

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 30-045-35725	*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT	*Well Number 701H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6930'

¹⁰ Surface Location

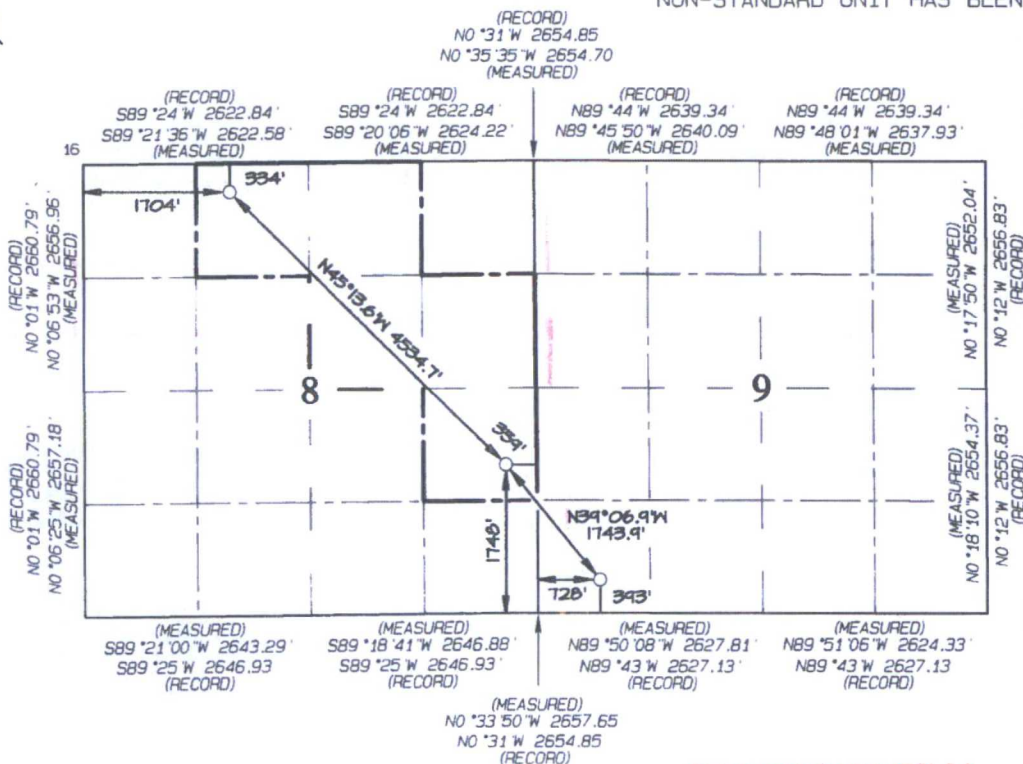
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	9	23N	8W		393	SOUTH	728	WEST	SAN JUAN

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
C	8	23N	8W		334	NORTH	1704	WEST	SAN JUAN

*Dedicated Acres 200.0	NE/4 NW/4, W/2 NE/4 SE/4 NE/4, NE/4 SE/4 Section 8	*Joint or Infill	*Consolidation Code	*Order No. R-14051 - 12,807.24 Acres
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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



END-OF-LATERAL
334' FSL 1704' FWL
SECTION 8, T23N, R8W
LAT: 36.248011°N
LONG: 107.707172°W
DATUM: NAD1927
LAT: 36.248024°N
LONG: 107.707784°W
DATUM: NAD1983

RSI TOOL
388' FSL 1755' FWL
SECTION 8, T23N, R8W
LAT: 36.247864°N
LONG: 107.706999°W
DATUM: NAD1927
LAT: 36.247877°N
LONG: 107.707611°W
DATUM: NAD1983

POINT-OF-ENTRY
1748' FSL 359' FSL
SECTION 8, T23N, R8W
LAT: 36.239225°N
LONG: 107.696270°W
DATUM: NAD1927
LAT: 36.239238°N
LONG: 107.696882°W
DATUM: NAD1983

SURFACE LOCATION
393' FSL 728' FWL
SECTION 9, T23N, R8W
LAT: 36.235504°N
LONG: 107.692546°W
DATUM: NAD1927
LAT: 36.235517°N
LONG: 107.693157°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 entered by the division.

Signature: [Signature] Date: 3/27/17

Lacey Granillo
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: MARCH 23, 2017
Date of Survey: AUGUST 25, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

WPX Energy

T23N R8W

W Lybrook 2308-09M

W Lybrook 2308-09M #701H - Slot A1

Wellbore #1

Design: Actual

Survey Report - Geographic

21 March, 2017

CONFIDENTIAL

CONFIDENTIAL



Scientific Drilling

www.scientificdrilling.com



KB @ 6951.00usft (Cyclone 32)
 GL @ 6930.00



WELL DETAILS W Lybrook 2308-09M #701H

		Ground Level: 6930.00		
+N/-S	+E/-W	Northing	Latitude	Longitude
0.00	0.00	1904995.32	541519.96	36.2355040
				-107.6925460

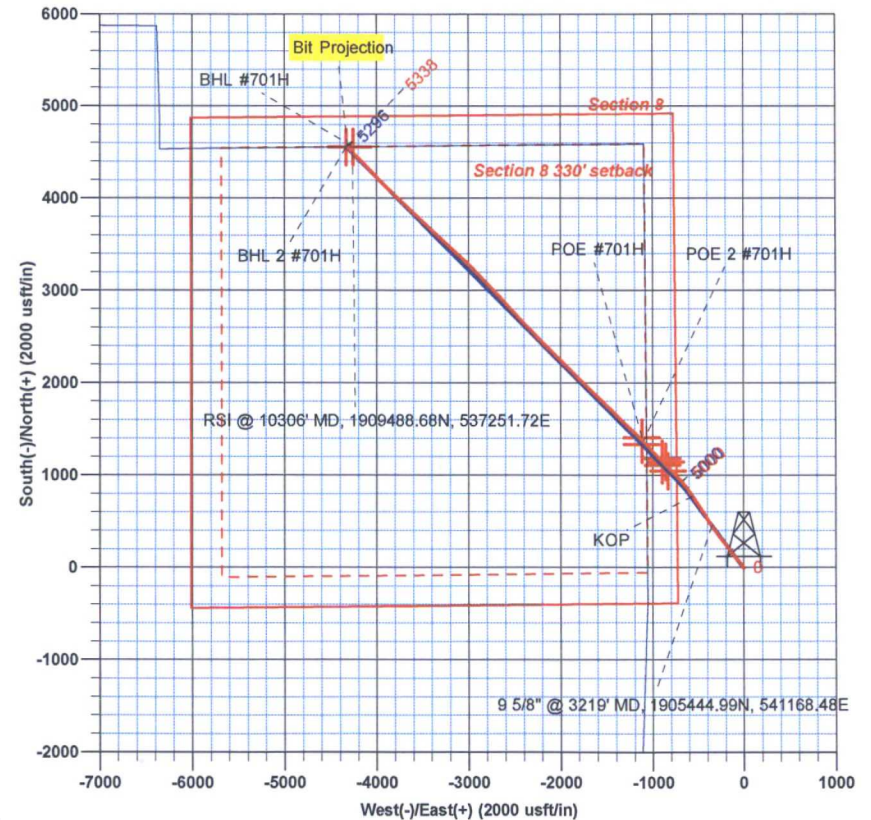
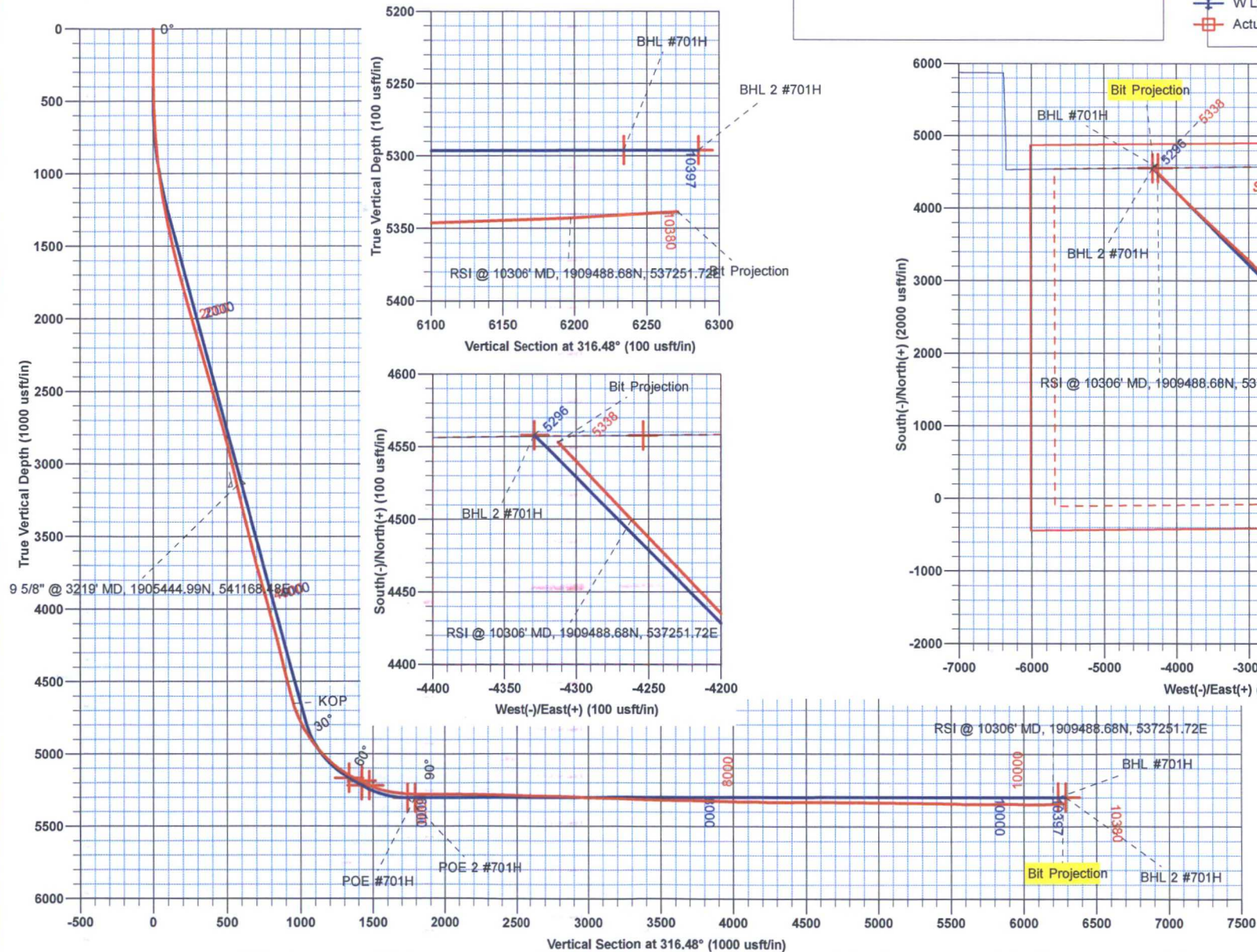
ANNOTATIONS

TVD MD Annotation
 3150.94 3219.05/8" @ 3219' MD, 1905444.99N, 541168.48E
 4652.37 4770.00 KOP
 5342.76 10306.08SI @ 10306' MD, 1909488.68N, 537251.72E
 5338.45 10380.00 Bit Projection

To convert Magnetic North to Grid, Add 8.93°
 To convert True North to Grid, Subtract 0.08°

LEGEND

W Lybrook 2308-09M #701H, Wellbore #1, Design #3 13Fe
 Actual



Bailey Fellows
 7:40, March 21 2017

Scientific Drilling
 325 S. Faudree Rd.
 Odessa, TX 79765

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 2308-09M #701H - Slot A1
Project:	T23N R8W	TVD Reference:	KB @ 6951.00usft (Cyclone 32)
Site:	W Lybrook 2308-09M	MD Reference:	KB @ 6951.00usft (Cyclone 32)
Well:	W Lybrook 2308-09M #701H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Project	T23N R8W		
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		W Lybrook 2308-09M			
Site Position:		Northing:	1,904,995.32 usft	Latitude:	36.2355040
From:	Map	Easting:	541,519.96 usft	Longitude:	-107.6925460
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.08 °

Well	W Lybrook 2308-09M #701H - Slot A1					
Well Position	+N/-S	0.00 usft	Northing:	1,904,995.32 usft	Latitude:	36.2355040
	+E/-W	0.00 usft	Easting:	541,519.96 usft	Longitude:	-107.6925460
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,930.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/20/2017	9.02	62.90	49,700

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	316.48	

Survey Program	Date	3/21/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
51.00	208.00	Surface Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
342.00	3,172.00	SDI MWD Intermediate (Wellbore #1)	SDI MWD	SDI MWD - Standard ver 1.0.1	
3,291.00	6,639.00	SDI MWD Intermediate 2 / Curve (Wellbor	SDI MWD	SDI MWD - Standard ver 1.0.1	
6,733.00	10,380.00	SDI MWD Lateral (Wellbore #1)	SDI MWD	SDI MWD - Standard ver 1.0.1	

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	1,904,995.32	541,519.96	36.2355040	-107.6925460
51.00	0.45	278.17	51.00	0.03	-0.20	1,904,995.35	541,519.76	36.2355041	-107.6925467
81.00	0.28	290.75	81.00	0.07	-0.38	1,904,995.39	541,519.58	36.2355042	-107.6925473
111.00	0.41	315.21	111.00	0.17	-0.53	1,904,995.50	541,519.43	36.2355045	-107.6925478
141.00	0.37	280.35	141.00	0.27	-0.70	1,904,995.59	541,519.26	36.2355047	-107.6925484
171.00	0.29	252.98	171.00	0.26	-0.87	1,904,995.58	541,519.10	36.2355047	-107.6925490
201.00	0.44	240.05	201.00	0.18	-1.04	1,904,995.50	541,518.92	36.2355045	-107.6925495
208.00	0.47	235.26	208.00	0.15	-1.09	1,904,995.47	541,518.88	36.2355044	-107.6925497
342.00	0.74	216.41	341.99	-0.86	-2.05	1,904,994.46	541,517.91	36.2355016	-107.6925530

Scientific Drilling Int.

Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 2308-09M #701H - Slot A1
Project:	T23N R8W	TVD Reference:	KB @ 6951.00usft (Cyclone 32)
Site:	W Lybrook 2308-09M	MD Reference:	KB @ 6951.00usft (Cyclone 32)
Well:	W Lybrook 2308-09M #701H	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
434.00	1.31	305.69	433.98	-0.72	-3.26	1,904,994.60	541,516.71	36.2355020	-107.6925571
526.00	1.63	311.26	525.95	0.75	-5.10	1,904,996.07	541,514.87	36.2355060	-107.6925633
618.00	2.53	326.69	617.89	3.31	-7.19	1,904,998.63	541,512.76	36.2355131	-107.6925704
711.00	3.48	331.20	710.76	7.50	-9.68	1,905,002.81	541,510.27	36.2355246	-107.6925789
803.00	4.85	328.97	802.51	13.28	-13.03	1,905,008.59	541,506.91	36.2355405	-107.6925902
895.00	5.98	329.86	894.10	20.76	-17.44	1,905,016.06	541,502.49	36.2355610	-107.6926052
987.00	7.29	322.50	985.48	29.54	-23.40	1,905,024.83	541,496.52	36.2355851	-107.6926254
1,080.00	8.61	320.90	1,077.59	39.62	-31.39	1,905,034.90	541,488.52	36.2356128	-107.6926524
1,172.00	9.50	319.60	1,168.44	50.75	-40.65	1,905,046.01	541,479.24	36.2356434	-107.6926839
1,264.00	10.58	320.62	1,259.03	63.06	-50.93	1,905,058.31	541,468.94	36.2356772	-107.6927187
1,358.00	11.82	317.85	1,351.24	76.87	-62.87	1,905,072.10	541,456.99	36.2357151	-107.6927592
1,452.00	12.36	318.83	1,443.15	91.58	-75.95	1,905,086.79	541,443.88	36.2357555	-107.6928036
1,546.00	12.74	319.75	1,534.91	107.06	-89.27	1,905,102.25	541,430.54	36.2357981	-107.6928487
1,640.00	13.84	323.39	1,626.39	124.00	-102.67	1,905,119.17	541,417.11	36.2358446	-107.6928942
1,734.00	15.07	322.17	1,717.41	142.67	-116.87	1,905,137.83	541,402.88	36.2358959	-107.6929423
1,828.00	15.24	322.67	1,808.15	162.15	-131.86	1,905,157.28	541,387.87	36.2359494	-107.6929931
1,922.00	15.77	323.08	1,898.72	182.19	-147.02	1,905,177.29	541,372.67	36.2360045	-107.6930446
2,017.00	14.81	320.86	1,990.36	201.92	-162.44	1,905,197.01	541,357.23	36.2360587	-107.6930968
2,111.00	16.21	321.91	2,080.94	221.57	-178.12	1,905,216.63	541,341.52	36.2361127	-107.6931500
2,205.00	15.88	322.54	2,171.27	242.10	-194.04	1,905,237.15	541,325.57	36.2361691	-107.6932040
2,298.00	15.26	319.66	2,260.86	261.53	-209.70	1,905,256.55	541,309.88	36.2362224	-107.6932571
2,392.00	15.59	319.76	2,351.48	280.60	-225.87	1,905,275.60	541,293.69	36.2362748	-107.6933119
2,487.00	15.75	322.78	2,442.95	300.62	-241.91	1,905,295.59	541,277.61	36.2363298	-107.6933663
2,581.00	16.53	323.49	2,533.24	321.52	-257.58	1,905,316.47	541,261.91	36.2363872	-107.6934195
2,675.00	16.52	324.43	2,623.36	343.14	-273.31	1,905,338.07	541,246.15	36.2364466	-107.6934728
2,769.00	15.23	323.92	2,713.77	363.99	-288.36	1,905,358.90	541,231.07	36.2365039	-107.6935238
2,863.00	15.04	324.49	2,804.51	383.90	-302.72	1,905,378.78	541,216.69	36.2365586	-107.6935725
2,957.00	13.51	324.82	2,895.61	402.80	-316.13	1,905,397.67	541,203.25	36.2366105	-107.6936180
3,051.00	12.83	323.82	2,987.13	420.20	-328.61	1,905,415.05	541,190.74	36.2366583	-107.6936603
3,145.00	12.97	322.83	3,078.76	437.03	-341.15	1,905,431.86	541,178.18	36.2367046	-107.6937028
3,172.00	12.84	323.66	3,105.08	441.86	-344.76	1,905,436.68	541,174.56	36.2367178	-107.6937151
3,219.00	12.47	324.09	3,150.94	450.18	-350.83	1,905,444.99	541,168.48	36.2367407	-107.6937356
9 5/8" @ 3219' MD, 1905444.99N, 541168.48E - 9 5/8"									
3,291.00	11.90	324.79	3,221.32	462.54	-359.67	1,905,457.34	541,159.62	36.2367746	-107.6937656
3,385.00	14.44	325.61	3,312.84	480.13	-371.88	1,905,474.91	541,147.39	36.2368230	-107.6938070
3,479.00	14.22	326.24	3,403.91	499.40	-384.91	1,905,494.16	541,134.33	36.2368759	-107.6938512
3,573.00	14.60	330.10	3,494.96	519.27	-397.23	1,905,514.02	541,121.97	36.2369305	-107.6938930
3,667.00	14.01	328.42	3,586.04	539.24	-409.10	1,905,533.96	541,110.08	36.2369853	-107.6939332
3,761.00	14.41	330.32	3,677.17	559.09	-420.85	1,905,553.80	541,098.30	36.2370399	-107.6939731
3,855.00	16.62	327.99	3,767.74	580.65	-433.77	1,905,575.35	541,085.35	36.2370991	-107.6940169
3,949.00	15.55	325.95	3,858.05	602.49	-447.95	1,905,597.17	541,071.14	36.2371591	-107.6940650
4,043.00	15.45	326.64	3,948.64	623.39	-461.89	1,905,618.04	541,057.17	36.2372165	-107.6941122
4,137.00	15.50	324.68	4,039.23	644.10	-476.04	1,905,638.73	541,042.99	36.2372734	-107.6941602
4,231.00	14.82	323.68	4,129.96	664.03	-490.42	1,905,658.64	541,028.58	36.2373282	-107.6942090
4,325.00	13.86	326.81	4,221.03	683.14	-503.70	1,905,677.73	541,015.27	36.2373807	-107.6942540
4,419.00	14.27	325.52	4,312.21	702.11	-516.42	1,905,696.68	541,002.52	36.2374328	-107.6942972
4,522.00	13.19	323.31	4,412.27	722.00	-530.63	1,905,716.55	540,988.28	36.2374874	-107.6943454
4,616.00	13.91	328.54	4,503.65	740.24	-542.94	1,905,734.77	540,975.95	36.2375375	-107.6943871
4,710.00	15.41	328.15	4,594.59	760.49	-555.43	1,905,755.00	540,963.43	36.2375931	-107.6944294
4,741.00	15.35	326.29	4,624.48	767.40	-559.88	1,905,761.91	540,958.97	36.2376121	-107.6944445
4,770.00	16.45	325.88	4,652.37	773.99	-564.31	1,905,768.49	540,954.53	36.2376302	-107.6944596
KOP									
4,772.00	16.53	325.85	4,654.29	774.46	-564.63	1,905,768.96	540,954.21	36.2376315	-107.6944606
4,804.00	18.75	324.70	4,684.78	782.43	-570.16	1,905,776.92	540,948.67	36.2376534	-107.6944794
4,836.00	21.41	323.82	4,714.83	791.34	-576.58	1,905,785.83	540,942.24	36.2376779	-107.6945012

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 2308-09M #701H - Slot A1
Project:	T23N R8W	TVD Reference:	KB @ 6951.00usft (Cyclone 32)
Site:	W Lybrook 2308-09M	MD Reference:	KB @ 6951.00usft (Cyclone 32)
Well:	W Lybrook 2308-09M #701H	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
4,872.00	24.13	323.78	4,748.03	802.58	-584.81	1,905,797.06	540,933.99	36.2377088	-107.6945291
4,904.00	25.23	323.90	4,777.10	813.37	-592.69	1,905,807.83	540,926.09	36.2377384	-107.6945558
4,935.00	27.00	323.66	4,804.94	824.38	-600.75	1,905,818.83	540,918.01	36.2377686	-107.6945831
4,966.00	28.85	324.90	4,832.33	836.17	-609.22	1,905,830.60	540,909.52	36.2378010	-107.6946119
4,998.00	31.48	325.15	4,859.99	849.34	-618.44	1,905,843.77	540,900.29	36.2378372	-107.6946431
5,029.00	34.11	323.72	4,886.05	862.99	-628.21	1,905,857.40	540,890.50	36.2378747	-107.6946762
5,060.00	35.95	320.78	4,911.43	877.05	-639.11	1,905,871.45	540,879.58	36.2379134	-107.6947132
5,092.00	38.16	319.26	4,936.97	891.82	-651.50	1,905,886.20	540,867.17	36.2379539	-107.6947552
5,123.00	39.39	318.38	4,961.14	906.43	-664.29	1,905,900.79	540,854.36	36.2379941	-107.6947986
5,155.00	40.11	318.84	4,985.74	921.78	-677.81	1,905,916.12	540,840.81	36.2380362	-107.6948445
5,186.00	43.09	318.91	5,008.92	937.29	-691.35	1,905,931.60	540,827.25	36.2380788	-107.6948903
5,217.00	45.81	318.12	5,031.05	953.55	-705.73	1,905,947.84	540,812.85	36.2381235	-107.6949391
5,249.00	46.80	317.75	5,053.15	970.72	-721.23	1,905,965.00	540,797.32	36.2381707	-107.6949917
5,280.00	50.12	317.06	5,073.71	987.80	-736.94	1,905,982.05	540,781.59	36.2382176	-107.6950449
5,311.00	51.97	316.45	5,093.20	1,005.36	-753.45	1,905,999.58	540,765.05	36.2382658	-107.6951009
5,343.00	54.34	316.27	5,112.38	1,023.89	-771.12	1,906,018.09	540,747.35	36.2383167	-107.6951609
5,375.00	58.12	316.45	5,130.17	1,043.13	-789.48	1,906,037.31	540,728.97	36.2383696	-107.6952231
5,406.00	60.48	316.30	5,145.99	1,062.43	-807.87	1,906,056.58	540,710.55	36.2384226	-107.6952855
5,420.93	60.82	316.15	5,153.31	1,071.83	-816.87	1,906,065.96	540,701.53	36.2384484	-107.6953160
Start 60 Tan 2 #701H									
5,438.00	61.21	315.98	5,161.58	1,082.58	-827.23	1,906,076.70	540,691.16	36.2384779	-107.6953511
5,468.00	61.74	315.62	5,175.91	1,101.47	-845.61	1,906,095.57	540,672.76	36.2385299	-107.6954134
5,499.00	63.05	315.31	5,190.27	1,121.05	-864.87	1,906,115.12	540,653.46	36.2385836	-107.6954788
5,520.23	64.49	315.14	5,199.65	1,134.57	-878.28	1,906,128.62	540,640.03	36.2386208	-107.6955243
End 60 Tan 2 #701H									
5,530.00	65.16	315.06	5,203.81	1,140.84	-884.53	1,906,134.87	540,633.78	36.2386380	-107.6955454
5,561.00	67.66	314.81	5,216.22	1,160.90	-904.64	1,906,154.91	540,613.64	36.2386931	-107.6956136
5,592.00	69.78	314.30	5,227.47	1,181.16	-925.22	1,906,175.14	540,593.02	36.2387488	-107.6956834
5,623.00	72.03	314.09	5,237.61	1,201.58	-946.22	1,906,195.53	540,571.99	36.2388049	-107.6957546
5,653.00	74.22	314.60	5,246.31	1,221.65	-966.75	1,906,215.57	540,551.44	36.2388600	-107.6958243
5,684.00	76.41	314.34	5,254.17	1,242.66	-988.15	1,906,236.54	540,530.01	36.2389177	-107.6958968
5,715.00	78.63	314.90	5,260.87	1,263.91	-1,009.69	1,906,257.77	540,508.43	36.2389761	-107.6959699
5,745.00	80.55	315.22	5,266.29	1,284.80	-1,030.53	1,906,278.62	540,487.56	36.2390335	-107.6960406
5,776.00	83.01	315.75	5,270.72	1,306.68	-1,052.04	1,906,300.47	540,466.02	36.2390936	-107.6961135
5,807.00	84.68	316.10	5,274.05	1,328.82	-1,073.48	1,906,322.58	540,444.55	36.2391544	-107.6961862
5,838.00	86.88	316.45	5,276.33	1,351.16	-1,094.85	1,906,344.89	540,423.15	36.2392158	-107.6962586
5,842.78	87.10	316.41	5,276.58	1,354.62	-1,098.14	1,906,348.35	540,419.85	36.2392253	-107.6962698
POE 2 #701H									
5,899.00	89.63	315.93	5,278.19	1,395.15	-1,137.05	1,906,388.82	540,380.88	36.2393366	-107.6964018
5,991.00	90.40	314.96	5,278.16	1,460.71	-1,201.60	1,906,454.29	540,316.24	36.2395167	-107.6966207
6,083.00	90.27	314.39	5,277.62	1,525.39	-1,267.02	1,906,518.87	540,250.73	36.2396944	-107.6968425
6,176.00	89.43	314.03	5,277.87	1,590.24	-1,333.68	1,906,583.62	540,183.97	36.2398725	-107.6970686
6,268.00	87.82	314.38	5,280.08	1,654.36	-1,399.61	1,906,647.65	540,117.95	36.2400487	-107.6972921
6,361.00	88.69	313.79	5,282.91	1,719.03	-1,466.38	1,906,712.23	540,051.09	36.2402263	-107.6975186
6,453.00	88.82	314.39	5,284.91	1,783.03	-1,532.44	1,906,776.13	539,984.93	36.2404021	-107.6977426
6,545.00	87.93	313.99	5,287.51	1,847.13	-1,598.38	1,906,840.13	539,918.90	36.2405782	-107.6979662
6,639.00	88.56	313.96	5,290.39	1,912.37	-1,666.00	1,906,905.27	539,851.19	36.2407574	-107.6981955
6,733.00	88.42	314.45	5,292.87	1,977.89	-1,733.36	1,906,970.69	539,783.73	36.2409374	-107.6984240
6,827.00	89.80	313.38	5,294.33	2,043.07	-1,801.06	1,907,035.78	539,715.94	36.2411164	-107.6986536
6,921.00	88.32	314.40	5,295.87	2,108.23	-1,868.79	1,907,100.84	539,648.11	36.2412954	-107.6988833
7,015.00	87.32	315.89	5,299.45	2,174.81	-1,935.04	1,907,167.32	539,581.76	36.2414783	-107.6991079
7,109.00	89.06	314.83	5,302.42	2,241.66	-2,001.05	1,907,234.08	539,515.65	36.2416620	-107.6993318
7,203.00	87.92	314.66	5,304.89	2,307.81	-2,067.79	1,907,300.13	539,448.82	36.2418437	-107.6995581
7,297.00	87.48	315.51	5,308.67	2,374.32	-2,134.11	1,907,366.54	539,382.41	36.2420264	-107.6997830
7,391.00	89.29	314.92	5,311.32	2,441.01	-2,200.30	1,907,433.13	539,316.12	36.2422096	-107.7000075

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 2308-09M #701H - Slot A1
Project:	T23N R8W	TVD Reference:	KB @ 6951.00usft (Cyclone 32)
Site:	W Lybrook 2308-09M	MD Reference:	KB @ 6951.00usft (Cyclone 32)
Well:	W Lybrook 2308-09M #701H	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
7,485.00	86.97	316.40	5,314.38	2,508.20	-2,265.96	1,907,500.22	539,250.37	36.2423941	-107.7002302
7,579.00	89.06	315.85	5,317.64	2,575.91	-2,331.06	1,907,567.84	539,185.16	36.2425801	-107.7004510
7,674.00	88.56	316.31	5,319.61	2,644.32	-2,396.95	1,907,636.16	539,119.18	36.2427681	-107.7006744
7,767.00	89.87	315.84	5,320.89	2,711.30	-2,461.45	1,907,703.04	539,054.57	36.2429520	-107.7008932
7,861.00	88.76	317.60	5,322.01	2,779.72	-2,525.89	1,907,771.37	538,990.04	36.2431400	-107.7011117
7,955.00	88.69	317.46	5,324.10	2,849.04	-2,589.34	1,907,840.60	538,926.48	36.2433304	-107.7013269
8,049.00	86.90	316.79	5,327.72	2,917.88	-2,653.25	1,907,909.34	538,862.48	36.2435195	-107.7015437
8,143.00	88.28	316.99	5,331.67	2,986.44	-2,717.43	1,907,977.81	538,798.20	36.2437078	-107.7017613
8,237.00	90.30	316.55	5,332.84	3,054.92	-2,781.80	1,908,046.20	538,733.72	36.2438959	-107.7019797
8,331.00	88.69	316.91	5,333.66	3,123.36	-2,846.23	1,908,114.54	538,669.20	36.2440839	-107.7021982
8,425.00	90.91	316.65	5,333.99	3,191.85	-2,910.60	1,908,182.95	538,604.73	36.2442721	-107.7024165
8,519.00	90.00	313.93	5,333.25	3,258.65	-2,976.72	1,908,249.64	538,538.51	36.2444555	-107.7026407
8,613.00	90.40	314.75	5,332.92	3,324.35	-3,043.95	1,908,315.24	538,471.19	36.2446360	-107.7028687
8,707.00	88.59	313.08	5,333.75	3,389.54	-3,111.65	1,908,380.34	538,403.39	36.2448151	-107.7030984
8,801.00	90.13	312.76	5,334.80	3,453.54	-3,180.49	1,908,444.24	538,334.46	36.2449909	-107.7033318
8,894.00	89.19	313.55	5,335.35	3,517.15	-3,248.33	1,908,507.75	538,266.53	36.2451656	-107.7035619
8,988.00	90.40	312.96	5,335.68	3,581.56	-3,316.79	1,908,572.06	538,197.98	36.2453425	-107.7037941
9,082.00	89.33	313.04	5,335.91	3,645.67	-3,385.53	1,908,636.07	538,129.14	36.2455186	-107.7040273
9,175.00	90.37	312.06	5,336.15	3,708.55	-3,454.04	1,908,698.86	538,060.54	36.2456913	-107.7042596
9,269.00	88.86	312.96	5,336.78	3,772.07	-3,523.33	1,908,762.27	537,991.16	36.2458658	-107.7044946
9,363.00	89.97	313.07	5,337.74	3,836.19	-3,592.06	1,908,826.29	537,922.34	36.2460419	-107.7047277
9,456.00	88.76	312.38	5,338.77	3,899.28	-3,660.37	1,908,889.28	537,853.93	36.2462152	-107.7049594
9,550.00	89.00	314.04	5,340.61	3,963.63	-3,728.87	1,908,953.53	537,785.34	36.2463920	-107.7051917
9,644.00	88.45	313.59	5,342.70	4,028.69	-3,796.68	1,909,018.49	537,717.44	36.2465707	-107.7054217
9,738.00	90.74	313.65	5,343.36	4,093.53	-3,864.72	1,909,083.24	537,649.30	36.2467488	-107.7056525
9,832.00	88.99	315.55	5,343.59	4,159.53	-3,931.65	1,909,149.14	537,582.28	36.2469301	-107.7058795
9,925.00	91.31	315.27	5,343.34	4,225.75	-3,996.93	1,909,215.27	537,516.90	36.2471120	-107.7061009
10,019.00	89.13	315.92	5,342.98	4,292.90	-4,062.70	1,909,282.32	537,451.03	36.2472964	-107.7063240
10,113.00	88.15	315.87	5,345.21	4,360.38	-4,128.10	1,909,349.70	537,385.53	36.2474818	-107.7065459
10,207.00	90.71	316.31	5,346.15	4,428.09	-4,193.28	1,909,417.32	537,320.25	36.2476678	-107.7067669
10,301.00	93.09	316.18	5,343.03	4,495.95	-4,258.25	1,909,485.08	537,255.18	36.2478541	-107.7069873
10,306.00	93.16	316.25	5,342.76	4,499.55	-4,261.71	1,909,488.68	537,251.72	36.2478640	-107.7069990
RSI @ 10306' MD, 1909488.68N, 537251.72E									
10,320.00	93.36	316.45	5,341.96	4,509.67	-4,271.35	1,909,498.78	537,242.06	36.2478918	-107.7070317
10,380.00	93.36	316.45	5,338.45	4,553.08	-4,312.62	1,909,542.13	537,200.73	36.2480111	-107.7071717
Bit Projection - BHL 2 #701H									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,219.00	3,150.94	9 5/8"	9.62	12.25

Scientific Drilling Int.

Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook 2308-09M #701H - Slot A1
Project:	T23N R8W	TVD Reference:	KB @ 6951.00usft (Cyclone 32)
Site:	W Lybrook 2308-09M	MD Reference:	KB @ 6951.00usft (Cyclone 32)
Well:	W Lybrook 2308-09M #701H	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)	
3,219.00	3,150.94	450.18	-350.83	9 5/8" @ 3219' MD, 1905444.99N, 541168.48E
4,770.00	4,652.37	773.99	-564.31	KOP
10,306.00	5,342.76	4,499.55	-4,261.71	RSI @ 10306' MD, 1909488.68N, 537251.72E
10,380.00	5,338.45	4,553.08	-4,312.62	Bit Projection

Checked By: _____ Approved By: _____ Date: _____