

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 30-045-35805		*Pool Code 98157	*Pool Name LYBROOK MANCOS W	OIL CONS. DIV DIST. 3
*Property Code 315250	*Property Name W LYBROOK UNIT		*Date JUN 13 2017	*Elevation 752H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6700'	

¹⁰ Surface Location

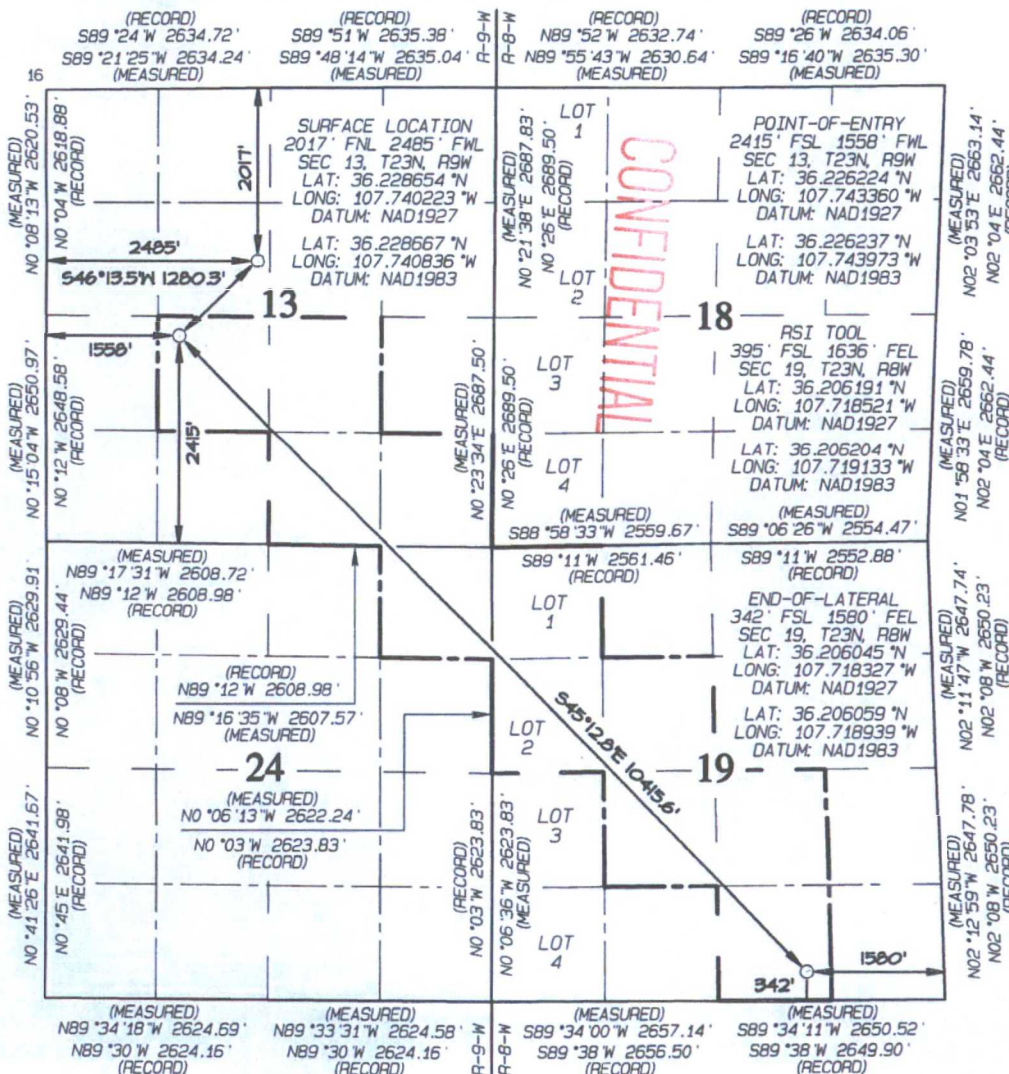
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	13	23N	9W		2017	NORTH	2485	WEST	SAN JUAN

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	19	23N	8W		342	SOUTH	1580	EAST	SAN JUAN

¹² Dedicated Acres 440.49	NE/4 SW/4, W/2 SE/4 SE/4 SE/4 - Section 13, T23N, R9W W/2 NW/4, SE/4 NW/4, NE/4 SW/4 W/2 SE/4 - Section 19, T23N, R8W NE/4 NE/4 - Section 24, T23N, R9W	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: 6/13/17
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: MAY 2, 2017
Survey Date: OCTOBER 23, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

10

W Lybrook UT #752H
T23N R9W
Northing: 1902484.87
Easting: 527461.80
Actual

KB @ 6721.00usft (Cyclone 32)
GL @ 6700.00



LEGEND

— Actual



Azimuths to True North
Magnetic North: 9.05°

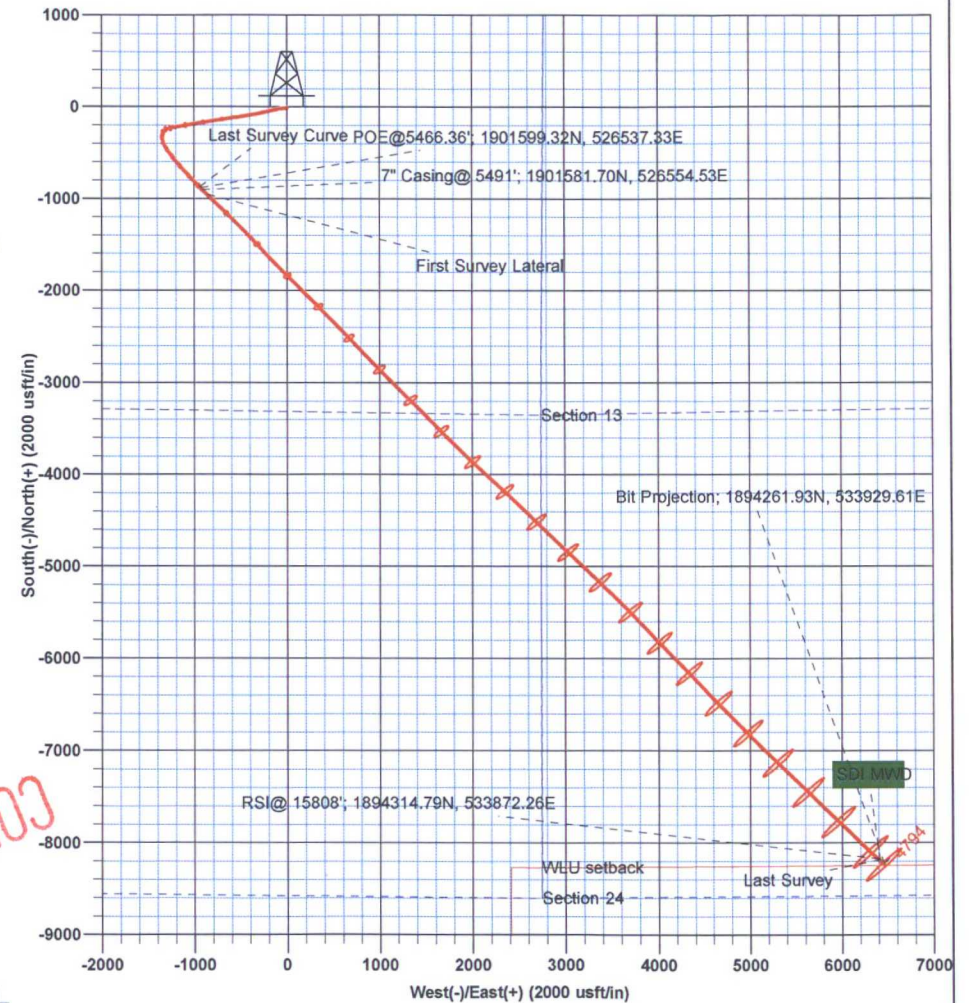
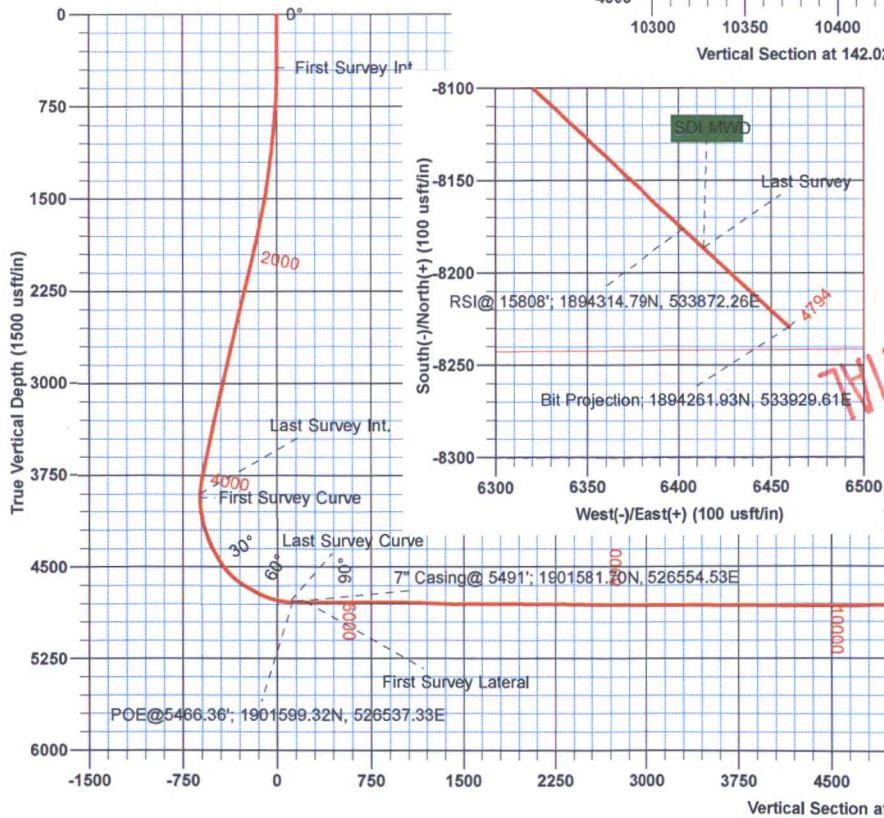
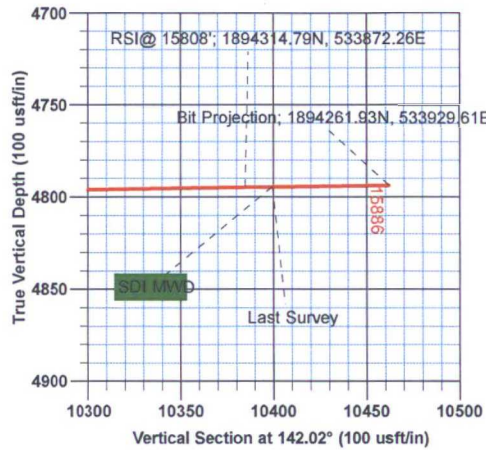
Magnetic Field
Strength: 49691.0nT
Dip Angle: 62.87°
Date: 3/20/2017
Model: HDGM

WELL DETAILS

W Lybrook UT #752H
Ground Level: 6700.00
Longitude
+N/-S +E/-W Northing Easting Latitude
0.00 0.00 1902484.87 527461.8036° 13' 43.154 107° 44' 24.803 W

ANNOTATIONS

TVD	MD	Annotation
433.96	434.00	First Survey Int.
3898.97	4173.00	Last Survey Int.
3928.70	4204.00	First Survey Curve
4780.29	5447.00	Last Survey Curve
4781.19	5466.36	POE@5466.36'; 1901599.32N, 526537.33E
4782.15	5491.00	Casing@ 5491'; 1901581.70N, 526554.53E
4783.81	5566.00	First Survey Lateral
4794.73	5808.00	RSI@ 15808'; 1894314.79N, 533872.26E
4794.54	5823.00	SDI MWD
4794.54	5823.00	Last Survey
4793.76	5886.00	Bit Projection; 1894261.93N, 533929.61E



CONFIDENTIAL

Bailey Fellows
14:40, April 28 2017

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

WPX Energy

T23N R9W

2309-13F WLU

W Lybrook UT #752H - Slot A5

Wellbore #1

Design: Actual

OIL CONS. DIV DIST. 3
JUN 13 2017

Standard Survey Report

28 April, 2017

CONFIDENTIAL



www.scientificdrilling.com

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #752H - Slot A5
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #752H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Project	T23N R9W		
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		2309-13F WLU			
Site Position:		Northing:	1,902,559.83 usft	Latitude:	36° 13' 43.896 N
From:	Map	Easting:	527,432.82 usft	Longitude:	107° 44' 25.156 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	W Lybrook UT #752H - Slot A5					
Well Position	+N/-S	0.00 usft	Northing:	1,902,484.87 usft	Latitude:	36° 13' 43.154 N
	+E/-W	0.00 usft	Easting:	527,461.80 usft	Longitude:	107° 44' 24.803 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,700.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/20/2017	9.05	62.87	49,691

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	142.02	

Survey Program	Date	4/27/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
51.00	308.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
434.00	4,173.00	SDI MWD Int. (Wellbore #1)	MWD	MWD - Standard	
4,204.00	5,447.00	SDI MWD Curve (Wellbore #1)	MWD	MWD - Standard	
5,566.00	15,886.00	SDI MWD Lateral (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
51.00	0.35	162.46	51.00	-0.15	0.05	0.15	0.69	0.69	0.00	
81.00	0.43	181.78	81.00	-0.35	0.07	0.32	0.51	0.27	64.40	
111.00	0.45	195.90	111.00	-0.57	0.04	0.47	0.37	0.07	47.07	
141.00	0.59	195.04	141.00	-0.84	-0.04	0.64	0.47	0.47	-2.87	
171.00	0.92	206.88	170.99	-1.20	-0.19	0.83	1.21	1.10	39.47	
201.00	0.89	207.02	200.99	-1.62	-0.40	1.03	0.10	-0.10	0.47	
231.00	0.86	209.97	230.99	-2.03	-0.62	1.22	0.18	-0.10	9.83	

Scientific Drilling Int.
Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #752H - Slot A5
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #752H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
261.00	0.81	212.65	260.98	-2.40	-0.85	1.37	0.21	-0.17	8.93
291.00	1.01	216.47	290.98	-2.79	-1.12	1.51	0.70	0.67	12.73
308.00	0.93	230.04	307.98	-3.00	-1.31	1.56	1.43	-0.47	79.82
434.00	0.95	227.64	433.96	-4.36	-2.87	1.67	0.04	0.02	-1.90
First Survey Int.									
526.00	1.95	252.28	525.93	-5.35	-4.92	1.19	1.26	1.09	26.78
618.00	4.04	263.51	617.80	-6.19	-9.63	-1.05	2.35	2.27	12.21
710.00	6.27	266.12	709.42	-6.90	-17.87	-5.56	2.44	2.42	2.84
802.00	7.61	268.80	800.75	-7.37	-28.97	-12.02	1.50	1.46	2.91
895.00	9.25	264.36	892.74	-8.23	-42.57	-19.71	1.90	1.76	-4.77
987.00	11.08	262.43	983.29	-10.12	-58.69	-28.14	2.02	1.99	-2.10
1,079.00	12.95	259.06	1,073.27	-13.24	-77.58	-37.30	2.17	2.03	-3.66
1,172.00	15.12	257.45	1,163.49	-17.86	-99.65	-47.25	2.37	2.33	-1.73
1,264.00	16.93	258.52	1,251.91	-23.13	-124.49	-58.38	1.99	1.97	1.16
1,358.00	18.68	258.12	1,341.41	-28.95	-152.64	-71.11	1.87	1.86	-0.43
1,452.00	20.99	255.30	1,429.83	-36.33	-183.66	-84.39	2.66	2.46	-3.00
1,546.00	22.95	255.86	1,517.00	-45.08	-217.72	-98.45	2.10	2.09	0.60
1,641.00	25.29	257.10	1,603.70	-54.13	-255.46	-114.54	2.52	2.46	1.31
1,735.00	24.22	257.54	1,689.06	-62.78	-293.86	-131.36	1.16	-1.14	0.47
1,828.00	25.28	260.41	1,773.52	-70.20	-332.07	-149.02	1.72	1.14	3.09
1,922.00	24.94	258.84	1,858.64	-77.38	-371.31	-167.50	0.80	-0.36	-1.67
2,016.00	26.16	258.48	1,943.44	-85.35	-411.06	-185.68	1.31	1.30	-0.38
2,110.00	26.60	261.47	2,027.66	-92.61	-452.17	-205.26	1.49	0.47	3.18
2,204.00	26.31	261.15	2,111.81	-98.94	-493.57	-225.75	0.34	-0.31	-0.34
2,298.00	25.31	262.66	2,196.44	-104.71	-534.08	-246.13	1.27	-1.06	1.61
2,392.00	25.51	261.92	2,281.34	-110.13	-574.05	-266.46	0.40	0.21	-0.79
2,486.00	25.43	261.02	2,366.21	-116.12	-614.03	-286.34	0.42	-0.09	-0.96
2,580.00	26.21	261.42	2,450.82	-122.37	-654.49	-306.31	0.85	0.83	0.43
2,674.00	25.25	261.33	2,535.50	-128.49	-694.84	-326.32	1.02	-1.02	-0.10
2,768.00	25.82	260.63	2,620.32	-134.84	-734.85	-345.93	0.69	0.61	-0.74
2,862.00	26.18	260.57	2,704.81	-141.57	-775.51	-365.65	0.38	0.38	-0.06
2,956.00	26.66	261.91	2,788.99	-147.94	-816.84	-386.06	0.81	0.51	1.43
3,050.00	25.71	260.63	2,873.34	-154.23	-857.84	-406.34	1.18	-1.01	-1.36
3,144.00	25.20	260.26	2,958.22	-160.93	-897.68	-425.57	0.57	-0.54	-0.39
3,238.00	23.87	260.03	3,043.73	-167.61	-936.14	-443.97	1.42	-1.41	-0.24
3,332.00	25.59	260.47	3,129.10	-174.26	-974.89	-462.58	1.84	1.83	0.47
3,426.00	25.47	260.73	3,213.92	-180.88	-1,014.86	-481.96	0.17	-0.13	0.28
3,520.00	23.89	260.16	3,299.34	-187.39	-1,053.56	-500.64	1.70	-1.68	-0.61
3,614.00	25.10	259.10	3,384.87	-194.41	-1,091.90	-518.70	1.37	1.29	-1.13
3,708.00	24.15	258.51	3,470.32	-202.01	-1,130.32	-536.35	1.04	-1.01	-0.63
3,802.00	24.73	258.90	3,555.90	-209.63	-1,168.46	-553.82	0.64	0.62	0.41
3,896.00	25.59	259.18	3,640.98	-217.23	-1,207.69	-571.98	0.92	0.91	0.30
3,990.00	22.95	258.30	3,726.67	-224.75	-1,245.59	-589.36	2.83	-2.81	-0.94

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #752H - Slot A5
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #752H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,016.00	21.93	257.62	3,750.70	-226.82	-1,255.29	-593.70	4.05	-3.92	-2.62
4,048.00	20.93	256.72	3,780.49	-229.42	-1,266.69	-598.67	3.29	-3.13	-2.81
4,079.00	20.75	256.48	3,809.46	-231.97	-1,277.42	-603.26	0.64	-0.58	-0.77
4,110.00	18.38	256.98	3,838.67	-234.36	-1,287.52	-607.60	7.66	-7.65	1.61
4,141.00	16.36	254.26	3,868.25	-236.64	-1,296.49	-611.31	7.02	-6.52	-8.77
4,173.00	16.18	248.11	3,898.97	-239.53	-1,304.96	-614.25	5.41	-0.56	-19.22
Last Survey Int.									
4,204.00	16.89	232.92	3,928.70	-243.86	-1,312.57	-615.52	14.09	2.29	-49.00
First Survey Curve									
4,235.00	17.56	222.45	3,958.32	-250.02	-1,319.32	-614.82	10.22	2.16	-33.77
4,267.00	17.84	214.87	3,988.81	-257.61	-1,325.38	-612.57	7.25	0.88	-23.69
4,298.00	18.08	208.95	4,018.30	-265.71	-1,330.42	-609.28	5.94	0.77	-19.10
4,330.00	18.52	202.55	4,048.69	-274.75	-1,334.78	-604.83	6.43	1.38	-20.00
4,361.00	19.36	197.32	4,078.01	-284.21	-1,338.19	-599.49	6.11	2.71	-16.87
4,392.00	19.67	193.70	4,107.23	-294.18	-1,340.96	-593.33	4.03	1.00	-11.68
4,423.00	19.71	188.76	4,136.42	-304.42	-1,342.99	-586.51	5.37	0.13	-15.94
4,454.00	20.31	182.66	4,165.55	-314.96	-1,344.04	-578.84	7.00	1.94	-19.68
4,486.00	21.58	177.91	4,195.44	-326.39	-1,344.08	-569.86	6.62	3.97	-14.84
4,517.00	22.61	174.56	4,224.16	-338.02	-1,343.31	-560.22	5.25	3.32	-10.81
4,548.00	22.84	170.71	4,252.76	-349.89	-1,341.77	-549.92	4.85	0.74	-12.42
4,579.00	23.32	166.67	4,281.28	-361.80	-1,339.39	-539.06	5.34	1.55	-13.03
4,611.00	24.63	162.61	4,310.52	-374.33	-1,335.93	-527.06	6.58	4.09	-12.69
4,642.00	26.06	159.14	4,338.53	-386.86	-1,331.58	-514.50	6.65	4.61	-11.19
4,673.00	27.72	155.59	4,366.18	-399.79	-1,326.17	-500.99	7.45	5.35	-11.45
4,705.00	29.19	152.15	4,394.32	-413.46	-1,319.45	-486.07	6.88	4.59	-10.75
4,736.00	29.90	149.40	4,421.29	-426.80	-1,311.98	-470.96	4.94	2.29	-8.87
4,768.00	31.85	147.34	4,448.75	-440.77	-1,303.37	-454.64	6.93	6.09	-6.44
4,799.00	34.18	145.35	4,474.75	-454.83	-1,294.00	-437.80	8.29	7.52	-6.42
4,830.00	36.84	144.77	4,499.98	-469.58	-1,283.69	-419.82	8.65	8.58	-1.87
4,861.00	39.52	144.93	4,524.35	-485.25	-1,272.66	-400.69	8.65	8.65	0.52
4,893.00	42.59	144.71	4,548.47	-502.43	-1,260.55	-379.70	9.60	9.59	-0.69
4,924.00	45.41	144.27	4,570.77	-519.95	-1,248.04	-358.19	9.15	9.10	-1.42
4,955.00	48.42	141.92	4,591.95	-538.05	-1,234.44	-335.55	11.18	9.71	-7.58
4,987.00	52.24	140.89	4,612.37	-557.29	-1,219.07	-310.93	12.19	11.94	-3.22
5,018.00	55.93	140.75	4,630.55	-576.75	-1,203.21	-285.83	11.91	11.90	-0.45
5,036.36	57.41	141.85	4,640.64	-588.72	-1,193.62	-270.50	9.48	8.04	6.01
Start 60 Tan #752H									
5,050.00	58.51	142.65	4,647.88	-597.86	-1,186.54	-258.93	9.48	8.09	5.84
5,081.00	59.31	141.55	4,663.88	-618.81	-1,170.24	-232.39	3.99	2.58	-3.55
5,113.00	59.71	139.67	4,680.12	-640.12	-1,152.74	-204.82	5.21	1.25	-5.88
5,135.31	59.91	138.94	4,691.34	-654.74	-1,140.16	-185.56	2.96	0.90	-3.26
End 60 Tan #752H									
5,144.00	59.99	138.66	4,695.69	-660.40	-1,135.21	-178.05	2.96	0.91	-3.25
5,175.00	61.93	136.88	4,710.74	-680.46	-1,116.99	-151.03	8.02	6.26	-5.74

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #752H - Slot A5
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #752H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,207.00	65.45	138.72	4,724.92	-701.71	-1,097.73	-122.42	12.15	11.00	5.75
5,238.00	68.57	138.22	4,737.03	-723.07	-1,078.81	-93.94	10.17	10.06	-1.61
5,269.00	71.23	137.78	4,747.68	-744.70	-1,059.34	-64.91	8.68	8.58	-1.42
5,301.00	74.14	135.58	4,757.20	-766.92	-1,038.38	-34.50	11.21	9.09	-6.88
5,332.00	77.75	135.33	4,764.73	-788.35	-1,017.29	-4.63	11.67	11.65	-0.81
5,363.00	80.55	136.68	4,770.57	-810.25	-996.14	25.65	9.99	9.03	4.35
5,395.00	82.45	136.40	4,775.30	-833.22	-974.37	57.15	6.00	5.94	-0.88
5,426.00	84.62	137.09	4,778.79	-855.66	-953.27	87.82	7.34	7.00	2.23
5,447.00	87.15	135.69	4,780.29	-870.82	-938.82	108.66	13.76	12.05	-6.67
Last Survey Curve									
5,466.36	87.53	135.74	4,781.19	-884.66	-925.32	127.89	1.96	1.94	0.24
POE@5466.36'; 1901599.32N, 526537.33E - POE #752H									
5,491.00	88.00	135.79	4,782.15	-902.30	-908.14	152.36	1.96	1.94	0.24
7" Casing@ 5491'; 1901581.70N, 526554.53E									
5,566.00	89.46	135.97	4,783.81	-956.13	-855.95	226.91	1.96	1.94	0.24
First Survey Lateral									
5,661.00	89.56	134.06	4,784.63	-1,023.32	-788.79	321.19	2.01	0.11	-2.01
5,756.00	89.43	133.03	4,785.46	-1,088.76	-719.94	415.15	1.09	-0.14	-1.08
5,850.00	90.67	134.61	4,785.38	-1,153.85	-652.12	508.19	2.14	1.32	1.68
5,945.00	89.77	134.70	4,785.02	-1,220.61	-584.54	602.40	0.95	-0.95	0.09
6,040.00	90.20	134.19	4,785.04	-1,287.13	-516.72	696.57	0.70	0.45	-0.54
6,135.00	90.47	136.02	4,784.49	-1,354.43	-449.67	790.87	1.95	0.28	1.93
6,230.00	90.34	137.97	4,783.81	-1,423.90	-384.88	885.50	2.06	-0.14	2.05
6,324.00	88.82	137.57	4,784.50	-1,493.49	-321.71	979.24	1.67	-1.62	-0.43
6,419.00	88.56	136.99	4,786.67	-1,563.27	-257.27	1,073.89	0.67	-0.27	-0.61
6,514.00	88.22	136.59	4,789.34	-1,632.48	-192.26	1,168.45	0.55	-0.36	-0.42
6,609.00	88.05	136.46	4,792.44	-1,701.39	-126.93	1,262.97	0.23	-0.18	-0.14
6,704.00	87.34	135.29	4,796.26	-1,769.52	-60.84	1,357.34	1.44	-0.75	-1.23
6,799.00	88.59	134.44	4,799.63	-1,836.50	6.45	1,451.54	1.59	1.32	-0.89
6,893.00	90.24	135.43	4,800.59	-1,902.88	72.99	1,544.81	2.05	1.76	1.05
6,988.00	90.84	134.36	4,799.69	-1,969.93	140.28	1,639.07	1.29	0.63	-1.13
7,083.00	90.10	134.55	4,798.92	-2,036.46	208.09	1,733.24	0.80	-0.78	0.20
7,178.00	90.40	134.89	4,798.50	-2,103.30	275.59	1,827.47	0.48	0.32	0.36
7,273.00	90.24	136.84	4,797.97	-2,171.48	341.74	1,921.92	2.06	-0.17	2.05
7,368.00	89.06	135.19	4,798.55	-2,239.83	407.71	2,016.39	2.14	-1.24	-1.74
7,462.00	88.86	134.28	4,800.26	-2,305.98	474.47	2,109.62	0.99	-0.21	-0.97
7,557.00	89.39	136.40	4,801.71	-2,373.54	541.23	2,203.95	2.30	0.56	2.23
7,652.00	90.57	136.41	4,801.74	-2,442.34	606.74	2,298.50	1.24	1.24	0.01
7,747.00	88.15	136.34	4,802.80	-2,511.10	672.28	2,393.02	2.55	-2.55	-0.07
7,842.00	89.30	136.19	4,804.92	-2,579.72	737.93	2,487.52	1.22	1.21	-0.16
7,937.00	89.23	136.60	4,806.13	-2,648.51	803.45	2,582.05	0.44	-0.07	0.43
8,032.00	89.19	136.55	4,807.44	-2,717.50	868.75	2,676.62	0.07	-0.04	-0.05
8,126.00	89.56	135.98	4,808.47	-2,785.41	933.73	2,770.14	0.72	0.39	-0.61
8,221.00	90.10	136.12	4,808.75	-2,853.81	999.66	2,864.62	0.59	0.57	0.15

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #752H - Slot A5
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #752H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,316.00	90.44	134.91	4,808.30	-2,921.58	1,066.23	2,959.01	1.32	0.36	-1.27
8,411.00	90.22	134.11	4,807.76	-2,988.18	1,133.97	3,053.19	0.87	-0.23	-0.84
8,506.00	89.23	134.31	4,808.21	-3,054.42	1,202.06	3,147.30	1.06	-1.04	0.21
8,601.00	89.66	134.42	4,809.13	-3,120.84	1,269.98	3,241.45	0.47	0.45	0.12
8,695.00	90.67	134.91	4,808.86	-3,186.92	1,336.83	3,334.68	1.19	1.07	0.52
8,790.00	88.96	135.14	4,809.17	-3,254.12	1,403.97	3,428.97	1.82	-1.80	0.24
8,885.00	89.66	135.29	4,810.31	-3,321.54	1,470.89	3,523.29	0.75	0.74	0.16
8,980.00	90.03	135.43	4,810.57	-3,389.14	1,537.64	3,617.65	0.42	0.39	0.15
9,075.00	90.57	136.10	4,810.07	-3,457.20	1,603.91	3,712.08	0.91	0.57	0.71
9,170.00	88.79	136.36	4,810.60	-3,525.80	1,669.63	3,806.59	1.89	-1.87	0.27
9,264.00	88.96	135.68	4,812.45	-3,593.43	1,734.89	3,900.06	0.75	0.18	-0.72
9,359.00	89.06	136.11	4,814.09	-3,661.63	1,801.00	3,994.50	0.46	0.11	0.45
9,454.00	88.28	134.31	4,816.30	-3,729.03	1,867.90	4,088.80	2.06	-0.82	-1.89
9,549.00	89.46	132.48	4,818.17	-3,794.28	1,936.92	4,182.70	2.29	1.24	-1.93
9,644.00	91.10	134.11	4,817.70	-3,859.42	2,006.05	4,276.60	2.43	1.73	1.72
9,738.00	90.74	133.64	4,816.20	-3,924.57	2,073.81	4,369.63	0.63	-0.38	-0.50
9,833.00	90.50	132.87	4,815.17	-3,989.66	2,142.99	4,463.52	0.85	-0.25	-0.81
9,928.00	89.80	132.26	4,814.92	-4,053.92	2,212.96	4,557.23	0.98	-0.74	-0.64
10,023.00	90.10	133.21	4,815.00	-4,118.39	2,282.73	4,650.98	1.05	0.32	1.00
10,118.00	91.10	133.14	4,814.01	-4,183.38	2,352.01	4,744.84	1.06	1.05	-0.07
10,212.00	91.80	133.32	4,811.63	-4,247.75	2,420.48	4,837.71	0.77	0.74	0.19
10,307.00	88.96	134.09	4,811.00	-4,313.38	2,489.14	4,931.70	3.10	-2.99	0.81
10,402.00	89.80	134.26	4,812.03	-4,379.57	2,557.28	5,025.80	0.90	0.88	0.18
10,497.00	90.07	134.26	4,812.13	-4,445.88	2,625.31	5,119.93	0.28	0.28	0.00
10,592.00	90.24	134.21	4,811.88	-4,512.15	2,693.38	5,214.06	0.19	0.18	-0.05
10,687.00	91.65	134.69	4,810.31	-4,578.66	2,761.18	5,308.21	1.57	1.48	0.51
10,781.00	91.07	134.06	4,808.08	-4,644.38	2,828.35	5,401.35	0.91	-0.62	-0.67
10,876.00	90.66	134.11	4,806.64	-4,710.47	2,896.58	5,495.43	0.43	-0.43	0.05
10,971.00	90.60	133.96	4,805.60	-4,776.50	2,964.88	5,589.50	0.17	-0.06	-0.16
11,066.00	89.83	132.98	4,805.24	-4,841.86	3,033.82	5,683.45	1.31	-0.81	-1.03
11,161.00	89.16	132.19	4,806.08	-4,906.14	3,103.76	5,777.16	1.09	-0.71	-0.83
11,255.00	89.29	133.25	4,807.35	-4,969.90	3,172.82	5,869.91	1.14	0.14	1.13
11,350.00	90.37	133.60	4,807.63	-5,035.20	3,241.81	5,963.84	1.20	1.14	0.37
11,445.00	90.44	133.31	4,806.96	-5,100.54	3,310.77	6,057.78	0.31	0.07	-0.31
11,540.00	88.99	134.60	4,807.44	-5,166.48	3,379.16	6,151.83	2.04	-1.53	1.36
11,631.00	89.53	134.69	4,808.61	-5,230.42	3,443.89	6,242.07	0.60	0.59	0.10
11,724.00	90.81	134.90	4,808.33	-5,295.94	3,509.89	6,334.33	1.39	1.38	0.23
11,816.00	89.66	135.69	4,807.96	-5,361.33	3,574.60	6,425.70	1.52	-1.25	0.86
11,908.00	87.21	136.10	4,810.47	-5,427.36	3,638.60	6,517.13	2.70	-2.66	0.45
12,000.00	87.58	135.95	4,814.65	-5,493.50	3,702.42	6,608.53	0.43	0.40	-0.16
12,091.00	88.83	136.31	4,817.50	-5,559.07	3,765.45	6,699.01	1.43	1.37	0.40
12,183.00	88.66	136.28	4,819.52	-5,625.56	3,829.00	6,790.53	0.19	-0.18	-0.03
12,275.00	91.04	136.88	4,819.76	-5,692.38	3,892.23	6,882.10	2.67	2.59	0.65
12,368.00	90.22	136.92	4,818.73	-5,760.28	3,955.77	6,974.73	0.88	-0.88	0.04

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #752H - Slot A5
Project:	T230N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #752H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,459.00	91.98	136.99	4,816.99	-5,826.77	4,017.87	7,065.35	1.94	1.93	0.08
12,551.00	91.85	136.70	4,813.91	-5,893.84	4,080.76	7,156.92	0.35	-0.14	-0.32
12,643.00	90.24	135.04	4,812.24	-5,959.86	4,144.81	7,248.37	2.51	-1.75	-1.80
12,735.00	89.16	134.92	4,812.72	-6,024.89	4,209.88	7,339.68	1.18	-1.17	-0.13
12,827.00	90.10	135.91	4,813.31	-6,090.41	4,274.46	7,431.06	1.48	1.02	1.08
12,919.00	89.70	135.78	4,813.47	-6,156.42	4,338.55	7,522.53	0.46	-0.43	-0.14
13,010.00	91.14	136.15	4,812.80	-6,221.83	4,401.80	7,613.02	1.63	1.58	0.41
13,102.00	90.54	135.69	4,811.46	-6,287.92	4,465.79	7,704.48	0.82	-0.65	-0.50
13,194.00	90.20	135.53	4,810.86	-6,353.66	4,530.15	7,795.91	0.41	-0.37	-0.17
13,285.00	91.71	135.79	4,809.35	-6,418.73	4,593.74	7,886.33	1.68	1.66	0.29
13,376.00	92.15	135.16	4,806.28	-6,483.57	4,657.51	7,976.69	0.84	0.48	-0.69
13,468.00	92.42	135.37	4,802.61	-6,548.87	4,722.21	8,067.98	0.37	0.29	0.23
13,560.00	89.36	135.01	4,801.18	-6,614.13	4,787.04	8,159.30	3.35	-3.33	-0.39
13,652.00	89.16	134.55	4,802.37	-6,678.92	4,852.33	8,250.56	0.55	-0.22	-0.50
13,743.00	88.99	134.52	4,803.84	-6,742.74	4,917.19	8,340.77	0.19	-0.19	-0.03
13,835.00	90.75	135.34	4,804.05	-6,807.71	4,982.32	8,432.06	2.11	1.91	0.89
13,927.00	92.24	135.78	4,801.65	-6,873.37	5,046.71	8,523.45	1.69	1.62	0.48
14,018.00	91.85	135.62	4,798.40	-6,938.46	5,110.23	8,613.83	0.46	-0.43	-0.18
14,110.00	91.45	133.58	4,795.75	-7,003.03	5,175.70	8,705.02	2.26	-0.43	-2.22
14,201.00	91.58	134.98	4,793.35	-7,066.54	5,240.83	8,795.16	1.54	0.14	1.54
14,293.00	90.66	133.49	4,791.55	-7,130.70	5,306.73	8,886.29	1.90	-1.00	-1.62
14,384.00	89.80	134.45	4,791.18	-7,193.88	5,372.22	8,976.39	1.42	-0.95	1.05
14,476.00	89.33	134.20	4,791.88	-7,258.16	5,438.03	9,067.56	0.58	-0.51	-0.27
14,567.00	88.56	133.91	4,793.56	-7,321.42	5,503.42	9,157.66	0.90	-0.85	-0.32
14,659.00	88.02	133.05	4,796.30	-7,384.70	5,570.15	9,248.60	1.10	-0.59	-0.93
14,751.00	88.37	132.17	4,799.20	-7,446.95	5,637.82	9,339.32	1.03	0.38	-0.96
14,843.00	87.58	133.89	4,802.45	-7,509.69	5,705.03	9,430.13	2.06	-0.86	1.87
14,934.00	89.19	133.96	4,805.02	-7,572.79	5,770.55	9,520.18	1.77	1.77	0.08
15,026.00	90.57	134.55	4,805.21	-7,636.99	5,836.44	9,611.34	1.63	1.50	0.64
15,118.00	90.84	134.46	4,804.08	-7,701.48	5,902.05	9,702.54	0.31	0.29	-0.10
15,209.00	91.04	134.41	4,802.58	-7,765.18	5,967.02	9,792.73	0.23	0.22	-0.05
15,304.00	91.10	133.93	4,800.81	-7,831.36	6,035.14	9,886.82	0.51	0.06	-0.51
15,399.00	90.75	133.49	4,799.28	-7,897.00	6,103.81	9,980.81	0.59	-0.37	-0.46
15,494.00	90.40	132.88	4,798.32	-7,962.01	6,173.07	10,074.68	0.74	-0.37	-0.64
15,589.00	90.50	133.02	4,797.58	-8,026.73	6,242.60	10,168.49	0.18	0.11	0.15
15,684.00	90.87	133.17	4,796.44	-8,091.63	6,311.97	10,262.33	0.42	0.39	0.16
15,779.00	90.75	132.97	4,795.10	-8,156.50	6,381.36	10,356.17	0.25	-0.13	-0.21
15,808.00	90.72	132.80	4,794.73	-8,176.24	6,402.61	10,384.80	0.60	-0.09	-0.59
RSI@ 15808'; 1894314.79N, 533872.26E									
15,823.00	90.71	132.71	4,794.54	-8,186.42	6,413.62	10,399.60	0.60	-0.09	-0.59
SDI MWD - Last Survey									
15,875.56	90.71	132.71	4,793.89	-8,222.07	6,452.24	10,451.46	0.00	0.00	0.00
BHL #752H									
15,886.00	90.71	132.71	4,793.76	-8,229.15	6,459.91	10,461.77	0.00	0.00	0.00

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #752H - Slot A5
Project:	T23N R9W	TVD Reference:	KB @ 6721.00usft (Cyclone 32)
Site:	2309-13F WLU	MD Reference:	KB @ 6721.00usft (Cyclone 32)
Well:	W Lybrook UT #752H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Bit Projection; 1894261.93N, 533929.61E									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
434.00	433.96	-4.36	-2.87	First Survey Int.
4,173.00	3,898.97	-239.53	-1,304.96	Last Survey Int.
4,204.00	3,928.70	-243.86	-1,312.57	First Survey Curve
5,447.00	4,780.29	-870.82	-938.82	Last Survey Curve
5,466.36	4,781.19	-884.66	-925.32	POE@5466.36'; 1901599.32N, 526537.33E
5,491.00	4,782.15	-902.30	-908.14	7" Casing@ 5491'; 1901581.70N, 526554.53E
5,566.00	4,783.81	-956.13	-855.95	First Survey Lateral
15,808.00	4,794.73	-8,176.24	6,402.61	RSI@ 15808'; 1894314.79N, 533872.26E
15,823.00	4,794.54	-8,186.42	6,413.62	SDI MWD
15,823.00	4,794.54	-8,186.42	6,413.62	Last Survey
15,886.00	4,793.76	-8,229.15	6,459.91	Bit Projection; 1894261.93N, 533929.61E

Checked By: _____ Approved By: _____ Date: _____