

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

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

AS DRILLED

OIL CONS. DIV DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31107	*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 301345	*Property Name SCHALK 32	*Well Number 4H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6938'

¹⁰ Surface Location

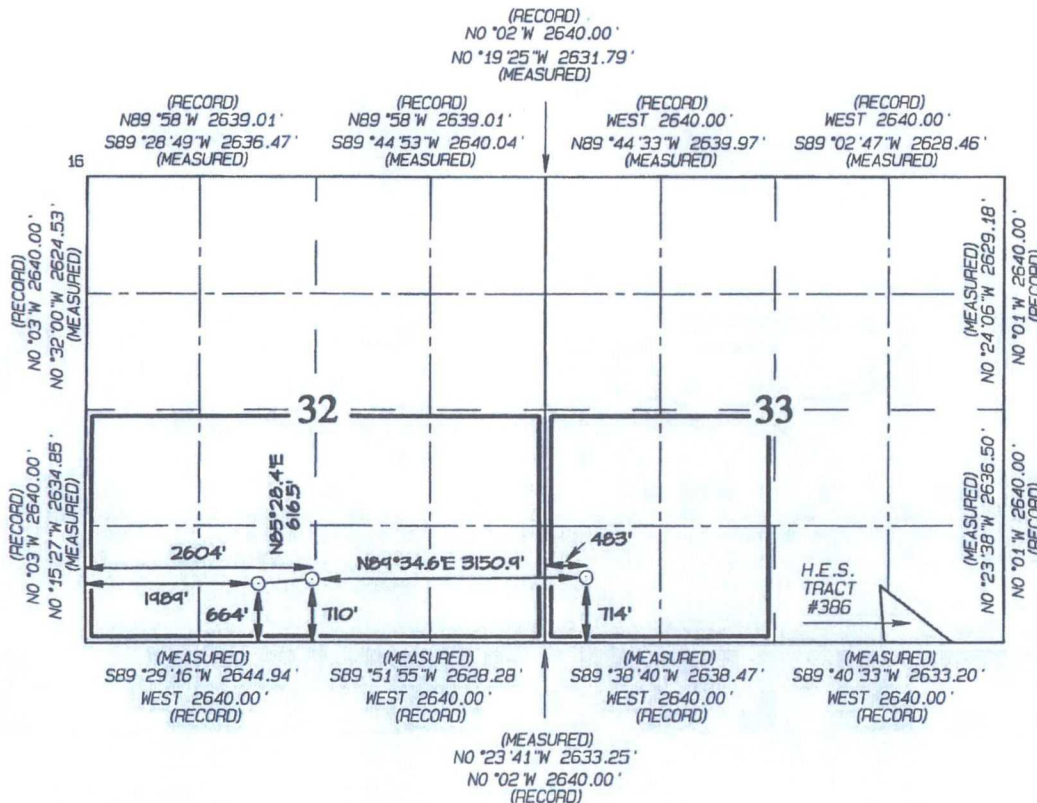
U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	32	31N	4W		664	SOUTH	1989	WEST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	31N	4W		714	SOUTH	483	WEST	RIO ARIBA

¹² Dedicated Acres 320.0 - (S/2 Section 32) 480.0 160.0 - (SW/4 Section 33)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSP-2030
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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



SURFACE LOCATION
LAT: 36.850733 °N
LONG: 107.279871 °W
DATUM: NAD1927

LAT: 36.850740 °N
LONG: 107.280471 °W
DATUM: NAD1983

POINT-OF-ENTRY
LAT: 36.850857 *N
LONG: 107.277769 *W
DATUM: NAD1927

LAT: 36.850864 *N
LONG: 107.278369 *W
DATUM: NAD1983

END-OF-LATERAL
LAT: 36.850870°N
LONG: 107.267001°W
DATUM: NAD1927

LAT: 36.850877 °N
LONG: 107.267600 °W
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 _____ Date _____
LACEY GRANILLO
Printed Name _____
lacey.granillo@wpxenenergy.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: JULY 8, 2015
Survey Date: SEPTEMBER 23, 2011

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number	15269
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WPX Energy

T31N R4W Rosa Unit
Schalk 32 4H
Schalk 32 4H - Slot A1

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

08 July, 2015



www.scientificdrilling.com



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Company Name: WPX Energy
Project: T31N R4W Rosa Unit
Site: Schalk 32 4H
Well: Schalk 32 4H



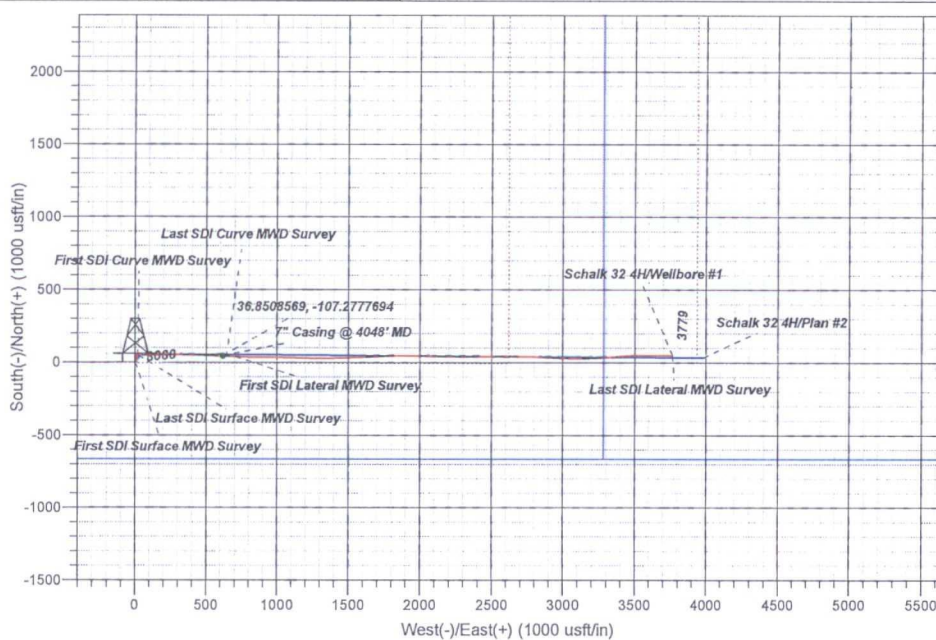
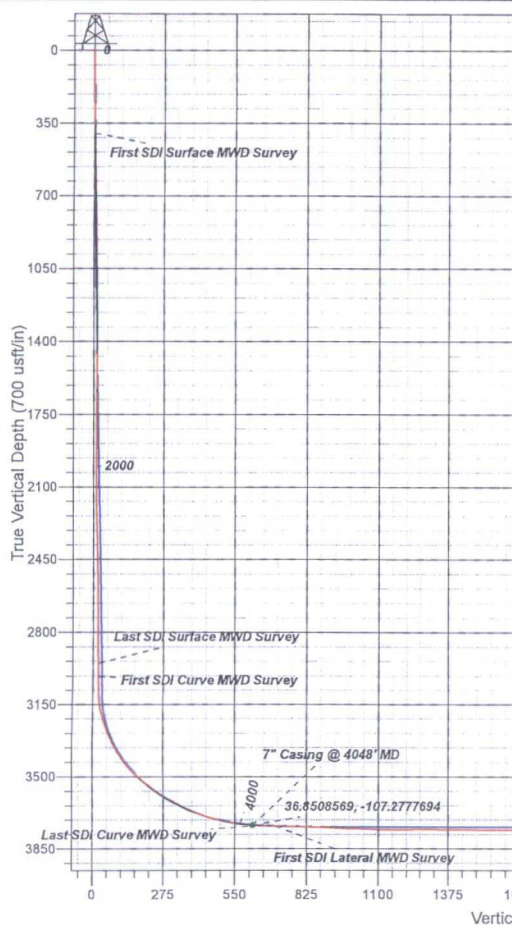
Azimuths to True North
Magnetic North: 9.17°

Magnetic Field
Strength: 50259.2snT
Dip Angle: 63.53°
Date: 6/23/2015
Model: HDGM

WELL DETAILS: Schalk 32 4H

+N/-S	+E/-W	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)	6938.00		
		Northing	Easting	Latitude	Longitude
0.00	0.00	2129397.25	661935.51	36.8507330	-107.2798710

A1



Design: Wellbore #1 (Schalk 32 4H/Wellbore #1)

Created By: Janie Collins Date: 10:55, July 08 2015

PROJECT DETAILS: T31N R4W Rosa Unit

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003

System Datum: Mean Sea Level
Local North: True



Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well Schalk 32 4H - Slot A1
Project:	T31N R4W Rosa Unit	TVD Reference:	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)
Site:	Schalk 32 4H	MD Reference:	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)
Well:	Schalk 32 4H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Project	T31N R4W Rosa Unit		
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	Schalk 32 4H		
Site Position:		Northing:	2,129,397.25 usft
From:	Lat/Long	Easting:	661,935.51 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Grid Convergence:	0.33 °

Well	Schalk 32 4H - Slot A1		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	6/23/2015	9.17

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00

Survey Program	Date 7/7/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
14.00	294.00	Survey #1 (Wellbore #1)	GYRO-NS
399.00	2,950.00	Survey #2 - Surface MWD (Wellbore #1)	SDI MWD
3,013.00	4,075.00	Survey #3 - Curve MWD Survey (Wellbore #1)	SDI MWD
4,138.00	7,202.00	Survey #4 - Lateral MWD Survey (Wellbore #1)	SDI MWD

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	2,129,397.25	661,935.51	36.8507330	-107.2798710
14.00	0.00	0.00	14.00	0.00	0.00	2,129,397.25	661,935.51	36.8507330	-107.2798710
44.00	0.38	44.98	44.00	0.07	0.07	2,129,397.32	661,935.58	36.8507332	-107.2798708
74.00	0.43	27.86	74.00	0.24	0.19	2,129,397.49	661,935.71	36.8507336	-107.2798704
104.00	0.56	29.05	104.00	0.47	0.32	2,129,397.72	661,935.83	36.8507343	-107.2798700
134.00	0.71	13.92	134.00	0.78	0.43	2,129,398.03	661,935.93	36.8507351	-107.2798696
164.00	0.93	15.87	163.99	1.19	0.54	2,129,398.44	661,936.05	36.8507362	-107.2798692
194.00	1.10	22.50	193.99	1.69	0.72	2,129,398.95	661,936.23	36.8507376	-107.2798686
224.00	1.00	13.84	223.98	2.21	0.89	2,129,399.47	661,936.40	36.8507390	-107.2798680

Company:	WPX Energy	Local Co-ordinate Reference:	Well Schalk 32 4H - Slot A1
Project:	T31N R4W Rosa Unit	TVD Reference:	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)
Site:	Schalk 32 4H	MD Reference:	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)
Well:	Schalk 32 4H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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	
254.00	0.96	32.56	253.98	2.68	1.09	2,129,399.93	661,936.59	36.8507403	-107.2798673	
284.00	0.85	47.39	283.98	3.04	1.39	2,129,400.30	661,936.89	36.8507413	-107.2798663	
294.00	0.73	50.14	293.97	3.13	1.49	2,129,400.39	661,936.99	36.8507416	-107.2798659	
399.00	0.63	80.76	398.97	3.65	2.58	2,129,400.92	661,938.07	36.8507430	-107.2798622	
First SDI Surface MWD Survey										
462.00	1.23	33.34	461.96	4.27	3.29	2,129,401.54	661,938.78	36.8507447	-107.2798598	
526.00	1.80	31.81	525.94	5.70	4.20	2,129,402.98	661,939.68	36.8507486	-107.2798567	
589.00	1.70	33.92	588.91	7.32	5.24	2,129,404.60	661,940.71	36.8507531	-107.2798531	
653.00	1.89	34.21	652.88	8.98	6.36	2,129,406.27	661,941.83	36.8507576	-107.2798493	
716.00	1.76	36.79	715.84	10.61	7.53	2,129,407.91	661,942.98	36.8507621	-107.2798453	
780.00	1.93	35.30	779.81	12.28	8.74	2,129,409.58	661,944.18	36.8507667	-107.2798412	
844.00	1.74	28.91	843.78	14.01	9.83	2,129,411.32	661,945.27	36.8507714	-107.2798374	
907.00	1.62	24.22	906.75	15.66	10.66	2,129,412.97	661,946.08	36.8507760	-107.2798346	
970.00	1.50	18.90	969.73	17.25	11.29	2,129,414.57	661,946.71	36.8507804	-107.2798325	
1,034.00	1.44	12.40	1,033.71	18.83	11.74	2,129,416.15	661,947.14	36.8507847	-107.2798309	
1,097.00	1.38	3.94	1,096.69	20.36	11.96	2,129,417.68	661,947.35	36.8507889	-107.2798302	
1,158.00	1.35	2.70	1,157.67	21.81	12.04	2,129,419.13	661,947.43	36.8507929	-107.2798299	
1,219.00	1.33	8.70	1,218.65	23.23	12.18	2,129,420.55	661,947.56	36.8507968	-107.2798294	
1,280.00	0.44	38.10	1,279.65	24.11	12.43	2,129,421.43	661,947.81	36.8507992	-107.2798285	
1,341.00	0.14	95.19	1,340.65	24.29	12.65	2,129,421.61	661,948.03	36.8507997	-107.2798278	
1,402.00	0.90	358.64	1,401.64	24.76	12.72	2,129,422.08	661,948.09	36.8508010	-107.2798276	
1,462.00	1.35	355.06	1,461.63	25.94	12.64	2,129,423.26	661,948.01	36.8508042	-107.2798278	
1,523.00	1.30	357.43	1,522.61	27.34	12.55	2,129,424.67	661,947.91	36.8508081	-107.2798281	
1,583.00	1.39	350.38	1,582.60	28.74	12.40	2,129,426.06	661,947.75	36.8508119	-107.2798287	
1,644.00	1.50	359.27	1,643.58	30.27	12.27	2,129,427.59	661,947.60	36.8508161	-107.2798291	
1,706.00	1.64	354.93	1,705.56	31.96	12.18	2,129,429.28	661,947.51	36.8508208	-107.2798294	
1,767.00	1.59	0.33	1,766.53	33.68	12.10	2,129,431.00	661,947.42	36.8508255	-107.2798297	
1,827.00	1.69	354.54	1,826.51	35.39	12.03	2,129,432.71	661,947.33	36.8508302	-107.2798299	
1,888.00	1.47	348.09	1,887.48	37.05	11.78	2,129,434.37	661,947.08	36.8508347	-107.2798308	
1,949.00	1.32	354.28	1,948.47	38.52	11.55	2,129,435.83	661,946.84	36.8508388	-107.2798316	
2,009.00	1.23	3.97	2,008.45	39.85	11.52	2,129,437.16	661,946.81	36.8508424	-107.2798317	
2,069.00	1.28	5.89	2,068.44	41.16	11.64	2,129,438.47	661,946.91	36.8508460	-107.2798313	
2,130.00	1.26	0.21	2,129.42	42.51	11.71	2,129,439.82	661,946.98	36.8508497	-107.2798310	
2,191.00	1.47	22.36	2,190.40	43.90	12.01	2,129,441.22	661,947.27	36.8508536	-107.2798300	
2,252.00	2.00	36.78	2,251.38	45.48	12.94	2,129,442.80	661,948.19	36.8508579	-107.2798268	
2,312.00	2.02	35.79	2,311.34	47.17	14.19	2,129,444.50	661,949.43	36.8508625	-107.2798226	
2,372.00	1.88	29.87	2,371.31	48.88	15.30	2,129,446.22	661,950.53	36.8508672	-107.2798188	
2,433.00	1.41	43.64	2,432.28	50.29	16.31	2,129,447.64	661,951.54	36.8508711	-107.2798153	
2,494.00	0.89	89.80	2,493.27	50.84	17.31	2,129,448.19	661,952.53	36.8508726	-107.2798119	
2,583.00	0.31	137.50	2,582.26	50.66	18.16	2,129,448.02	661,953.38	36.8508721	-107.2798090	
2,644.00	0.71	137.39	2,643.26	50.26	18.53	2,129,447.62	661,953.75	36.8508710	-107.2798077	
2,705.00	0.60	135.86	2,704.26	49.76	19.00	2,129,447.12	661,954.23	36.8508696	-107.2798061	
2,766.00	0.38	137.33	2,765.26	49.38	19.36	2,129,446.74	661,954.59	36.8508686	-107.2798049	
2,826.00	0.45	117.48	2,825.25	49.12	19.71	2,129,446.49	661,954.94	36.8508679	-107.2798037	
2,887.00	0.36	119.52	2,886.25	48.92	20.09	2,129,446.28	661,955.32	36.8508673	-107.2798024	
2,950.00	0.13	134.90	2,949.25	48.77	20.31	2,129,446.14	661,955.54	36.8508669	-107.2798016	
Last SDI Surface MWD Survey										
3,013.00	0.27	179.28	3,012.25	48.57	20.36	2,129,445.94	661,955.60	36.8508664	-107.2798015	
First SDI Curve MWD Survey										
3,077.00	0.94	78.34	3,076.25	48.53	20.88	2,129,445.90	661,956.11	36.8508663	-107.2797997	
3,139.00	6.03	80.29	3,138.11	49.18	24.59	2,129,446.57	661,959.82	36.8508681	-107.2797870	
3,203.00	10.94	86.35	3,201.39	50.13	33.97	2,129,447.58	661,969.19	36.8508707	-107.2797549	
3,266.00	17.18	91.10	3,262.48	50.34	49.25	2,129,447.87	661,984.48	36.8508712	-107.2797027	
3,330.00	21.50	89.54	3,322.85	50.25	70.44	2,129,447.91	662,005.66	36.8508710	-107.2796303	
3,393.00	26.10	88.01	3,380.48	50.82	95.85	2,129,448.63	662,031.07	36.8508726	-107.2795435	

Company:	WPX Energy	Local Co-ordinate Reference:	Well Schalk 32 4H - Slot A1
Project:	T31N R4W Rosa Unit	TVD Reference:	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)
Site:	Schalk 32 4H	MD Reference:	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)
Well:	Schalk 32 4H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
3,456.00	32.42	87.68	3,435.41	51.99	126.60	2,129,449.97	662,061.82	36.8508758	-107.2794383
3,520.00	39.56	87.25	3,487.17	53.66	164.15	2,129,451.86	662,099.35	36.8508804	-107.2793100
3,556.00	43.09	88.08	3,514.20	54.63	187.90	2,129,452.96	662,123.10	36.8508830	-107.2792289
3,619.00	47.39	89.58	3,558.55	55.52	232.61	2,129,454.11	662,167.80	36.8508855	-107.2790760
3,683.00	53.54	92.60	3,599.27	54.52	281.93	2,129,453.40	662,217.12	36.8508827	-107.2789075
3,746.00	57.31	91.79	3,635.02	52.54	333.75	2,129,451.73	662,268.96	36.8508773	-107.2787304
3,808.00	60.50	91.22	3,667.04	51.15	386.82	2,129,450.64	662,322.03	36.8508735	-107.2785490
3,871.00	68.11	91.80	3,694.33	49.65	443.53	2,129,449.47	662,378.75	36.8508693	-107.2783552
3,935.00	73.72	92.04	3,715.25	47.62	503.95	2,129,447.79	662,439.18	36.8508638	-107.2781487
3,999.00	80.79	90.79	3,729.36	46.09	566.31	2,129,446.62	662,501.55	36.8508596	-107.2779355
4,048.00	84.93	91.54	3,735.45	45.10	614.91	2,129,445.91	662,550.16	36.8508568	-107.2777695
36.8508569, -107.2777694 - 7" Casing @ 4048' MD									
4,075.00	87.21	91.95	3,737.30	44.28	641.83	2,129,445.25	662,577.08	36.8508546	-107.2776774
Last SDI Curve MWD Survey									
4,138.00	88.16	92.54	3,739.84	41.81	704.73	2,129,443.15	662,640.00	36.8508478	-107.2774625
First SDI Lateral MWD Survey									
4,201.00	89.34	92.93	3,741.22	38.81	767.65	2,129,440.51	662,702.92	36.8508395	-107.2772475
4,264.00	87.44	91.02	3,742.99	36.64	830.58	2,129,438.70	662,765.87	36.8508336	-107.2770324
4,327.00	87.78	90.44	3,745.62	35.84	893.52	2,129,438.26	662,828.81	36.8508314	-107.2768173
4,391.00	85.96	89.80	3,749.11	35.70	957.42	2,129,438.50	662,892.71	36.8508310	-107.2765989
4,452.00	87.44	90.87	3,752.62	35.35	1,018.31	2,129,438.50	662,953.61	36.8508300	-107.2763907
4,513.00	87.72	91.32	3,755.20	34.18	1,079.25	2,129,437.68	663,014.55	36.8508268	-107.2761825
4,574.00	89.43	91.47	3,756.71	32.70	1,140.21	2,129,436.55	663,075.52	36.8508227	-107.2759741
4,635.00	91.24	91.36	3,756.36	31.19	1,201.19	2,129,435.40	663,136.50	36.8508186	-107.2757657
4,696.00	92.07	90.82	3,754.60	30.03	1,262.15	2,129,434.59	663,197.47	36.8508154	-107.2755574
4,756.00	88.06	90.25	3,754.53	29.47	1,322.13	2,129,434.38	663,257.46	36.8508138	-107.2753524
4,817.00	88.64	88.89	3,756.28	29.93	1,383.11	2,129,435.19	663,318.42	36.8508151	-107.2751440
4,878.00	88.60	87.64	3,757.75	31.77	1,444.06	2,129,437.39	663,379.37	36.8508201	-107.2749357
4,939.00	90.22	87.13	3,758.38	34.56	1,504.99	2,129,440.53	663,440.28	36.8508278	-107.2747274
5,000.00	89.93	88.38	3,758.30	36.95	1,565.94	2,129,443.27	663,501.22	36.8508343	-107.2745191
5,061.00	90.30	88.55	3,758.18	38.58	1,626.92	2,129,445.26	663,562.18	36.8508388	-107.2743107
5,122.00	89.83	87.58	3,758.11	40.64	1,687.88	2,129,447.67	663,623.14	36.8508445	-107.2741023
5,182.00	90.50	87.29	3,757.94	43.32	1,747.82	2,129,450.70	663,683.06	36.8508518	-107.2738975
5,243.00	89.87	88.31	3,757.74	45.67	1,808.78	2,129,453.40	663,744.00	36.8508582	-107.2736892
5,303.00	89.90	89.46	3,757.86	46.83	1,868.76	2,129,454.91	663,803.98	36.8508614	-107.2734841
5,363.00	89.39	91.27	3,758.23	46.45	1,928.76	2,129,454.88	663,863.97	36.8508604	-107.2732791
5,424.00	88.89	91.28	3,759.15	45.09	1,989.74	2,129,453.87	663,924.96	36.8508566	-107.2730707
5,485.00	91.58	90.61	3,758.90	44.09	2,050.72	2,129,453.22	663,985.95	36.8508539	-107.2728623
5,546.00	89.70	90.62	3,758.22	43.43	2,111.71	2,129,452.92	664,046.94	36.8508521	-107.2726538
5,606.00	90.07	90.53	3,758.34	42.83	2,171.71	2,129,452.66	664,106.94	36.8508504	-107.2724488
5,667.00	90.67	90.21	3,757.94	42.44	2,232.71	2,129,452.62	664,167.94	36.8508493	-107.2722403
5,727.00	90.74	89.99	3,757.21	42.33	2,292.70	2,129,452.87	664,227.93	36.8508490	-107.2720353
5,788.00	88.18	89.98	3,757.78	42.35	2,353.69	2,129,453.24	664,288.92	36.8508490	-107.2718268
5,849.00	88.36	89.39	3,759.62	42.68	2,414.67	2,129,453.92	664,349.89	36.8508499	-107.2716184
5,910.00	86.32	87.75	3,762.45	44.20	2,475.58	2,129,455.80	664,410.79	36.8508541	-107.2714102
5,971.00	86.90	88.25	3,766.06	46.33	2,536.43	2,129,458.27	664,471.63	36.8508599	-107.2712023
6,031.00	87.14	90.65	3,769.18	46.90	2,596.34	2,129,459.20	664,531.54	36.8508615	-107.2709975
6,092.00	89.10	91.10	3,771.18	45.97	2,657.30	2,129,458.62	664,592.50	36.8508589	-107.2707892
6,153.00	89.02	91.36	3,772.18	44.66	2,718.28	2,129,457.66	664,653.49	36.8508553	-107.2705808
6,216.00	90.90	93.19	3,772.23	42.16	2,781.22	2,129,455.53	664,716.45	36.8508484	-107.2703656
6,279.00	91.04	92.76	3,771.16	38.89	2,844.13	2,129,452.62	664,779.37	36.8508394	-107.2701506
6,343.00	91.30	92.54	3,769.85	35.94	2,908.05	2,129,450.03	664,843.30	36.8508313	-107.2699322
6,406.00	90.74	91.06	3,768.73	33.96	2,971.00	2,129,448.42	664,906.27	36.8508258	-107.2697170
6,469.00	91.45	92.86	3,767.53	31.80	3,033.95	2,129,446.63	664,969.23	36.8508199	-107.2695019
6,532.00	93.11	90.73	3,765.02	29.83	3,096.86	2,129,445.02	665,032.16	36.8508144	-107.2692869

Company:	WPX Energy	Local Co-ordinate Reference:	Well Schalk 32 4H - Slot A1
Project:	T31N R4W Rosa Unit	TVD Reference:	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)
Site:	Schalk 32 4H	MD Reference:	GL 6938' & RKB 14' @ 6952.00usft (Aztec 920)
Well:	Schalk 32 4H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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
6,595.00	89.36	88.21	3,763.66	30.41	3,159.83	2,129,445.97	665,095.12	36.8508160	-107.2690717
6,659.00	88.72	87.39	3,764.73	32.87	3,223.77	2,129,448.80	665,159.04	36.8508228	-107.2688531
6,722.00	88.82	86.55	3,766.09	36.20	3,286.67	2,129,452.49	665,221.92	36.8508319	-107.2686382
6,785.00	88.25	85.56	3,767.70	40.53	3,349.50	2,129,457.19	665,284.72	36.8508438	-107.2684234
6,849.00	87.42	83.64	3,770.12	46.55	3,413.17	2,129,463.58	665,348.36	36.8508603	-107.2682058
6,913.00	89.57	87.58	3,771.80	51.45	3,476.94	2,129,468.84	665,412.10	36.8508737	-107.2679879
6,976.00	88.72	90.09	3,772.74	52.73	3,539.92	2,129,470.49	665,475.07	36.8508772	-107.2677726
7,040.00	89.26	89.87	3,773.86	52.75	3,603.91	2,129,470.88	665,539.05	36.8508772	-107.2675539
7,104.00	87.88	90.40	3,775.46	52.60	3,667.88	2,129,471.10	665,603.03	36.8508768	-107.2673353
7,173.00	87.88	92.00	3,778.01	51.15	3,736.82	2,129,470.05	665,671.97	36.8508728	-107.2670997
7,202.00	87.88	92.00	3,779.09	50.14	3,765.78	2,129,469.21	665,700.94	36.8508700	-107.2670007

Last SDI Lateral MWD Survey

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									
POE Schalk 32 4H (50' f	0.00	0.00	3,736.00	54.74	637.27	2,129,455.68	662,572.45	36.8508833	-107.2776930
- actual wellpath misses target center by 10.35usft at 4070.04usft MD (3737.04 TVD, 44.44 N, 636.88 E)									
- Point									
BHL Schalk 32 4H	0.00	0.00	3,736.00	35.60	3,982.49	2,129,455.92	665,917.73	36.8508300	-107.2662600
- actual wellpath misses target center by 221.43usft at 7202.00usft MD (3779.09 TVD, 50.14 N, 3765.78 E)									
- Point									
Schalk 32 4H POE	0.00	0.00	3,739.00	4.74	636.98	2,129,405.68	662,572.45	36.8507460	-107.2776940
- actual wellpath misses target center by 39.73usft at 4071.47usft MD (3737.12 TVD, 44.40 N, 638.32 E)									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,202.00	3,779.09	50.14	3,765.78	Last SDI Lateral MWD Survey

Checked By: _____ Approved By: _____ Date: _____