

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

CONFIDENTIAL

*API Number 30-045-35808		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 713H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6823'

¹⁰ Surface Location

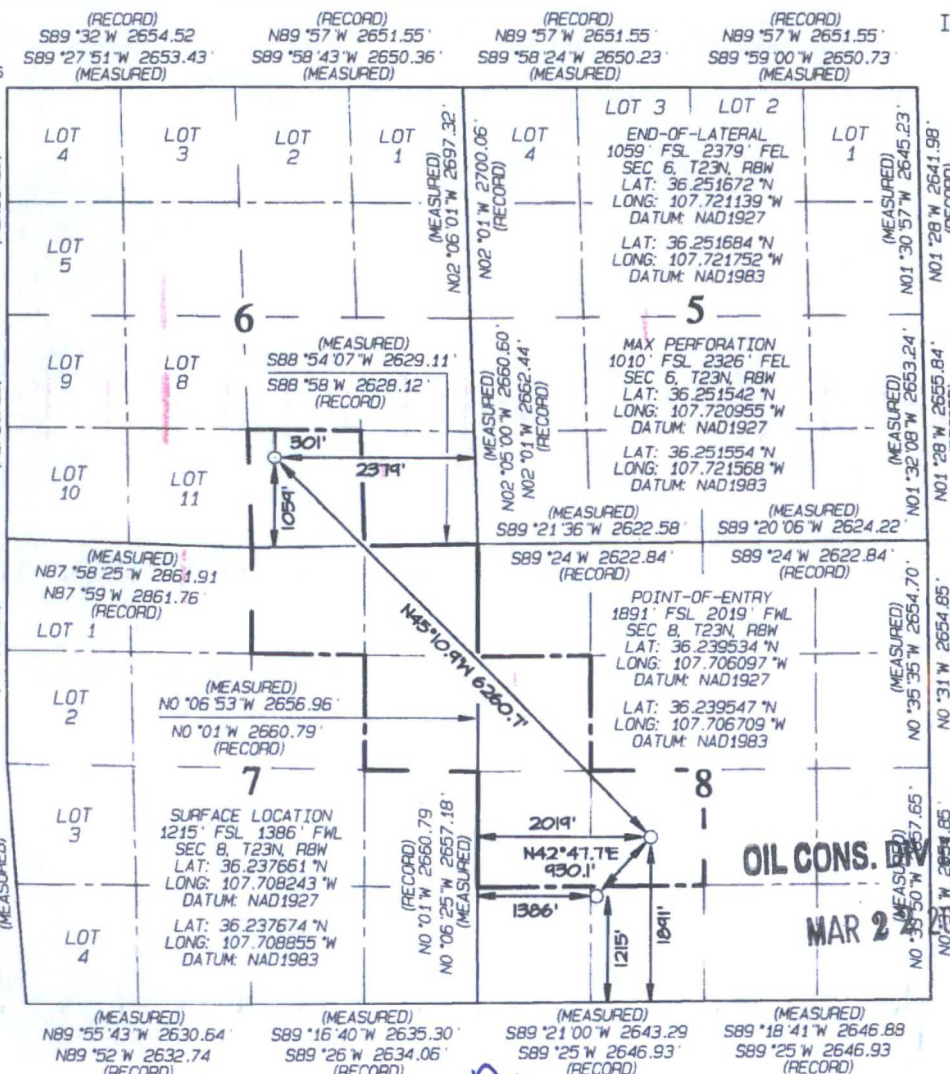
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	8	23N	8W		1215	SOUTH	1386	WEST	SAN JUAN

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
0	6	23N	8W		1059	SOUTH	2379	EAST	SAN JUAN

¹² Dedicated Acres 280.00 SW/4 SE/4 - Section 6 N/2 NE/4, SE/4 NE/4 - Section 7 SW/4 NW/4, N/2 SW/4 - Section 8		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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



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: 3/22/17
Printed Name: Lacey Granillo
E-mail Address: lacey.granillo@wpxenergy.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: MARCH 22, 2017
Survey Date: OCTOBER 24, 2016
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Amended

WPX Energy

T23N R8W

2308-08N WLU

W Lybrook UT #713H - Slot 713H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

21 February, 2017

CONFIDENTIAL



www.scientificdrilling.com

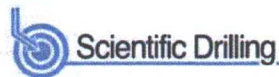


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W Lybrook UT #713H
T23N R8W
Northing: 1905774.15
Easting: 536889.70
Wellbore #1



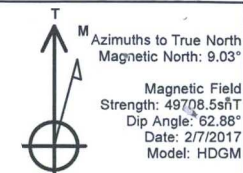
GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
GL @ 6823.00



WELL DETAILS						
Ground Level: 6823.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1905774.15	536889.70	36.2376610	-107.7082430	

ANNOTATIONS

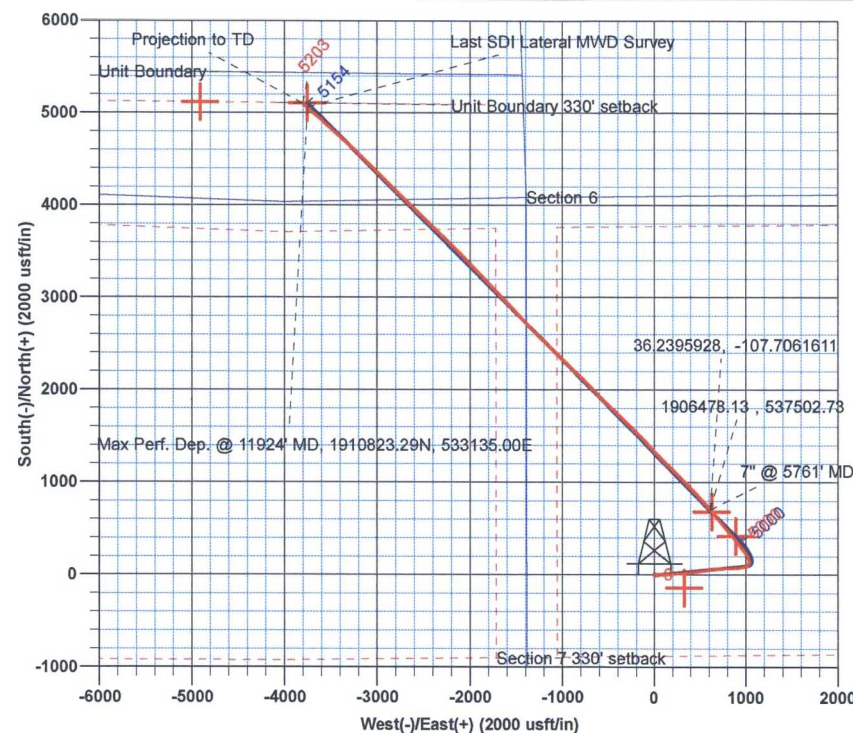
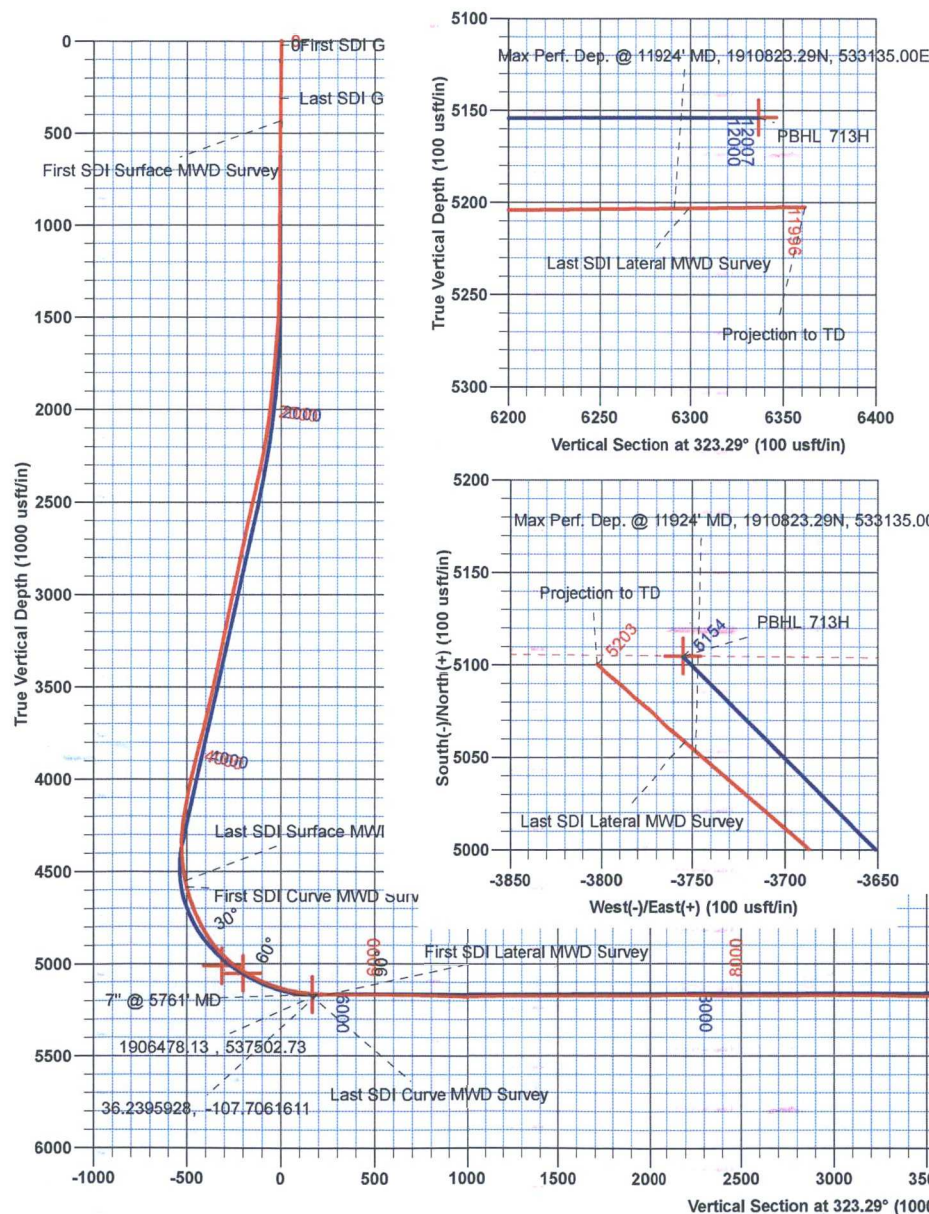
TVD	MD	Annotation
21.00	21.00	First SDI Gyro Survey
310.84	310.86	Last SDI Gyro Survey
433.95	434.00	First SDI Surface MWD Survey
4550.10	4740.00	Last SDI Surface MWD Survey
4581.08	4772.00	First SDI Curve MWD Survey
5164.01	5712.00	Last SDI Curve MWD Survey
5167.28	5761.00	36.2395928, -107.7061611
5167.28	5761.00	1906478.13, 537502.73
5167.28	5761.00	7" @ 5761' MD
5169.02	5813.00	First SDI Lateral MWD Survey
5203.34	11924.00	Max Perf. Dep. @ 11924' MD, 1910823.29N, 533135.00E
5203.25	11932.00	Last SDI Lateral MWD Survey
5202.54	11996.00	Projection to TD



To convert Magnetic North to Grid, Add 8.96°
To convert True North to Grid, Subtract 0.07°

LEGEND

- W Lybrook UT #713H, Wellbore #1, Plan #3 28Dec16
- Wellbore #1



WPX Energy

T23N R8W

2308-08N WLU

W Lybrook UT #713H - Slot 713H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

17 March, 2017



Scientific Drilling

www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #713H - Slot 713H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #713H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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	2308-08N WLU				
Site Position:		Northing:	1,906,343.71 usft	Latitude:	36.2392246
From:	Map	Easting:	537,196.07 usft	Longitude:	-107.7072016
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.07 °

Well	W Lybrook UT #713H - Slot 713H				
Well Position	+N/-S	0.00 usft	Northing:	1,905,774.15 usft	Latitude: 36.2376610
	+E/-W	0.00 usft	Easting:	536,889.70 usft	Longitude: -107.7082430
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft	Ground Level: 6,823.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/7/2017	9.03	62.88	49,709

Design	Wellbore #1				
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	323.29	

Survey Program	Date	3/17/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	310.86	Survey #1 - Gyro Survey (Wellbore #1)	SDI Gyro MWD 104	SDI Gyro MWD Error Model Ver 1.0.4	
434.00	4,740.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD	SDI MWD - Standard ver 1.0.1	
4,772.00	5,712.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD	SDI MWD - Standard ver 1.0.1	
5,813.00	11,996.00	Survey #4 - Lateral MWD Survey (Wellbor	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	1,905,774.15	536,889.70	36.2376610	-107.7082430
21.00	0.00	0.00	21.00	0.00	0.00	1,905,774.15	536,889.70	36.2376610	-107.7082430
First SDI Gyro Survey									
45.46	0.37	100.60	45.46	-0.01	0.08	1,905,774.14	536,889.78	36.2376609	-107.7082428
70.65	0.22	130.11	70.65	-0.06	0.19	1,905,774.09	536,889.90	36.2376608	-107.7082424
96.58	0.34	109.00	96.58	-0.12	0.31	1,905,774.04	536,890.01	36.2376607	-107.7082420
120.50	0.48	161.34	120.50	-0.24	0.40	1,905,773.92	536,890.11	36.2376603	-107.7082417
146.66	0.62	157.36	146.66	-0.47	0.49	1,905,773.68	536,890.20	36.2376597	-107.7082414
169.67	0.54	163.26	169.67	-0.69	0.57	1,905,773.46	536,890.28	36.2376591	-107.7082411

Scientific Drilling Int.

Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #713H - Slot 713H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #713H	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
195.44	0.59	178.26	195.44	-0.94	0.61	1,905,773.22	536,890.32	36.2376584	-107.7082410
221.11	0.76	157.87	221.10	-1.23	0.68	1,905,772.93	536,890.38	36.2376576	-107.7082407
246.25	0.98	165.86	246.24	-1.59	0.80	1,905,772.56	536,890.50	36.2376566	-107.7082403
271.46	1.27	170.66	271.45	-2.08	0.89	1,905,772.08	536,890.60	36.2376553	-107.7082400
296.61	1.17	179.48	296.59	-2.61	0.94	1,905,771.55	536,890.65	36.2376538	-107.7082398
310.86	1.27	179.66	310.84	-2.91	0.94	1,905,771.24	536,890.65	36.2376530	-107.7082398
Last SDI Gyro Survey									
434.00	1.07	182.35	433.95	-5.42	0.90	1,905,768.73	536,890.61	36.2376461	-107.7082400
First SDI Surface MWD Survey									
525.00	0.58	23.16	524.95	-5.85	1.05	1,905,768.30	536,890.76	36.2376449	-107.7082395
617.00	1.41	60.31	616.93	-4.86	2.22	1,905,769.29	536,891.93	36.2376476	-107.7082355
708.00	1.14	70.26	707.91	-4.00	4.04	1,905,770.16	536,893.75	36.2376500	-107.7082293
800.00	1.28	76.27	799.89	-3.45	5.90	1,905,770.71	536,895.61	36.2376515	-107.7082230
892.00	0.86	80.77	891.87	-3.09	7.58	1,905,771.07	536,897.29	36.2376525	-107.7082173
983.00	0.87	53.88	982.86	-2.58	8.81	1,905,771.59	536,898.52	36.2376539	-107.7082131
1,075.00	1.70	75.79	1,074.84	-1.83	10.70	1,905,772.34	536,900.40	36.2376560	-107.7082067
1,166.00	1.88	79.76	1,165.80	-1.23	13.48	1,905,772.94	536,903.18	36.2376576	-107.7081973
1,267.00	1.48	40.03	1,266.76	0.06	15.95	1,905,774.23	536,905.65	36.2376611	-107.7081890
1,359.00	2.20	80.13	1,358.71	1.27	18.45	1,905,775.45	536,908.15	36.2376645	-107.7081805
1,450.00	4.41	95.59	1,449.56	1.23	23.65	1,905,775.41	536,913.36	36.2376644	-107.7081628
1,542.00	5.45	91.72	1,541.21	0.76	31.54	1,905,774.95	536,921.24	36.2376631	-107.7081361
1,634.00	7.30	98.91	1,632.64	-0.28	41.68	1,905,773.93	536,931.39	36.2376602	-107.7081017
1,726.00	7.41	87.59	1,723.89	-0.94	53.39	1,905,773.29	536,943.09	36.2376584	-107.7080620
1,818.00	8.49	80.32	1,815.01	0.46	66.01	1,905,774.69	536,955.71	36.2376622	-107.7080192
1,910.00	10.87	83.38	1,905.69	2.60	81.32	1,905,776.86	536,971.02	36.2376681	-107.7079673
2,001.00	12.72	89.64	1,994.77	3.65	99.87	1,905,777.93	536,989.56	36.2376710	-107.7079044
2,093.00	14.29	87.22	2,084.22	4.26	121.34	1,905,778.57	537,011.03	36.2376727	-107.7078316
2,185.00	15.71	88.19	2,173.09	5.21	145.13	1,905,779.55	537,034.82	36.2376753	-107.7077509
2,276.00	18.55	89.62	2,260.04	5.69	171.92	1,905,780.07	537,061.62	36.2376766	-107.7076601
2,368.00	20.73	87.15	2,346.69	6.60	202.82	1,905,781.01	537,092.52	36.2376791	-107.7075553
2,460.00	22.92	85.49	2,432.09	8.82	236.95	1,905,783.28	537,126.64	36.2376852	-107.7074396
2,551.00	22.62	84.91	2,516.00	11.76	272.05	1,905,786.27	537,161.73	36.2376933	-107.7073205
2,643.00	23.34	83.74	2,600.69	15.32	307.78	1,905,789.87	537,197.47	36.2377031	-107.7071994
2,734.00	23.85	82.21	2,684.09	19.78	343.93	1,905,794.38	537,233.61	36.2377153	-107.7070768
2,826.00	23.13	80.40	2,768.46	25.32	380.18	1,905,799.96	537,269.85	36.2377305	-107.7069539
2,920.00	22.40	85.21	2,855.15	29.89	416.23	1,905,804.58	537,305.90	36.2377431	-107.7068316
3,015.00	22.39	85.97	2,942.98	32.67	452.32	1,905,807.41	537,341.98	36.2377507	-107.7067092
3,110.00	21.82	85.05	3,031.00	35.47	487.96	1,905,810.25	537,377.61	36.2377584	-107.7065884
3,205.00	21.05	83.00	3,119.43	39.07	522.48	1,905,813.90	537,412.13	36.2377683	-107.7064713
3,300.00	21.34	83.21	3,208.00	43.19	556.58	1,905,818.07	537,446.23	36.2377796	-107.7063557
3,394.00	22.19	83.13	3,295.30	47.34	591.19	1,905,822.26	537,480.83	36.2377910	-107.7062384
3,489.00	23.86	82.26	3,382.73	52.07	628.04	1,905,827.04	537,517.67	36.2378040	-107.7061134
3,584.00	23.28	82.24	3,469.80	57.20	665.68	1,905,832.21	537,555.31	36.2378181	-107.7059858
3,679.00	23.68	86.33	3,556.94	60.95	703.32	1,905,836.01	537,592.95	36.2378284	-107.7058581
3,774.00	22.76	84.99	3,644.25	63.78	740.67	1,905,838.89	537,630.29	36.2378362	-107.7057315
3,869.00	23.66	85.26	3,731.56	66.96	777.97	1,905,842.12	537,667.59	36.2378449	-107.7056050
3,963.00	24.21	89.18	3,817.48	68.79	816.04	1,905,844.00	537,705.66	36.2378499	-107.7054759
4,058.00	24.21	87.86	3,904.13	69.80	854.99	1,905,845.06	537,744.60	36.2378527	-107.7053438
4,153.00	22.58	86.48	3,991.31	71.65	892.66	1,905,846.95	537,782.27	36.2378578	-107.7052161
4,248.00	20.88	82.40	4,079.56	75.01	927.65	1,905,850.36	537,817.25	36.2378670	-107.7050974
4,343.00	19.99	78.89	4,168.59	80.37	960.37	1,905,855.77	537,849.96	36.2378817	-107.7049865
4,406.00	18.62	75.66	4,228.05	84.94	980.68	1,905,860.36	537,870.27	36.2378943	-107.7049176
4,424.00	17.95	75.53	4,245.14	86.35	986.15	1,905,861.77	537,875.74	36.2378981	-107.7048991
4,455.00	17.28	76.43	4,274.68	88.62	995.25	1,905,864.06	537,884.84	36.2379044	-107.7048682
4,487.00	16.27	68.88	4,305.33	91.35	1,004.05	1,905,866.80	537,893.64	36.2379119	-107.7048384

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #713H - Slot 713H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #713H	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
4,519.00	15.68	62.69	4,336.09	94.95	1,012.08	1,905,870.41	537,901.65	36.2379218	-107.7048111
4,550.00	14.94	52.07	4,366.00	99.33	1,018.95	1,905,874.80	537,908.52	36.2379338	-107.7047878
4,582.00	14.24	43.49	4,396.97	104.72	1,024.91	1,905,880.20	537,914.48	36.2379486	-107.7047676
4,613.00	14.39	31.87	4,427.01	110.76	1,029.57	1,905,886.24	537,919.13	36.2379652	-107.7047518
4,645.00	14.37	23.53	4,458.01	117.78	1,033.26	1,905,893.26	537,922.81	36.2379845	-107.7047393
4,677.00	14.34	16.35	4,489.02	125.22	1,035.96	1,905,900.71	537,925.50	36.2380049	-107.7047302
4,708.00	14.29	11.79	4,519.06	132.65	1,037.82	1,905,908.14	537,927.35	36.2380253	-107.7047238
4,740.00	13.90	3.37	4,550.10	140.35	1,038.86	1,905,915.85	537,928.38	36.2380465	-107.7047203
Last SDI Surface MWD Survey									
4,772.00	15.14	353.83	4,581.08	148.35	1,038.63	1,905,923.84	537,928.14	36.2380685	-107.7047211
First SDI Curve MWD Survey									
4,803.00	16.65	347.37	4,610.89	156.71	1,037.23	1,905,932.20	537,926.72	36.2380914	-107.7047259
4,835.00	18.08	340.90	4,641.44	165.87	1,034.60	1,905,941.36	537,924.09	36.2381166	-107.7047348
4,866.00	19.43	337.16	4,670.79	175.17	1,031.02	1,905,950.66	537,920.50	36.2381422	-107.7047469
4,898.00	20.60	334.81	4,700.86	185.17	1,026.56	1,905,960.65	537,916.02	36.2381696	-107.7047620
4,929.00	22.41	330.85	4,729.70	195.27	1,021.36	1,905,970.74	537,910.81	36.2381974	-107.7047797
4,961.00	24.98	328.19	4,759.00	206.34	1,014.83	1,905,981.80	537,904.26	36.2382278	-107.7048018
4,993.00	27.54	326.37	4,787.70	218.24	1,007.17	1,905,993.70	537,896.59	36.2382605	-107.7048278
5,024.00	29.80	325.78	4,814.89	230.58	998.86	1,906,006.02	537,888.27	36.2382944	-107.7048559
5,056.00	31.74	325.03	4,842.39	244.06	989.57	1,906,019.49	537,878.95	36.2383314	-107.7048875
5,087.00	33.92	324.46	4,868.44	257.78	979.86	1,906,033.20	537,869.23	36.2383691	-107.7049204
5,119.00	36.65	325.40	4,894.56	272.91	969.25	1,906,048.31	537,858.60	36.2384107	-107.7049563
5,151.00	40.18	322.99	4,919.63	289.02	957.61	1,906,064.41	537,846.94	36.2384549	-107.7049958
5,182.00	42.94	322.32	4,942.82	305.37	945.13	1,906,080.74	537,834.44	36.2384998	-107.7050381
5,214.00	45.71	322.91	4,965.71	323.13	931.56	1,906,098.49	537,820.84	36.2385486	-107.7050841
5,245.00	48.55	321.66	4,986.80	341.10	917.66	1,906,116.43	537,806.92	36.2385980	-107.7051313
5,277.00	51.56	320.17	5,007.34	360.13	902.19	1,906,135.45	537,791.42	36.2386503	-107.7051837
5,309.00	54.79	320.63	5,026.52	379.87	885.86	1,906,155.16	537,775.07	36.2387045	-107.7052391
5,340.00	58.45	320.48	5,043.57	399.85	869.42	1,906,175.13	537,758.60	36.2387594	-107.7052949
5,343.21	58.64	320.44	5,045.25	401.96	867.68	1,906,177.24	537,756.86	36.2387652	-107.7053008
Start 60° 713H									
5,372.00	60.38	320.04	5,059.85	421.04	851.81	1,906,196.29	537,740.97	36.2388176	-107.7053546
5,403.00	60.38	320.82	5,075.18	441.81	834.64	1,906,217.04	537,723.77	36.2388747	-107.7054128
5,435.00	62.39	320.68	5,090.50	463.56	816.87	1,906,238.77	537,705.97	36.2389344	-107.7054730
5,466.00	65.38	319.95	5,104.14	484.98	799.09	1,906,260.16	537,688.17	36.2389933	-107.7055333
5,498.00	68.43	319.54	5,116.70	507.44	780.07	1,906,282.60	537,669.12	36.2390550	-107.7055978
5,530.00	71.10	319.68	5,127.76	530.31	760.62	1,906,305.44	537,649.64	36.2391178	-107.7056638
5,561.00	73.61	319.71	5,137.16	552.83	741.51	1,906,327.94	537,630.50	36.2391797	-107.7057286
5,593.00	76.07	320.49	5,145.53	576.53	721.70	1,906,351.61	537,610.66	36.2392448	-107.7057957
5,624.00	78.98	320.58	5,152.22	599.89	702.47	1,906,374.95	537,591.39	36.2393090	-107.7058610
5,656.00	81.50	319.90	5,157.65	624.13	682.30	1,906,399.17	537,571.19	36.2393755	-107.7059294
5,687.00	83.78	319.14	5,161.62	647.52	662.34	1,906,422.52	537,551.21	36.2394398	-107.7059970
5,712.00	85.25	319.19	5,164.01	666.34	646.07	1,906,441.33	537,534.91	36.2394915	-107.7060522
Last SDI Curve MWD Survey									
5,732.34	86.02	318.96	5,165.56	681.67	632.78	1,906,456.64	537,521.61	36.2395336	-107.7060973
POE 713H									
5,761.00	87.10	318.64	5,167.28	703.19	613.94	1,906,478.14	537,502.73	36.2395927	-107.7061612
36.2395928, -107.7061611 - 1906478.13, 537502.73 - 7" @ 5761' MD									
5,813.00	89.06	318.05	5,169.02	742.02	579.40	1,906,516.92	537,468.14	36.2396994	-107.7062783
First SDI Lateral MWD Survey									
5,876.00	89.77	318.31	5,169.66	788.97	537.39	1,906,563.81	537,426.07	36.2398284	-107.7064207
5,971.00	89.33	316.92	5,170.41	859.13	473.35	1,906,633.90	537,361.95	36.2400211	-107.7066379
6,066.00	90.13	315.89	5,170.86	927.93	407.85	1,906,702.61	537,296.35	36.2402101	-107.7068600
6,160.00	89.97	313.74	5,170.77	994.18	341.17	1,906,768.77	537,229.59	36.2403921	-107.7070861

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #713H - Slot 713H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #713H	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
6,255.00	89.40	314.55	5,171.30	1,060.34	273.00	1,906,834.85	537,161.34	36.2405739	-107.7073173
6,350.00	89.03	313.14	5,172.60	1,126.14	204.50	1,906,900.56	537,092.74	36.2407547	-107.7075496
6,444.00	88.79	313.57	5,174.39	1,190.67	136.16	1,906,964.99	537,024.32	36.2409319	-107.7077813
6,539.00	89.13	316.81	5,176.11	1,258.04	69.23	1,907,032.28	536,957.31	36.2411170	-107.7080083
6,634.00	90.33	316.09	5,176.56	1,326.89	3.78	1,907,101.05	536,891.77	36.2413062	-107.7082302
6,729.00	90.57	316.01	5,175.81	1,395.29	-62.15	1,907,169.36	536,825.75	36.2414940	-107.7084538
6,824.00	91.24	316.13	5,174.31	1,463.70	-128.06	1,907,237.68	536,759.76	36.2416820	-107.7086773
6,918.00	89.97	315.02	5,173.32	1,530.82	-193.85	1,907,304.72	536,693.88	36.2418664	-107.7089004
7,013.00	89.23	314.41	5,173.98	1,597.66	-261.35	1,907,371.47	536,626.29	36.2420500	-107.7091293
7,108.00	89.46	314.19	5,175.07	1,664.00	-329.34	1,907,437.73	536,558.22	36.2422322	-107.7093599
7,199.00	90.54	314.38	5,175.07	1,727.54	-394.48	1,907,501.18	536,492.99	36.2424068	-107.7095808
7,291.00	89.76	313.58	5,174.83	1,791.43	-460.68	1,907,564.98	536,426.71	36.2425823	-107.7098053
7,383.00	88.56	312.69	5,176.18	1,854.32	-527.81	1,907,627.79	536,359.50	36.2427551	-107.7100329
7,475.00	91.27	316.75	5,176.31	1,919.03	-593.16	1,907,692.42	536,294.06	36.2429328	-107.7102545
7,566.00	91.01	316.75	5,174.50	1,985.30	-655.50	1,907,758.61	536,231.64	36.2431149	-107.7104659
7,658.00	90.70	315.47	5,173.13	2,051.60	-719.27	1,907,824.82	536,167.78	36.2432970	-107.7106822
7,749.00	90.04	314.80	5,172.54	2,116.09	-783.47	1,907,889.23	536,103.50	36.2434742	-107.7108999
7,841.00	89.76	314.45	5,172.70	2,180.72	-848.94	1,907,953.77	536,037.94	36.2436517	-107.7111220
7,933.00	89.66	313.58	5,173.17	2,244.64	-915.11	1,908,017.61	535,971.70	36.2438273	-107.7113463
8,024.00	89.09	315.28	5,174.16	2,308.34	-980.08	1,908,081.23	535,906.64	36.2440023	-107.7115667
8,116.00	89.03	314.53	5,175.67	2,373.28	-1,045.24	1,908,146.08	535,841.40	36.2441807	-107.7117876
8,207.00	90.44	315.30	5,176.09	2,437.53	-1,109.67	1,908,210.24	535,776.88	36.2443572	-107.7120062
8,300.00	90.60	314.58	5,175.25	2,503.21	-1,175.50	1,908,275.85	535,710.97	36.2445376	-107.7122294
8,391.00	90.54	314.32	5,174.34	2,566.94	-1,240.46	1,908,339.49	535,645.93	36.2447127	-107.7124497
8,483.00	90.44	314.03	5,173.56	2,631.04	-1,306.44	1,908,403.51	535,579.87	36.2448888	-107.7126735
8,575.00	90.64	316.20	5,172.69	2,696.22	-1,371.36	1,908,468.60	535,514.87	36.2450678	-107.7128936
8,667.00	89.56	317.16	5,172.53	2,763.15	-1,434.47	1,908,535.45	535,451.66	36.2452517	-107.7131077
8,758.00	90.27	317.40	5,172.66	2,830.01	-1,496.21	1,908,602.23	535,389.84	36.2454353	-107.7133171
8,850.00	88.72	316.91	5,173.47	2,897.46	-1,558.77	1,908,669.60	535,327.20	36.2456206	-107.7135292
8,942.00	89.29	316.65	5,175.07	2,964.49	-1,621.76	1,908,736.55	535,264.12	36.2458047	-107.7137429
9,034.00	90.30	317.29	5,175.40	3,031.74	-1,684.54	1,908,803.72	535,201.25	36.2459895	-107.7139558
9,125.00	88.89	316.90	5,176.04	3,098.39	-1,746.48	1,908,870.29	535,139.22	36.2461726	-107.7141659
9,217.00	89.63	316.53	5,177.23	3,165.36	-1,809.56	1,908,937.17	535,076.06	36.2463565	-107.7143798
9,309.00	90.03	316.13	5,177.50	3,231.90	-1,873.08	1,909,003.64	535,012.45	36.2465393	-107.7145952
9,401.00	89.73	316.38	5,177.70	3,298.37	-1,936.69	1,909,070.02	534,948.75	36.2467219	-107.7148110
9,492.00	89.63	315.87	5,178.21	3,363.96	-1,999.76	1,909,135.53	534,885.60	36.2469021	-107.7150249
9,584.00	89.87	315.56	5,178.61	3,429.82	-2,064.00	1,909,201.31	534,821.28	36.2470830	-107.7152427
9,675.00	88.39	314.63	5,179.99	3,494.27	-2,128.23	1,909,265.67	534,756.96	36.2472600	-107.7154606
9,767.00	89.30	314.91	5,181.84	3,559.05	-2,193.53	1,909,330.36	534,691.58	36.2474380	-107.7156821
9,858.00	89.53	314.27	5,182.77	3,622.93	-2,258.33	1,909,394.16	534,626.70	36.2476134	-107.7159018
9,953.00	88.42	314.42	5,184.47	3,689.32	-2,326.26	1,909,460.46	534,558.68	36.2477958	-107.7161322
10,047.00	88.35	313.45	5,187.12	3,754.51	-2,393.92	1,909,525.57	534,490.93	36.2479749	-107.7163617
10,142.00	90.17	314.59	5,188.35	3,820.52	-2,462.23	1,909,591.49	534,422.54	36.2481562	-107.7165934
10,237.00	90.61	314.41	5,187.70	3,887.10	-2,529.99	1,909,657.99	534,354.70	36.2483391	-107.7168232
10,332.00	89.36	314.77	5,187.73	3,953.79	-2,597.64	1,909,724.59	534,286.96	36.2485223	-107.7170526
10,426.00	88.09	314.97	5,189.82	4,020.09	-2,664.24	1,909,790.80	534,220.28	36.2487044	-107.7172785
10,521.00	87.67	314.98	5,193.33	4,087.19	-2,731.40	1,909,857.82	534,153.03	36.2488887	-107.7175063
10,616.00	88.56	315.58	5,196.46	4,154.66	-2,798.21	1,909,925.20	534,086.14	36.2490741	-107.7177329
10,711.00	89.46	315.69	5,198.10	4,222.56	-2,864.62	1,909,993.02	534,019.63	36.2492606	-107.7179582
10,806.00	89.83	314.50	5,198.69	4,289.85	-2,931.68	1,910,060.21	533,952.48	36.2494454	-107.7181856
10,900.00	90.27	314.35	5,198.60	4,355.64	-2,998.81	1,910,125.92	533,885.27	36.2496261	-107.7184133
10,995.00	90.50	315.46	5,197.97	4,422.71	-3,066.10	1,910,192.90	533,817.90	36.2498104	-107.7186415
11,089.00	88.46	314.18	5,198.82	4,488.96	-3,132.77	1,910,259.06	533,751.14	36.2499923	-107.7188677
11,184.00	89.23	314.07	5,200.73	4,555.08	-3,200.95	1,910,325.10	533,682.88	36.2501740	-107.7190989
11,279.00	89.83	313.85	5,201.51	4,621.03	-3,269.33	1,910,390.96	533,614.41	36.2503551	-107.7193309

Scientific Drilling Int.

Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #713H - Slot 713H
Project:	T23N R8W	TVD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Site:	2308-08N WLU	MD Reference:	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)
Well:	W Lybrook UT #713H	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
11,374.00	89.39	313.53	5,202.16	4,686.65	-3,338.02	1,910,456.49	533,545.64	36.2505354	-107.7195639
11,469.00	88.96	312.35	5,203.53	4,751.36	-3,407.56	1,910,521.11	533,476.02	36.2507131	-107.7197997
11,563.00	89.66	311.71	5,204.66	4,814.29	-3,477.37	1,910,583.95	533,406.12	36.2508860	-107.7200365
11,658.00	89.90	311.85	5,205.03	4,877.58	-3,548.21	1,910,647.15	533,335.20	36.2510598	-107.7202768
11,753.00	90.30	311.39	5,204.86	4,940.68	-3,619.23	1,910,710.16	533,264.10	36.2512331	-107.7205177
11,848.00	90.57	310.86	5,204.14	5,003.16	-3,690.79	1,910,772.54	533,192.46	36.2514047	-107.7207604
11,924.00	90.63	311.06	5,203.34	5,052.98	-3,748.18	1,910,822.29	533,135.00	36.2515416	-107.7209551
Max Perf. Dep. @ 11924' MD, 1910823.29N, 533135.00E									
11,932.00	90.64	311.08	5,203.25	5,058.23	-3,754.21	1,910,827.53	533,128.96	36.2515560	-107.7209755
Last SDI Lateral MWD Survey - PBHL 713H									
11,996.00	90.64	311.08	5,202.54	5,100.28	-3,802.45	1,910,869.52	533,080.67	36.2516715	-107.7211392
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
21.00	21.00	0.00	0.00	First SDI Gyro Survey
310.86	310.84	-2.91	0.94	Last SDI Gyro Survey
434.00	433.95	-5.42	0.90	First SDI Surface MWD Survey
4,740.00	4,550.10	140.35	1,038.86	Last SDI Surface MWD Survey
4,772.00	4,581.08	148.35	1,038.63	First SDI Curve MWD Survey
5,712.00	5,164.01	666.34	646.07	Last SDI Curve MWD Survey
5,761.00	5,167.28	703.19	613.94	36.2395928, -107.7061611
5,761.00	5,167.28	703.19	613.94	1906478.13, 537502.73
5,761.00	5,167.28	703.19	613.94	7" @ 5761' MD
5,813.00	5,169.02	742.02	579.40	First SDI Lateral MWD Survey
11,924.00	5,203.34	5,052.98	-3,748.18	Max Perf. Dep. @ 11924' MD, 1910823.29N, 533135.00E
11,932.00	5,203.25	5,058.23	-3,754.21	Last SDI Lateral MWD Survey
11,996.00	5,202.54	5,100.28	-3,802.45	Projection to TD

Checked By: _____ Approved By: _____ Date: _____