

3335 Pollok Drive
Conroe, Texas 77303

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www.msenergyservices.com

January 9, 2013

The Railroad Commission of Texas
Oil & Gas Division
PO Drawer 12967
Capital Station
Austin, Texas 78711-2967

Attn: Pam Johns

RE: EOG Resources, Inc.
University 43, Well #0906H (Permit No. 734094)
Survey: UL / Abstract Not Available
Field: Lin (Wolfcamp)
Irion County, TX
API Number: 42-235-35002

Dear Ms. Johns:

Please find enclosed the original and one copy of the survey performed on the above referenced well by MS Energy Services; **RRC Operator No. 592474**. Other information required by your office is as follows:

<u>Name of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Date Performed</u>	<u>Type of Survey</u>
Joshua Smith	Original	Surface – 734'	11-29-12	Rate Gyro

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Larae Townsend
MS Survey

MS Directional

MS Guidance

MS Survey

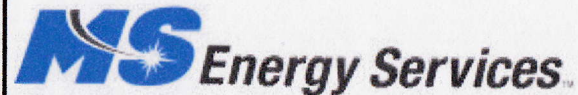
MS Wireline

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 734094	DATE PERMIT ISSUED OR AMENDED (AMENDED) Jun 27, 2012	DISTRICT * 7C	
API NUMBER 42-235-35002	FORM W-1 RECEIVED Jun 20, 2012	COUNTY IRION	
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 4164.8	
OPERATOR EOG RESOURCES, INC.		253162 NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (325) 657-7450	
LEASE NAME UNIVERSITY 43		WELL NUMBER 0906H	
LOCATION 3.8 miles W direction from BARNHART		TOTAL DEPTH 6750	
Section, Block and/or Survey SECTION ◀ 9 BLOCK ◀ 43 ABSTRACT ◀ SURVEY ◀ UL			
DISTANCE TO SURVEY LINES 2550 ft. NORTH 2594 ft. EAST		DISTANCE TO NEAREST LEASE LINE 100 ft.	
DISTANCE TO LEASE LINES 7850 ft. NORTH 2910 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below	
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *			
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE
---	---	---	---
LIN (WOLFCAMP)	4164.80	6,730	0906H
UNIVERSITY 43	100	40	7C
WELLBORE PROFILE(s) FOR FIELD: Horizontal			
RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 7850.0 F NORTH L 2910.0 F WEST L Terminus Location BH County: IRION Section: 12 Block: 43 Survey: UL Lease Lines: 100.0 F SOUTH L 2910.0 F WEST L Survey Lines: 100.0 F SOUTH L 2910.0 F WEST L			
<p align="center">THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS</p> <p>This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.</p>			

EDNA FOR SPUD 1730
SOB# 13117
Abstract:



Job Number: SVMO-120100
 Company: EOG Resources, Inc.
 Lease/Well: University 43, Well #0906H
 Location: Irion County, TX
 Rig Name: Production
 RKB: 0'
 G.L. or M.S.L.: GL

State/Country: Texas/USA
 Declination: 6.70°
 Grid: East To Grid North
 File name: F:\SURVEY\2012SU~1\EOG\MO\UNIVER~1\430906H.SVY
 Date/Time: 29-Nov-12 / 15:05
 Curve Name: Surface - 734' M.D. (Rate Gyro)

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.99	33.61	100.00	.72	.48	.72	.86	33.61	.99
200.00	1.07	32.03	199.98	2.23	1.45	2.23	2.66	33.06	.08
300.00	1.65	47.36	299.95	4.00	3.01	4.00	5.00	36.94	.68
400.00	1.41	40.55	399.91	5.91	4.86	5.91	7.65	39.47	.30
500.00	1.43	37.56	499.88	7.83	6.43	7.83	10.13	39.37	.08
600.00	1.02	35.61	599.86	9.54	7.70	9.54	12.27	38.91	.41
700.00	.78	39.38	699.85	10.79	8.65	10.79	13.83	38.72	.25
Last Survey Depth Recorded									
734.00	.81	70.93	733.85	11.05	9.03	11.05	14.27	39.25	1.27



LEASE NAME & WELL NO.:
UNIVERSITY 43 #0906H

TOPOGRAPHY & VEGETATION:
NATURAL MESQUITE PASTURE

NEAREST TOWN IN COUNTY:
±3.8 MILES WEST OF BARNHART, TEXAS

DESCRIPTION:
SHL: SECTION 9, BLOCK 43, UNIVERSITY LAND SURVEY
THL: SECTION 12, BLOCK 43, UNIVERSITY LAND SURVEY
IRION COUNTY, TEXAS



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us. This plat does not in any way represent a "Boundary Survey", and does not comply with correct T.B.P.L.S. Minimum Standards of Procedures for Boundary Surveys.

CERTIFICATION:



William J. Keating
Texas Reg. No. 5041

I, William J. Keating, a Registered Professional Land Surveyor, and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein. This plat is for Texas Railroad Commission permitting only.

TOPOGRAPHIC
SURVEYING • MAPPING • GIS • GPS

2903 N. BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 • (800) 767-1653 • FAX: (432) 682-1743

Surface Hole Location:

2550' FNL & 2594' FEL
SHL Ground Elevation: 2633'
X = 1716522 Y = 531592
LAT.: N 31.1251767 LONG.: W 101.2393314
NAD 83 TX-C ZONE
X = 2012989 Y = 10374170
LAT.: N 31.1253361 LONG.: W 101.2397229

Terminus Hole Location:

100' FSL & 2910' FWL (SEC. 12)
X = 1716499 Y = 523607
LAT.: N 31.1032235 LONG.: W 101.2391981
NAD 83 TX-C ZONE
X = 2012966 Y = 10366185
LAT.: N 31.1033837 LONG.: W 101.2395894

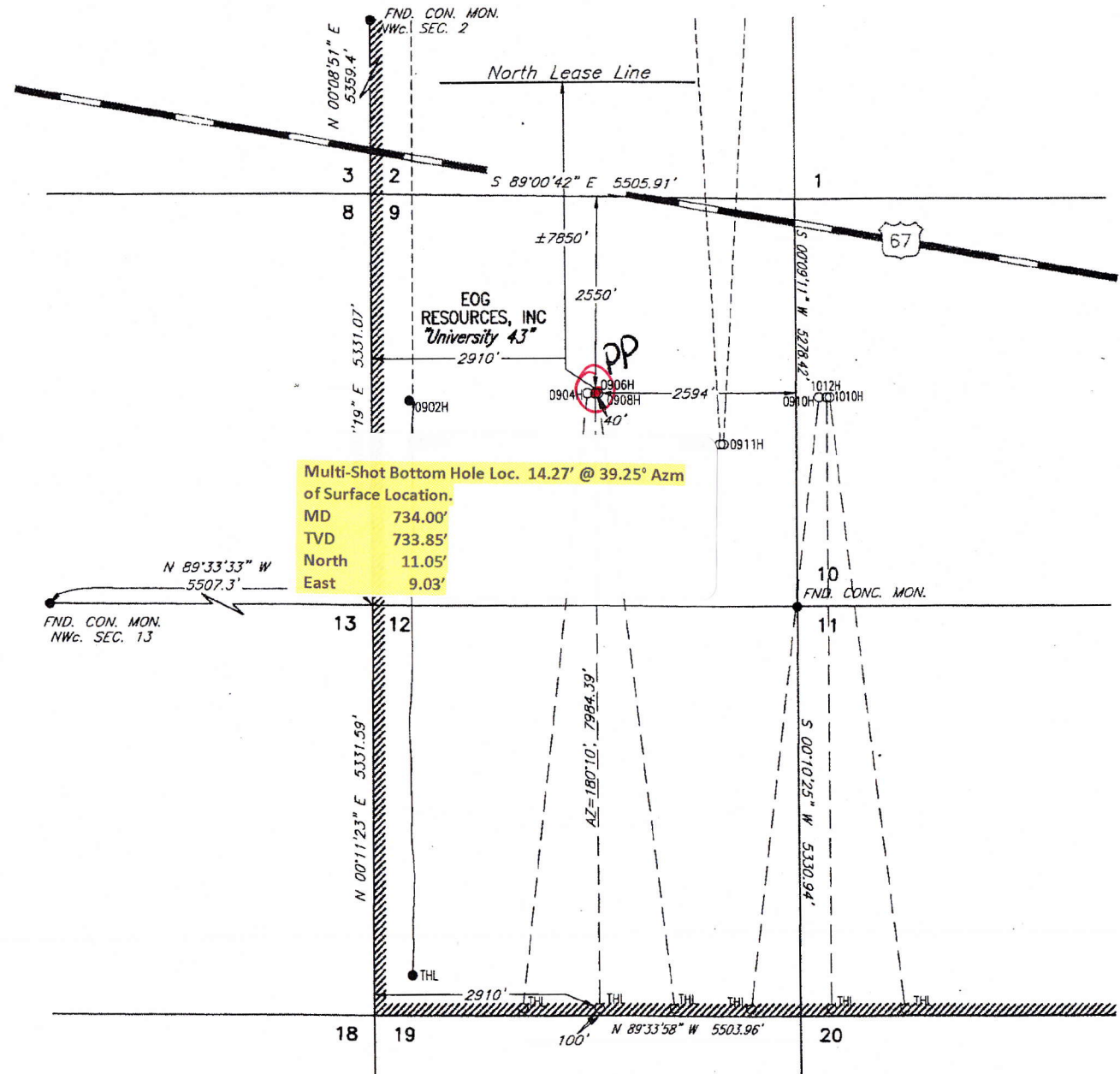
All Coordinates are in NAD 27 TX-C Zone unless otherwise noted.

LEGEND:

— x — Fence
— e — Powerline
— w — Water Line
— p — Pipeline
===== Lease Road

ORIGINAL DOC. SIZE: 8.5"x14"

SCALE: 1" = 1000'
DATE: MAY 29, 2012
COGO: 518-124590
LO_UNIVERSITY43_0906H_ALT2
DRAWN BY: ACP



Surveyor Certification Form

Survey Company: MS ENERGY SERVICES
Surveyors Name: JOSHUA SMITH
Survey Job Type: RATE GYRO
Customer: EOG RESOURCES
Well: UNIVERSITY 43 0906H
API: 42-235-35002
Surveyed from: SURFACE TO A DEPTH OF 734' MD
Survey Run Date: 11-29-12 to 11-29-12
Surface Location: IRION COUNTY, TX

I certify that the data is true, correct, and complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MS Energy Services.

Joshua Smith

Digitally signed by Joshua Smith
DN: cn=Joshua Smith, o=MS Energy Services, ou=MS
Survey, email=josmith@msenergyservices.com, c=US
Date: 2013.01.02 15:47:41 -06'00'



Sequitur
ENERGY RESOURCES LLC

Sequitur Energy

Irion County, TX (NAD27 TC)

University 43

#0906H

API: 42-235-35002

OH - WO#2404000046

Design: As-Drilled Surveys

Standard Survey Report

15 November, 2016



Company:	Sequitur Energy	Local Co-ordinate Reference:	Well #0906H
Project:	Irion County, TX (NAD27 TC)	TVD Reference:	KB @ 2659.20usft (H & P 499)
Site:	University 43	MD Reference:	KB @ 2659.20usft (H & P 499)
Well:	#0906H	North Reference:	Grid
Wellbore:	OH - WO#2404000046	Survey Calculation Method:	Minimum Curvature
Design:	As-Drilled Surveys	Database:	EDM 5000.1 Single User Db

Project	Irion County, TX (NAD27 TC)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		Using geodetic scale factor

Site	University 43		
Site Position:		Northing:	531,592.00 usft
From:	Map	Easting:	1,716,522.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	31° 7' 30.637 N
		Longitude:	101° 14' 21.593 W
		Grid Convergence:	-0.47 °

Well	#0906H		
Well Position	+N/-S	0.00 usft	Northing: 531,592.00 usft
	+E/-W	0.00 usft	Easting: 1,716,522.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	31° 7' 30.637 N
		Longitude:	101° 14' 21.593 W
		Ground Level:	2,633.00 usft

Wellbore	OH - WO#2404000046				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/7/2016	5.83	59.41	47,575

Design	As-Drilled Surveys				
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	180.17	

Survey Program	Date	11/15/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
121.20	755.20	MS Gyro Survey (OH - WO#2404000046)	GYRO-NS	Gyrocompass Gyro	
864.00	6,134.00	Vertical MWD Surveys (OH - WO#240400)	MWD	MWD - Standard	
6,181.00	14,572.00	Lateral MWD Surveys (OH - WO#2404000)	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)	
755.20	0.81	70.93	755.04	11.20	9.13	-11.23	1.27	0.09	92.79	
755.20' MD, Tie-on to MS Gyro Survey - 21.2' KB correction at tie-on for H & P 499 Rig										
864.00	1.80	83.90	863.82	11.64	11.56	-11.67	0.94	0.91	11.92	
864' MD First Basic MWD Survey										
1,048.00	1.90	82.60	1,047.72	12.34	17.45	-12.39	0.06	0.05	-0.71	
1,236.00	1.50	100.80	1,235.64	12.28	22.96	-12.35	0.35	-0.21	9.68	
1,425.00	1.20	301.00	1,424.62	12.83	23.70	-12.90	1.41	-0.16	-84.55	
1,614.00	1.40	297.00	1,613.57	14.90	19.94	-14.96	0.12	0.11	-2.12	

Company:	Sequitur Energy	Local Co-ordinate Reference:	Well #0906H
Project:	Irion County, TX (NAD27 TC)	TVD Reference:	KB @ 2659.20usft (H & P 499)
Site:	University 43	MD Reference:	KB @ 2659.20usft (H & P 499)
Well:	#0906H	North Reference:	Grid
Wellbore:	OH - WO#2404000046	Survey Calculation Method:	Minimum Curvature
Design:	As-Drilled Surveys	Database:	EDM 5000.1 Single User Db

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)
1,802.00	2.00	253.60	1,801.49	15.02	14.75	-15.06	0.73	0.32	-23.09
1,990.00	1.80	240.90	1,989.39	12.65	9.02	-12.68	0.25	-0.11	-6.76
2,179.00	1.50	230.90	2,178.31	9.65	4.51	-9.66	0.22	-0.16	-5.29
2,367.00	1.10	211.30	2,366.26	6.56	1.66	-6.56	0.32	-0.21	-10.43
2,556.00	0.70	185.50	2,555.24	3.86	0.61	-3.86	0.30	-0.21	-13.65
2,745.00	0.60	132.00	2,744.23	2.05	1.23	-2.05	0.31	-0.05	-28.31
2,933.00	0.90	115.70	2,932.22	0.75	3.29	-0.76	0.19	0.16	-8.67
3,122.00	0.50	118.60	3,121.20	-0.29	5.36	0.28	0.21	-0.21	1.53
3,311.00	0.80	274.10	3,310.20	-0.59	4.76	0.58	0.67	0.16	82.28
3,499.00	2.70	285.70	3,498.10	0.70	-0.81	-0.70	1.02	1.01	6.17
3,688.00	0.90	277.90	3,687.00	2.11	-6.56	-2.09	0.96	-0.95	-4.13
3,876.00	1.00	297.20	3,874.97	3.06	-9.49	-3.03	0.18	0.05	10.27
4,065.00	0.40	95.60	4,063.97	3.75	-10.30	-3.72	0.73	-0.32	83.81
4,254.00	1.10	106.70	4,252.95	3.17	-7.90	-3.14	0.38	0.37	5.87
4,442.00	1.20	109.30	4,440.91	2.00	-4.32	-1.98	0.06	0.05	1.38
4,631.00	1.10	121.80	4,629.87	0.39	-0.91	-0.38	0.14	-0.05	6.61
4,819.00	0.90	120.40	4,817.84	-1.31	1.90	1.31	0.11	-0.11	-0.74
5,008.00	0.50	177.40	5,006.83	-2.89	3.22	2.88	0.40	-0.21	30.16
5,197.00	0.40	193.50	5,195.83	-4.35	3.10	4.34	0.08	-0.05	8.52
5,386.00	0.50	146.30	5,384.82	-5.68	3.41	5.67	0.20	0.05	-24.97
5,574.00	0.70	124.90	5,572.81	-7.02	4.80	7.00	0.16	0.11	-11.38
5,763.00	0.70	102.20	5,761.80	-7.92	6.88	7.90	0.15	0.00	-12.01
5,952.00	0.70	94.90	5,950.78	-8.27	9.16	8.24	0.05	0.00	-3.86
6,134.00	0.80	112.50	6,132.77	-8.85	11.44	8.81	0.14	0.05	9.67
6,181.00	1.20	160.40	6,179.76	-9.44	11.91	9.40	1.89	0.85	101.91
6,228.00	7.60	194.00	6,226.60	-12.92	11.32	12.89	14.11	13.62	71.49
6,275.00	15.60	194.30	6,272.60	-22.07	9.00	22.05	17.02	17.02	0.64
6,322.00	21.30	195.50	6,317.17	-36.44	5.16	36.42	12.15	12.13	2.55
6,370.00	22.50	200.60	6,361.71	-53.44	-0.41	53.44	4.68	2.50	10.63
6,417.00	23.50	200.60	6,404.97	-70.63	-6.87	70.65	2.13	2.13	0.00
6,464.00	27.70	194.10	6,447.36	-90.00	-12.83	90.04	10.74	8.94	-13.83
6,511.00	30.80	185.00	6,488.38	-112.60	-16.54	112.65	11.52	6.60	-19.36
6,558.00	34.00	177.00	6,528.08	-137.73	-16.90	137.78	11.37	6.81	-17.02
6,605.00	38.50	179.60	6,565.97	-165.50	-16.11	165.55	10.12	9.57	5.53
6,653.00	43.30	185.60	6,602.26	-196.85	-17.62	196.90	12.91	10.00	12.50
6,700.00	48.00	183.60	6,635.10	-230.34	-20.29	230.40	10.45	10.00	-4.26
6,747.00	51.90	180.90	6,665.34	-266.28	-21.67	266.34	9.39	8.30	-5.74
6,794.00	55.60	178.00	6,693.14	-304.17	-21.29	304.23	9.31	7.87	-6.17
6,841.00	61.80	177.50	6,717.54	-344.27	-19.71	344.33	13.22	13.19	-1.06
6,888.00	69.20	176.70	6,737.02	-386.96	-17.54	387.01	15.82	15.74	-1.70
6,935.00	76.90	176.20	6,750.71	-431.80	-14.75	431.84	16.41	16.38	-1.06
6,982.00	76.80	175.30	6,761.40	-477.44	-11.36	477.47	1.88	-0.21	-1.91
7,030.00	79.00	177.60	6,771.47	-524.27	-8.46	524.30	6.55	4.58	4.79

Company:	Sequitur Energy	Local Co-ordinate Reference:	Well #0906H
Project:	Irion County, TX (NAD27 TC)	TVD Reference:	KB @ 2659.20usft (H & P 499)
Site:	University 43	MD Reference:	KB @ 2659.20usft (H & P 499)
Well:	#0906H	North Reference:	Grid
Wellbore:	OH - WO#2404000046	Survey Calculation Method:	Minimum Curvature
Design:	As-Drilled Surveys	Database:	EDM 5000.1 Single User Db

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)
7,070.00	84.00	180.60	6,777.38	-563.81	-7.84	563.83	14.53	12.50	7.50
7,079.00	84.67	180.50	6,778.27	-572.77	-7.93	572.79	7.54	7.47	-1.07
FTP @ 7079' MD, 7511' FSLL & 2907' FWLL									
7,145.00	89.60	179.80	6,781.56	-638.66	-8.10	638.69	7.54	7.47	-1.07
7,239.00	90.80	181.80	6,781.23	-732.65	-9.41	732.67	2.48	1.28	2.13
7,334.00	90.20	185.40	6,780.40	-827.44	-15.38	827.48	3.84	-0.63	3.79
7,428.00	89.70	188.30	6,780.49	-920.76	-26.59	920.83	3.13	-0.53	3.09
7,522.00	90.50	187.50	6,780.32	-1,013.87	-39.51	1,013.98	1.20	0.85	-0.85
7,616.00	89.80	177.70	6,780.08	-1,107.65	-43.77	1,107.78	10.45	-0.74	-10.43
7,711.00	90.20	176.60	6,780.08	-1,202.54	-39.04	1,202.65	1.23	0.42	-1.16
7,805.00	90.30	180.20	6,779.67	-1,296.48	-36.42	1,296.58	3.83	0.11	3.83
7,899.00	90.60	180.80	6,778.93	-1,390.48	-37.24	1,390.58	0.71	0.32	0.64
7,993.00	90.70	179.30	6,777.86	-1,484.47	-37.32	1,484.57	1.60	0.11	-1.60
8,088.00	90.30	176.80	6,777.03	-1,579.40	-34.09	1,579.49	2.66	-0.42	-2.63
8,182.00	89.80	173.50	6,776.95	-1,673.05	-26.14	1,673.12	3.55	-0.53	-3.51
8,276.00	90.10	172.70	6,777.03	-1,766.37	-14.85	1,766.40	0.91	0.32	-0.85
8,371.00	90.40	174.80	6,776.62	-1,860.80	-4.51	1,860.80	2.23	0.32	2.21
8,465.00	89.40	174.40	6,776.78	-1,954.38	4.34	1,954.36	1.15	-1.06	-0.43
8,560.00	89.50	177.60	6,777.69	-2,049.13	10.96	2,049.09	3.37	0.11	3.37
8,654.00	90.80	179.10	6,777.45	-2,143.09	13.67	2,143.04	2.11	1.38	1.60
8,748.00	90.90	177.70	6,776.05	-2,237.04	16.29	2,236.98	1.49	0.11	-1.49
8,843.00	89.80	179.00	6,775.47	-2,331.99	19.03	2,331.93	1.79	-1.16	1.37
8,937.00	89.70	181.10	6,775.88	-2,425.99	18.95	2,425.92	2.24	-0.11	2.23
9,031.00	89.60	181.20	6,776.46	-2,519.97	17.06	2,519.90	0.15	-0.11	0.11
9,122.00	89.60	180.60	6,777.09	-2,610.95	15.63	2,610.89	0.66	0.00	-0.66
9,212.00	90.00	179.20	6,777.41	-2,700.95	15.79	2,700.89	1.62	0.44	-1.56
9,302.00	89.70	181.30	6,777.64	-2,790.94	15.40	2,790.88	2.36	-0.33	2.33
9,392.00	90.20	184.60	6,777.72	-2,880.81	10.77	2,880.77	3.71	0.56	3.67
9,483.00	90.00	184.30	6,777.56	-2,971.54	3.70	2,971.51	0.40	-0.22	-0.33
9,573.00	89.40	178.90	6,778.03	-3,061.47	1.19	3,061.45	6.04	-0.67	-6.00
9,663.00	88.60	180.30	6,779.60	-3,151.45	1.82	3,151.43	1.79	-0.89	1.56
9,754.00	88.80	180.80	6,781.67	-3,242.42	0.95	3,242.40	0.59	0.22	0.55
9,844.00	90.60	182.50	6,782.14	-3,332.37	-1.64	3,332.36	2.75	2.00	1.89
9,934.00	89.10	180.60	6,782.38	-3,422.33	-4.08	3,422.33	2.69	-1.67	-2.11
10,028.00	91.10	182.40	6,782.21	-3,516.29	-6.54	3,516.30	2.86	2.13	1.91
10,122.00	91.00	181.90	6,780.49	-3,610.21	-10.06	3,610.22	0.54	-0.11	-0.53
10,216.00	91.80	181.70	6,778.19	-3,704.14	-13.02	3,704.16	0.88	0.85	-0.21
10,311.00	92.10	182.20	6,774.96	-3,799.02	-16.25	3,799.06	0.61	0.32	0.53
10,408.00	91.80	182.70	6,771.66	-3,895.88	-20.39	3,895.92	0.60	-0.31	0.52
10,498.00	91.20	182.80	6,769.30	-3,985.74	-24.71	3,985.80	0.68	-0.67	0.11
10,592.00	92.50	182.80	6,766.27	-4,079.58	-29.30	4,079.65	1.38	1.38	0.00
10,686.00	92.00	182.60	6,762.58	-4,173.40	-33.72	4,173.49	0.57	-0.53	-0.21
10,781.00	90.90	182.60	6,760.17	-4,268.27	-38.03	4,268.37	1.16	-1.16	0.00
10,875.00	90.60	181.20	6,758.94	-4,362.21	-41.15	4,362.32	1.52	-0.32	-1.49

Company:	Sequitur Energy	Local Co-ordinate Reference:	Well #0906H
Project:	Irion County, TX (NAD27 TC)	TVD Reference:	KB @ 2659.20usft (H & P 499)
Site:	University 43	MD Reference:	KB @ 2659.20usft (H & P 499)
Well:	#0906H	North Reference:	Grid
Wellbore:	OH - WO#2404000046	Survey Calculation Method:	Minimum Curvature
Design:	As-Drilled Surveys	Database:	EDM 5000.1 Single User Db

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)
10,970.00	91.10	179.70	6,757.53	-4,457.20	-41.89	4,457.30	1.66	0.53	-1.58
11,064.00	89.90	178.70	6,756.71	-4,551.18	-40.58	4,551.28	1.66	-1.28	-1.06
11,158.00	89.30	178.40	6,757.37	-4,645.15	-38.20	4,645.24	0.71	-0.64	-0.32
11,252.00	88.90	179.30	6,758.85	-4,739.12	-36.31	4,739.20	1.05	-0.43	0.96
11,347.00	89.10	179.80	6,760.50	-4,834.10	-35.57	4,834.18	0.57	0.21	0.53
11,441.00	88.90	179.90	6,762.15	-4,928.08	-35.32	4,928.17	0.24	-0.21	0.11
11,535.00	90.30	180.70	6,762.80	-5,022.08	-35.81	5,022.16	1.72	1.49	0.85
11,629.00	90.40	180.50	6,762.23	-5,116.07	-36.80	5,116.16	0.24	0.11	-0.21
11,724.00	90.40	181.40	6,761.56	-5,211.05	-38.37	5,211.14	0.95	0.00	0.95
11,818.00	91.60	180.20	6,759.92	-5,305.03	-39.69	5,305.12	1.81	1.28	-1.28
11,912.00	91.60	180.40	6,757.30	-5,398.99	-40.18	5,399.08	0.21	0.00	0.21
12,007.00	91.10	179.80	6,755.06	-5,493.96	-40.34	5,494.06	0.82	-0.53	-0.63
12,101.00	90.10	179.20	6,754.08	-5,587.95	-39.52	5,588.04	1.24	-1.06	-0.64
12,195.00	89.20	179.10	6,754.65	-5,681.94	-38.13	5,682.03	0.96	-0.96	-0.11
12,290.00	89.80	179.90	6,755.48	-5,776.93	-37.30	5,777.01	1.05	0.63	0.84
12,384.00	90.80	182.50	6,754.99	-5,870.90	-39.27	5,870.99	2.96	1.06	2.77
12,478.00	90.70	183.70	6,753.76	-5,964.75	-44.35	5,964.86	1.28	-0.11	1.28
12,572.00	90.50	182.00	6,752.77	-6,058.63	-49.02	6,058.74	1.82	-0.21	-1.81
12,667.00	90.50	179.20	6,751.94	-6,153.61	-50.02	6,153.73	2.95	0.00	-2.95
12,762.00	90.70	181.70	6,750.95	-6,248.59	-50.77	6,248.72	2.64	0.21	2.63
12,856.00	90.60	182.50	6,749.88	-6,342.52	-54.21	6,342.66	0.86	-0.11	0.85
12,950.00	89.60	180.90	6,749.72	-6,436.48	-57.00	6,436.62	2.01	-1.06	-1.70
13,045.00	88.30	178.10	6,751.46	-6,531.45	-56.17	6,531.58	3.25	-1.37	-2.95
13,139.00	87.80	178.00	6,754.66	-6,625.34	-52.97	6,625.46	0.54	-0.53	-0.11
13,233.00	88.40	178.40	6,757.77	-6,719.24	-50.02	6,719.36	0.77	0.64	0.43
13,328.00	89.80	179.70	6,759.27	-6,814.21	-48.45	6,814.32	2.01	1.47	1.37
13,422.00	91.70	178.40	6,758.04	-6,908.18	-46.89	6,908.29	2.45	2.02	-1.38
13,517.00	90.40	176.80	6,756.30	-7,003.08	-42.91	7,003.17	2.17	-1.37	-1.68
13,611.00	91.00	180.00	6,755.15	-7,097.02	-40.29	7,097.11	3.46	0.64	3.40
13,705.00	90.50	182.30	6,753.92	-7,190.99	-42.17	7,191.08	2.50	-0.53	2.45
13,800.00	90.90	185.90	6,752.75	-7,285.72	-48.96	7,285.83	3.81	0.42	3.79
13,894.00	90.10	182.60	6,751.93	-7,379.45	-55.93	7,379.58	3.61	-0.85	-3.51
13,988.00	89.50	182.80	6,752.26	-7,473.34	-60.36	7,473.49	0.67	-0.64	0.21
14,082.00	89.30	184.40	6,753.25	-7,567.15	-66.26	7,567.31	1.72	-0.21	1.70
14,176.00	88.20	181.30	6,755.30	-7,660.99	-70.93	7,661.17	3.50	-1.17	-3.30
14,271.00	88.40	179.70	6,758.12	-7,755.95	-71.76	7,756.12	1.70	0.21	-1.68
14,365.00	88.40	180.30	6,760.74	-7,849.91	-71.76	7,850.09	0.64	0.00	0.64
14,459.00	89.50	181.20	6,762.46	-7,943.88	-72.99	7,944.06	1.51	1.17	0.96
14,500.00	90.33	182.29	6,762.52	-7,984.86	-74.24	7,985.05	3.34	2.03	2.66
LTP @ 14500' MD, 100' FSLL & 2861' FWLL									
14,523.00	90.80	182.90	6,762.30	-8,007.84	-75.28	8,008.03	3.34	2.03	2.66
14523' MD Last Basic MWD Survey									
14,572.00	90.80	182.90	6,761.61	-8,056.77	-77.76	8,056.97	0.00	0.00	0.00

Company:	Sequitur Energy	Local Co-ordinate Reference:	Well #0906H
Project:	Irion County, TX (NAD27 TC)	TVD Reference:	KB @ 2659.20usft (H & P 499)
Site:	University 43	MD Reference:	KB @ 2659.20usft (H & P 499)
Well:	#0906H	North Reference:	Grid
Wellbore:	OH - WO#2404000046	Survey Calculation Method:	Minimum Curvature
Design:	As-Drilled Surveys	Database:	EDM 5000.1 Single User Db

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)
PTD @ 14572' MD, 27' FSLL & 2858' FELL									

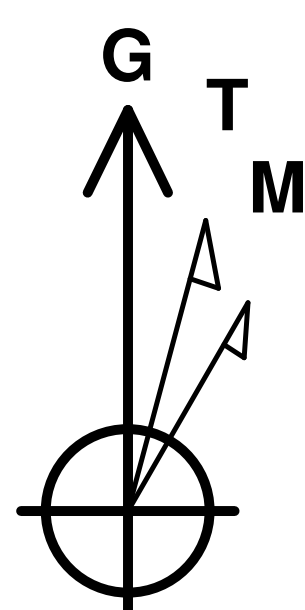
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (Univ 43 #0906H)✓	-90.20	180.16	6,750.67	-8,080.94	-24.00	523,512.00	1,716,498.00	31° 6' 10.659 N	101° 14' 21.112 W
- actual wellpath misses target center by 59.95usft at 14572.00usft MD (6761.61 TVD, -8056.77 N, -77.76 E)									
- Rectangle (sides W100.00 H20.00 D7,507.95)									
LTP (Univ 43 #0906H)✓	0.00	360.00	6,751.00	-7,985.93	-23.00	523,607.00	1,716,499.00	31° 6' 11.600 N	101° 14' 21.109 W
- actual wellpath misses target center by 52.52usft at 14499.49usft MD (6762.53 TVD, -7984.35 N, -74.22 E)									
- Point									
FTP (Univ 43 #0906H)✓	0.00	0.00	6,777.00	-573.07	-2.00	531,019.00	1,716,520.00	31° 7' 24.966 N	101° 14' 21.562 W
- actual wellpath misses target center by 6.07usft at 7079.22usft MD (6778.29 TVD, -572.99 N, -7.93 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
755.20	755.04	11.20	9.13	755.20' MD, Tie-on to MS Gyro Survey
755.20	755.04	11.20	9.13	21.2' KB correction at tie-on for H & P 499 Rig
864.00	863.82	11.64	11.56	864' MD First Basic MWD Survey
7,079.00	6,778.27	-572.77	-7.93	FTP @ 7079' MD, 7511' FSLL & 2907' FWLL
14,500.00	6,762.52	-7,984.86	-74.24	LTP @ 14500' MD, 100' FSLL & 2861' FWLL
14,523.00	6,762.30	-8,007.84	-75.28	14523' MD Last Basic MWD Survey
14,572.00	6,761.61	-8,056.77	-77.76	PTD @ 14572' MD, 27' FSLL & 2858' FELL

Checked By: _____	Approved By: _____	Date: _____
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Project: Irion County, TX (NAD27 TC)
Site: University 43
Well: #0906H
Wellbore: OH - WO#2404000046
Design: As-Drilled Surveys
Rig: H & P 499



Azimuths to Grid North
True North: 0.47°
Magnetic North: 6.30°

Magnetic Field
Strength: 47574.7snT
Dip Angle: 59.41°
Date: 11/7/2016
Model: IGRF2015



Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: Texas Central 4203

Local Origin: Well #0906H, Grid North

Latitude: 31° 7' 30.637 N
Longitude: 101° 14' 21.593 W

Grid East: 1716522.00
Grid North: 531592.00
Scale Factor: 1.000

Geomagnetic Model: IGRF2015
Sample Date: 07-Nov-16
Magnetic Declination: 5.83°
Dip Angle from Horizontal: 59.41°
Magnetic Field Strength: 47575

To convert a Magnetic Direction to a Grid Direction, Add 6.30°
To convert a Magnetic Direction to a True Direction, Add 5.83° East
To convert a True Direction to a Grid Direction, Add 0.47°

WELL DETAILS

+N/-S	+E/-W	Northing	Ground Level: Easting	2633.00	Latitude	Longitude
0.00	0.00	531592.00	1716522.00		31° 7' 30.637 N	101° 14' 21.593 W

ANNOTATIONS

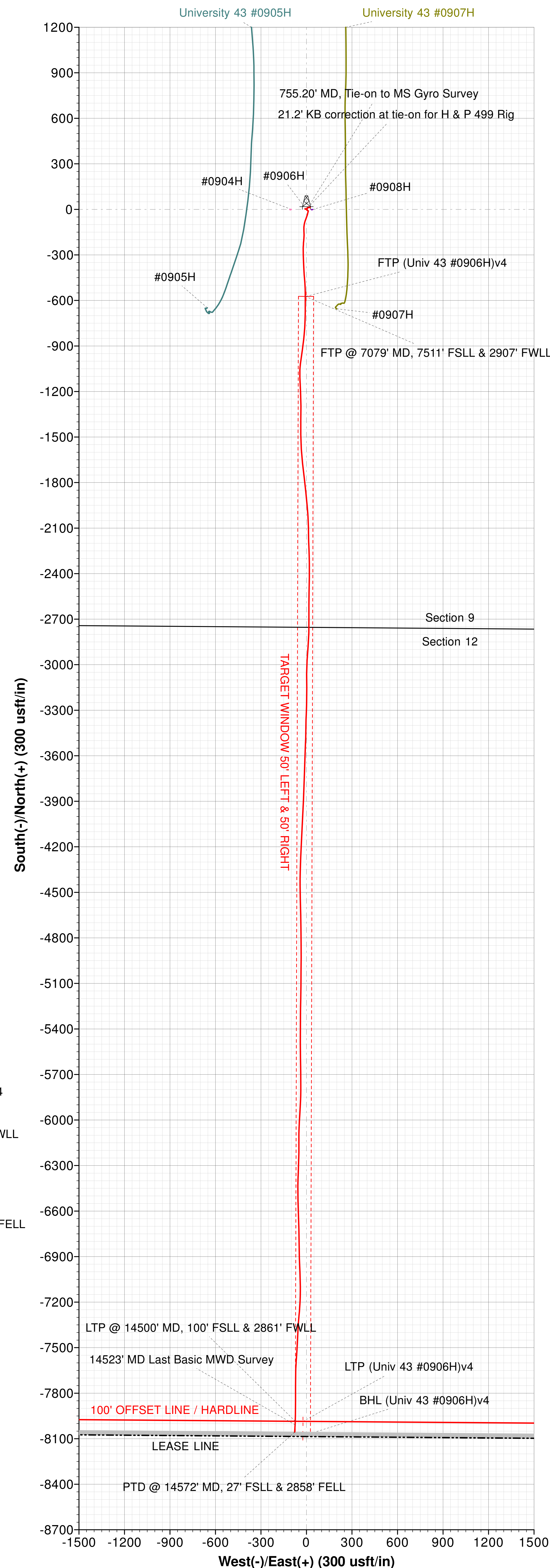
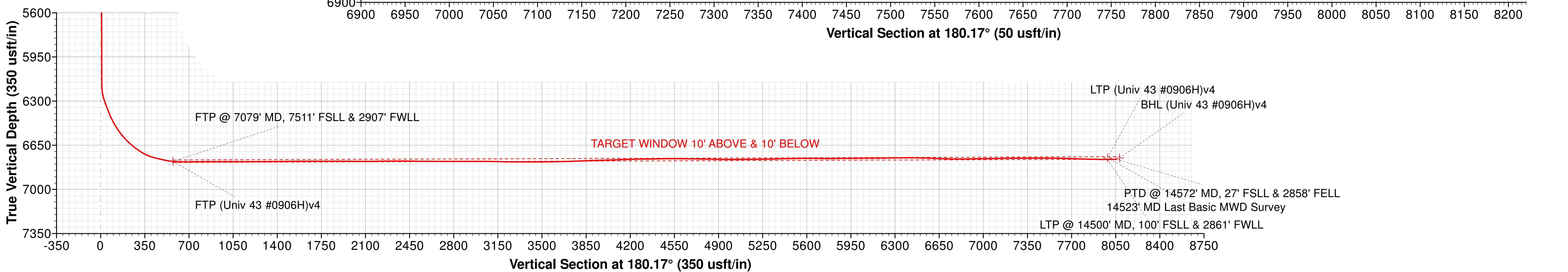
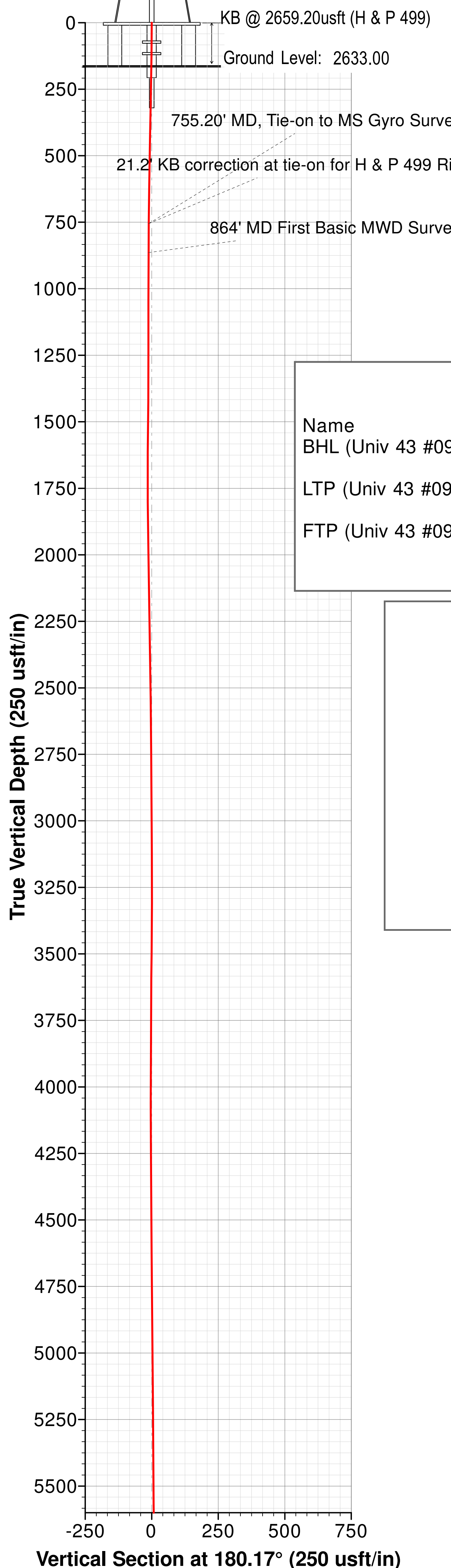
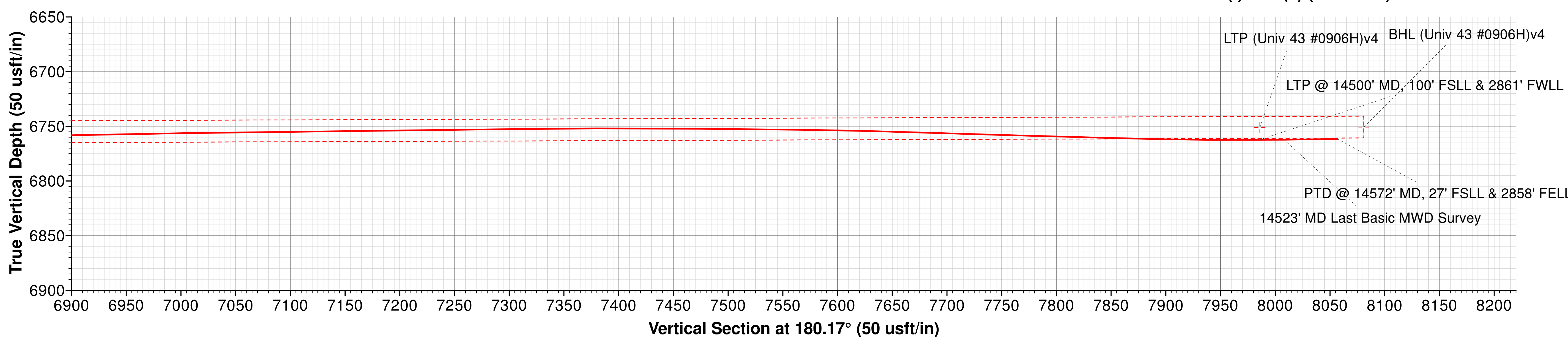
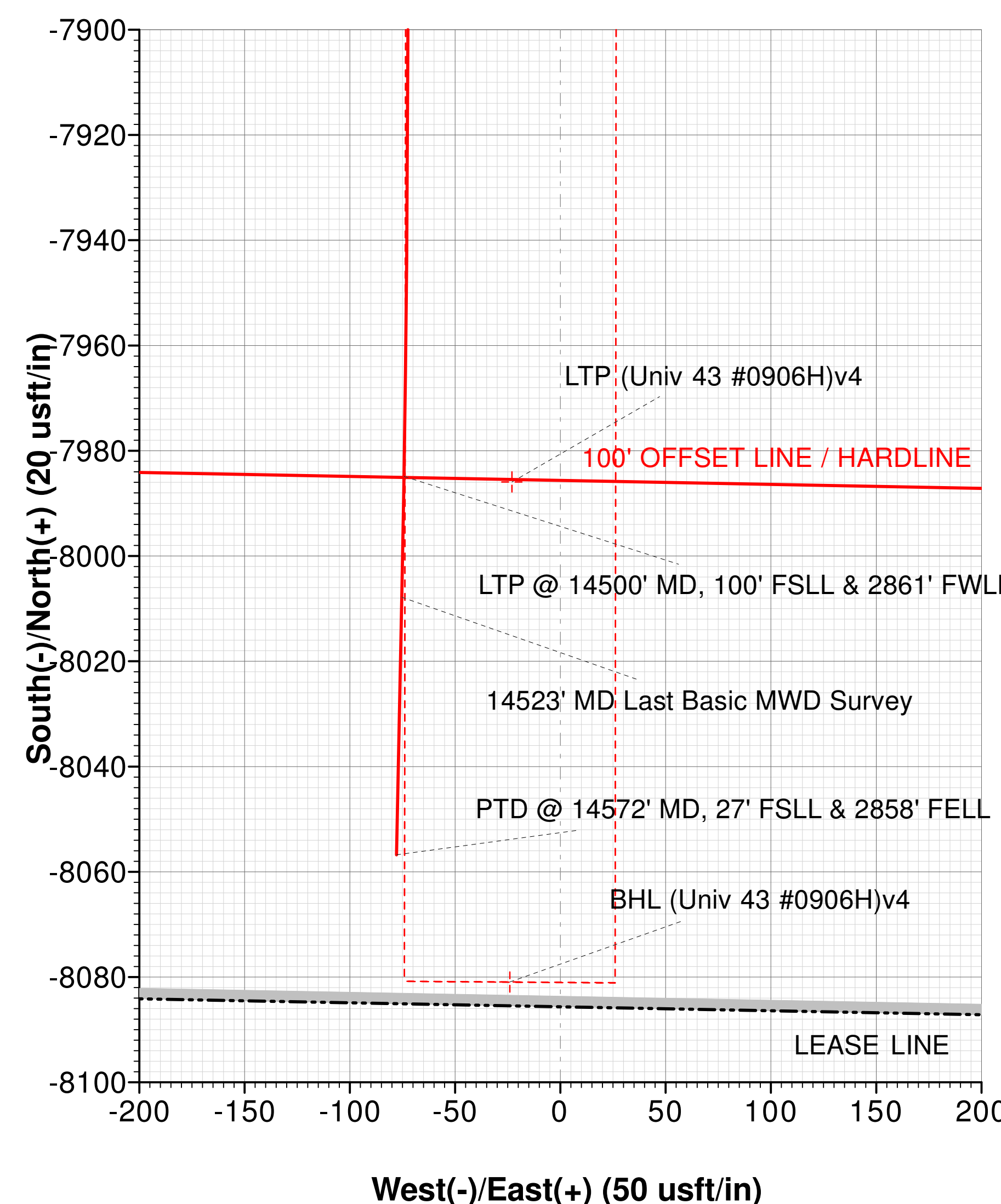
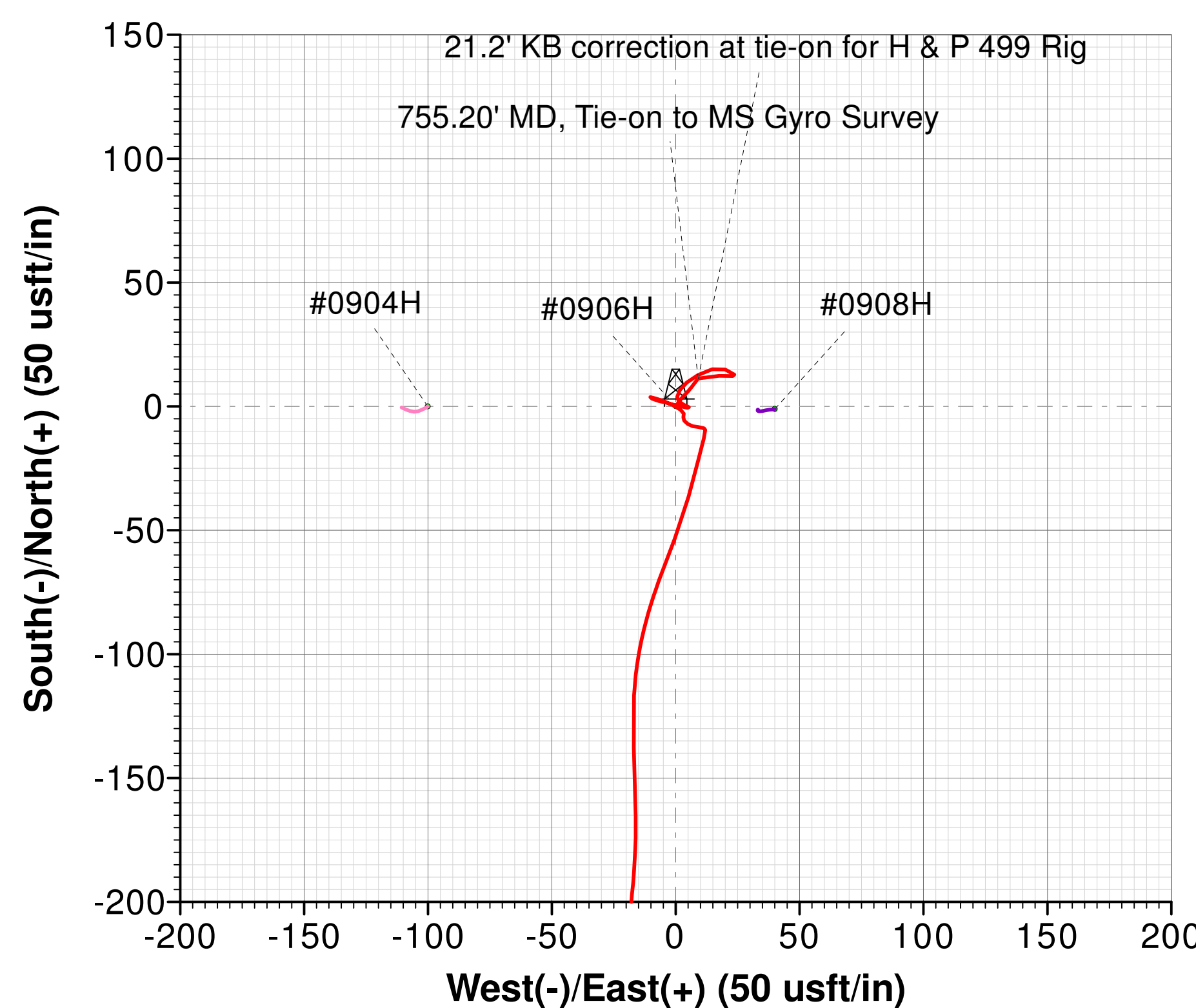
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
755.04	755.20	0.81	70.93	11.20	9.13	-11.23	14.55	755.20' MD, Tie-on to MS Gyro Survey
755.04	755.20	0.81	70.93	11.20	9.13	-11.23	14.55	21.2' KB correction at tie-on for H & P 499 Rig
863.82	864.00	1.80	83.90	11.64	11.56	-11.67	17.02	864' MD First Basic MWD Survey
6778.27	7079.00	84.67	180.50	-572.77	-7.93	572.79	684.65	FTP @ 7079' MD, 7511' FSLL & 2907' FWLL
6762.52	14500.00	90.33	182.29	-7984.86	-74.24	7985.05	8104.55	LTP @ 14500' MD, 100' FSLL & 2861' FWLL
6762.30	14523.00	90.80	182.90	-8007.84	-75.28	8008.03	8127.55	14523' MD Last Basic MWD Survey
6761.61	14572.00	90.80	182.90	-8056.77	-77.76	8056.97	8176.54	PTD @ 14572' MD, 27' FSLL & 2858' FELL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BHL (Univ 43 #0906H)v4	6750.67	-8080.94	-24.00	523512.00	1716498.00	31° 6' 10.659 N	101° 14' 21.112 W	Rectangle (Sides: L20.00 W100.00)
LTP (Univ 43 #0906H)v4	- actual wellpath misses target center by 59.95usft at 14572.00usft MD (6761.61 TVD, -8056.77 N, -77.76 E)	6751.00	-7985.93	-23.00	523607.00	31° 6' 11.600 N	101° 14' 21.109 W	Point
FTP (Univ 43 #0906H)v4	- actual wellpath misses target center by 52.52usft at 14499.26usft MD (6762.53 TVD, -7984.12 N, -74.21 E)	6777.00	-573.07	-2.00	531019.00	31° 7' 24.966 N	101° 14' 21.562 W	Point
	- actual wellpath misses target center by 6.07usft at 7079.20usft MD (6778.28 TVD, -572.97 N, -7.93 E)							

LEGEND

- #0907H, OH, As-Drilled Surveys V0
- #0905H, OH, As-Drilled Surveys V0
- #0908H, OH, As-Drilled Surveys V0
- #0904H, OH, As-Drilled Surveys V0
- As-Drilled Surveys





Survey Certification Letter

November 15, 2016

State of Texas
County of Irion

I, John Burrows, certify that; I am employed by **Basic Energy Services L.P. (P-5 054313)**; that I did on the day(s) of 11/4/2016 through 11/12/2016 conducted and / or supervised the MWD survey(s) taken from the depth of 864 feet to depth of 14523 feet; that the data is true, correct, complete and within the specifications and limitations of the survey tool provided by **Basic Energy Services L.P.**; that I am authorized and qualified to make this survey report; that was requested by Sequitur Energy Resources LLC for the surveys performed on the University 43 #0906H Well, API No. 42-235-35002. In Irion County, Texas; and that I have reviewed this report and find that it conforms to the principles and procedures set forth by **Basic Energy Services L.P.**

John Burrows

John Burrows
Area Manager – Directional Drilling Services
4701 S County Road 1270 | Midland, TX 79706
Office: 432-563-2106
John.burrows@basicenergyservices.com