.53	316.15	4,893.00	651.47	-1,264.12	1,873,693.79	574,719.72	36.149329	-107.580249
6,347.00	90.03	316.21	4,893.36	720.01	-1,329.90	1,873,762.16	574,653.76	36.149517	-107.580472
6,442.00	89.50	316.24	4,893.75	788.61	-1,395.62	1,873,830.58	574,587.85	36.149705	-107.580694
6,537.00	88.19	315.70	4,895.67	856.89	-1,461.63	1,873,898.69	574,521.66	36.149893	-107.580918
6,632.00	88.36	315.02	4,898.53	924.46	-1,528.35	1,873,966.08	574,454.76	36.150079	-107.581144
6,727.00	89.43	314.79	4,900.36	991.51	-1,595.63	1,874,032.95	574,387.31	36.150263	-107.581372

Scientific Drilling Int.
Survey Report - Geographic

Company: WPX Energy
Project: Sandoval County, NM 3003 West
Site: N Escavada UT 317-318 Pad
Well: N Escavada UT 318H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 318H
TVD Reference: GL 6864 + KB 21 = @ 6885.00usft (Cyclone 32)
MD Reference: GL 6864 + KB 21 = @ 6885.00usft (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
6,822.00	88.92	315.52	4,901.73	1,058.86	-1,662.61	1,874,100.13	574,320.15	36.150448	-107.581599
6,917.00	89.73	315.16	4,902.85	1,126.43	-1,729.38	1,874,167.52	574,253.20	36.150633	-107.581825
7,012.00	88.66	314.95	4,904.18	1,193.66	-1,796.48	1,874,234.57	574,185.92	36.150818	-107.582052
7,107.00	89.22	314.78	4,905.94	1,260.66	-1,863.81	1,874,301.40	574,118.42	36.151002	-107.582280
7,202.00	89.09	317.05	4,907.34	1,328.89	-1,929.89	1,874,369.45	574,052.15	36.151190	-107.582504
7,297.00	90.04	316.89	4,908.06	1,398.33	-1,994.71	1,874,438.72	573,987.15	36.151380	-107.582724
7,392.00	90.75	316.01	4,907.41	1,467.18	-2,060.16	1,874,507.39	573,921.51	36.151569	-107.582945
7,487.00	89.23	315.90	4,907.42	1,535.47	-2,126.21	1,874,575.50	573,855.29	36.151757	-107.583169
7,583.00	88.25	315.70	4,909.53	1,604.27	-2,193.12	1,874,644.13	573,788.20	36.151946	-107.583396
7,678.00	88.55	315.09	4,912.19	1,671.88	-2,259.80	1,874,711.56	573,721.33	36.152132	-107.583622
7,773.00	89.73	314.76	4,913.61	1,738.96	-2,327.06	1,874,778.46	573,653.90	36.152316	-107.583850
7,868.00	88.96	315.87	4,914.70	1,806.50	-2,393.86	1,874,845.82	573,586.92	36.152502	-107.584076
7,963.00	89.16	315.22	4,916.26	1,874.30	-2,460.38	1,874,913.45	573,520.22	36.152688	-107.584301
8,058.00	88.49	314.99	4,918.20	1,941.58	-2,527.42	1,874,980.55	573,453.00	36.152873	-107.584528
8,153.00	90.13	314.80	4,919.35	2,008.63	-2,594.71	1,875,047.42	573,385.54	36.153057	-107.584756
8,246.00	88.50	314.27	4,920.46	2,073.85	-2,660.99	1,875,112.46	573,319.08	36.153236	-107.584981
8,339.00	88.55	313.90	4,922.85	2,138.53	-2,727.77	1,875,176.97	573,252.13	36.153414	-107.585207
8,432.00	89.90	314.26	4,924.11	2,203.22	-2,794.57	1,875,241.48	573,185.16	36.153591	-107.585433
8,525.00	88.76	314.04	4,925.20	2,267.99	-2,861.30	1,875,306.07	573,118.26	36.153769	-107.585659
8,619.00	88.83	315.60	4,927.18	2,334.23	-2,927.96	1,875,372.14	573,051.43	36.153951	-107.585885
8,712.00	88.19	316.45	4,929.59	2,401.13	-2,992.51	1,875,438.87	572,986.70	36.154135	-107.586104
8,805.00	89.50	316.23	4,931.47	2,468.40	-3,056.70	1,875,505.97	572,922.33	36.154320	-107.586321
8,899.00	88.89	317.11	4,932.79	2,536.77	-3,121.19	1,875,574.16	572,857.65	36.154508	-107.586540
8,992.00	91.11	317.42	4,932.79	2,605.07	-3,184.30	1,875,642.30	572,794.36	36.154695	-107.586754
9,085.00	89.73	317.19	4,932.11	2,673.42	-3,247.36	1,875,710.48	572,731.12	36.154883	-107.586967
9,179.00	87.89	316.62	4,934.06	2,742.04	-3,311.57	1,875,778.94	572,666.74	36.155071	-107.587185
9,272.00	89.16	316.75	4,936.45	2,809.69	-3,375.34	1,875,846.41	572,602.78	36.155257	-107.587401
9,366.00	90.40	317.06	4,936.82	2,878.33	-3,439.56	1,875,914.88	572,538.38	36.155446	-107.587618
9,459.00	89.13	316.59	4,937.20	2,946.14	-3,503.19	1,875,982.53	572,474.57	36.155632	-107.587834
9,552.00	90.44	316.83	4,937.55	3,013.84	-3,566.96	1,876,050.05	572,410.62	36.155818	-107.588050
9,646.00	90.87	315.67	4,936.47	3,081.73	-3,631.96	1,876,117.78	572,345.45	36.156005	-107.588270
9,739.00	89.16	315.08	4,936.45	3,147.92	-3,697.28	1,876,183.79	572,279.95	36.156186	-107.588491
9,832.00	88.79	315.73	4,938.11	3,214.13	-3,762.57	1,876,249.83	572,214.49	36.156368	-107.588713
9,926.00	88.25	315.44	4,940.54	3,281.25	-3,828.33	1,876,316.77	572,148.55	36.156553	-107.588935
10,019.00	88.86	315.72	4,942.88	3,347.66	-3,893.40	1,876,383.00	572,083.30	36.156735	-107.589156
10,113.00	89.66	317.30	4,944.10	3,415.84	-3,958.09	1,876,451.02	572,018.43	36.156922	-107.589375
10,206.00	90.81	315.11	4,943.72	3,482.97	-4,022.44	1,876,517.97	571,953.90	36.157107	-107.589593
10,299.00	89.43	314.25	4,943.52	3,548.36	-4,088.57	1,876,583.19	571,887.60	36.157286	-107.589817
10,393.00	89.83	315.13	4,944.13	3,614.46	-4,155.39	1,876,649.12	571,820.60	36.157468	-107.590043
10,486.00	90.57	314.07	4,943.80	3,679.76	-4,221.61	1,876,714.24	571,754.21	36.157647	-107.590268
10,579.00	91.04	314.79	4,942.50	3,744.86	-4,288.02	1,876,779.16	571,687.63	36.157826	-107.590493
10,673.00	90.67	315.44	4,941.09	3,811.45	-4,354.34	1,876,845.58	571,621.13	36.158009	-107.590717
10,766.00	90.40	315.53	4,940.23	3,877.76	-4,419.54	1,876,911.72	571,555.76	36.158191	-107.590938
10,859.00	90.22	315.92	4,939.72	3,944.35	-4,484.46	1,876,978.13	571,490.66	36.158374	-107.591158
10,953.00	88.29	313.64	4,940.95	4,010.55	-4,551.17	1,877,044.15	571,423.77	36.158556	-107.591384
11,048.00	90.54	314.90	4,941.92	4,076.85	-4,619.19	1,877,110.28	571,355.58	36.158738	-107.591615
11,143.00	91.78	315.24	4,939.99	4,144.10	-4,686.27	1,877,177.34	571,288.33	36.158923	-107.591842
11,238.00	91.14	315.06	4,937.57	4,211.43	-4,753.24	1,877,244.49	571,221.17	36.159108	-107.592069
11,333.00	91.11	314.38	4,935.71	4,278.26	-4,820.73	1,877,311.15	571,153.50	36.159291	-107.592298
11,428.00	90.27	314.20	4,934.56	4,344.59	-4,888.73	1,877,377.30	571,085.33	36.159473	-107.592528
11,523.00	89.66	314.09	4,934.62	4,410.76	-4,956.90	1,877,443.28	571,016.99	36.159655	-107.592759
11,618.00	88.85	314.20	4,935.86	4,476.91	-5,025.06	1,877,509.26	570,948.65	36.159837	-107.592990
11,713.00	90.37	314.37	4,936.50	4,543.24	-5,093.07	1,877,575.41	570,880.47	36.160019	-107.593220
11,808.00	89.56	314.11	4,936.56	4,609.52	-5,161.13	1,877,641.50	570,812.23	36.160201	-107.593451
11,903.00	90.30	313.40	4,936.68	4,675.22	-5,229.75	1,877,707.02	570,743.44	36.160381	-107.593683

Scientific Drilling Int.

Survey Report - Geographic

Company: WPX Energy
 Project: Sandoval County, NM 3003 West
 Site: N Escavada UT 317-318 Pad
 Well: N Escavada UT 318H
 Wellbore: Wellbore #1
 Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 318H
 TVD Reference: GL 6864 + KB 21 = @ 6885.00usft (Cyclone 32)
 MD Reference: GL 6864 + KB 21 = @ 6885.00usft (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
11,998.00	90.10	312.61	4,936.34	4,740.01	-5,299.22	1,877,771.63	570,673.80	36.160559	-107.593919
12,093.00	89.97	312.91	4,936.29	4,804.51	-5,368.97	1,877,835.94	570,603.88	36.160737	-107.594155
12,188.00	90.90	312.74	4,935.57	4,869.09	-5,438.64	1,877,900.33	570,534.03	36.160914	-107.594391
12,283.00	88.97	312.79	4,935.67	4,933.59	-5,508.38	1,877,964.65	570,464.12	36.161091	-107.594628
12,378.00	89.53	314.66	4,936.92	4,999.24	-5,577.02	1,878,030.12	570,395.31	36.161271	-107.594860
12,473.00	89.13	315.19	4,938.03	5,066.33	-5,644.28	1,878,097.03	570,327.87	36.161456	-107.595088
12,568.00	89.20	315.21	4,939.41	5,133.73	-5,711.22	1,878,164.25	570,260.76	36.161641	-107.595315
12,663.00	89.29	314.78	4,940.66	5,200.89	-5,778.39	1,878,231.24	570,193.41	36.161825	-107.595542
12,759.00	89.16	313.46	4,941.96	5,267.71	-5,847.30	1,878,297.88	570,124.32	36.162009	-107.595776
12,849.00	89.42	313.82	4,943.08	5,329.82	-5,912.43	1,878,359.81	570,059.03	36.162179	-107.595997
RSI@ 12849' MD, 1878359.81 N, 570059.03 E									
12,854.00	89.43	313.84	4,943.13	5,333.28	-5,916.03	1,878,363.26	570,055.41	36.162189	-107.596009
Last Survey Lateral									
12,922.00	89.43	313.84	4,943.81	5,380.38	-5,965.08	1,878,410.23	570,006.24	36.162318	-107.596175
BP@ 12922' MD, 1878410.23 N, 570006.24 E - 318H BHL									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
4,534.00	7"		7	8-3/4

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
384.00	383.96	-0.24	-3.56	First Survey Int.
4,077.00	4,047.53	-447.68	-79.79	Last Survey Int.
4,097.00	4,067.40	-449.94	-80.17	First Survey Curve
5,387.00	4,882.71	46.24	-646.50	Last Survey Curve
5,434.00	4,882.16	79.67	-679.53	7"Casing@ 5434' MD, 1873123.55 N, 575305.82 E
5,492.00	4,881.33	120.17	-721.03	First Survey Lateral
12,849.00	4,943.08	5,329.82	-5,912.43	RSI@ 12849' MD, 1878359.81 N, 570059.03 E
12,854.00	4,943.13	5,333.28	-5,916.03	Last Survey Lateral
12,922.00	4,943.81	5,380.38	-5,965.08	BP@ 12922' MD, 1878410.23 N, 570006.24 E

Checked By: _____ Approved By: _____ Date: _____