

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-1661 Fax: (575) 393-0720

District II
811 S. 1st Street, Artesia, NM 88210
Phone: (505) 748-1883 Fax: (575) 748-9720

District III
1000 Rio Alamos 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 30-045-35727		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 703H
*GRID No 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6823

CONFIDENTIAL

10 Surface Location

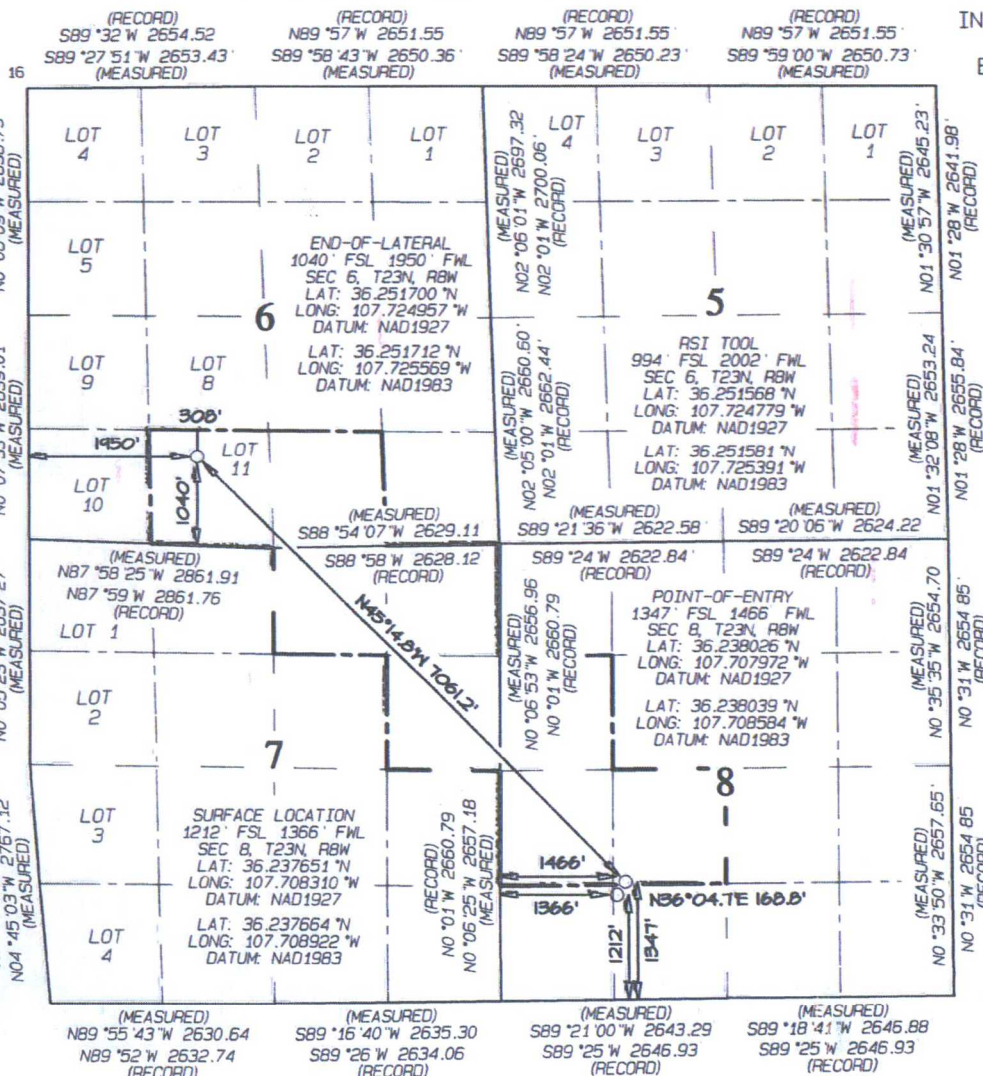
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	8	23N	8W		1212	SOUTH	1366	WEST	SAN JUAN

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
N	6	23N	8W	11	1040	SOUTH	1950	WEST	SAN JUAN

*Dedicated Acres 323.68 SE/4 SW/4, SW/4 SE/4 (Section 6) N/2 NE/4, SE/4 NE/4 (Section 7) N/2 SW/4, SW/4 NW/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



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: 3/14/17
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 13, 2017
Survey Date: DECEMBER 19, 2014

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

AV

10

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WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35727		*Pool Code 98157		*Pool Name LYBROOK MANCOS W	
*Property Code 315250		*Property Name W LYBROOK UNIT		*Well Number 703H	
*OGRID No. 120782		*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6823	

OIL CONS. DIV DIST. 3

MAR 09 2017

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		1212	SOUTH	1366	WEST	SAN JUAN

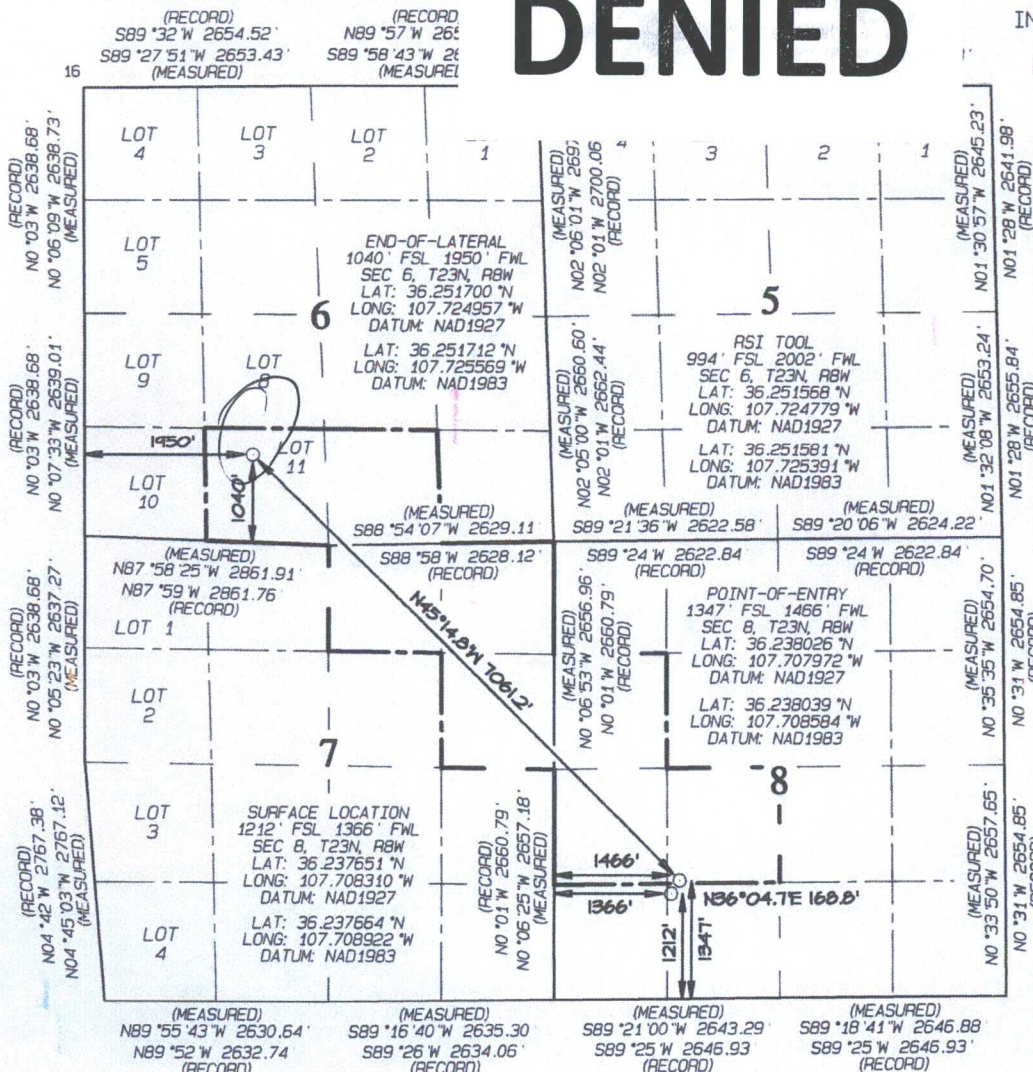
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	6	23N	8W	11	1040	SOUTH	1950	WEST	SAN JUAN

12 Dedicated Acres 323.68 SE/4 SW/4, SW/4 SE/4 (Section 6) N/2 NE/4, SE/4 NE/4 (Section 7) N/2 SW/4, SW/4 NW/4 (Section 8)		13 Joint or Infill		14 Consolidation Code		15 Order No. R-14051 - 12,807.24 Acres	
--	--	--------------------	--	-----------------------	--	---	--

DENIED

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 unless 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: 3/13/17
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: FEBRUARY 20, 2017
Survey Date: DECEMBER 19, 2014

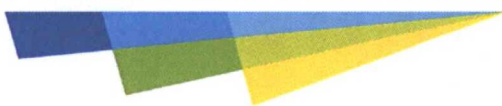
Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

WPXENERGYSM



WPX Energy

T23N R8W

2308-08N WLU

W Lybrook UT #703H - Slot 703H

Wellbore #1

OIL CONS. DIV DIST. 3
MAR 09 2017

Design: Wellbore #1

Survey Report - Geographic

09 February, 2017

CONFIDENTIAL



Scientific Drilling

www.scientificdrilling.com



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2. Daily Drilling Reports
3. BHA Summary Reports and Slide Sheets
4. Graphical Job History
5. Support Staff



Scientific Drilling

www.scientificdrilling.com





Company Name: WPX Energy
Project: T23N R8W
Site: 2308-08N WLU
Well: W Lybrook UT #703H



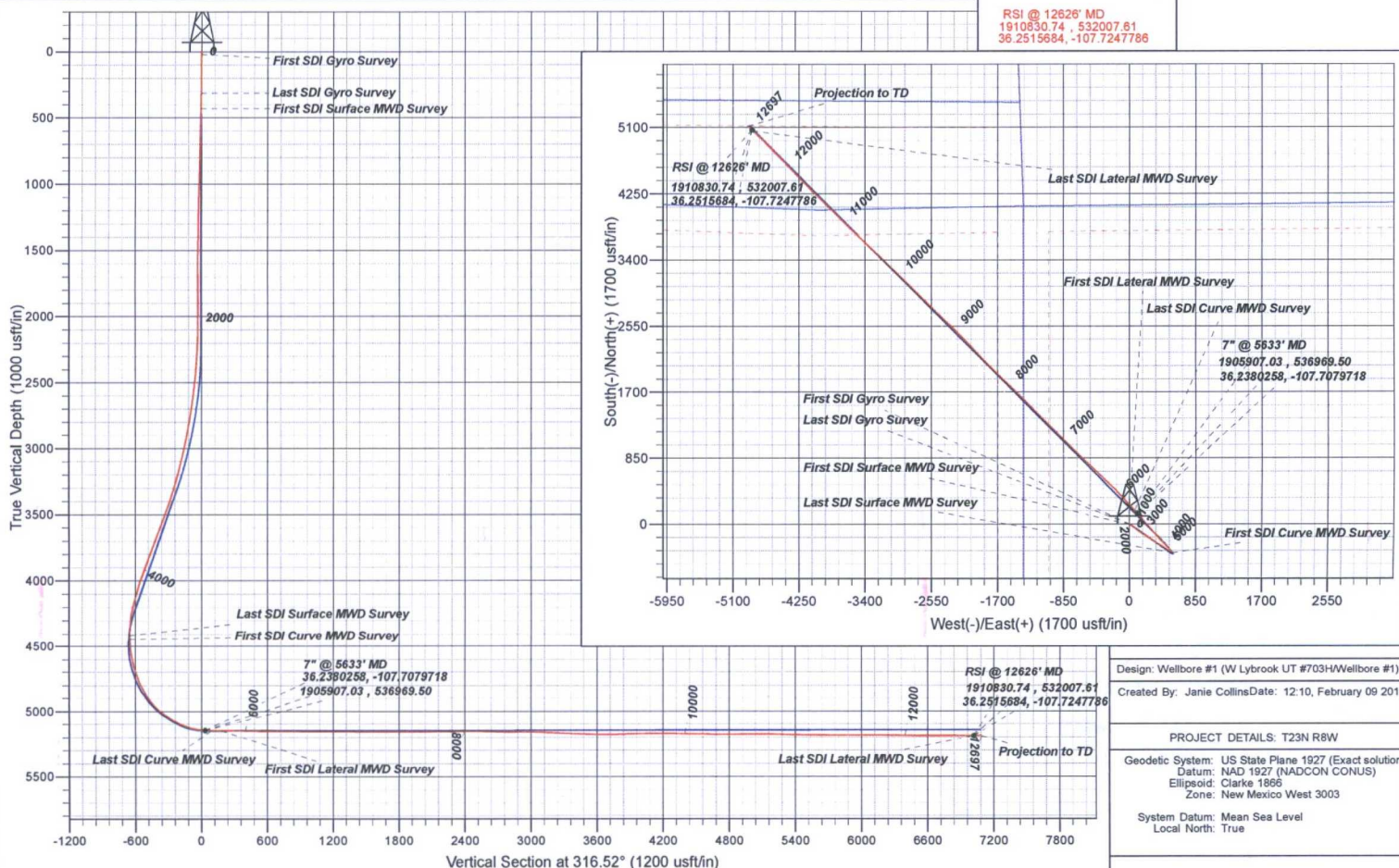
WELL DETAILS: W Lybrook UT #703H

	GL 6823' & RKB 21' @ 6844.00usft (Cyclone 32)	6823.00			
	Northings	Eastings	Latitude	Longitude	
+N/-S	1905770.57	536870.07	36.2376512	-107.7083096	703H
+E/-W	0.00	0.00			

ANNOTATIONS

7" @ 5633' MD
1905907.03, 536969.50
36.2380258, -107.7079718

RSI @ 12626' MD
1910830.74, 532007.61
36.2515684, -107.7247786



Design: Wellbore #1 (W Lybrook UT #703H/Wellbore #1)
Created By: Janie Collins Date: 12-10, February 09 2017

PROJECT DETAILS: T23N R8W

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

CONFIDENTIAL



SDI
Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #703H - Slot 703H
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 #703H	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
From:	Map	Easting:	537,196.07 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.2392246
		Longitude:	-107.7072016
		Grid Convergence:	0.07 °

Well	W Lybrook UT #703H - Slot 703H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.2376512
		Longitude:	-107.7083096
		Ground Level:	6,823.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	2/1/2017	9.03
			Dip Angle (°)
			62.88
			Field Strength (nT)
			49,711

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)
	0.00	0.00	0.00
			Direction (°)
			316.52

Survey Program	Date 2/9/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
21.00	314.92	Survey #1 - Gyro Survey (Wellbore #1)	SDI Gyro MWD 104
432.00	4,519.00	Survey #2 - Surface MWD Survey (Wellbo	SDI MWD
4,551.00	5,688.00	Survey #3 - Curve MWD Survey (Wellbore	SDI MWD
5,783.00	12,697.00	Survey #4 - Lateral MWD Survey (Wellbor	SDI MWD
			Description
			SDI Gyro MWD Error Model Ver 1.0.4
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1
			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	1,905,770.57	536,870.07	36.2376512	-107.7083096
21.00	0.00	0.00	21.00	0.00	0.00	1,905,770.57	536,870.07	36.2376512	-107.7083096
First SDI Gyro Survey									
39.11	0.14	146.80	39.11	-0.02	0.01	1,905,770.55	536,870.08	36.2376512	-107.7083096
63.43	0.15	160.19	63.43	-0.07	0.04	1,905,770.50	536,870.11	36.2376510	-107.7083095
89.09	0.30	131.70	89.09	-0.15	0.10	1,905,770.42	536,870.17	36.2376508	-107.7083093
114.76	0.59	120.83	114.76	-0.26	0.26	1,905,770.31	536,870.34	36.2376505	-107.7083087
138.16	0.95	119.70	138.16	-0.42	0.54	1,905,770.15	536,870.61	36.2376501	-107.7083078
164.21	1.17	122.12	164.20	-0.67	0.95	1,905,769.91	536,871.02	36.2376494	-107.7083064



SDI
Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #703H - Slot 703H
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 #703H	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
189.85	1.18	127.09	189.84	-0.97	1.38	1,905,769.61	536,871.45	36.2376486	-107.7083049
213.24	1.12	127.44	213.22	-1.25	1.76	1,905,769.32	536,871.83	36.2376478	-107.7083037
238.37	1.13	135.14	238.35	-1.58	2.12	1,905,769.00	536,872.20	36.2376469	-107.7083024
262.98	1.03	138.20	262.95	-1.91	2.44	1,905,768.66	536,872.52	36.2376460	-107.7083013
289.12	1.14	139.62	289.09	-2.29	2.77	1,905,768.29	536,872.84	36.2376449	-107.7083002
313.75	1.23	147.74	313.71	-2.70	3.07	1,905,767.88	536,873.14	36.2376438	-107.7082992
314.92	1.21	144.62	314.88	-2.72	3.08	1,905,767.86	536,873.16	36.2376438	-107.7082992
Last SDI Gyro Survey									
432.00	1.16	184.42	431.94	-4.91	3.71	1,905,765.67	536,873.78	36.2376377	-107.7082970
First SDI Surface MWD Survey									
523.00	2.02	137.62	522.91	-7.01	4.72	1,905,763.57	536,874.80	36.2376320	-107.7082936
615.00	1.86	127.52	614.85	-9.12	6.99	1,905,761.46	536,877.08	36.2376262	-107.7082859
706.00	2.49	140.42	705.79	-11.54	9.42	1,905,759.05	536,879.51	36.2376195	-107.7082777
798.00	1.95	113.51	797.72	-13.70	12.13	1,905,756.88	536,882.22	36.2376136	-107.7082685
890.00	2.03	120.91	889.67	-15.17	14.97	1,905,755.43	536,885.06	36.2376096	-107.7082589
981.00	1.68	113.22	980.62	-16.52	17.58	1,905,754.08	536,887.67	36.2376058	-107.7082500
1,073.00	1.81	115.12	1,072.58	-17.67	20.13	1,905,752.93	536,890.23	36.2376027	-107.7082413
1,165.00	1.47	99.62	1,164.54	-18.48	22.61	1,905,752.12	536,892.71	36.2376004	-107.7082329
1,266.00	1.38	85.34	1,265.51	-18.60	25.10	1,905,752.01	536,895.19	36.2376001	-107.7082245
1,357.00	0.24	132.47	1,356.50	-18.64	26.33	1,905,751.97	536,896.43	36.2376000	-107.7082203
1,449.00	0.37	152.20	1,448.50	-19.03	26.61	1,905,751.57	536,896.71	36.2375989	-107.7082194
1,541.00	0.17	226.97	1,540.50	-19.39	26.65	1,905,751.22	536,896.75	36.2375980	-107.7082192
1,632.00	0.46	254.30	1,631.49	-19.58	26.20	1,905,751.03	536,896.30	36.2375974	-107.7082208
1,724.00	0.69	221.87	1,723.49	-20.09	25.48	1,905,750.51	536,895.57	36.2375960	-107.7082232
1,816.00	0.89	229.00	1,815.48	-20.97	24.57	1,905,749.63	536,894.67	36.2375936	-107.7082263
1,908.00	1.38	92.27	1,907.47	-21.49	25.13	1,905,749.12	536,895.23	36.2375922	-107.7082244
2,000.00	1.23	85.52	1,999.45	-21.45	27.23	1,905,749.16	536,897.33	36.2375923	-107.7082173
2,091.00	1.20	97.65	2,090.43	-21.50	29.14	1,905,749.11	536,899.24	36.2375921	-107.7082108
2,183.00	1.67	130.46	2,182.40	-22.50	31.12	1,905,748.11	536,901.22	36.2375894	-107.7082041
2,275.00	3.43	120.07	2,274.31	-24.75	34.52	1,905,745.87	536,904.62	36.2375832	-107.7081926
2,366.00	4.79	123.78	2,365.07	-28.23	40.03	1,905,742.40	536,910.14	36.2375737	-107.7081739
2,458.00	6.19	128.84	2,456.65	-33.47	47.09	1,905,737.16	536,917.21	36.2375593	-107.7081499
2,550.00	8.32	124.81	2,547.91	-40.38	56.42	1,905,730.26	536,926.54	36.2375403	-107.7081183
2,641.00	9.47	125.49	2,637.81	-48.49	67.92	1,905,722.17	536,938.06	36.2375180	-107.7080793
2,733.00	11.15	131.06	2,728.32	-58.73	80.79	1,905,711.95	536,950.94	36.2374899	-107.7080356
2,824.00	11.46	129.50	2,817.56	-70.26	94.40	1,905,700.44	536,964.57	36.2374582	-107.7079895
2,919.00	13.86	128.54	2,910.24	-83.35	110.59	1,905,687.36	536,980.77	36.2374222	-107.7079346
3,014.00	14.69	125.72	3,002.31	-97.47	129.27	1,905,673.27	536,999.47	36.2373834	-107.7078713
3,108.00	16.46	121.29	3,092.86	-111.35	150.33	1,905,659.42	537,020.54	36.2373453	-107.7077999
3,203.00	17.99	123.81	3,183.59	-126.51	174.02	1,905,644.29	537,044.25	36.2373037	-107.7077195
3,298.00	19.05	121.48	3,273.67	-142.77	199.43	1,905,628.06	537,069.69	36.2372590	-107.7076334
3,393.00	21.41	124.46	3,362.81	-160.68	226.96	1,905,610.19	537,097.23	36.2372098	-107.7075400
3,487.00	24.32	124.10	3,449.41	-181.24	257.14	1,905,589.66	537,127.44	36.2371533	-107.7074377
3,582.00	24.68	125.53	3,535.86	-203.73	289.48	1,905,567.21	537,159.81	36.2370915	-107.7073280
3,677.00	24.01	122.20	3,622.42	-225.56	321.97	1,905,545.43	537,192.34	36.2370316	-107.7072178
3,772.00	25.35	123.44	3,708.74	-247.07	355.30	1,905,523.96	537,225.69	36.2369725	-107.7071048
3,867.00	25.09	123.13	3,794.68	-269.28	389.14	1,905,501.79	537,259.56	36.2369114	-107.7069901
3,962.00	25.34	122.85	3,880.63	-291.32	423.08	1,905,479.80	537,293.53	36.2368509	-107.7068750
4,056.00	23.64	121.70	3,966.17	-312.13	456.02	1,905,459.03	537,326.50	36.2367937	-107.7067633
4,151.00	19.99	122.31	4,054.35	-330.83	485.96	1,905,440.37	537,356.46	36.2367424	-107.7066618
4,214.00	19.20	119.57	4,113.71	-341.70	504.07	1,905,429.53	537,374.58	36.2367125	-107.7066004
4,235.00	18.99	121.00	4,133.55	-345.16	510.00	1,905,426.07	537,380.52	36.2367030	-107.7065802
4,266.00	19.01	118.11	4,162.86	-350.14	518.78	1,905,421.10	537,389.30	36.2366893	-107.7065505
4,298.00	17.14	119.23	4,193.28	-354.90	527.49	1,905,416.36	537,398.02	36.2366762	-107.7065209
4,330.00	14.28	118.57	4,224.08	-359.09	535.08	1,905,412.18	537,405.61	36.2366647	-107.7064952



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #703H - Slot 703H
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)
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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
4,361.00	10.87	117.82	4,254.34	-362.28	541.02	1,905,408.99	537,411.56	36.2366560	-107.7064751
4,393.00	8.84	120.79	4,285.86	-364.95	545.80	1,905,406.33	537,416.34	36.2366486	-107.7064589
4,424.00	6.90	120.72	4,316.57	-367.12	549.45	1,905,404.16	537,420.00	36.2366427	-107.7064465
4,456.00	4.41	116.00	4,348.41	-368.64	552.21	1,905,402.65	537,422.76	36.2366385	-107.7064371
4,488.00	2.02	124.60	4,380.36	-369.50	553.78	1,905,401.79	537,424.33	36.2366361	-107.7064318
4,519.00	0.76	193.20	4,411.35	-370.01	554.18	1,905,401.28	537,424.73	36.2366347	-107.7064304
Last SDI Surface MWD Survey									
4,551.00	2.34	291.68	4,443.34	-369.98	553.53	1,905,401.31	537,424.07	36.2366348	-107.7064327
First SDI Curve MWD Survey									
4,583.00	4.43	306.43	4,475.28	-369.00	551.92	1,905,402.28	537,422.47	36.2366375	-107.7064381
4,614.00	5.90	316.08	4,506.16	-367.14	549.86	1,905,404.14	537,420.40	36.2366426	-107.7064451
4,646.00	8.19	321.47	4,537.91	-364.17	547.29	1,905,407.11	537,417.84	36.2366508	-107.7064538
4,678.00	10.37	321.06	4,569.49	-360.15	544.06	1,905,411.13	537,414.60	36.2366618	-107.7064648
4,709.00	13.13	319.96	4,599.84	-355.28	540.05	1,905,415.99	537,410.57	36.2366752	-107.7064784
4,741.00	15.31	320.22	4,630.86	-349.25	535.00	1,905,422.01	537,405.53	36.2366918	-107.7064955
4,772.00	17.78	320.16	4,660.57	-342.47	529.35	1,905,428.78	537,399.86	36.2367104	-107.7065146
4,804.00	20.40	319.08	4,690.81	-334.51	522.57	1,905,436.74	537,393.07	36.2367323	-107.7065376
4,835.00	22.66	318.20	4,719.65	-325.97	515.05	1,905,445.27	537,385.54	36.2367557	-107.7065631
4,867.00	24.71	317.10	4,748.95	-316.47	506.38	1,905,454.75	537,376.86	36.2367818	-107.7065925
4,899.00	26.16	318.06	4,777.85	-306.33	497.12	1,905,464.89	537,367.58	36.2368097	-107.7066239
4,930.00	28.67	317.09	4,805.36	-295.80	487.48	1,905,475.41	537,357.94	36.2368386	-107.7066566
4,962.00	31.66	317.00	4,833.03	-284.03	476.53	1,905,487.16	537,346.97	36.2368709	-107.7066938
4,993.00	34.88	317.17	4,858.94	-271.57	464.95	1,905,499.60	537,335.37	36.2369051	-107.7067330
5,025.00	37.66	317.39	4,884.74	-257.67	452.11	1,905,513.49	537,322.51	36.2369434	-107.7067766
5,057.00	41.22	316.80	4,909.45	-242.78	438.27	1,905,528.36	537,308.65	36.2369842	-107.7068235
5,088.00	43.75	317.22	4,932.31	-227.47	424.00	1,905,543.65	537,294.36	36.2370263	-107.7068719
5,120.00	47.40	317.16	4,954.70	-210.70	408.47	1,905,560.40	537,278.81	36.2370724	-107.7069245
5,151.00	51.21	318.07	4,974.91	-193.34	392.63	1,905,577.74	537,262.95	36.2371201	-107.7069782
5,183.00	53.74	317.23	4,994.40	-174.59	375.53	1,905,596.47	537,245.83	36.2371716	-107.7070362
5,214.00	56.24	317.37	5,012.19	-155.93	358.32	1,905,615.10	537,228.59	36.2372228	-107.7070946
5,246.00	58.74	317.47	5,029.38	-136.06	340.06	1,905,634.95	537,210.31	36.2372774	-107.7071565
5,278.00	59.96	317.07	5,045.70	-115.84	321.38	1,905,655.14	537,191.60	36.2373330	-107.7072198
5,309.00	60.25	317.41	5,061.15	-96.11	303.13	1,905,674.85	537,173.33	36.2373872	-107.7072817
5,341.00	62.85	318.32	5,076.39	-75.25	284.26	1,905,695.69	537,154.43	36.2374445	-107.7073457
5,373.00	65.96	317.96	5,090.21	-53.76	265.00	1,905,717.16	537,135.15	36.2375035	-107.7074110
5,404.00	68.67	318.15	5,102.17	-32.48	245.89	1,905,738.41	537,116.00	36.2375620	-107.7074758
5,436.00	71.67	318.38	5,113.02	-10.02	225.85	1,905,760.84	537,095.94	36.2376237	-107.7075438
5,467.00	73.78	318.54	5,122.23	12.13	206.22	1,905,782.97	537,076.28	36.2376845	-107.7076103
5,499.00	77.14	319.30	5,130.26	35.48	185.87	1,905,806.29	537,055.90	36.2377487	-107.7076793
5,530.00	79.91	319.36	5,136.43	58.52	166.08	1,905,829.31	537,036.07	36.2378120	-107.7077465
5,562.00	82.24	319.23	5,141.39	82.48	145.46	1,905,853.24	537,015.43	36.2378778	-107.7078164
5,588.00	84.92	319.70	5,144.30	102.12	128.67	1,905,872.86	536,998.61	36.2379317	-107.7078733
5,633.00	87.17	319.61	5,147.40	136.33	99.61	1,905,907.03	536,969.51	36.2380257	-107.7079718
7" @ 5633' MD - 36.2380258, -107.7079718 - 1905907.03, 536969.50									
5,688.00	89.93	319.50	5,148.79	178.17	63.95	1,905,948.82	536,933.79	36.2381407	-107.7080928
Last SDI Curve MWD Survey									
5,783.00	89.36	318.38	5,149.38	249.80	1.55	1,906,020.37	536,871.30	36.2383375	-107.7083044
First SDI Lateral MWD Survey									
5,877.00	88.72	316.03	5,150.95	318.76	-62.30	1,906,089.25	536,807.36	36.2385269	-107.7085209
5,972.00	90.04	316.56	5,151.98	387.43	-127.93	1,906,157.84	536,741.64	36.2387155	-107.7087434
6,067.00	88.79	314.71	5,152.95	455.34	-194.35	1,906,225.66	536,675.13	36.2389021	-107.7089687
6,162.00	89.73	314.75	5,154.18	522.19	-261.84	1,906,292.42	536,607.56	36.2390857	-107.7091975
6,257.00	89.80	313.50	5,154.57	588.33	-330.03	1,906,358.48	536,539.28	36.2392674	-107.7094287
6,351.00	88.56	311.88	5,155.91	652.06	-399.11	1,906,422.11	536,470.12	36.2394425	-107.7096630

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #703H - Slot 703H
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 #703H	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
6,446.00	89.78	313.75	5,157.29	716.61	-468.79	1,906,486.58	536,400.36	36.2396198	-107.7098993
6,541.00	89.67	312.12	5,157.74	781.32	-538.34	1,906,551.20	536,330.73	36.2397976	-107.7101351
6,635.00	89.66	313.82	5,158.29	845.39	-607.11	1,906,615.17	536,261.87	36.2399736	-107.7103683
6,730.00	89.73	314.70	5,158.80	911.69	-675.15	1,906,681.39	536,193.75	36.2401557	-107.7105991
6,825.00	89.77	313.83	5,159.21	977.99	-743.18	1,906,747.61	536,125.63	36.2403379	-107.7108298
6,920.00	90.61	316.94	5,158.90	1,045.61	-809.89	1,906,815.14	536,058.83	36.2405236	-107.7110560
7,014.00	89.26	315.34	5,159.01	1,113.38	-875.02	1,906,882.83	535,993.62	36.2407098	-107.7112769
7,109.00	90.30	314.20	5,159.37	1,180.28	-942.46	1,906,949.64	535,926.09	36.2408936	-107.7115056
7,204.00	89.80	313.21	5,159.29	1,245.92	-1,011.14	1,907,015.19	535,857.33	36.2410739	-107.7117384
7,299.00	89.33	315.82	5,160.01	1,312.52	-1,078.87	1,907,081.70	535,789.51	36.2412568	-107.7119681
7,393.00	90.40	316.29	5,160.23	1,380.20	-1,144.10	1,907,149.29	535,724.19	36.2414428	-107.7121894
7,488.00	89.06	315.71	5,160.68	1,448.53	-1,210.09	1,907,217.54	535,658.11	36.2416305	-107.7124131
7,583.00	91.01	316.19	5,160.62	1,516.81	-1,276.14	1,907,285.73	535,591.98	36.2418180	-107.7126371
7,678.00	89.40	314.17	5,160.28	1,584.19	-1,343.10	1,907,353.03	535,524.93	36.2420031	-107.7128642
7,772.00	91.18	314.89	5,159.80	1,650.11	-1,410.11	1,907,418.86	535,457.84	36.2421842	-107.7130914
7,864.00	91.34	314.78	5,157.78	1,714.96	-1,475.33	1,907,483.62	535,392.53	36.2423624	-107.7133126
7,956.00	90.61	314.18	5,156.22	1,779.41	-1,540.96	1,907,547.99	535,326.82	36.2425394	-107.7135352
8,047.00	89.77	313.94	5,155.91	1,842.69	-1,606.35	1,907,611.19	535,261.34	36.2427132	-107.7137570
8,139.00	89.09	314.53	5,156.83	1,906.86	-1,672.27	1,907,675.28	535,195.35	36.2428895	-107.7139805
8,231.00	88.29	313.24	5,158.93	1,970.62	-1,738.56	1,907,738.95	535,128.98	36.2430647	-107.7142053
8,322.00	89.30	315.27	5,160.85	2,034.11	-1,803.71	1,907,802.35	535,063.73	36.2432391	-107.7144263
8,414.00	90.13	315.45	5,161.30	2,099.57	-1,868.36	1,907,867.73	534,999.01	36.2434189	-107.7146455
8,505.00	90.70	318.50	5,160.65	2,166.08	-1,930.44	1,907,934.16	534,936.84	36.2436016	-107.7148561
8,597.00	89.09	317.61	5,160.81	2,234.51	-1,991.93	1,908,002.51	534,875.26	36.2437896	-107.7150646
8,689.00	88.36	316.76	5,162.86	2,301.98	-2,054.44	1,908,069.90	534,812.66	36.2439749	-107.7152766
8,781.00	88.02	315.78	5,165.77	2,368.42	-2,118.00	1,908,136.26	534,749.02	36.2441574	-107.7154922
8,872.00	87.49	314.58	5,169.33	2,432.92	-2,182.10	1,908,200.68	534,684.84	36.2443346	-107.7157096
8,964.00	87.86	313.72	5,173.06	2,496.95	-2,248.05	1,908,264.62	534,618.80	36.2445105	-107.7159333
9,056.00	89.19	314.55	5,175.43	2,560.99	-2,314.06	1,908,328.58	534,552.71	36.2446864	-107.7161571
9,147.00	87.76	312.79	5,177.85	2,623.80	-2,379.85	1,908,391.30	534,486.84	36.2448589	-107.7163803
9,239.00	89.56	313.79	5,180.01	2,686.86	-2,446.80	1,908,454.28	534,419.81	36.2450321	-107.7166073
9,331.00	91.18	315.35	5,179.41	2,751.42	-2,512.33	1,908,518.75	534,354.19	36.2452095	-107.7168296
9,423.00	91.38	315.01	5,177.36	2,816.66	-2,577.16	1,908,583.91	534,289.28	36.2453887	-107.7170494
9,515.00	91.64	315.40	5,174.93	2,881.93	-2,641.96	1,908,649.09	534,224.39	36.2455680	-107.7172692
9,607.00	90.47	315.70	5,173.24	2,947.59	-2,706.38	1,908,714.67	534,159.90	36.2457483	-107.7174877
9,698.00	89.87	314.65	5,172.97	3,012.13	-2,770.53	1,908,779.13	534,095.66	36.2459256	-107.7177052
9,790.00	90.20	313.60	5,172.91	3,076.18	-2,836.56	1,908,843.09	534,029.54	36.2461016	-107.7179292
9,882.00	89.06	314.10	5,173.51	3,139.92	-2,902.91	1,908,906.74	533,963.12	36.2462766	-107.7181542
9,973.00	89.83	314.71	5,174.39	3,203.59	-2,967.92	1,908,970.33	533,898.03	36.2464515	-107.7183747
10,065.00	88.69	313.37	5,175.58	3,267.53	-3,034.04	1,909,034.19	533,831.82	36.2466272	-107.7185990
10,157.00	89.63	314.72	5,176.92	3,331.49	-3,100.16	1,909,098.06	533,765.62	36.2468028	-107.7188232
10,248.00	89.53	315.20	5,177.59	3,395.79	-3,164.55	1,909,162.27	533,701.14	36.2469795	-107.7190416
10,340.00	90.10	314.28	5,177.89	3,460.54	-3,229.90	1,909,226.95	533,635.71	36.2471573	-107.7192633
10,431.00	90.44	313.91	5,177.46	3,523.86	-3,295.25	1,909,290.18	533,570.28	36.2473313	-107.7194849
10,523.00	90.03	313.77	5,177.08	3,587.59	-3,361.61	1,909,353.82	533,503.84	36.2475063	-107.7197100
10,617.00	90.03	313.39	5,177.03	3,652.39	-3,429.70	1,909,418.53	533,435.66	36.2476843	-107.7199410
10,712.00	89.73	312.55	5,177.23	3,717.14	-3,499.22	1,909,483.20	533,366.06	36.2478622	-107.7201767
10,807.00	89.56	315.40	5,177.82	3,783.09	-3,567.57	1,909,549.06	533,297.62	36.2480433	-107.7204086
10,902.00	87.58	313.31	5,180.19	3,849.48	-3,635.47	1,909,615.36	533,229.64	36.2482257	-107.7206389
10,997.00	90.23	315.69	5,182.01	3,916.05	-3,703.21	1,909,681.84	533,161.82	36.2484085	-107.7208686
11,091.00	89.43	315.34	5,182.29	3,983.11	-3,769.07	1,909,748.81	533,095.86	36.2485927	-107.7210920
11,186.00	89.23	314.88	5,183.40	4,050.41	-3,836.11	1,909,816.03	533,028.74	36.2487776	-107.7213194
11,281.00	89.53	313.72	5,184.42	4,116.75	-3,904.10	1,909,882.28	532,960.66	36.2489598	-107.7215500
11,375.00	90.22	314.71	5,184.63	4,182.30	-3,971.47	1,909,947.75	532,893.21	36.2491399	-107.7217785
11,470.00	88.83	313.43	5,185.42	4,248.37	-4,039.72	1,910,013.73	532,824.87	36.2493213	-107.7220100



SDI
Survey Report - Geographic



Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #703H - Slot 703H
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 #703H	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
11,565.00	90.74	315.35	5,185.77	4,314.82	-4,107.60	1,910,080.09	532,756.91	36.2495039	-107.7222403
11,660.00	90.94	316.59	5,184.38	4,383.12	-4,173.62	1,910,148.30	532,690.80	36.2496914	-107.7224642
11,755.00	88.28	315.75	5,185.03	4,451.64	-4,239.40	1,910,216.74	532,624.93	36.2498797	-107.7226873
11,849.00	89.93	316.53	5,186.50	4,519.41	-4,304.52	1,910,284.42	532,559.72	36.2500658	-107.7229082
11,944.00	90.13	315.99	5,186.45	4,588.04	-4,370.21	1,910,352.97	532,493.95	36.2502543	-107.7231310
12,039.00	88.69	315.61	5,187.42	4,656.14	-4,436.43	1,910,420.99	532,427.64	36.2504414	-107.7233557
12,134.00	89.87	316.22	5,188.62	4,724.38	-4,502.52	1,910,489.14	532,361.46	36.2506288	-107.7235798
12,228.00	90.24	315.80	5,188.53	4,792.00	-4,567.80	1,910,556.68	532,296.09	36.2508146	-107.7238013
12,323.00	89.97	314.93	5,188.35	4,859.61	-4,634.55	1,910,624.20	532,229.26	36.2510002	-107.7240277
12,418.00	89.50	313.08	5,188.79	4,925.60	-4,702.88	1,910,690.10	532,160.85	36.2511815	-107.7242595
12,513.00	90.00	312.57	5,189.21	4,990.18	-4,772.55	1,910,754.59	532,091.09	36.2513589	-107.7244958
12,608.00	90.00	312.36	5,189.21	5,054.31	-4,842.63	1,910,818.64	532,020.92	36.2515350	-107.7247335

Last SDI Lateral MWD Survey

12,626.00	90.00	312.36	5,189.21	5,066.44	-4,855.93	1,910,830.75	532,007.61	36.2515683	-107.7247786
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RSI @ 12626' MD - 36.2515684, -107.7247786 - 1910830.74, 532007.61

12,697.00	90.00	312.36	5,189.21	5,114.28	-4,908.40	1,910,878.52	531,955.08	36.2516997	-107.7249566
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Projection to TD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
21.00	21.00	0.00	0.00	First SDI Gyro Survey
314.92	314.88	-2.72	3.08	Last SDI Gyro Survey
432.00	431.94	-4.91	3.71	First SDI Surface MWD Survey
4,519.00	4,411.35	-370.01	554.18	Last SDI Surface MWD Survey
4,551.00	4,443.34	-369.98	553.53	First SDI Curve MWD Survey
5,633.00	5,147.40	136.33	99.61	7" @ 5633' MD
5,633.00	5,147.40	136.33	99.61	36.2380258, -107.7079718
5,633.00	5,147.40	136.33	99.61	1905907.03, 536969.50
5,688.00	5,148.79	178.17	63.95	Last SDI Curve MWD Survey
5,783.00	5,149.38	249.80	1.55	First SDI Lateral MWD Survey
12,608.00	5,189.21	5,054.31	-4,842.63	Last SDI Lateral MWD Survey
12,626.00	5,189.21	5,066.44	-4,855.93	RSI @ 12626' MD
12,626.00	5,189.21	5,066.44	-4,855.93	36.2515684, -107.7247786
12,626.00	5,189.21	5,066.44	-4,855.93	1910830.74, 532007.61
12,697.00	5,189.21	5,114.28	-4,908.40	Projection to TD

Checked By: _____ Approved By: _____ Date: _____