



Railroad Commission of Texas
Oil and Gas Division
P.O. Box 12967
Capitol Station
Austin, TX 78711

May 1, 2013

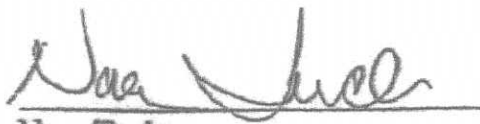
Attn: Pam Johns

RE: Pioneer Natural Resources
University 12-12A #1H
Reagan County, Texas
API #: 42-383-37761

Enclosed, please find the original and one copy of the survey performed on the referenced well by LEAM Drilling Systems, LLC. (P-5 No. 491647). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Randy W. Rakowitz	OH	1,102' - 14,680'	02/12/2013 - 02/24/2013	MWD

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.


Nora Tucker
Well Planner

Enclosures

Leam Drilling Systems, Inc.

Survey Report

PIONEER

NATURAL RESOURCES

Company:	PIONEER NATURAL RESOURCES	Local Co-ordinate Reference:	Well #1H
Project:	Reagan County, Tx	TVD Reference:	GE 2700' + KB 26.5' @ 2726.50usft (Patterson 231)
Site:	University 12-12A	MD Reference:	GE 2700' + KB 26.5' @ 2726.50usft (Patterson 231)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	R5000 Multi User

Project	Reagan County, Tx		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site	University 12-12A		
Site Position:		Northing:	525,297.77 usft
From:	Map	Easting:	1,643,949.03 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	31° 6' 21.739 N
		Longitude:	101° 28' 15.798 W
		Grid Convergence:	-0.59 °

Well	#1H		
Well Position	+N/-S	0.00 usft	Northing: 525,283.49 usft
	+E/-W	0.00 usft	Easting: 1,644,648.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	31° 6' 21.668 N
		Longitude:	101° 28' 7.746 W
		Ground Level:	2,700.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2013/01/14	6.32	59.44	47,996

Design	OH				
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	0.84	

Survey Program	Date	2013/02/28			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
89.00	948.00	Survey #1 (OH)	Gyroscope	Gyroscope	
1,102.00	14,629.00	Survey #2 (OH)	LEAM MWD	MWD - Standard	
14,680.00	14,680.00	Survey #3 (OH)	Project	Projection	

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
89.00	0.97	217.31	89.00	-0.60	-0.46	-0.61	1.09	1.09	0.00
184.00	1.03	221.47	183.98	-1.88	-1.51	-1.90	0.10	0.06	4.38
280.00	0.72	243.37	279.97	-2.80	-2.62	-2.83	0.47	-0.32	22.81
375.00	0.51	271.94	374.96	-3.05	-3.58	-3.10	0.38	-0.22	30.07
471.00	1.36	236.23	470.95	-3.67	-4.95	-3.74	1.03	0.89	-37.20
566.00	0.96	229.68	565.93	-4.81	-6.49	-4.90	0.44	-0.42	-6.89

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Site:	University 12-12A	MD Reference:	GE 2700' + KB 26.5' @ 2726.50usft (Patterson 231)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	R5000 Multi User

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)
662.00	1.00	274.88	661.92	-5.26	-7.94	-5.37	0.79	0.04	47.08
757.00	0.57	306.75	756.91	-4.90	-9.15	-5.04	0.63	-0.45	33.55
853.00	0.81	264.24	852.90	-4.69	-10.20	-4.84	0.57	0.25	-44.28
948.00	0.66	258.00	947.90	-4.87	-11.41	-5.04	0.18	-0.16	-6.57
1,102.00	0.88	255.72	1,101.88	-5.34	-13.42	-5.54	0.14	0.14	-1.48
1,197.00	1.41	222.94	1,196.86	-6.38	-14.92	-6.60	0.87	0.56	-34.51
1,292.00	2.37	201.67	1,291.81	-9.06	-16.45	-9.30	1.24	1.01	-22.39
1,388.00	3.69	190.24	1,387.68	-13.95	-17.73	-14.20	1.51	1.38	-11.91
1,483.00	5.27	179.08	1,482.39	-21.32	-18.20	-21.58	1.89	1.66	-11.75
1,578.00	5.45	175.03	1,576.97	-30.17	-17.74	-30.43	0.44	0.19	-4.26
1,673.00	5.36	175.83	1,671.55	-39.09	-17.03	-39.34	0.12	-0.09	0.84
1,769.00	5.41	177.67	1,767.12	-48.09	-16.52	-48.32	0.19	0.05	1.92
1,864.00	5.23	177.06	1,861.72	-56.89	-16.11	-57.12	0.20	-0.19	-0.64
1,959.00	4.92	177.06	1,956.34	-65.28	-15.68	-65.50	0.33	-0.33	0.00
2,055.00	4.57	176.00	2,052.01	-73.21	-15.20	-73.42	0.38	-0.36	-1.10
2,150.00	4.44	175.91	2,146.72	-80.65	-14.68	-80.86	0.14	-0.14	-0.09
2,246.00	4.44	177.32	2,242.43	-88.07	-14.24	-88.27	0.11	0.00	1.47
2,341.00	4.17	177.58	2,337.16	-95.19	-13.92	-95.39	0.28	-0.28	0.27
2,436.00	4.09	176.53	2,431.92	-102.02	-13.57	-102.21	0.12	-0.08	-1.11
2,532.00	3.78	176.62	2,527.69	-108.60	-13.18	-108.78	0.32	-0.32	0.09
2,627.00	3.65	178.64	2,622.49	-114.75	-12.92	-114.93	0.19	-0.14	2.13
2,723.00	3.38	179.78	2,718.31	-120.63	-12.84	-120.81	0.29	-0.28	1.19
2,818.00	3.34	178.46	2,813.15	-126.20	-12.75	-126.37	0.09	-0.04	-1.39
2,913.00	3.03	178.46	2,908.00	-131.48	-12.61	-131.65	0.33	-0.33	0.00
3,008.00	4.17	173.63	3,002.81	-137.42	-12.16	-137.58	1.24	1.20	-5.08
3,104.00	4.79	170.82	3,098.52	-144.85	-11.13	-144.99	0.68	0.65	-2.93
3,199.00	4.57	172.40	3,193.20	-152.51	-10.00	-152.64	0.27	-0.23	1.66
3,294.00	4.17	171.69	3,287.92	-159.68	-9.00	-159.80	0.42	-0.42	-0.75
3,390.00	4.83	174.16	3,383.63	-167.16	-8.08	-167.26	0.72	0.69	2.57
3,485.00	4.92	177.50	3,478.28	-175.21	-7.50	-175.30	0.31	0.09	3.52
3,580.00	4.53	176.27	3,572.96	-183.02	-7.08	-183.10	0.42	-0.41	-1.29
3,675.00	4.17	174.86	3,667.69	-190.20	-6.52	-190.28	0.40	-0.38	-1.48
3,771.00	3.78	175.47	3,763.46	-196.83	-5.96	-196.90	0.41	-0.41	0.64
3,866.00	4.39	182.59	3,858.22	-203.59	-5.88	-203.65	0.83	0.64	7.49
3,961.00	4.44	186.99	3,952.93	-210.87	-6.49	-210.94	0.36	0.05	4.63
4,056.00	4.00	186.46	4,047.68	-217.81	-7.31	-217.90	0.46	-0.46	-0.56
4,150.00	3.91	187.34	4,141.45	-224.25	-8.09	-224.34	0.12	-0.10	0.94
4,245.00	4.53	183.91	4,236.19	-231.20	-8.76	-231.31	0.70	0.65	-3.61
4,340.00	4.39	183.56	4,330.91	-238.58	-9.24	-238.69	0.15	-0.15	-0.37
4,435.00	3.69	186.81	4,425.67	-245.24	-9.83	-245.36	0.77	-0.74	3.42
4,531.00	3.96	185.32	4,521.46	-251.61	-10.50	-251.73	0.30	0.28	-1.55
4,630.00	4.61	178.02	4,620.18	-258.99	-10.68	-259.12	0.86	0.66	-7.37

Leam Drilling Systems, Inc.

Survey Report

PIONEER

NATURAL RESOURCES

Company: PIONEER NATURAL RESOURCES
Project: Reagan County, Tx
Site: University 12-12A
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: GE 2700' + KB 26.5' @ 2726.50usft (Patterson 231)
MD Reference: GE 2700' + KB 26.5' @ 2726.50usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: R5000 Multi User

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)
4,725.00	4.22	175.83	4,714.90	-266.29	-10.30	-266.41	0.45	-0.41	-2.31
4,820.00	3.47	174.86	4,809.68	-272.64	-9.78	-272.75	0.79	-0.79	-1.02
4,916.00	3.65	178.55	4,905.50	-278.59	-9.45	-278.70	0.30	0.19	3.84
5,011.00	4.31	185.49	5,000.27	-285.16	-9.71	-285.28	0.86	0.69	7.31
5,106.00	4.88	186.11	5,094.96	-292.74	-10.48	-292.86	0.60	0.60	0.65
5,202.00	4.00	186.72	5,190.67	-300.12	-11.31	-300.25	0.92	-0.92	0.64
5,297.00	4.22	184.09	5,285.43	-306.90	-11.95	-307.04	0.30	0.23	-2.77
5,392.00	4.26	181.98	5,380.17	-313.91	-12.32	-314.06	0.17	0.04	-2.22
5,488.00	3.65	181.71	5,475.94	-320.53	-12.53	-320.68	0.64	-0.64	-0.28
5,583.00	4.13	181.36	5,570.72	-326.97	-12.70	-327.12	0.51	0.51	-0.37
5,678.00	4.83	179.08	5,665.43	-334.39	-12.72	-334.54	0.76	0.74	-2.40
5,773.00	4.26	176.09	5,760.13	-341.91	-12.42	-342.05	0.65	-0.60	-3.15
5,869.00	3.74	178.11	5,855.90	-348.60	-12.07	-348.74	0.56	-0.54	2.10
5,964.00	4.04	181.71	5,950.68	-355.04	-12.07	-355.18	0.41	0.32	3.79
6,059.00	5.14	186.46	6,045.37	-362.61	-12.65	-362.76	1.22	1.16	5.00
6,155.00	4.66	187.69	6,141.02	-370.75	-13.65	-370.91	0.51	-0.50	1.28
6,338.00	3.25	184.79	6,323.58	-383.29	-15.08	-383.47	0.78	-0.77	-1.58
6,433.00	3.08	181.63	6,418.44	-388.52	-15.38	-388.70	0.26	-0.18	-3.33
6,528.00	2.64	181.10	6,513.32	-393.26	-15.49	-393.44	0.46	-0.46	-0.56
6,624.00	0.79	109.56	6,609.28	-395.69	-14.91	-395.87	2.61	-1.93	-74.52
6,656.00	1.49	36.61	6,641.27	-395.43	-14.45	-395.60	4.59	2.19	-227.97
6,687.00	4.84	14.99	6,672.22	-393.84	-13.87	-394.01	11.28	10.81	-69.74
6,719.00	8.27	8.31	6,704.01	-390.26	-13.19	-390.41	10.96	10.72	-20.88
6,751.00	12.31	6.90	6,735.49	-384.60	-12.45	-384.74	12.65	12.63	-4.41
6,783.00	16.53	6.20	6,766.47	-376.68	-11.55	-376.81	13.20	13.19	-2.19
6,815.00	19.08	5.49	6,796.94	-366.95	-10.56	-367.06	8.00	7.97	-2.22
6,847.00	22.60	4.79	6,826.84	-355.61	-9.54	-355.71	11.03	11.00	-2.19
6,878.00	26.12	4.26	6,855.08	-342.86	-8.54	-342.95	11.38	11.35	-1.71
6,910.00	29.81	3.74	6,883.33	-327.90	-7.49	-327.97	11.56	11.53	-1.63
6,942.00	32.89	3.38	6,910.66	-311.28	-6.46	-311.34	9.64	9.63	-1.13
6,974.00	35.53	4.09	6,937.12	-293.33	-5.29	-293.38	8.34	8.25	2.22
7,005.00	37.90	4.61	6,961.97	-274.85	-3.88	-274.88	7.71	7.65	1.68
7,037.00	40.71	4.44	6,986.73	-254.65	-2.28	-254.66	8.79	8.78	-0.53
7,069.00	43.70	3.21	7,010.43	-233.20	-0.85	-233.19	9.69	9.34	-3.84
7,101.00	46.60	1.98	7,032.99	-210.54	0.17	-210.52	9.46	9.06	-3.84
7,133.00	49.59	0.57	7,054.37	-186.74	0.69	-186.71	9.90	9.34	-4.41
7,164.00	52.58	359.69	7,073.84	-162.62	0.74	-162.59	9.89	9.65	-2.84
7,196.00	55.31	359.52	7,092.67	-136.75	0.56	-136.73	8.54	8.53	-0.53
7,228.00	58.48	359.17	7,110.14	-109.95	0.25	-109.94	9.95	9.91	-1.09
7,260.00	61.47	358.46	7,126.15	-82.25	-0.32	-82.25	9.54	9.34	-2.22
7,292.00	64.02	357.94	7,140.81	-53.82	-1.22	-53.84	8.10	7.97	-1.63
7,323.00	66.74	357.41	7,153.72	-25.67	-2.36	-25.70	8.91	8.77	-1.71

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Site:	University 12-12A	MD Reference:	GE 2700' + KB 26.5' @ 2726.50usft (Patterson 231)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	R5000 Multi User

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7,355.00	69.12	357.23	7,165.74	3.95	-3.75	3.90	7.46	7.44	-0.56
7,387.00	71.31	357.41	7,176.58	34.03	-5.16	33.95	6.86	6.84	0.56
7,419.00	73.60	358.11	7,186.22	64.51	-6.35	64.41	7.45	7.16	2.19
7,451.00	76.50	359.69	7,194.48	95.42	-6.94	95.31	10.24	9.06	4.94
7,482.00	79.05	0.92	7,201.04	125.71	-6.78	125.60	9.09	8.23	3.97
7,514.00	81.87	1.10	7,206.34	157.26	-6.22	157.16	8.83	8.81	0.56
7,546.00	85.82	1.27	7,209.77	189.07	-5.56	188.96	12.36	12.34	0.53
7,578.00	89.43	1.10	7,211.10	221.03	-4.90	220.93	11.29	11.28	-0.53
7,610.00	90.66	0.92	7,211.07	253.02	-4.34	252.93	3.88	3.84	-0.56
7,673.00	91.89	1.27	7,209.67	315.99	-3.13	315.91	2.03	1.95	0.56
7,768.00	91.19	0.40	7,207.12	410.95	-1.75	410.88	1.18	-0.74	-0.92
7,863.00	91.01	0.04	7,205.30	505.93	-1.38	505.85	0.42	-0.19	-0.38
7,959.00	92.59	0.40	7,202.28	601.88	-1.02	601.80	1.69	1.65	0.38
8,054.00	91.98	358.81	7,198.49	696.80	-1.67	696.70	1.79	-0.64	-1.67
8,150.00	90.75	358.11	7,196.21	792.73	-4.25	792.58	1.47	-1.28	-0.73
8,245.00	87.23	358.46	7,197.88	887.66	-7.09	887.46	3.72	-3.71	0.37
8,340.00	86.26	358.50	7,203.27	982.47	-9.61	982.22	1.02	-1.02	0.04
8,435.00	86.97	358.64	7,208.88	1,077.28	-11.97	1,076.98	0.76	0.75	0.15
8,531.00	87.67	358.64	7,213.37	1,173.14	-14.25	1,172.81	0.73	0.73	0.00
8,626.00	89.69	1.45	7,215.56	1,268.10	-14.17	1,267.76	3.64	2.13	2.96
8,721.00	89.25	2.33	7,216.44	1,363.05	-11.04	1,362.74	1.04	-0.46	0.93
8,912.00	90.31	2.68	7,217.17	1,553.86	-2.69	1,553.65	0.58	0.55	0.18
9,008.00	89.34	0.04	7,217.47	1,649.82	-0.42	1,649.64	2.93	-1.01	-2.75
9,103.00	90.22	1.10	7,217.83	1,744.81	0.53	1,744.63	1.45	0.93	1.12
9,198.00	90.84	2.15	7,216.95	1,839.77	3.22	1,839.62	1.28	0.65	1.11
9,294.00	88.46	0.75	7,217.54	1,935.73	5.65	1,935.60	2.88	-2.48	-1.46
9,389.00	88.99	0.75	7,219.65	2,030.70	6.90	2,030.58	0.56	0.56	0.00
9,484.00	90.40	2.15	7,220.16	2,125.66	9.30	2,125.57	2.09	1.48	1.47
9,579.00	90.92	2.51	7,219.06	2,220.57	13.16	2,220.53	0.67	0.55	0.38
9,675.00	88.37	357.76	7,219.66	2,316.54	13.39	2,316.48	5.62	-2.66	-4.95
9,770.00	90.04	359.87	7,220.98	2,411.50	11.42	2,411.41	2.83	1.76	2.22
9,865.00	91.01	1.10	7,220.11	2,506.49	12.23	2,506.40	1.65	1.02	1.29
9,961.00	88.11	357.23	7,220.84	2,602.45	10.83	2,602.33	5.04	-3.02	-4.03
10,056.00	89.25	358.46	7,223.03	2,697.35	7.26	2,697.17	1.77	1.20	1.29
10,151.00	89.43	359.69	7,224.13	2,792.33	5.73	2,792.11	1.31	0.19	1.29
10,246.00	89.46	358.29	7,225.05	2,887.31	4.05	2,887.06	1.47	0.03	-1.47
10,342.00	89.69	357.23	7,225.76	2,983.23	0.30	2,982.92	1.13	0.24	-1.10
10,437.00	88.46	357.76	7,227.29	3,078.13	-3.85	3,077.74	1.41	-1.29	0.56
10,532.00	89.08	357.41	7,229.33	3,173.02	-7.85	3,172.56	0.75	0.65	-0.37
10,628.00	88.90	359.69	7,231.02	3,268.97	-10.28	3,268.47	2.38	-0.19	2.38
10,723.00	90.57	1.10	7,231.46	3,363.96	-9.63	3,363.46	2.30	1.76	1.48
10,818.00	88.46	1.10	7,232.27	3,458.93	-7.80	3,458.45	2.22	-2.22	0.00

Company:	PIONEER NATURAL RESOURCES	Local Co-ordinate Reference:	Well #1H
Project:	Reagan County, Tx	TVD Reference:	GE 2700' + KB 26.5' @ 2726.50usft (Patterson 231)
Site:	University 12-12A	MD Reference:	GE 2700' + KB 26.5' @ 2726.50usft (Patterson 231)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	R5000 Multi User

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)
10,914.00	88.46	1.80	7,234.85	3,554.87	-5.38	3,554.41	0.73	0.00	0.73
11,009.00	87.93	1.27	7,237.84	3,649.78	-2.83	3,649.35	0.79	-0.56	-0.56
11,104.00	88.37	1.63	7,240.91	3,744.70	-0.43	3,744.30	0.60	0.46	0.38
11,199.00	88.72	1.10	7,243.32	3,839.65	1.83	3,839.26	0.67	0.37	-0.56
11,295.00	89.69	2.33	7,244.65	3,935.59	4.71	3,935.24	1.63	1.01	1.28
11,390.00	90.48	3.91	7,244.51	4,030.45	9.88	4,030.16	1.86	0.83	1.66
11,486.00	88.90	1.98	7,245.03	4,126.31	14.81	4,126.08	2.60	-1.65	-2.01
11,581.00	87.85	1.27	7,247.72	4,221.23	17.50	4,221.03	1.33	-1.11	-0.75
11,676.00	87.85	1.63	7,251.29	4,316.13	19.90	4,315.96	0.38	0.00	0.38
11,772.00	88.46	2.15	7,254.38	4,412.03	23.07	4,411.90	0.83	0.64	0.54
11,867.00	88.72	2.33	7,256.72	4,506.93	26.78	4,506.84	0.33	0.27	0.19
11,962.00	89.16	2.51	7,258.47	4,601.83	30.79	4,601.79	0.50	0.46	0.19
12,057.00	90.57	3.91	7,258.70	4,696.68	36.11	4,696.70	2.09	1.48	1.47
12,153.00	91.10	3.74	7,257.30	4,792.45	42.51	4,792.56	0.58	0.55	-0.18
12,248.00	90.13	3.03	7,256.28	4,887.28	48.12	4,887.46	1.27	-1.02	-0.75
12,344.00	88.90	359.69	7,257.09	4,983.23	50.40	4,983.44	3.71	-1.28	-3.48
12,439.00	88.55	358.46	7,259.21	5,078.19	48.87	5,078.36	1.35	-0.37	-1.29
12,535.00	90.66	0.22	7,259.87	5,174.18	47.76	5,174.32	2.86	2.20	1.83
12,630.00	89.16	359.52	7,260.02	5,269.17	47.55	5,269.30	1.74	-1.58	-0.74
12,725.00	89.60	359.52	7,261.04	5,364.16	46.75	5,364.27	0.46	0.46	0.00
12,821.00	89.25	358.29	7,262.01	5,460.14	44.92	5,460.21	1.33	-0.36	-1.28
12,916.00	90.66	0.40	7,262.08	5,555.13	43.83	5,555.17	2.67	1.48	2.22
13,011.00	87.58	358.99	7,263.54	5,650.10	43.32	5,650.13	3.57	-3.24	-1.48
13,106.00	87.14	358.46	7,267.92	5,744.97	41.21	5,744.96	0.72	-0.46	-0.56
13,201.00	87.85	358.81	7,272.07	5,839.86	38.95	5,839.80	0.83	0.75	0.37
13,297.00	88.46	359.17	7,275.16	5,935.79	37.26	5,935.70	0.74	0.64	0.38
13,392.00	88.55	359.52	7,277.64	6,030.75	36.18	6,030.63	0.38	0.09	0.37
13,488.00	90.48	0.22	7,278.45	6,126.74	35.96	6,126.61	2.14	2.01	0.73
13,583.00	91.28	0.40	7,276.99	6,221.73	36.47	6,221.59	0.86	0.84	0.19
13,678.00	92.07	0.75	7,274.22	6,316.68	37.42	6,316.55	0.91	0.83	0.37
13,773.00	91.89	0.57	7,270.93	6,411.62	38.52	6,411.50	0.27	-0.19	-0.19
13,869.00	90.31	1.63	7,269.09	6,507.58	40.36	6,507.47	1.98	-1.65	1.10
13,964.00	91.28	1.98	7,267.77	6,602.52	43.35	6,602.45	1.09	1.02	0.37
14,059.00	91.54	1.63	7,265.43	6,697.45	46.34	6,697.41	0.46	0.27	-0.37
14,155.00	91.89	1.27	7,262.56	6,793.37	48.77	6,793.36	0.52	0.36	-0.38
14,250.00	91.45	1.45	7,259.79	6,888.31	51.03	6,888.31	0.50	-0.46	0.19
14,345.00	90.92	1.63	7,257.83	6,983.25	53.58	6,983.28	0.59	-0.56	0.19
14,441.00	90.84	0.92	7,256.35	7,079.21	55.71	7,079.27	0.74	-0.08	-0.74
14,536.00	92.15	1.45	7,253.88	7,174.16	57.68	7,174.23	1.49	1.38	0.56
14,629.00	91.71	1.10	7,250.74	7,267.08	59.75	7,267.18	0.60	-0.47	-0.38
14,680.00	91.71	1.10	7,249.22	7,318.05	60.72	7,318.15	0.00	0.00	0.00

PIONEER NATURAL RESOURCES
UNIVERSITY 12-12A #1H
Bottom Hole Location:
Terminus: 14680.00' MD / 7249.22' TVD
Closure: 7318.30' @ .48° Azi.
N 7318.05' E 60.72'

Block 12,
University Land

Proposed Bottom Hole

X: 1644750.87 Latitude: 31.12513032°N
Y: 532233.53 Longitude: -101.46871913°W
Latitude: 31°07'30.47"N Longitude: 101°28'07.39"W

University "12-12A" Pooled Unit
(636.5 Acres)

Tract 1
(467.6 Acres)

PIONEER
NATURAL
RESOURCES

Tract 2
(168.9 Acres)

University "12-1A"

#1H (Surface Location)
X: 1644648.90 Latitude: 31.10601899°N
Y: 525283.49 Longitude: -101.46881827°W
Latitude: 31°06'21.67"N Longitude: 101°28'07.75"W

S 88°49'49" E 5598.05'

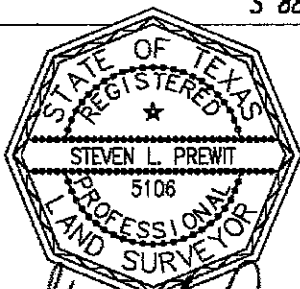
Fnd. Conc. Mon.

Railroad Commission Permit Plat

PIONEER NATURAL RESOURCES USA, Inc.
University "12-12A" Pooled Unit
(636.5 Acres) being the NE/4 of Section 12,
& E/2, W/2 SW/4, SE4/SW/4 of Section 1, Block 12,
University Land,
Reagan County, Texas

Scale: 1" = 1000'

Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.
Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.
Note: A combined grid factor of 0.999754035 must be divided into Section Line distances to obtain a true horizontal distance.
Note: Example: (S-99999) indicates General Land Office file number.
Note: NAD '27 Coordinates & Latitude/Longitude on well location in Sections 1 & 12.
Note: Well location is approximately 5.9 miles south of Big Lake, Texas.



March 8, 2012

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