

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21244	*Pool Code 42289	*Pool Name LYBROOK GALLUP
*Property Code 314331	*Property Name S CHACO UT	*Well Number 339H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 7084'

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
P	35	23N	7W		910	SOUTH	687	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

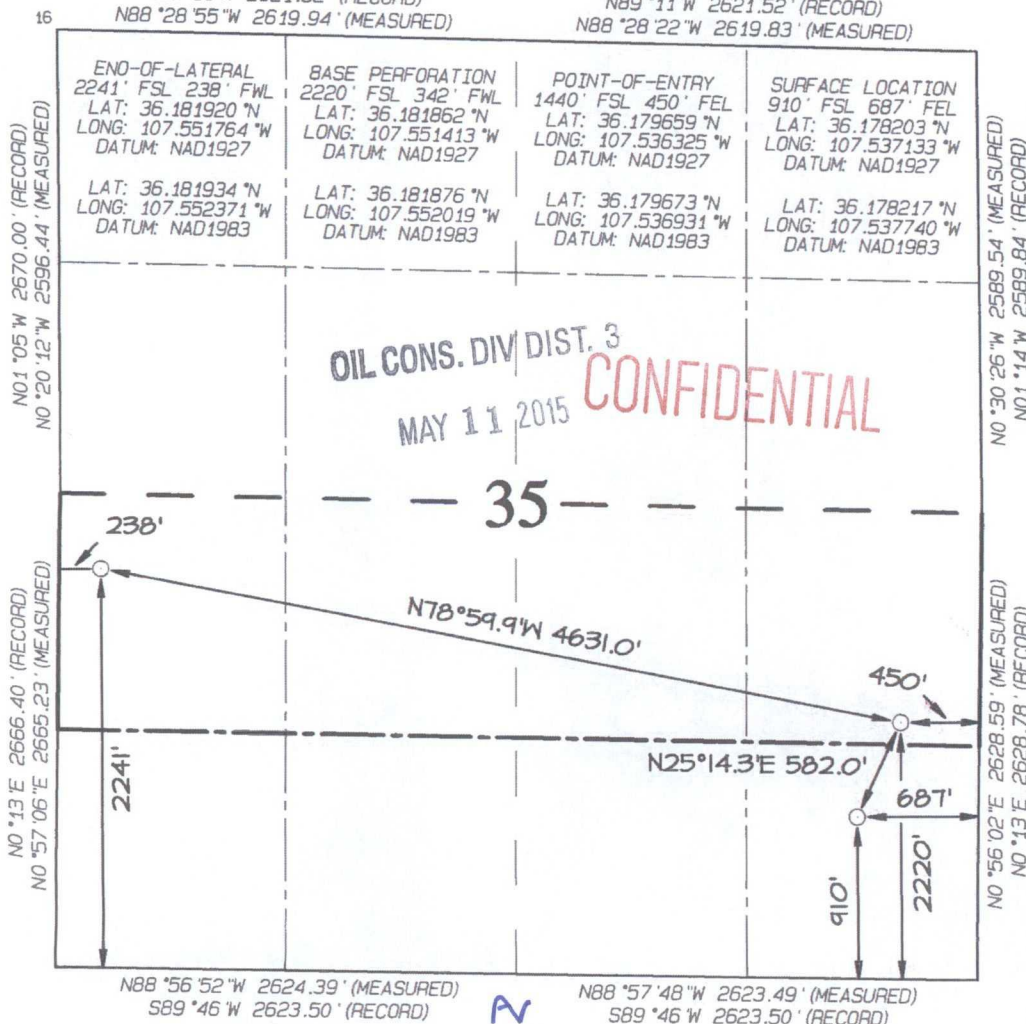
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	35	23N	7W		2241	SOUTH	238	WEST	SANDOVAL

¹² Dedicated Acres 160.0 Acres N/2 S/2 Section 35	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13883-A
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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

N89°11'W 2621.52' (RECORD)
N88°28'55"W 2619.94' (MEASURED)

N89°11'W 2621.52' (RECORD)
N88°28'22"W 2619.83' (MEASURED)



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.

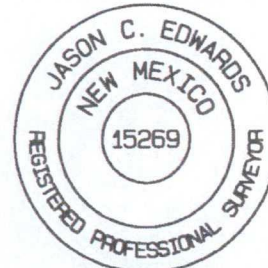
Signature: LACEY GRANILLO
Date: 5/11/15
Printed Name: LACEY GRANILLO@WPXENERGY.COM
E-mail Address:

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: APRIL 27, 2015
Date of Survey: MAY 30, 2014

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



WELL DETAILS: Chaco 2307-35P 339H

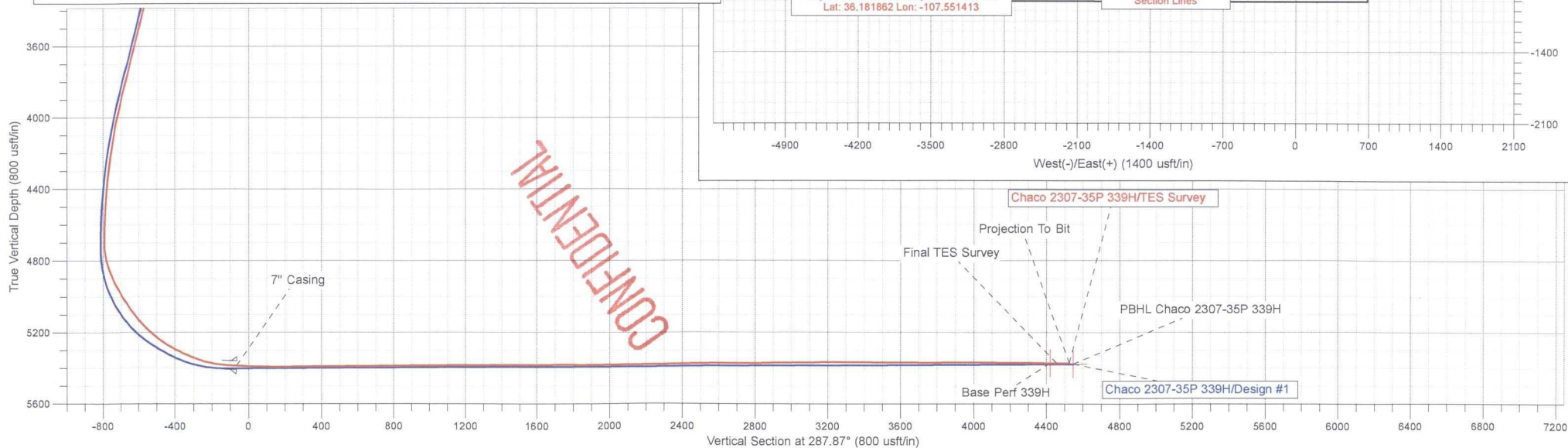
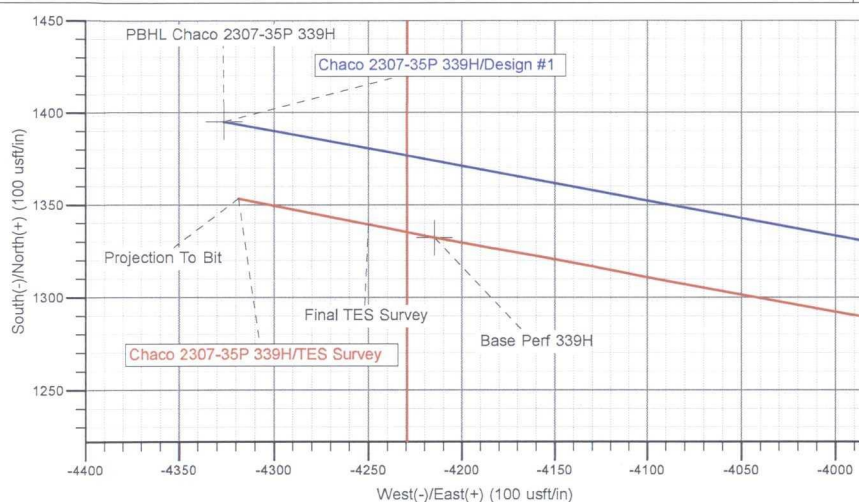
	Ground Level:				
	7084.00				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1886594.524	120128.176	36.178203	-107.537133

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Base Perf 339H	5370.96	1332.24	-4214.71	36.181862	-107.551412	Point
PBHL Chaco 2307-35P 339H	5376.35	1395.06	-4326.12	36.182034	-107.551790	Point

Survey: TES Survey (Chaco 2307-35P 339H/Wellbore #1)

Created By: M. Ramich Date: 13:41, April 24 2015

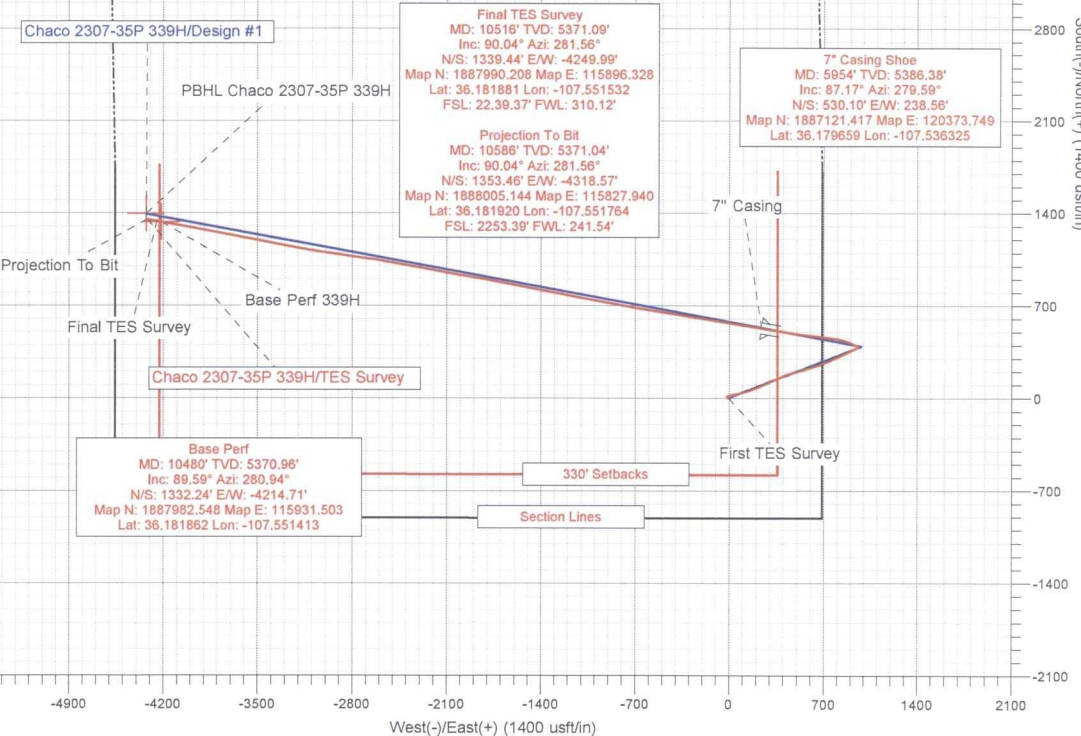


PROJECT DETAILS: Sandoval Co., NM
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level

Azimuths to True North
Magnetic North: 9.27°
Magnetic Field
Strength: 50059.3snT
Dip Angle: 62.93°
Date: 04/13/2015
Model: IGRF2010

SHL: 910' FSL & 687' FEL
PBHL: 2283' FSL & 230' FWL

Sec.35-T23N-R7W



Base Perf
MD: 10480' TVD: 5370.96'
Inc: 89.59° Azi: 280.94°
N/S: 1332.24' E/W: -4214.71'
Map N: 1887982.548 Map E: 115931.503
Lat: 36.181862 Lon: -107.551413

Final TES Survey
MD: 10516' TVD: 5371.09'
Inc: 90.04° Azi: 281.56°
N/S: 1339.44' E/W: -4249.99'
Map N: 1887990.208 Map E: 115896.328
Lat: 36.181881 Lon: -107.551532
FSL: 22.39.37' FWL: 310.12'
Projection To Bit
MD: 10586' TVD: 5371.04'
Inc: 90.04° Azi: 281.56°
N/S: 1353.46' E/W: -4318.57'
Map N: 1888005.144 Map E: 115827.940
Lat: 36.181920 Lon: -107.551764
FSL: 2253.39' FWL: 241.54'

7" Casing Shoe
MD: 5954' TVD: 5386.38'
Inc: 87.17° Azi: 279.59°
N/S: 530.10' E/W: 238.56'
Map N: 1887121.417 Map E: 120373.749
Lat: 36.179659 Lon: -107.536325

WPXENERGY



WPX Energy Production, LLC

Sandoval Co., NM

Sec.35-T23N-R7W

Chaco 2307-35P 339H

Wellbore #1

Survey: TES Survey

Standard Survey Report

24 April, 2015

CONFIDENTIAL





Terrapin Energy Services

Survey Report



Company:	WPX Energy Production, LLC	Local Co-ordinate Reference:	Well Chaco 2307-35P 339H
Project:	Sandoval Co., NM	TVD Reference:	WELL @ 7098.00usft (Original Well Elev)
Site:	Sec.35-T23N-R7W	MD Reference:	WELL @ 7098.00usft (Original Well Elev)
Well:	Chaco 2307-35P 339H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
843.00	1.34	350.75	842.51	12.73	-15.23	18.40	3.52	-3.46	17.31
904.00	2.97	62.01	903.47	14.17	-13.95	17.63	4.65	2.67	116.82
965.00	5.00	63.72	964.32	16.09	-10.17	14.62	3.33	3.33	2.80
1,025.00	6.26	67.00	1,024.03	18.53	-4.82	10.27	2.17	2.10	5.47
1,086.00	9.27	74.96	1,084.46	21.10	2.99	3.63	5.23	4.93	13.05
1,147.00	10.74	78.78	1,144.54	23.48	13.31	-5.46	2.64	2.41	6.26
1,208.00	12.28	80.09	1,204.31	25.71	25.28	-16.17	2.56	2.52	2.15
1,269.00	14.82	78.63	1,263.61	28.36	39.32	-28.72	4.20	4.16	-2.39
1,329.00	16.53	79.55	1,321.37	31.42	55.24	-42.93	2.88	2.85	1.53
1,389.00	17.52	77.62	1,378.74	34.91	72.45	-58.24	1.90	1.65	-3.22
1,450.00	18.23	75.02	1,436.80	39.34	90.64	-74.19	1.75	1.16	-4.26
1,511.00	19.01	70.79	1,494.61	45.08	109.24	-90.13	2.56	1.28	-6.93
1,572.00	19.15	70.70	1,552.26	51.65	128.06	-106.03	0.23	0.23	-0.15
1,633.00	18.80	71.69	1,609.94	58.05	146.84	-121.94	0.78	-0.57	1.62
1,694.00	18.32	69.78	1,667.77	64.45	165.17	-137.42	1.27	-0.79	-3.13
1,755.00	17.82	68.88	1,725.76	71.13	182.87	-152.22	0.94	-0.82	-1.48
1,816.00	17.56	67.48	1,783.88	78.01	200.08	-166.48	0.82	-0.43	-2.30
1,877.00	18.69	67.49	1,841.85	85.28	217.61	-180.93	1.85	1.85	0.02
1,941.00	18.67	67.58	1,902.48	93.11	236.55	-196.56	0.05	-0.03	0.14
2,005.00	19.19	66.46	1,963.02	101.22	255.66	-212.26	0.99	0.81	-1.75
2,068.00	19.56	65.37	2,022.45	109.75	274.74	-227.80	0.82	0.59	-1.73
2,131.00	19.52	64.76	2,081.82	118.63	293.85	-243.26	0.33	-0.06	-0.97
2,195.00	18.98	64.47	2,142.24	127.68	312.91	-258.62	0.86	-0.84	-0.45
2,258.00	17.52	62.28	2,202.07	136.51	330.55	-272.70	2.56	-2.32	-3.48
2,321.00	17.16	65.92	2,262.21	144.71	347.43	-286.25	1.81	-0.57	5.78
2,385.00	17.30	67.62	2,323.34	152.18	364.85	-300.54	0.82	0.22	2.66
2,448.00	17.36	68.38	2,383.48	159.21	382.25	-314.94	0.37	0.10	1.21
2,512.00	17.23	68.28	2,444.59	166.24	399.93	-329.61	0.21	-0.20	-0.16
2,575.00	16.69	68.11	2,504.84	173.07	417.00	-343.76	0.86	-0.86	-0.27
2,638.00	16.82	68.94	2,565.17	179.71	433.90	-357.80	0.43	0.21	1.32
2,702.00	17.01	71.25	2,626.40	186.05	451.40	-372.52	1.09	0.30	3.61
2,765.00	16.85	70.88	2,686.67	192.00	468.75	-387.20	0.31	-0.25	-0.59
2,828.00	17.94	71.95	2,746.79	198.00	486.61	-402.36	1.80	1.73	1.70
2,892.00	18.19	74.73	2,807.64	203.69	505.62	-418.70	1.40	0.39	4.34
2,955.00	18.05	73.78	2,867.51	209.00	524.47	-435.02	0.52	-0.22	-1.51
3,019.00	18.35	74.91	2,928.31	214.39	543.72	-451.68	0.72	0.47	1.77
3,082.00	17.62	73.74	2,988.23	219.65	562.45	-467.89	1.29	-1.16	-1.86
3,146.00	17.03	74.85	3,049.33	224.81	580.80	-483.77	1.06	-0.92	1.73
3,209.00	17.32	73.27	3,109.52	229.92	598.68	-499.22	0.87	0.46	-2.51
3,272.00	17.41	71.47	3,169.65	235.61	616.60	-514.53	0.86	0.14	-2.86
3,335.00	17.97	70.48	3,229.67	241.85	634.70	-529.84	1.01	0.89	-1.57
3,399.00	18.90	68.81	3,290.38	248.90	653.67	-545.73	1.67	1.45	-2.61
3,461.00	18.62	68.57	3,349.09	256.15	672.24	-561.19	0.47	-0.45	-0.39



Terrapin Energy Services
Survey Report



Company:	WPX Energy Production, LLC	Local Co-ordinate Reference:	Well Chaco 2307-35P 339H
Project:	Sandoval Co., NM	TVD Reference:	WELL @ 7098.00usft (Original Well Elev)
Site:	Sec.35-T23N-R7W	MD Reference:	WELL @ 7098.00usft (Original Well Elev)
Well:	Chaco 2307-35P 339H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,525.00	18.71	68.57	3,409.72	263.63	691.31	-577.03	0.14	0.14	0.00
3,588.00	18.28	68.23	3,469.47	270.99	709.89	-592.46	0.70	-0.68	-0.54
3,651.00	17.91	65.96	3,529.36	278.60	727.91	-607.28	1.26	-0.59	-3.60
3,715.00	17.75	65.37	3,590.28	286.67	745.77	-621.79	0.38	-0.25	-0.92
3,779.00	19.06	65.85	3,651.01	295.01	764.17	-636.75	2.06	2.05	0.75
3,842.00	18.85	66.52	3,710.59	303.28	782.89	-652.03	0.48	-0.33	1.06
3,906.00	18.48	65.17	3,771.22	311.66	801.58	-667.25	0.89	-0.58	-2.11
3,969.00	19.26	64.56	3,830.84	320.31	820.03	-682.14	1.28	1.24	-0.97
4,032.00	18.43	64.45	3,890.46	329.07	838.39	-696.94	1.32	-1.32	-0.17
4,095.00	17.44	63.57	3,950.40	337.57	855.83	-710.93	1.63	-1.57	-1.40
4,159.00	15.02	64.60	4,011.84	345.40	871.92	-723.83	3.81	-3.78	1.61
4,222.00	12.94	63.86	4,072.97	352.01	885.62	-734.85	3.31	-3.30	-1.17
4,286.00	12.46	65.15	4,135.41	358.06	898.32	-745.07	0.87	-0.75	2.02
4,349.00	11.82	66.78	4,197.00	363.46	910.42	-754.93	1.15	-1.02	2.59
4,412.00	9.68	64.40	4,258.89	368.30	921.13	-763.64	3.47	-3.40	-3.78
4,475.00	8.21	64.12	4,321.12	372.55	929.95	-770.73	2.33	-2.33	-0.44
4,538.00	7.22	64.51	4,383.55	376.22	937.57	-776.86	1.57	-1.57	0.62
4,602.00	5.88	62.18	4,447.13	379.48	944.10	-782.07	2.13	-2.09	-3.64
4,665.00	5.05	60.18	4,509.85	382.36	949.36	-786.19	1.35	-1.32	-3.17
4,729.00	3.44	59.70	4,573.67	384.73	953.46	-789.37	2.52	-2.52	-0.75
4,791.00	2.63	58.18	4,635.58	386.42	956.28	-791.53	1.31	-1.31	-2.45
4,825.00	2.23	57.10	4,669.55	387.19	957.50	-792.45	1.18	-1.18	-3.18
4,889.00	4.94	303.35	4,733.47	389.38	956.24	-790.58	9.66	4.23	-177.73
4,952.00	13.84	301.34	4,795.56	394.81	947.52	-780.62	14.13	14.13	-3.19
5,015.00	20.55	298.42	4,855.71	404.00	931.34	-762.40	10.74	10.65	-4.63
5,078.00	25.43	293.71	4,913.70	414.71	909.22	-738.06	8.27	7.75	-7.48
5,141.00	29.56	290.43	4,969.57	425.58	882.26	-709.06	6.98	6.56	-5.21
5,204.00	32.37	285.56	5,023.60	435.53	851.43	-676.68	5.97	4.46	-7.73
5,267.00	37.21	281.38	5,075.33	443.82	816.49	-640.87	8.56	7.68	-6.63
5,331.00	40.05	279.34	5,125.32	450.98	777.19	-601.27	4.86	4.44	-3.19
5,395.00	43.78	277.52	5,172.94	457.22	734.91	-559.11	6.13	5.83	-2.84
5,458.00	50.29	276.31	5,215.85	462.74	689.16	-513.88	10.43	10.33	-1.92
5,522.00	55.22	277.04	5,254.58	468.67	638.58	-463.92	7.76	7.70	1.14
5,586.00	62.21	277.17	5,287.79	475.44	584.34	-410.22	10.92	10.92	0.20
5,649.00	63.71	277.07	5,316.43	482.39	528.66	-355.09	2.39	2.38	-0.16
5,713.00	68.56	279.66	5,342.32	490.93	470.78	-297.39	8.43	7.58	4.05
5,776.00	73.73	278.00	5,362.67	500.06	411.89	-238.54	8.58	8.21	-2.63
5,840.00	80.89	280.82	5,376.73	510.28	350.34	-176.82	11.98	11.19	4.41
5,899.00	86.36	279.89	5,383.28	520.82	292.68	-118.72	9.40	9.27	-1.58
5,954.00	87.17	279.59	5,386.38	530.10	238.56	-64.36	1.57	1.47	-0.55
7" Casing									
6,012.00	88.02	279.27	5,388.82	539.60	181.40	-7.04	1.57	1.47	-0.55
6,073.00	89.25	279.27	5,390.27	549.42	121.21	53.26	2.02	2.02	0.00
6,134.00	88.99	278.13	5,391.21	558.65	60.92	113.47	1.92	-0.43	-1.87



Terrapin Energy Services

Survey Report



Company:	WPX Energy Production, LLC	Local Co-ordinate Reference:	Well Chaco 2307-35P 339H
Project:	Sandoval Co., NM	TVD Reference:	WELL @ 7098.00usft (Original Well Elev)
Site:	Sec.35-T23N-R7W	MD Reference:	WELL @ 7098.00usft (Original Well Elev)
Well:	Chaco 2307-35P 339H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,195.00	90.57	278.48	5,391.44	567.46	0.56	173.62	2.65	2.59	0.57
6,256.00	90.75	279.89	5,390.74	577.19	-59.65	233.91	2.33	0.30	2.31
6,317.00	90.35	279.18	5,390.15	587.30	-119.80	294.27	1.34	-0.66	-1.16
6,377.00	90.70	279.27	5,389.60	596.92	-179.02	353.58	0.60	0.58	0.15
6,438.00	90.09	280.15	5,389.18	607.20	-239.15	413.96	1.76	-1.00	1.44
6,499.00	90.79	280.24	5,388.71	618.00	-299.18	474.41	1.16	1.15	0.15
6,560.00	90.13	278.92	5,388.22	628.15	-359.33	534.77	2.42	-1.08	-2.16
6,620.00	90.62	279.09	5,387.83	637.54	-418.59	594.05	0.86	0.82	0.28
6,681.00	89.96	278.83	5,387.52	647.04	-478.84	654.31	1.16	-1.08	-0.43
6,742.00	90.75	279.62	5,387.14	656.82	-539.05	714.62	1.83	1.30	1.30
6,802.00	90.04	279.36	5,386.73	666.71	-598.23	773.98	1.26	-1.18	-0.43
6,862.00	91.05	280.24	5,386.16	676.93	-657.35	833.38	2.23	1.68	1.47
6,923.00	90.40	279.89	5,385.39	687.59	-717.40	893.81	1.21	-1.07	-0.57
6,984.00	89.91	280.94	5,385.22	698.61	-777.40	954.29	1.90	-0.80	1.72
7,045.00	91.01	280.94	5,384.73	710.19	-837.29	1,014.84	1.80	1.80	0.00
7,106.00	90.22	280.76	5,384.08	721.67	-897.19	1,075.38	1.33	-1.30	-0.30
7,167.00	89.56	280.15	5,384.20	732.74	-957.18	1,135.87	1.47	-1.08	-1.00
7,228.00	90.92	280.94	5,383.94	743.90	-1,017.14	1,196.37	2.58	2.23	1.30
7,289.00	89.69	280.85	5,383.61	755.43	-1,077.04	1,256.91	2.02	-2.02	-0.15
7,350.00	89.12	280.85	5,384.25	766.91	-1,136.95	1,317.45	0.93	-0.93	0.00
7,412.00	90.62	281.38	5,384.39	778.87	-1,197.78	1,379.02	2.57	2.42	0.85
7,474.00	91.14	281.56	5,383.44	791.19	-1,258.54	1,440.62	0.89	0.84	0.29
7,535.00	90.53	281.91	5,382.55	803.60	-1,318.26	1,501.27	1.15	-1.00	0.57
7,596.00	90.00	281.47	5,382.27	815.96	-1,377.99	1,561.91	1.13	-0.87	-0.72
7,659.00	90.57	281.29	5,381.95	828.39	-1,439.75	1,624.51	0.95	0.90	-0.29
7,722.00	89.87	281.29	5,381.71	840.72	-1,501.53	1,687.09	1.11	-1.11	0.00
7,786.00	90.35	281.03	5,381.59	853.11	-1,564.32	1,750.65	0.85	0.75	-0.41
7,850.00	89.52	280.50	5,381.66	865.06	-1,627.19	1,814.16	1.54	-1.30	-0.83
7,913.00	90.35	280.76	5,381.73	876.68	-1,689.11	1,876.66	1.38	1.32	0.41
7,977.00	90.75	279.80	5,381.12	888.10	-1,752.08	1,940.09	1.62	0.63	-1.50
8,040.00	91.19	279.97	5,380.05	898.92	-1,814.14	2,002.47	0.75	0.70	0.27
8,103.00	90.79	280.41	5,378.96	910.06	-1,876.13	2,064.89	0.94	-0.63	0.70
8,166.00	90.44	280.15	5,378.29	921.30	-1,938.12	2,127.74	0.69	-0.56	-0.41
8,230.00	90.35	279.80	5,377.84	932.39	-2,001.15	2,190.73	0.56	-0.14	-0.55
8,293.00	90.62	280.59	5,377.31	943.54	-2,063.15	2,253.16	1.33	0.43	1.25
8,356.00	91.41	280.15	5,376.20	954.88	-2,125.11	2,315.61	1.44	1.25	-0.70
8,420.00	90.66	281.03	5,375.04	966.64	-2,188.01	2,379.08	1.81	-1.17	1.38
8,483.00	90.40	280.68	5,374.46	978.50	-2,249.88	2,441.61	0.69	-0.41	-0.56
8,547.00	89.74	280.85	5,374.38	990.46	-2,312.75	2,505.12	1.06	-1.03	0.27
8,610.00	90.48	280.94	5,374.26	1,002.36	-2,374.62	2,567.65	1.18	1.17	0.14
8,674.00	90.97	281.38	5,373.45	1,014.75	-2,437.40	2,631.21	1.03	0.77	0.69
8,737.00	88.95	280.06	5,373.49	1,026.47	-2,499.30	2,693.71	3.83	-3.21	-2.10
8,800.00	90.57	279.53	5,373.76	1,037.18	-2,561.38	2,756.08	2.71	2.57	-0.84



Terrapin Energy Services

Survey Report



Company:	WPX Energy Production, LLC	Local Co-ordinate Reference:	Well Chaco 2307-35P 339H
Project:	Sandoval Co., NM	TVD Reference:	WELL @ 7098.00usft (Original Well Elev)
Site:	Sec.35-T23N-R7W	MD Reference:	WELL @ 7098.00usft (Original Well Elev)
Well:	Chaco 2307-35P 339H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,863.00	91.67	278.65	5,372.52	1,047.14	-2,623.57	2,818.33	2.24	1.75	-1.40
8,927.00	91.49	278.83	5,370.76	1,056.86	-2,686.80	2,881.50	0.40	-0.28	0.28
8,990.00	90.75	278.22	5,369.53	1,066.19	-2,749.10	2,943.65	1.52	-1.17	-0.97
9,053.00	90.44	277.51	5,368.87	1,074.81	-2,811.50	3,005.68	1.23	-0.49	-1.13
9,117.00	90.66	279.62	5,368.26	1,084.35	-2,874.78	3,068.83	3.31	0.34	3.30
9,180.00	91.10	278.65	5,367.29	1,094.35	-2,936.97	3,131.10	1.69	0.70	-1.54
9,243.00	90.70	278.65	5,366.30	1,103.82	-2,999.25	3,193.27	0.63	-0.63	0.00
9,307.00	89.59	277.69	5,366.14	1,112.91	-3,062.60	3,256.36	2.29	-1.73	-1.50
9,370.00	89.82	278.74	5,366.46	1,121.92	-3,124.95	3,318.46	1.71	0.37	1.67
9,433.00	90.40	282.08	5,366.34	1,133.30	-3,186.90	3,380.92	5.38	0.92	5.30
9,496.00	89.78	281.82	5,366.24	1,146.34	-3,248.54	3,443.58	1.07	-0.98	-0.41
9,559.00	89.74	281.99	5,366.51	1,159.34	-3,310.18	3,506.24	0.28	-0.06	0.27
9,623.00	90.00	281.12	5,366.65	1,172.16	-3,372.88	3,569.85	1.42	0.41	-1.36
9,686.00	89.60	280.15	5,366.87	1,183.78	-3,434.80	3,632.35	1.67	-0.63	-1.54
9,749.00	89.65	280.41	5,367.29	1,195.03	-3,496.79	3,694.79	0.42	0.08	0.41
9,813.00	89.87	281.12	5,367.55	1,206.98	-3,559.66	3,758.30	1.16	0.34	1.11
9,876.00	90.70	282.26	5,367.24	1,219.75	-3,621.35	3,820.93	2.24	1.32	1.81
9,939.00	89.60	279.80	5,367.08	1,231.80	-3,683.18	3,883.48	4.28	-1.75	-3.90
10,002.00	89.56	279.36	5,367.54	1,242.28	-3,745.30	3,945.82	0.70	-0.06	-0.70
10,065.00	89.96	281.12	5,367.80	1,253.48	-3,807.29	4,008.25	2.86	0.63	2.79
10,129.00	89.91	282.08	5,367.87	1,266.35	-3,869.99	4,071.87	1.50	-0.08	1.50
10,192.00	89.60	281.38	5,368.14	1,279.16	-3,931.67	4,134.51	1.22	-0.49	-1.11
10,255.00	89.43	280.41	5,368.68	1,291.06	-3,993.53	4,197.04	1.56	-0.27	-1.54
10,319.00	89.52	280.41	5,369.26	1,302.63	-4,056.47	4,260.49	0.14	0.14	0.00
10,382.00	89.43	281.29	5,369.84	1,314.49	-4,118.34	4,323.02	1.40	-0.14	1.40
10,446.00	89.21	279.71	5,370.60	1,326.15	-4,181.27	4,386.48	2.49	-0.34	-2.47
10,509.00	89.91	281.99	5,371.08	1,338.01	-4,243.13	4,449.00	3.79	1.11	3.62
10,516.00	90.04	281.56	5,371.09	1,339.44	-4,249.99	4,455.96	6.42	1.86	-6.14
Final TES Survey									
10,586.00	90.04	281.56	5,371.04	1,353.46	-4,318.57	4,525.54	0.00	0.00	0.00
Projection To Bit									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Base Perf 339H	0.00	0.00	5,370.96	1,332.24	-4,214.71	1,887,982.546	115,931.506	36.181862	-107.551413
- survey hits target center									
- Point									



Terrapin Energy Services
Survey Report



Company:	WPX Energy Production, LLC	Local Co-ordinate Reference:	Well Chaco 2307-35P 339H
Project:	Sandoval Co., NM	TVD Reference:	WELL @ 7098.00usft (Original Well Elev)
Site:	Sec.35-T23N-R7W	MD Reference:	WELL @ 7098.00usft (Original Well Elev)
Well:	Chaco 2307-35P 339H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
5,954.00	5,386.38	7" Casing	7	8-3/4

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
356.00	355.98	0.47	-3.09	First TES Survey
10,516.00	5,371.09	1,339.44	-4,249.99	Final TES Survey
10,586.00	5,371.04	1,353.46	-4,318.57	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____