

Results of Directional Survey

API number:	30-025-41002		
OGRID:		Operator:	XTO ENERGY, INC
		Property:	ESTANCIA SED # 2H

surface	ULSTR:	M	31	T 23S	R 33E
				330 FSL	660 FWL

BH Loc	ULSTR:	D	31	T 23S	R 33E
15403	MD	11010.7	TVD	331 FNL	620 FWL
				4949 FSL	

Top Perf/OH	ULSTR:	M	31	T 23S	R 33E
10098	MD	10095.3	TVD	329 FSL	657 FWL

Bot Perf/OH	ULSTR:	E	31	T 23S	R 33E
12813	MD	11050.2	TVD	1587 FNL	645 FWL
				3693 FSL	

	MD	N/S	E/W	VD
	9959	-3.53	-11.87	9956.36
TOP PERFS/OH	10098	-1.36	-3.49	10095.29
	10145	-0.62	-0.65	10142.27
	14102	3319.14	-15.20	11040.72
BOT PERFS/OH	14146	3363.11	-15.05	11039.22
	14195	3412.08	-14.88	11037.55

NEXT TO LAST	15353	4569.50	-37.94	11012.49
LAST READING	15403	4619.44	-39.60	11010.74
TD	15403	4619.44	-39.60	11010.74

Surface Location	330	FS	660	FW
Projected BHL	4949	FS	620	FW
Location of				
Top Perfs/OH	329	FS	657	FW
Bottom Perfs/OH	3693	FS	645	FW

SUMMARY of Subsurface Locations

Surface Location	M-31-23S-33E	330	FS	660	FW	Vert. Depth
Top Perfs/OH	M-31-23S-33E	329	FS	657	FW	10095.29
Bottom Perfs/OH	E-31-23S-33E	3693	FS	645	FW	11039.22
Projected TD	D-31-23S-33E	4949	FS	620	FW	11010.74

DEC 02 20

Operator: XTO Energy
Well/Lease: Estancia SED 2H
County: Lea, NM

REC'D MIDLAND

MAY 15 2013

STATE OF NEW MEXICO
DEVIATION REPORT

<u>Footage</u>	<u>Degree</u>	<u>Footage</u>	<u>Degree</u>
226	0.25	5960	1.00
458	0.50	6146	1.30
660	0.75	6289	1.40
906	0.25	6375	1.60
1193	0.75	6470	1.00
1498	0.90	6518	1.10
1684	1.50	6981	1.30
1777	0.30	7076	1.30
1870	0.50	7169	1.30
2056	1.30	7262	1.30
2241	2.10	7355	1.20
2428	1.80	7449	1.30
3077	0.99	7542	1.30
3170	0.60	7635	1.40
3635	0.50	8193	1.60
3728	1.00	8286	1.60
3821	1.20	8472	0.70
3914	0.50	8565	0.70
4007	0.50	8658	0.80
4380	0.80	8751	0.90
4473	0.50	8844	1.00
4566	0.70	8937	1.20
4659	1.90	8937	1.20
4752	3.70	9030	0.70
4846	3.00	9122	0.80
4938	1.90	9215	0.70
5019	2.40	9308	1.30
5212	1.10	9401	1.30
5310	1.20	9866	1.90
5403	1.20	10052	1.80
5589	1.30	10375	2.00
5775	1.70	10476	6.90

HOBBS OCD

NOV 13 2013

RECEIVED

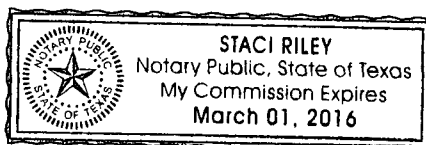
Signed By:

Charles Walsh

Charles Walsh, Division Manager
Pioneer Drilling Company

Appeared before me on May 13, 2013

Staci Riley
Notary Public



NOV 13 2013

MWD SURVEYS

Customer: XTO Energy
Well: Estancia SED 2H
Field/Block: Bone Spring
County: Lea County
State: New Mexico

RECEIVED

PGS Job #: LNM5102813
MWD Operator: Rodney Lambert
Directional Driller: Jose Perez
Date of First Survey: March 12, 2013
Date of Last Survey: April 7, 2013

Total Correction: 7.02 East GridVertical Section Plane: 359.70Nominal Dip Angle: 60.17Magnetic Field Strength: 0.485

Measured Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure		DLS	Temp (°F)	Vib/Shk Color	Date	Time	Flow Rate
					+N/-S	+E/-W	Dist.	Angle						
Survey's are tied into: Surface										Date Received:				
Company:														
0	0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00					
1	1311	0.8	233.7	1310.96	-5.38	-5.42	-7.38	9.15	233.70	0.06	86 °F	Green	03/12/13	14:43
2	1498	0.9	260.2	1497.94	-6.39	-6.44	-9.88	11.79	236.89	0.21	97 °F	Green	03/12/13	17:14
3	1684	1.5	245.5	1683.90	-7.63	-7.70	-13.53	15.57	240.36	0.36	104 °F	Green	03/12/13	18:19
4	1777	0.3	189.9	1776.88	-8.37	-8.44	-14.68	16.94	240.09	1.46	104 °F	Green	03/12/13	20:22
5	1870	0.5	48.2	1869.88	-8.34	-8.41	-14.42	16.69	239.74	0.82	108 °F	Green	03/12/13	21:52
6	2056	1.3	37.5	2055.86	-6.13	-6.20	-12.53	13.98	243.68	0.44	111 °F	Green	03/12/13	23:20
7	2241	2.1	40.1	2240.78	-1.89	-1.94	-9.07	9.27	257.92	0.43	113 °F	Green	03/13/13	1:18
8	2428	1.8	48.6	2427.67	2.65	2.62	-4.66	5.35	299.37	0.22	109 °F	Green	03/13/13	3:30
9	2613	2.3	54.5	2612.55	6.70	6.70	0.54	6.72	4.63	0.29	113 °F	Green	03/13/13	5:05
10	2799	0.9	91.5	2798.48	8.80	8.83	5.04	10.17	29.73	0.90	113 °F	Green	03/13/13	7:54
11	2985	0.6	86.8	2984.46	8.81	8.84	7.47	11.58	40.20	0.16	117 °F	Green	03/13/13	9:43
12	3170	0.6	99.5	3169.45	8.69	8.74	9.40	12.83	47.08	0.07	118 °F	Green	03/13/13	12:02
13	3356	0.5	102.0	3355.44	8.35	8.41	11.15	13.97	52.98	0.06	120 °F	Green	03/13/13	13:58
14	3542	1.0	81.6	3541.42	8.41	8.48	13.55	15.98	57.97	0.30	127 °F	Green	03/13/13	16:25
15	3728	1.0	170.3	3727.41	7.03	7.11	15.43	16.99	65.25	0.75	127 °F	Yellow	03/13/13	21:16
16	3916	0.5	176.9	3915.39	4.60	4.68	15.75	16.43	73.46	0.27	129 °F	Green	03/14/13	2:24
17	4100	0.8	181.8	4099.38	2.51	2.59	15.75	15.97	80.65	0.17	127 °F	Green	03/14/13	6:32
18	4287	1.4	140.2	4286.34	-0.56	-0.47	17.18	17.18	91.56	0.51	126 °F	Green	03/14/13	12:05
19	4473	0.5	226.5	4472.32	-2.87	-2.77	18.04	18.25	98.73	0.78	133 °F	Green	03/14/13	17:47
20	4661	1.9	147.7	4660.28	-6.07	-5.97	19.11	20.02	107.35	0.99	135 °F	Green	03/14/13	19:44
21	4752	3.7	141.2	4751.17	-9.65	-9.53	21.76	23.75	113.66	2.01	135 °F	Green	03/14/13	21:06
22	4846	3.0	138.0	4845.01	-13.86	-13.73	25.30	28.79	118.48	0.77	136 °F	Green	03/15/13	0:31
23	4938	1.9	123.1	4936.93	-16.50	-16.35	28.19	32.59	120.11	1.37	138 °F	Green	03/15/13	

MWD SURVEYS

Customer: XTO Energy
Well: Estancia SED 2H
Field/Block: Bone Spring
County: Lea County
State: New Mexico

PGS Job #: LN5102813
MWD Operator: Rodney Lambert
Directional Driller: Jose Perez
Date of First Survey: March 12, 2013
Date of Last Survey: April 7, 2013



Total Correction: 7.02 East Grid

Vertical Section Plane: 359.70

Nominal Dip Angle: 60.17

Magnetic Field Strength: 0.485

Measured Depth	Inc.	Azim.	T.V.D.	Ver. Sect.	Coordinates		Closure		DLS	Temp (°F)	Vib/Shk		Date	Time	Flow Rate
					+N / -S	+E / -W	Dist.	Angle			Color				
24	5019	2.4	119.8	5017.87	-18.09	-17.92	30.79	35.63	120.21	0.64	138 °F	Green	03/15/13	6:44	
25	5123	1.1	102.0	5121.82	-19.39	-19.21	33.66	38.75	119.72	1.34	102 °F	Green	03/17/13	14:14	
26	5217	1.1	94.2	5215.80	-19.65	-19.47	35.44	40.43	118.78	0.16	104 °F	Yellow	03/17/13	15:14	
27	5310	1.2	101.4	5308.78	-19.92	-19.73	37.28	42.18	117.88	0.19	106 °F	Green	03/17/13	16:14	
28	5403	1.2	43.2	5401.77	-19.41	-19.21	38.90	43.39	116.28	1.25	109 °F	Green	03/17/13	18:07	
29	5589	1.3	44.8	5587.72	-16.51	-16.29	41.72	44.79	111.33	0.06	111 °F	Yellow	03/17/13	20:19	
30	5775	1.7	2.6	5773.66	-12.26	-12.04	43.34	44.98	105.52	0.61	113 °F	Yellow	03/17/13	22:33	
31	5960	1.0	339.0	5958.61	-8.01	-7.79	42.88	43.58	100.30	0.48	115 °F	Green	03/18/13		
32	6146	1.3	342.4	6144.57	-4.48	-4.26	41.66	41.88	95.84	0.17	115 °F	Green	03/18/13		
33	6332	1.6	295.7	6330.52	-1.33	-1.13	38.68	38.70	91.67	0.64	117 °F	Green	03/18/13	6:08	
34	6518	1.1	239.3	6516.48	-1.09	-0.91	34.81	34.82	91.50	0.73	118 °F	Green	03/18/13	8:16	
35	6704	1.2	246.2	6702.44	-2.77	-2.61	31.49	31.60	94.73	0.09	120 °F	Yellow	03/18/13	10:13	
36	6891	1.1	248.6	6889.40	-4.20	-4.05	28.03	28.32	98.23	0.06	118 °F	Green	03/18/13	14:07	
37	7077	1.3	244.1	7075.36	-5.75	-5.63	24.47	25.11	102.95	0.12	120 °F	Green	03/18/13		
38	7263	1.3	251.3	7261.31	-7.33	-7.22	20.57	21.80	109.35	0.09	122 °F	Green	03/18/13	20:15	
39	7449	1.3	242.0	7447.26	-8.98	-8.89	16.71	18.93	118.02	0.11	124 °F	Yellow	03/18/13	23:42	
40	7635	1.4	228.0	7633.21	-11.47	-11.40	13.16	17.41	130.91	0.18	126 °F	Green	03/19/13	2:46	
41	7821	1.4	229.1	7819.16	-14.46	-14.41	9.75	17.40	145.91	0.01	126 °F	Green	03/19/13	5:52	
42	8007	1.5	229.1	8005.10	-17.52	-17.49	6.20	18.56	160.50	0.05	127 °F	Green	03/19/13	8:59	
43	8193	1.6	227.5	8191.03	-20.85	-20.84	2.44	20.98	173.32	0.06	127 °F	Yellow	03/19/13	12:12	
44	8379	1.7	225.2	8376.95	-24.53	-24.54	-1.43	24.58	183.34	0.06	127 °F	Yellow	03/19/13	16:20	
45	8565	0.7	275.4	8562.91	-26.35	-26.38	-4.52	26.76	189.72	0.73	129 °F	Green	03/19/13	21:18	
46	8751	0.9	261.8	8748.90	-26.44	-26.48	-7.10	27.41	195.00	0.15	129 °F	Yellow	03/20/13	2:08	
47	8937	1.2	253.5	8934.86	-27.18	-27.24	-10.41	29.16	200.92	0.18	131 °F	Green	03/20/13	6:35	
48	9122	0.8	241.4	9119.84	-28.34	-28.41	-13.40	31.41	205.26	0.24	131 °F	Yellow	03/20/13	11:51	
49	9308	1.3	20.0	9305.82	-26.97	-27.05	-13.82	30.37	207.07	1.06	133 °F	Yellow	03/20/13	18:21	

MWD SURVEYS

Customer: XTO Energy
Well: Estancia SED 2H
Field/Block: Bone Spring
County: Lea County
State: New Mexico

PGS Job #: LNM5102813
MWD Operator: Rodney Lambert
Directional Driller: Jose Perez
Date of First Survey: March 12, 2013
Date of Last Survey: April 7, 2013



Total Correction: 7.02 East Grid

Vertical Section Plane: 359.70

Nominal Dip Angle: 60.17

Magnetic Field Strength: 0.485

Measured					Coordinates			Closure					Vib/Shk			
Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	Temp (°F)	Color	Date	Time	Flow Rate		
50	9401	1.3	13.1	9398.80	-24.96	-25.03	-13.22	28.30	207.84	0.17	135 °F	Yellow	03/20/13	20:34		
51	9587	2.5	352.5	9584.69	-18.88	-18.95	-13.27	23.14	215.00	0.73	131 °F	Yellow	03/21/13	14:09		
52	9773	2.5	4.2	9770.52	-10.81	-10.88	-13.50	17.34	231.13	0.27	135 °F	Yellow	03/21/13	21:45		
53	9959	2.2	22.0	9956.36	-3.46	-3.53	-11.87	12.38	253.45	0.42	135 °F	Pink	03/22/13	4:10	385 (gpm)	
54	10145	2.1	97.4	10142.27	-0.62	-0.65	-7.15	7.18	264.77	1.41	136 °F	Pink	03/22/13	11:12	419 (gpm)	
55	10331	1.9	91.4	10328.15	-1.17	-1.17	-0.69	1.36	210.53	0.16	138 °F	Pink	03/22/13	20:00	390 (gpm)	
56	10375	2.0	94.1	10372.13	-1.25	-1.24	0.81	1.48	147.03	0.31	138 °F	Pink	03/22/13	22:05	410 (gpm)	
57	10445	3.9	29.0	10442.05	0.74	0.75	3.18	3.27	76.67	5.08	131 °F	Green	03/25/13	12:25	406 (gpm)	
58	10476	6.9	15.6	10472.91	3.45	3.47	4.19	5.44	50.38	10.43	133 °F	Green	03/25/13	15:31	419 (gpm)	
59	10507	9.9	13.1	10503.57	7.83	7.86	5.30	9.48	33.97	9.75	133 °F	Green	03/25/13	17:54	418 (gpm)	
60	10538	13.0	13.5	10533.95	13.81	13.85	6.71	15.39	25.87	10.00	135 °F	Green	03/25/13	20:13	430 (gpm)	
61	10569	15.9	13.7	10563.97	21.32	21.36	8.53	23.01	21.77	9.36	136 °F	Green	03/25/13	22:56	421 (gpm)	
62	10600	18.9	11.9	10593.54	30.35	30.41	10.58	32.19	19.18	9.83	136 °F	Green	03/26/13	1:18	421 (gpm)	
63	10631	21.4	10.1	10622.65	40.82	40.89	12.60	42.79	17.13	8.31	136 °F	Green	03/26/13	2:57	421 (gpm)	
64	10662	23.4	8.5	10651.31	52.47	52.55	14.51	54.51	15.43	6.74	138 °F	Green	03/26/13	5:03	424 (gpm)	
65	10693	25.6	7.4	10679.51	65.19	65.28	16.28	67.28	14.00	7.25	138 °F	Green	03/26/13	8:14	418 (gpm)	
66	10724	27.4	6.3	10707.25	78.91	79.01	17.92	81.02	12.78	6.02	140 °F	Green	03/26/13	11:31	450 (gpm)	
67	10755	29.3	5.2	10734.54	93.55	93.66	19.39	95.64	11.70	6.36	140 °F	Green	03/26/13	15:03	453 (gpm)	
68	10787	31.7	4.8	10762.11	109.72	109.83	20.81	111.79	10.73	7.53	142 °F	Green	03/26/13	19:15	451 (gpm)	
69	10818	33.5	5.1	10788.22	126.35	126.47	22.25	128.41	9.98	5.83	144 °F	Green	03/26/13	22:41	454 (gpm)	
70	10849	35.7	3.8	10813.74	143.90	144.02	23.61	145.94	9.31	7.49	144 °F	Green	03/27/13	3:49	447 (gpm)	
71	10880	38.3	3.4	10838.49	162.51	162.64	24.78	164.52	8.66	8.42	145 °F	Green	03/27/13	7:18	454 (gpm)	
72	10911	40.9	2.6	10862.38	182.23	182.37	25.81	184.19	8.06	8.55	142 °F	Yellow	03/28/13	0:25	450 (gpm)	
73	10942	43.7	1.3	10885.30	203.08	203.22	26.51	204.94	7.43	9.46	144 °F	Yellow	03/28/13	3:30	447 (gpm)	
74	10973	47.6	359.5	10906.97	225.24	225.38	26.66	226.95	6.75	13.25	145 °F	Yellow	03/28/13	6:16	446 (gpm)	
75	11004	51.5	358.0	10927.08	248.82	248.96	26.13	250.33	5.99	13.11	147 °F	Pink	03/28/13	9:28	443 (gpm)	

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Measured Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure		DLS	Temp (°F)	Vib/Shk	Color	Date	Time	Flow Rate
					+N / -S	+E / -W	Dist.	Angle							
76	11035	55.2	357.3	10945.58	273.67	273.80	25.11	274.95	5.24	12.07	147 °F	Pink	03/28/13	13:10	443 (gpm)
77	11066	58.5	357.4	10962.53	299.60	299.73	23.91	300.68	4.56	10.65	147 °F	Pink	03/28/13	14:29	447 (gpm)
78	11097	61.8	358.5	10977.96	326.47	326.59	22.95	327.40	4.02	11.08	149 °F	Pink	03/28/13	16:51	447 (gpm)
79	11128	65.4	359.5	10991.74	354.23	354.35	22.47	355.06	3.63	11.97	151 °F	Pink	03/28/13	20:20	454 (gpm)
80	11159	67.8	359.6	11004.05	382.68	382.80	22.25	383.44	3.33	7.75	147 °F	Green	03/29/13	0:08	337 (gpm)
81	11190	70.9	359.2	11014.98	411.68	411.80	21.94	412.39	3.05	10.07	147 °F	Green	03/29/13	4:09	347 (gpm)
82	11221	74.3	358.7	11024.25	441.25	441.37	21.40	441.89	2.78	11.08	147 °F	Yellow	03/29/13	7:56	378 (gpm)
83	11252	77.2	358.2	11031.88	471.29	471.40	20.59	471.85	2.50	9.48	147 °F	Yellow	03/29/13	11:31	367 (gpm)
84	11283	80.0	358.5	11038.01	501.67	501.78	19.71	502.16	2.25	9.08	145 °F	Green	03/29/13	16:08	360 (gpm)
85	11314	82.6	358.4	11042.70	532.30	532.41	18.88	532.74	2.03	8.39	147 °F	Green	03/29/13	19:42	347 (gpm)
86	11345	83.4	358.2	11046.47	563.06	563.16	17.97	563.45	1.83	2.66	144 °F	Yellow	03/30/13	1:31	347 (gpm)
87	11381	86.6	358.2	11049.61	598.91	599.00	16.84	599.24	1.61	8.89	140 °F	Yellow	03/30/13	20:26	415 (gpm)
88	11412	90.3	358.0	11050.45	629.88	629.97	15.82	630.17	1.44	11.95	140 °F	Green	03/30/13	21:14	421 (gpm)
89	11442	91.9	358.1	11049.87	659.86	659.95	14.80	660.11	1.28	5.34	142 °F	Yellow	03/30/13	22:21	421 (gpm)
90	11473	92.0	358.2	11048.82	690.83	690.91	13.80	691.05	1.14	0.46	140 °F	Yellow	03/31/13	23:52	418 (gpm)
91	11535	88.2	357.9	11048.71	752.79	752.86	11.69	752.95	0.89	6.15	140 °F	Yellow	03/31/13	2:30	416 (gpm)
92	11566	87.7	357.4	11049.82	783.75	783.82	10.42	783.89	0.76	2.28	144 °F	Yellow	03/31/13	3:29	394 (gpm)
93	11628	88.6	357.4	11051.82	845.67	845.72	7.61	845.75	0.52	1.45	145 °F	Yellow	03/31/13	5:38	374 (gpm)
94	11659	88.9	357.4	11052.50	876.64	876.68	6.20	876.70	0.41	0.97	145 °F	Yellow	03/31/13	7:06	404 (gpm)
95	11752	89.2	358.7	11054.04	969.58	969.61	3.04	969.62	0.18	1.43	147 °F	Yellow	03/31/13	9:08	418 (gpm)
96	11845	89.1	358.9	11055.42	1062.56	1062.58	1.09	1062.58	0.06	0.24	149 °F	Pink	03/31/13	11:17	393 (gpm)
97	11938	90.3	359.8	11055.91	1155.56	1155.57	0.03	1155.57	0.00	1.61	149 °F	Pink	03/31/13	14:56	415 (gpm)
98	12032	89.6	359.5	11055.99	1249.56	1249.57	-0.54	1249.57	359.98	0.81	151 °F	Yellow	03/31/13	17:19	418 (gpm)
99	12124	90.2	359.7	11056.15	1341.55	1341.57	-1.18	1341.57	359.95	0.69	151 °F	Pink	03/31/13	20:52	412 (gpm)
100	12217	90.5	359.6	11055.58	1434.55	1434.56	-1.75	1434.56	359.93	0.34	153 °F	Pink	03/31/13	22:34	421 (gpm)
101	12310	90.2	359.5	11055.01	1527.55	1527.56	-2.48	1527.56	359.91	0.34	154 °F	Yellow	04/01/13	0:58	421 (gpm)

MWD SURVEYS

Customer: XTO Energy
Well: Estancia SED 2H
Field/Block: Bone Spring
County: Lea County
State: New Mexico

PGS Job #: LNM5102813
MWD Operator: Rodney Lambert
Directional Driller: Jose Perez
Date of First Survey: March 12, 2013
Date of Last Survey: April 7, 2013



Total Correction: 7.02 East Grid

Vertical Section Plane: 359.70

Nominal Dip Angle: 60.17

Magnetic Field Strength: 0.485

Measured			Coordinates					Closure			Vib/Shk				
Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	Temp (°F)	Color	Date	Time	Flow Rate	
102	12403	90.3	359.2	11054.61	1620.55	1620.55	-3.54	1620.56	359.87	0.34	154 °F	Yellow	04/01/13	2:58	415 (gpr
103	12496	89.2	358.6	11055.01	1713.54	1713.53	-5.32	1713.54	359.82	1.35	145 °F	Pink	04/01/13	22:47	427 (gp,
104	12589	89.8	358.3	11055.82	1806.51	1806.49	-7.84	1806.51	359.75	0.72	149 °F	Yellow	04/02/13	2:48	410 (gpm)
105	12682	91.6	359.6	11054.69	1899.49	1899.47	-9.54	1899.49	359.71	2.39	151 °F	Yellow	04/02/13	6:26	424 (gpm)
106	12775	92.3	359.5	11051.52	1992.43	1992.41	-10.27	1992.43	359.70	0.76	151 °F	Yellow	04/02/13	9:49	424 (gpm)
107	12868	91.7	0.1	11048.28	2085.38	2085.35	-10.60	2085.38	359.71	0.91	151 °F	Pink	04/02/13	13:27	421 (gpm)
108	12961	90.0	0.4	11046.90	2178.36	2178.34	-10.19	2178.36	359.73	1.86	151 °F	Pink	04/02/13	17:48	402 (gpm)
109	13054	88.6	359.9	11048.03	2271.35	2271.33	-9.95	2271.35	359.75	1.60	151 °F	Pink	04/02/13	22:14	402 (gpm)
110	13147	88.9	359.6	11050.06	2364.32	2364.30	-10.35	2364.32	359.75	0.46	153 °F	Yellow	04/03/13	1:35	413 (gpm)
111	13240	89.8	359.4	11051.12	2457.32	2457.29	-11.16	2457.32	359.74	0.99	153 °F	Yellow	04/03/13	4:36	418 (gpm)
112	13333	89.9	360.0	11051.36	2550.32	2550.29	-11.65	2550.32	359.74	0.65	153 °F	Yellow	04/03/13	7:52	418 (gpm)
113	13364	89.8	359.6	11051.44	2581.32	2581.29	-11.76	2581.32	359.74	1.33	153 °F	Yellow	04/03/13	9:15	410 (gpm)
114	13426	90.1	359.2	11051.50	2643.31	2643.29	-12.41	2643.31	359.73	0.81	153 °F	Yellow	04/03/13	11:36	269 (gpm)
115	13520	90.0	359.7	11051.41	2737.31	2737.28	-13.31	2737.31	359.72	0.54	154 °F	Yellow	04/03/13	15:47	421 (gpm)
116	13612	90.9	0.2	11050.69	2829.31	2829.28	-13.39	2829.31	359.73	1.12	154 °F	Yellow	04/03/13	19:43	402 (gpr
117	13705	92.0	359.7	11048.34	2922.28	2922.25	-13.47	2922.28	359.74	1.30	156 °F	Yellow	04/03/13	23:16	410 (gpm)
118	13799	91.2	359.5	11045.71	3016.24	3016.21	-14.13	3016.24	359.73	0.88	154 °F	Yellow	04/04/13	4:13	415 (gpm)
119	13891	89.9	359.6	11044.83	3108.23	3108.20	-14.85	3108.23	359.73	1.42	156 °F	Yellow	04/04/13	9:07	410 (gpm)
120	13916	90.1	359.4	11044.83	3133.23	3133.20	-15.07	3133.23	359.72	1.13	156 °F	Pink	04/05/13	5:00	381 (gpm)
121	13947	90.7	359.5	11044.61	3164.23	3164.19	-15.37	3164.23	359.72	1.96	158 °F	Pink	04/05/13	6:25	362 (gpm)
122	14009	91.3	360.0	11043.53	3226.22	3226.18	-15.64	3226.22	359.72	1.26	158 °F	Red	04/05/13	8:37	263 (gpm)
123	14040	91.7	0.2	11042.72	3257.21	3257.17	-15.58	3257.21	359.73	1.44	158 °F	Pink	04/05/13	10:01	336 (gpm)
124	14102	92.0	0.5	11040.72	3319.17	3319.14	-15.20	3319.17	359.74	0.68	160 °F	Pink	04/05/13	12:34	331 (gpm)
125	14195	91.9	359.9	11037.55	3412.11	3412.08	-14.88	3412.12	359.75	0.65	160 °F	Pink	04/05/13	15:46	338 (gpm)
126	14257	91.3	359.7	11035.82	3474.09	3474.06	-15.10	3474.09	359.75	1.02	160 °F	Pink	04/05/13	17:51	327 (gpm)
127	14288	91.4	359.5	11035.09	3505.08	3505.05	-15.31	3505.08	359.75	0.72	162 °F	Pink	04/05/13	18:51	326 (gpm)

MWD SURVEYS

Customer: XTO Energy
Well: Estancia SED 2H
Field/Block: Bone Spring
County: Lea County
State: New Mexico

PGS Job #: LNM5102813
MWD Operator: Rodney Lambert
Directional Driller: Jose Perez
Date of First Survey: March 12, 2013
Date of Last Survey: April 7, 2013



Total Correction: 7.02 East Grid

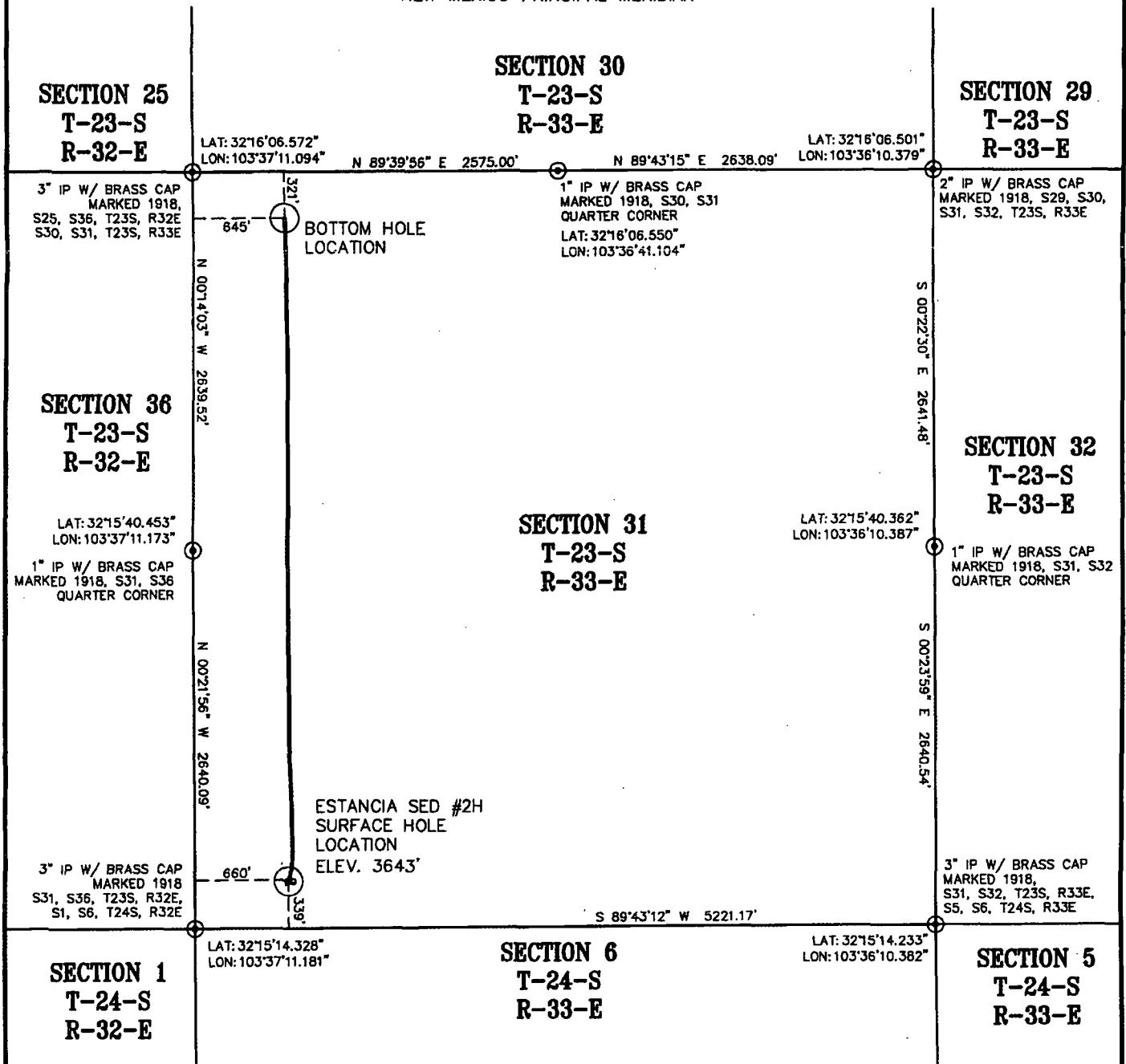
Vertical Section Plane: 359.70

Nominal Dip Angle: 60.17

Magnetic Field Strength: 0.485

Measured		Coordinates		Closure		Vib/Shk									
Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	Temp (°F)	Color	Date	Time	Flow Rate	
128	14381	91.8	359.3	11032.50	3598.04	3598.01	-16.29	3598.04	359.74	0.48	162 °F	Yellow	04/05/13	21:52	344 (gpr)
129	14412	92.0	359.2	11031.47	3629.03	3628.99	-16.69	3629.03	359.74	0.72	162 °F	Yellow	04/05/13	22:53	331 (gpr)
130	14474	91.3	359.8	11029.68	3691.00	3690.96	-17.23	3691.00	359.73	1.49	162 °F	Yellow	04/06/13	1:03	326 (gpm)
131	14505	91.1	359.8	11029.03	3721.99	3721.95	-17.34	3721.99	359.73	0.65	162 °F	Yellow	04/06/13	2:07	337 (gpm)
132	14567	90.9	359.3	11027.95	3783.98	3783.94	-17.83	3783.98	359.73	0.87	162 °F	Yellow	04/06/13	4:06	334 (gpm)
133	14598	90.9	358.9	11027.47	3814.98	3814.93	-18.31	3814.98	359.72	1.29	162 °F	Yellow	04/06/13	5:42	328 (gpm)
134	14659	90.5	358.5	11026.72	3875.96	3875.91	-19.70	3875.96	359.71	0.93	162 °F	Pink	04/06/13	8:14	345 (gpm)
135	14690	90.9	358.4	11026.34	3906.95	3906.90	-20.54	3906.95	359.70	1.33	162 °F	Pink	04/06/13	9:12	352 (gpm)
136	14752	90.6	357.9	11025.53	3968.92	3968.86	-22.54	3968.92	359.67	0.94	163 °F	Yellow	04/06/13	12:16	340 (gpm)
137	14783	90.5	358.1	11025.23	3999.91	3999.84	-23.62	3999.91	359.66	0.72	163 °F	Yellow	04/06/13	14:04	344 (gpm)
138	14845	91.1	358.9	11024.37	4061.89	4061.81	-25.24	4061.89	359.64	1.61	163 °F	Pink	04/06/13	17:26	360 (gpm)
139	14876	91.0	359.0	11023.80	4092.88	4092.80	-25.81	4092.88	359.64	0.46	163 °F	Pink	04/06/13	18:48	378 (gpm)
140	14938	91.4	358.9	11022.50	4154.86	4154.78	-26.95	4154.86	359.63	0.67	163 °F	Pink	04/06/13	22:34	371 (gpm)
141	14969	91.3	358.8	11021.77	4185.85	4185.76	-27.57	4185.85	359.62	0.46	165 °F	Yellow	04/07/13	0:01	360 (gpm)
142	15031	91.4	358.2	11020.31	4247.82	4247.72	-29.19	4247.82	359.61	0.98	165 °F	Yellow	04/07/13	2:54	371 (gpr)
143	15062	91.6	358.1	11019.50	4278.80	4278.70	-30.19	4278.80	359.60	0.72	165 °F	Yellow	04/07/13	4:26	356 (gpm)
144	15124	90.9	358.5	11018.14	4340.76	4340.65	-32.03	4340.77	359.58	1.30	165 °F	Pink	04/07/13	8:04	371 (gpm)
145	15155	90.7	358.5	11017.71	4371.75	4371.64	-32.84	4371.76	359.57	0.65	167 °F	Pink	04/07/13	9:16	383 (gpm)
146	15217	91.3	358.9	11016.63	4433.73	4433.62	-34.25	4433.75	359.56	1.16	167 °F	Pink	04/07/13	12:28	387 (gpm)
147	15248	91.6	358.5	11015.85	4464.72	4464.60	-34.95	4464.73	359.55	1.61	167 °F	Yellow	04/07/13	13:40	383 (gpm)
148	15310	91.9	358.4	11013.95	4526.68	4526.55	-36.63	4526.69	359.54	0.51	167 °F	Pink	04/07/13	16:30	388 (gpm)
149	15353	92.0	358.1	11012.49	4569.64	4569.50	-37.94	4569.66	359.52	0.74	169 °F	Pink	04/07/13	18:27	356 (gpm)
PTB	15403	92.0	358.1	11010.74	4619.59	4619.44	-39.60	4619.61	359.51	0.00					

LEA COUNTY, NEW MEXICO
SECTION 31, TOWNSHIP 23 SOUTH, RANGE 33 EAST
NEW MEXICO PRINCIPAL MERIDIAN



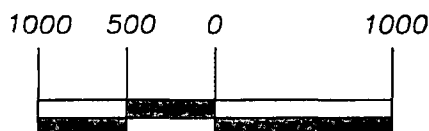
APPROXIMATELY 26.6 MILES NORTHWEST OF JAL, NEW MEXICO

SURFACE LOCATION:

NAD 83, NEW MEXICO EAST ZONE COORD'S
OF THE ESTANCIA SED #2H: N(Y)= 457206.8', E(X)= 762581.4'.
NAD 27, NEW MEXICO EAST ZONE COORD'S
OF THE ESTANCIA SED #2H: N(Y)= 457147.7', E(X)= 721397.7'.
WGS84, LATITUDE & LONGITUDE OF THE ESTANCIA SED #2H:
LAT= N 32°15'17.675", W 103°37'03.492".

BOTTOM HOLE LOCATION:

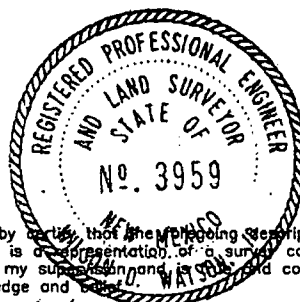
NAD 83, NEW MEXICO EAST ZONE COORD'S
OF THE ESTANCIA SED #2H: N(Y)= 461826.3', E(X)= 762541.8'.
NAD 27, NEW MEXICO EAST ZONE COORD'S
OF THE ESTANCIA SED #2H: N(Y)= 461767.1', E(X)= 721358.2'.
WGS84, LATITUDE & LONGITUDE OF THE ESTANCIA SED #2H:
LAT= N 32°16'03.388", W 103°37'03.595".



SCALE 1" = 1000'
GRID

BOTTOM HOLE LOCATION
AND AS-DRILLED PATH
SHOWN HEREON FOR THE
#2H WAS PROVIDED BY
XTO ENERGY.

LEGEND:
○ WELL
● IRON PIPE FOUND (IP)



I hereby certify that the foregoing description and plat attached hereto is a representation of a survey completed on the ground under my supervision and is true and correct to the best of my knowledge and belief.

DATE

W.D. WATSON, Jr.

NEW MEXICO P.L.S. No. 3959

John F. Watson & Company

LAND & DEVELOPMENT SERVICES
PROFESSIONAL LAND SURVEYORS

200 N. Lomine, Suite 220
Midland, Texas 79701
jwatson@windearthwater.com

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fax. (432) 520-2404
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Your Partner for Responsible Development

Watson
Professional
Group Inc



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MIDLAND, TEXAS
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(432) 520-9200
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wdwatson@wpg-usa.com

CONSULTING ENGINEERS, LAND SURVEYORS & PLANNERS

XTO ENERGY, INC.
ESTANCIA SED #2H
SHL: 339' FSL & 660' FWL
BHL: 321' FNL & 645' FWL
SECTION 31
T-23-S,
R-33-E,
LEA COUNTY,
NEW MEXICO

DATE: 06/20/13
JOB No.: 13-0044
FIELD BOOK: JC 134/75
DRAWN BY: XAC
CWD BY: JFW/KP
FILE: S:\2012\T-23-S,
R-33-E, LEA CO, NEW
MEXICO
PAGE 1 OF 1

DEC 02 2013