

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

OIL CONS. DIV DIST. Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

JUN 07 2017

AMENDED REPORT

AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35804		*Pool Code 98157	*Pool Name LYBROOK MANCOS W
*Property Code 315250	*Property Name W LYBROOK UNIT		*Well Number 750H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6700'

¹⁰ Surface Location

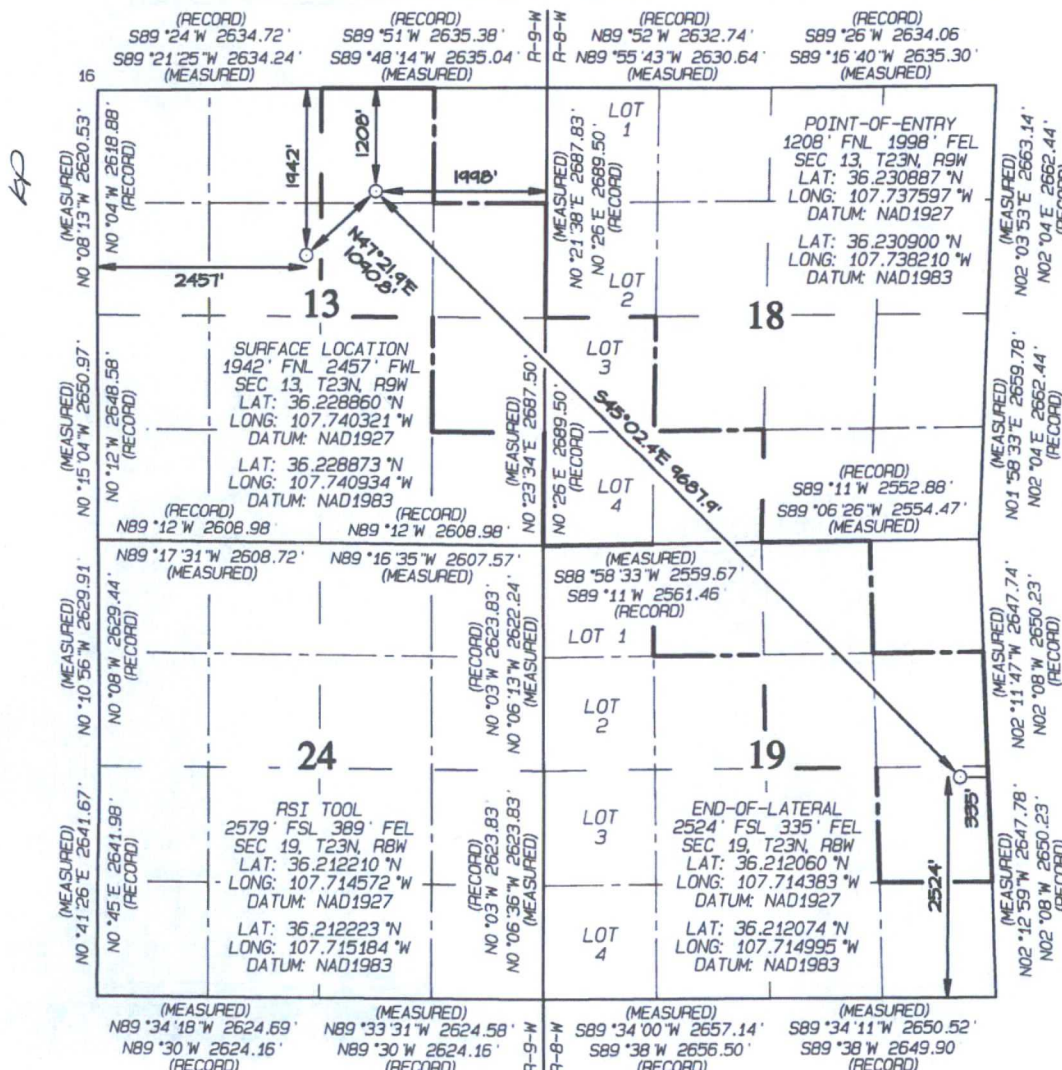
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	13	23N	9W		1942	NORTH	2457	WEST	SAN JUAN

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
I	19	23N	8W		2524	SOUTH	335	EAST	SAN JUAN

¹² Dedicated Acres 480.15 NW/4 NE/4, S/2 NE/4 NE/4 SE/4 - Section 13, T23N, R9W NW/4 SW/4, S/2 SW/4 - Section 18 NE/4 NW/4, NW/4 NE/4, S/2 NE/4 NE/4 SE/4 - Section 19, T23N, R8W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051 - 12,807.24 Acres
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			

CONFIDENTIAL



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: 6/7/17
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 16, 2017
Survey Date: OCTOBER 23, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

WPX Energy

T23N R9W

2309-13F WLU

W Lybrook UT #750H - Slot A1

Wellbore #1

Design: Actual

Standard Survey Report

12 May, 2017

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www.scientificdrilling.com



Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #750H - Slot A1
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 #750H	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 #750H - Slot A1					
Well Position	+N/-S	0.00 usft	Northing:	1,902,559.83 usft	Latitude:	36° 13' 43.896 N
	+E/-W	0.00 usft	Easting:	527,432.82 usft	Longitude:	107° 44' 25.156 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	128.61	

Survey Program	Date	5/12/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
51.00	206.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
445.00	4,379.00	SDI MWD Int. (Wellbore #1)	MWD	MWD - Standard	
4,410.00	5,458.00	SDI MWD Curve (Wellbore #1)	MWD	MWD - Standard	
5,567.00	15,205.00	SDI MWD Lateral (Wellbore #1)	MWD	MWD - Standard	

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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	0.75	254.48	51.00	-0.09	-0.32	-0.20	1.47	1.47	0.00	
81.00	0.72	248.36	81.00	-0.21	-0.69	-0.40	0.28	-0.10	-20.40	
111.00	0.90	248.79	110.99	-0.37	-1.08	-0.62	0.60	0.60	1.43	
141.00	0.93	241.84	140.99	-0.57	-1.52	-0.83	0.38	0.10	-23.17	
171.00	1.07	229.32	170.98	-0.86	-1.94	-0.98	0.86	0.47	-41.73	
201.00	1.27	218.43	200.98	-1.31	-2.36	-1.03	0.99	0.67	-36.30	
206.00	1.08	219.93	205.98	-1.39	-2.43	-1.03	3.85	-3.80	30.00	

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #750H - Slot A1
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 #750H	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)
445.00	1.64	272.91	444.92	-2.94	-7.29	-3.86	0.55	0.23	22.17
First Survey Int.									
539.00	0.63	48.12	538.91	-2.53	-8.25	-4.87	2.27	-1.07	143.84
633.00	2.51	0.30	632.87	-0.12	-7.85	-6.06	2.28	2.00	-50.87
727.00	3.93	5.48	726.72	5.14	-7.53	-9.09	1.54	1.51	5.51
819.00	6.60	3.62	818.32	13.56	-6.90	-13.85	2.91	2.90	-2.02
911.00	7.45	6.82	909.63	24.76	-5.86	-20.02	1.02	0.92	3.48
1,004.00	8.95	11.45	1,001.68	37.84	-3.70	-26.50	1.76	1.61	4.98
1,096.00	9.30	9.08	1,092.51	52.19	-1.11	-33.43	0.56	0.38	-2.58
1,188.00	11.16	15.38	1,183.05	68.12	2.43	-40.61	2.36	2.02	6.85
1,280.00	13.85	16.29	1,272.86	87.27	7.88	-48.31	2.93	2.92	0.99
1,373.00	14.97	11.44	1,362.94	109.73	13.38	-58.02	1.77	1.20	-5.22
1,465.00	15.75	10.01	1,451.65	133.68	17.91	-69.42	0.94	0.85	-1.55
1,557.00	18.28	11.82	1,539.62	160.10	23.04	-81.90	2.81	2.75	1.97
1,649.00	21.05	13.24	1,626.24	190.31	29.78	-95.49	3.06	3.01	1.54
1,741.00	20.57	14.02	1,712.24	222.07	37.48	-109.29	0.60	-0.52	0.85
1,834.00	23.09	9.10	1,798.57	255.94	44.32	-125.08	3.35	2.71	-5.29
1,927.00	22.25	8.27	1,884.39	291.37	49.74	-142.96	0.97	-0.90	-0.89
2,021.00	22.14	8.47	1,971.42	326.50	54.91	-160.84	0.14	-0.12	0.21
2,115.00	25.21	4.91	2,057.50	363.98	59.23	-180.85	3.60	3.27	-3.79
2,209.00	26.01	4.45	2,142.27	404.47	62.54	-203.53	0.88	0.85	-0.49
2,312.00	26.66	3.10	2,234.58	450.07	65.54	-229.63	0.86	0.63	-1.31
2,406.00	26.25	5.53	2,318.74	491.82	68.69	-253.23	1.23	-0.44	2.59
2,500.00	22.98	7.55	2,404.19	530.71	73.10	-274.05	3.59	-3.48	2.15
2,593.00	21.56	10.57	2,490.25	565.51	78.62	-291.45	1.96	-1.53	3.25
2,688.00	21.20	9.83	2,578.71	599.59	84.76	-307.92	0.47	-0.38	-0.78
2,782.00	20.79	8.41	2,666.47	632.84	90.10	-324.50	0.70	-0.44	-1.51
2,876.00	20.19	9.00	2,754.53	665.36	95.08	-340.90	0.68	-0.64	0.63
2,969.00	21.96	11.60	2,841.30	698.25	101.09	-356.73	2.15	1.90	2.80
3,063.00	21.42	11.32	2,928.65	732.30	107.99	-372.58	0.58	-0.57	-0.30
3,157.00	24.00	11.09	3,015.35	767.90	115.04	-389.29	2.75	2.74	-0.24
3,251.00	24.94	10.58	3,100.91	806.14	122.35	-407.44	1.02	1.00	-0.54
3,345.00	24.96	10.23	3,186.14	845.14	129.51	-426.18	0.16	0.02	-0.37
3,439.00	23.05	11.27	3,272.00	882.71	136.63	-444.06	2.08	-2.03	1.11
3,533.00	22.42	10.80	3,358.70	918.36	143.59	-460.87	0.70	-0.67	-0.50
3,627.00	22.02	9.46	3,445.72	953.35	149.84	-477.82	0.69	-0.43	-1.43
3,721.00	22.35	8.81	3,532.76	988.40	155.48	-495.28	0.44	0.35	-0.69
3,815.00	23.72	8.65	3,619.26	1,024.75	161.06	-513.61	1.46	1.46	-0.17
3,909.00	24.49	8.85	3,705.06	1,062.70	166.90	-532.72	0.82	0.82	0.21
4,003.00	23.26	7.50	3,791.02	1,100.35	172.32	-551.98	1.43	-1.31	-1.44
4,097.00	22.80	11.18	3,877.53	1,136.62	178.27	-569.96	1.61	-0.49	3.91
4,128.00	22.10	10.14	3,906.18	1,148.25	180.47	-575.51	2.60	-2.26	-3.35
4,160.00	21.46	14.08	3,935.90	1,159.86	182.95	-580.81	4.99	-2.00	12.31

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #750H - Slot A1
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 #750H	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)
4,191.00	20.23	20.84	3,964.87	1,170.37	186.24	-584.80	8.71	-3.97	21.81
4,222.00	19.27	26.72	3,994.05	1,179.95	190.44	-587.49	7.11	-3.10	18.97
4,254.00	18.03	32.78	4,024.38	1,188.83	195.50	-589.08	7.18	-3.88	18.94
4,285.00	16.57	40.56	4,053.98	1,196.22	200.97	-589.42	8.82	-4.71	25.10
4,317.00	15.83	47.63	4,084.71	1,202.63	207.16	-588.58	6.58	-2.31	22.09
4,348.00	15.60	53.66	4,114.55	1,207.95	213.65	-586.84	5.32	-0.74	19.45
4,379.00	14.82	61.40	4,144.47	1,212.32	220.49	-584.22	7.01	-2.52	24.97
Last Survey Int.									
4,410.00	14.73	68.53	4,174.45	1,215.66	227.63	-580.72	5.87	-0.29	23.00
First Survey Curve									
4,441.00	14.77	77.34	4,204.43	1,217.97	235.16	-576.28	7.23	0.13	28.42
4,473.00	15.83	86.23	4,235.30	1,219.15	243.50	-570.50	8.03	3.31	27.78
4,504.00	16.00	94.48	4,265.11	1,219.10	251.97	-563.84	7.31	0.55	26.61
4,535.00	17.76	97.38	4,294.78	1,218.15	260.92	-556.26	6.29	5.68	9.35
4,567.00	19.32	102.51	4,325.12	1,216.38	270.93	-547.33	7.05	4.88	16.03
4,598.00	21.02	107.40	4,354.22	1,213.61	281.25	-537.54	7.72	5.48	15.77
4,629.00	22.16	109.07	4,383.04	1,210.03	292.08	-526.85	4.18	3.68	5.39
4,674.00	25.59	113.90	4,424.19	1,203.32	308.99	-509.44	8.77	7.62	10.73
4,706.00	28.08	117.28	4,452.74	1,197.07	322.01	-495.37	9.12	7.78	10.56
4,737.00	30.49	121.22	4,479.78	1,189.65	335.22	-480.41	9.95	7.77	12.71
4,769.00	33.60	125.14	4,506.91	1,180.34	349.41	-463.52	11.69	9.72	12.25
4,800.00	35.98	127.35	4,532.36	1,169.87	363.66	-445.85	8.69	7.68	7.13
4,831.00	38.36	128.69	4,557.06	1,158.34	378.41	-427.12	8.11	7.68	4.32
4,862.00	39.82	129.55	4,581.13	1,146.00	393.57	-407.58	5.02	4.71	2.77
4,894.00	43.81	131.12	4,604.97	1,132.19	409.83	-386.26	12.89	12.47	4.91
4,925.00	46.73	132.56	4,626.79	1,117.49	426.23	-364.28	9.98	9.42	4.65
4,956.00	50.30	134.12	4,647.32	1,101.55	443.11	-341.14	12.12	11.52	5.03
4,988.00	52.67	133.59	4,667.24	1,084.21	461.16	-316.21	7.52	7.41	-1.66
5,019.00	54.88	134.69	4,685.56	1,066.79	479.10	-291.32	7.68	7.13	3.55
5,051.00	57.54	134.50	4,703.36	1,048.12	498.04	-264.87	8.33	8.31	-0.59
5,075.91	59.67	135.06	4,716.33	1,033.14	513.13	-243.73	8.76	8.55	2.24
Start 60 Tan #750H									
5,082.00	60.19	135.19	4,719.39	1,029.41	516.85	-238.49	8.76	8.55	2.18
5,114.00	60.22	135.35	4,735.29	1,009.68	536.39	-210.91	0.44	0.09	0.50
5,145.00	61.37	135.17	4,750.41	990.46	555.44	-184.04	3.74	3.71	-0.58
5,176.00	65.62	135.38	4,764.24	970.75	574.96	-156.49	13.72	13.71	0.68
5,177.36	65.75	135.39	4,764.80	969.87	575.83	-155.26	9.62	9.59	0.83
End 60 Tan #750H									
5,208.00	68.69	135.64	4,776.67	949.72	595.62	-127.21	9.62	9.59	0.81
5,239.00	69.38	135.26	4,787.76	929.09	615.93	-98.47	2.50	2.23	-1.23
5,270.00	71.23	135.44	4,798.20	908.33	636.44	-69.49	5.99	5.97	0.58
5,302.00	74.38	135.13	4,807.66	886.61	657.95	-39.13	9.89	9.84	-0.97
5,333.00	78.00	134.82	4,815.06	865.33	679.24	-9.22	11.72	11.68	-1.00
5,364.00	79.49	135.26	4,821.11	843.82	700.72	20.99	5.00	4.81	1.42

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #750H - Slot A1
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 #750H	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)
5,396.00	80.62	134.89	4,826.64	821.50	722.98	52.31	3.71	3.53	-1.16
5,427.00	83.19	134.82	4,831.00	799.86	744.73	82.82	8.29	8.29	-0.23
5,458.00	85.47	136.45	4,834.07	777.81	766.30	113.43	9.03	7.35	5.26
Last Survey Curve									
5,510.00	87.28	137.72	4,837.35	739.80	801.64	164.76	4.24	3.48	2.44
7" Casing@ 5510' MD, 1903300.41 N, 528233.75 E									
5,512.54	87.37	137.78	4,837.47	737.93	803.34	167.26	4.24	3.48	2.43
POE@ 5512.54' MD, 1903298.53 N, 528235.45 E - POE #750H									
5,567.00	89.26	139.10	4,839.08	697.20	839.45	220.90	4.24	3.48	2.43
First Survey Lateral									
5,662.00	89.73	139.28	4,839.91	625.30	901.54	314.28	0.53	0.49	0.19
5,757.00	89.70	139.01	4,840.39	553.44	963.68	407.68	0.29	-0.03	-0.28
5,851.00	90.07	136.55	4,840.58	483.83	1,026.84	500.47	2.65	0.39	-2.62
5,946.00	89.63	136.57	4,840.82	414.86	1,092.16	594.55	0.46	-0.46	0.02
6,041.00	88.62	135.17	4,842.28	346.68	1,158.30	688.78	1.82	-1.06	-1.47
6,136.00	90.47	134.13	4,843.03	279.92	1,225.88	783.24	2.23	1.95	-1.09
6,231.00	89.93	132.62	4,842.70	214.68	1,294.93	877.91	1.69	-0.57	-1.59
6,326.00	90.30	134.33	4,842.51	149.32	1,363.87	972.56	1.84	0.39	1.80
6,420.00	90.87	134.97	4,841.55	83.26	1,430.73	1,066.04	0.91	0.61	0.68
6,515.00	87.65	134.61	4,842.77	16.35	1,498.14	1,160.46	3.41	-3.39	-0.38
6,610.00	88.72	134.44	4,845.78	-50.23	1,565.84	1,254.91	1.14	1.13	-0.18
6,705.00	90.24	135.15	4,846.65	-117.16	1,633.25	1,349.35	1.77	1.60	0.75
6,800.00	89.83	136.78	4,846.59	-185.46	1,699.28	1,443.56	1.77	-0.43	1.72
6,895.00	87.58	136.84	4,848.73	-254.70	1,764.28	1,537.56	2.37	-2.37	0.06
6,990.00	87.95	136.52	4,852.44	-323.76	1,829.40	1,631.55	0.51	0.39	-0.34
7,084.00	88.52	136.09	4,855.33	-391.69	1,894.31	1,724.66	0.76	0.61	-0.46
7,179.00	87.62	135.43	4,858.53	-459.71	1,960.55	1,818.86	1.17	-0.95	-0.69
7,274.00	89.09	133.61	4,861.26	-526.29	2,028.25	1,913.31	2.46	1.55	-1.92
7,369.00	91.01	132.60	4,861.18	-591.20	2,097.61	2,008.02	2.28	2.02	-1.06
7,464.00	91.28	132.49	4,859.28	-655.43	2,167.58	2,102.77	0.31	0.28	-0.12
7,558.00	90.61	133.54	4,857.73	-719.54	2,236.30	2,196.48	1.32	-0.71	1.12
7,653.00	89.20	132.35	4,857.89	-784.26	2,305.84	2,291.20	1.94	-1.48	-1.25
7,748.00	90.67	132.51	4,857.99	-848.36	2,375.96	2,385.99	1.56	1.55	0.17
7,843.00	90.60	132.59	4,856.94	-912.60	2,445.94	2,480.76	0.11	-0.07	0.08
7,938.00	88.96	131.05	4,857.31	-975.94	2,516.73	2,575.60	2.37	-1.73	-1.62
8,033.00	90.54	132.17	4,857.72	-1,039.02	2,587.76	2,670.47	2.04	1.66	1.18
8,128.00	90.77	133.46	4,856.63	-1,103.58	2,657.44	2,765.20	1.38	0.24	1.36
8,222.00	90.94	134.43	4,855.23	-1,168.80	2,725.11	2,858.79	1.05	0.18	1.03
8,317.00	90.92	137.02	4,853.69	-1,236.81	2,791.42	2,953.03	2.73	-0.02	2.73
8,412.00	89.83	137.48	4,853.07	-1,306.57	2,855.90	3,046.95	1.25	-1.15	0.48
8,507.00	89.80	137.28	4,853.38	-1,376.47	2,920.23	3,140.84	0.21	-0.03	-0.21
8,602.00	89.53	136.81	4,853.93	-1,446.00	2,984.96	3,234.81	0.57	-0.28	-0.49
8,697.00	89.66	136.62	4,854.60	-1,515.15	3,050.10	3,328.86	0.24	0.14	-0.20
8,791.00	89.76	136.62	4,855.08	-1,583.47	3,114.66	3,421.94	0.11	0.11	0.00

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #750H - Slot A1
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 #750H	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)	
8,886.00	89.96	137.02	4,855.31	-1,652.75	3,179.66	3,515.97	0.47	0.21	0.42	
8,981.00	89.90	136.72	4,855.43	-1,722.08	3,244.61	3,609.98	0.32	-0.06	-0.32	
9,076.00	89.97	137.03	4,855.53	-1,791.42	3,309.55	3,704.00	0.33	0.07	0.33	
9,171.00	90.03	136.50	4,855.53	-1,860.63	3,374.63	3,798.03	0.56	0.06	-0.56	
9,266.00	90.20	136.69	4,855.34	-1,929.65	3,439.91	3,892.11	0.27	0.18	0.20	
9,361.00	88.96	135.80	4,856.04	-1,998.26	3,505.60	3,986.27	1.61	-1.31	-0.94	
9,455.00	89.97	134.31	4,856.92	-2,064.79	3,572.00	4,079.66	1.91	1.07	-1.59	
9,550.00	90.30	134.21	4,856.69	-2,131.09	3,640.04	4,174.20	0.36	0.35	-0.11	
9,645.00	90.57	133.71	4,855.97	-2,197.03	3,708.42	4,268.78	0.60	0.28	-0.53	
9,740.00	90.67	133.33	4,854.94	-2,262.45	3,777.30	4,363.43	0.41	0.11	-0.40	
9,834.00	90.31	132.62	4,854.14	-2,326.52	3,846.07	4,457.15	0.85	-0.38	-0.76	
9,929.00	91.18	132.96	4,852.90	-2,391.05	3,915.78	4,551.89	0.98	0.92	0.36	
10,024.00	90.47	135.96	4,851.54	-2,457.57	3,983.57	4,646.38	3.24	-0.75	3.16	
10,119.00	88.76	133.92	4,852.18	-2,524.67	4,050.81	4,740.79	2.80	-1.80	-2.15	
10,214.00	89.16	133.43	4,853.90	-2,590.26	4,119.51	4,835.40	0.67	0.42	-0.52	
10,308.00	90.03	134.21	4,854.56	-2,655.35	4,187.33	4,929.01	1.24	0.93	0.83	
10,403.00	91.45	135.44	4,853.34	-2,722.31	4,254.70	5,023.44	1.98	1.49	1.29	
10,495.00	90.40	136.49	4,851.85	-2,788.44	4,318.64	5,114.66	1.61	-1.14	1.14	
10,587.00	89.96	135.87	4,851.56	-2,854.82	4,382.34	5,205.86	0.83	-0.48	-0.67	
10,679.00	89.97	135.70	4,851.62	-2,920.75	4,446.50	5,297.14	0.19	0.01	-0.18	
10,771.00	89.63	134.87	4,851.94	-2,986.13	4,511.22	5,388.52	0.97	-0.37	-0.90	
10,863.00	89.43	134.25	4,852.69	-3,050.68	4,576.77	5,480.02	0.71	-0.22	-0.67	
10,955.00	89.53	133.82	4,853.53	-3,114.63	4,642.91	5,571.60	0.48	0.11	-0.47	
11,047.00	90.03	133.33	4,853.88	-3,178.04	4,709.56	5,663.25	0.76	0.54	-0.53	
11,139.00	90.23	132.66	4,853.67	-3,240.78	4,776.85	5,754.98	0.76	0.22	-0.73	
11,231.00	89.97	131.52	4,853.51	-3,302.44	4,845.12	5,846.81	1.27	-0.28	-1.24	
11,323.00	90.91	134.50	4,852.81	-3,365.19	4,912.39	5,938.53	3.40	1.02	3.24	
11,415.00	90.60	136.16	4,851.59	-3,430.61	4,977.06	6,029.88	1.84	-0.34	1.80	
11,507.00	90.24	135.15	4,850.92	-3,496.40	5,041.36	6,121.19	1.17	-0.39	-1.10	
11,599.00	90.47	135.01	4,850.35	-3,561.54	5,106.32	6,212.60	0.29	0.25	-0.15	
11,690.00	90.04	134.38	4,849.95	-3,625.55	5,171.01	6,303.08	0.84	-0.47	-0.69	
11,782.00	89.97	133.94	4,849.94	-3,689.64	5,237.01	6,394.65	0.48	-0.08	-0.48	
11,874.00	90.37	133.63	4,849.66	-3,753.30	5,303.43	6,486.28	0.55	0.43	-0.34	
11,966.00	90.87	133.65	4,848.67	-3,816.79	5,370.00	6,577.92	0.54	0.54	0.02	
12,057.00	90.87	132.52	4,847.29	-3,878.94	5,436.45	6,668.63	1.24	0.00	-1.24	
12,149.00	90.20	131.43	4,846.43	-3,940.46	5,504.85	6,760.46	1.39	-0.73	-1.18	
12,240.00	91.04	134.68	4,845.44	-4,002.58	5,571.33	6,851.17	3.69	0.92	3.57	
12,332.00	90.20	134.05	4,844.45	-4,066.90	5,637.09	6,942.70	1.14	-0.91	-0.68	
12,423.00	90.44	136.08	4,843.94	-4,131.32	5,701.36	7,033.12	2.25	0.26	2.23	
12,515.00	90.71	135.79	4,843.02	-4,197.42	5,765.34	7,124.36	0.43	0.29	-0.32	
12,607.00	90.84	135.54	4,841.77	-4,263.22	5,829.63	7,215.66	0.31	0.14	-0.27	
12,698.00	90.57	134.88	4,840.65	-4,327.80	5,893.74	7,306.05	0.78	-0.30	-0.73	
12,790.00	90.37	134.42	4,839.90	-4,392.45	5,959.18	7,397.53	0.55	-0.22	-0.50	
12,882.00	89.80	137.24	4,839.76	-4,458.43	6,023.28	7,488.79	3.13	-0.62	3.07	

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #750H - Slot A1
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 #750H	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)
12,973.00	89.90	136.68	4,840.00	-4,524.94	6,085.39	7,578.83	0.63	0.11	-0.62
13,065.00	90.47	136.55	4,839.70	-4,591.80	6,148.58	7,669.93	0.64	0.62	-0.14
13,157.00	90.84	136.26	4,838.65	-4,658.43	6,212.02	7,761.07	0.51	0.40	-0.32
13,248.00	90.54	135.63	4,837.55	-4,723.82	6,275.29	7,851.32	0.77	-0.33	-0.69
13,339.00	90.67	134.60	4,836.59	-4,788.29	6,339.50	7,941.73	1.14	0.14	-1.13
13,431.00	90.74	134.14	4,835.46	-4,852.62	6,405.26	8,033.26	0.51	0.08	-0.50
13,523.00	91.11	133.44	4,833.98	-4,916.28	6,471.67	8,124.87	0.86	0.40	-0.76
13,614.00	91.04	133.07	4,832.27	-4,978.62	6,537.93	8,215.56	0.41	-0.08	-0.41
13,706.00	91.21	135.73	4,830.46	-5,042.97	6,603.64	8,307.06	2.90	0.18	2.89
13,798.00	91.01	135.33	4,828.68	-5,108.61	6,668.08	8,398.37	0.49	-0.22	-0.43
13,890.00	89.06	136.28	4,828.62	-5,174.57	6,732.21	8,489.64	2.36	-2.12	1.03
13,981.00	89.76	136.01	4,829.56	-5,240.19	6,795.25	8,579.85	0.82	0.77	-0.30
14,073.00	91.11	136.44	4,828.86	-5,306.61	6,858.90	8,671.03	1.54	1.47	0.47
14,168.00	91.04	135.91	4,827.08	-5,375.14	6,924.67	8,765.19	0.56	-0.07	-0.56
14,263.00	90.94	135.47	4,825.44	-5,443.11	6,991.02	8,859.45	0.47	-0.11	-0.46
14,358.00	91.11	135.00	4,823.74	-5,510.55	7,057.91	8,953.80	0.53	0.18	-0.49
14,453.00	91.38	134.62	4,821.68	-5,577.48	7,125.29	9,048.22	0.49	0.28	-0.40
14,547.00	89.23	136.60	4,821.17	-5,644.65	7,191.04	9,141.51	3.11	-2.29	2.11
14,642.00	89.80	136.35	4,821.98	-5,713.53	7,256.46	9,235.61	0.66	0.60	-0.26
14,737.00	90.34	136.41	4,821.86	-5,782.30	7,322.00	9,329.74	0.57	0.57	0.06
14,832.00	90.17	135.93	4,821.44	-5,850.83	7,387.79	9,423.92	0.54	-0.18	-0.51
14,926.00	90.27	135.33	4,821.08	-5,918.03	7,453.52	9,517.21	0.65	0.11	-0.64
15,021.00	90.77	134.96	4,820.22	-5,985.37	7,520.52	9,611.59	0.65	0.53	-0.39
15,116.00	90.87	134.47	4,818.86	-6,052.20	7,588.02	9,706.04	0.53	0.11	-0.52
15,127.00	91.08	134.36	4,818.67	-6,059.90	7,595.88	9,716.98	2.15	1.88	-1.04
RSI@ 15127' MD, 1896507.23 N, 535034.51 E									
15,142.00	91.36	134.20	4,818.35	-6,070.37	7,606.62	9,731.90	2.15	1.88	-1.04
Last Survey Lateral									
15,205.00	91.36	134.20	4,816.86	-6,114.28	7,651.77	9,794.59	0.00	0.00	0.00
BP@ 15205' MD, 1896452.9 N, 535090.45 E - BHL #750H									

Scientific Drilling Int.

Survey Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well W Lybrook UT #750H - Slot A1
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 #750H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Start 60 Tan #750H	0.00	0.00	4,705.72	1,035.16	524.18	1,903,595.50	527,956.01	36° 13' 54.133 N	107° 44' 18.757 W
- actual wellpath misses target center by 15.45usft at 5076.10usft MD (4716.43 TVD, 1033.03 N, 513.25 E)									
- Point									
End 60 Tan #750H	0.00	0.00	4,755.71	973.85	585.34	1,903,534.24	528,017.23	36° 13' 53.527 N	107° 44' 18.011 W
- actual wellpath misses target center by 13.74usft at 5177.12usft MD (4764.71 TVD, 970.03 N, 575.68 E)									
- Point									
BHL #750H	0.00	0.00	4,790.99	-6,114.06	7,656.18	1,896,453.12	535,094.86	36° 12' 43.419 N	107° 42' 51.725 W
- actual wellpath misses target center by 26.24usft at 15205.00usft MD (4816.86 TVD, -6114.28 N, 7651.77 E)									
- Point									
POE #750H	0.00	0.00	4,840.99	746.17	812.47	1,903,306.78	528,244.57	36° 13' 51.275 N	107° 44' 15.238 W
- actual wellpath misses target center by 12.79usft at 5512.54usft MD (4837.47 TVD, 737.93 N, 803.34 E)									
- Point									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
445.00	444.92	-2.94	-7.29	First Survey Int.
4,379.00	4,144.47	1,212.32	220.49	Last Survey Int.
4,410.00	4,174.45	1,215.66	227.63	First Survey Curve
5,458.00	4,834.07	777.81	766.30	Last Survey Curve
5,510.00	4,837.35	739.80	801.64	7" Casing@ 5510' MD, 1903300.41 N, 528233.75 E
5,512.54	4,837.47	737.93	803.34	POE@ 5512.54' MD, 1903298.53 N, 528235.45 E
5,567.00	4,839.08	697.20	839.45	First Survey Lateral
15,127.00	4,818.67	-6,059.90	7,595.88	RSI@ 15127' MD, 1896507.23 N, 535034.51 E
15,142.00	4,818.35	-6,070.37	7,606.62	Last Survey Lateral
15,205.00	4,816.86	-6,114.28	7,651.77	BP@ 15205' MD, 1896452.9 N, 535090.45 E

Checked By: _____	Approved By: _____	Date: _____
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W Lybrook UT #750H
T23N R9W
Northing: 1902559.83
Easting: 527432.82
Actual

KB @ 6721.00usft (Cyclone 32)
GL @ 6700.00



Azimuths to True North
Magnetic North: 9.05°
Magnetic Field
Strength: 49691.2snT
Dip Angle: 62.87°
Date: 3/20/2017
Model: HDGM

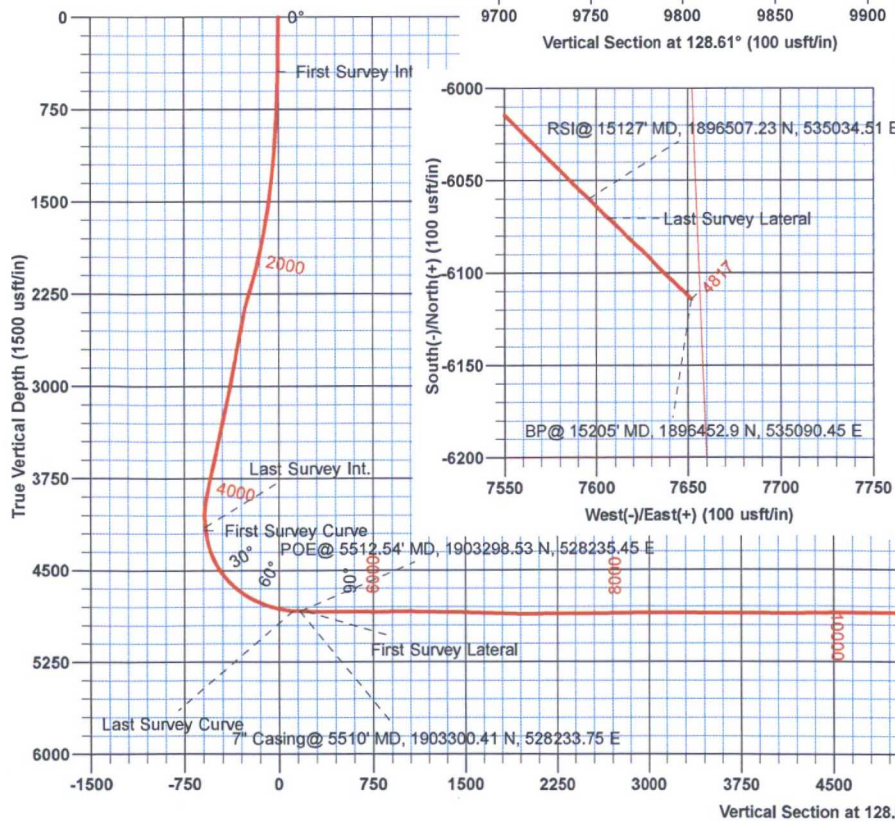
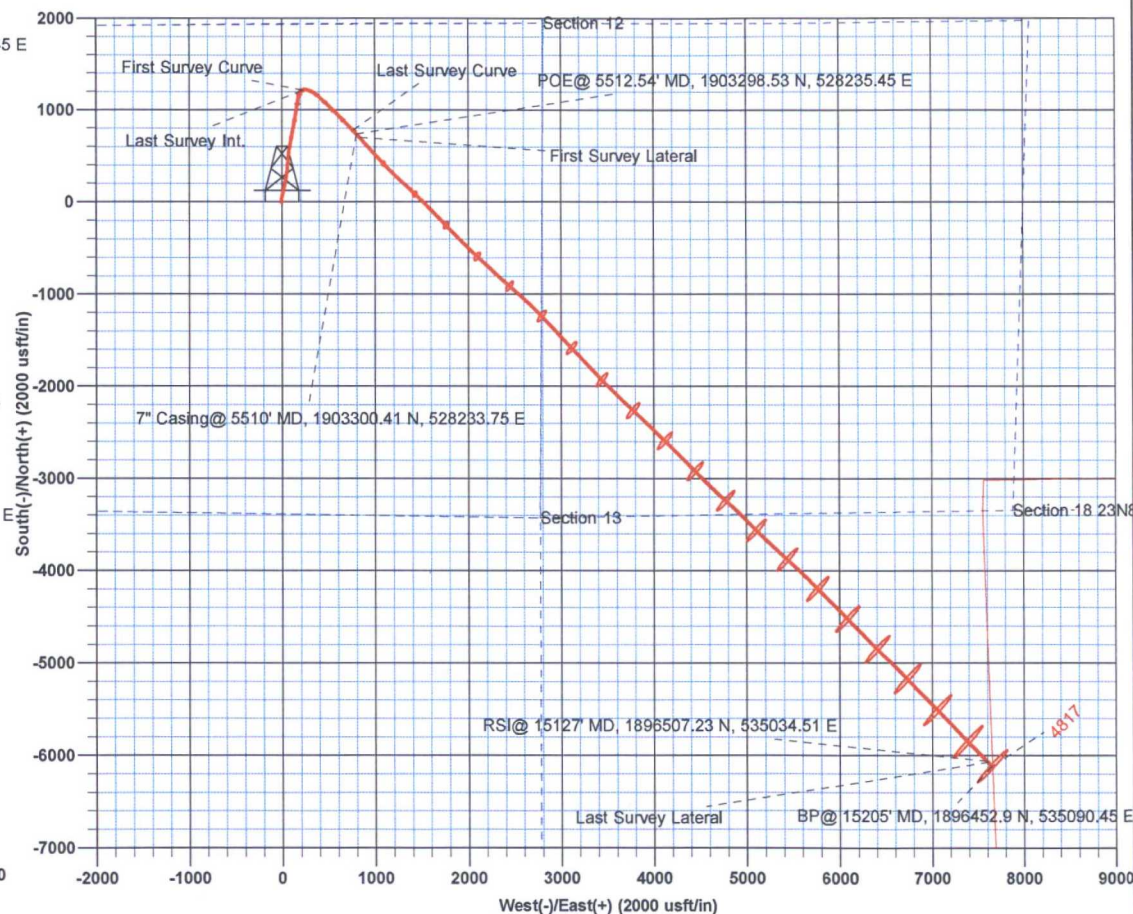
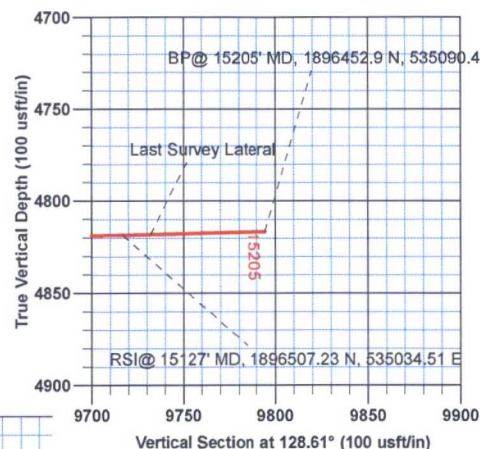
WELL DETAILS W Lybrook UT #750H

Ground Level: 6700.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1902559.83 527432.82 36° 13' 43.896 N 107° 44' 25.156 W

ANNOTATIONS

TVD	MD	Annotation
444.92	445.00	First Survey Int.
4144.47	4379.00	Last Survey Int.
4174.45	4410.00	First Survey Curve
4834.07	5458.00	Last Survey Curve
4837.35	5510.00	Casing@ 5510' MD, 1903300.41 N, 528233.75 E
4837.47	5512.54	POE@ 5512.54' MD, 1903298.53 N, 528235.45 E
4839.08	5567.00	First Survey Lateral
4818.67	15127.00	RSI@ 15127' MD, 1896507.23 N, 535034.51 E
4818.35	15142.00	Last Survey Lateral
4816.86	15205.00	BP@ 15205' MD, 1896452.9 N, 535090.45 E

CONFIDENTIAL



Bailey Fellows
9:51, May 12 2017

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