

30-025-39296

SHERIDAN PRODUCTION COMPANY

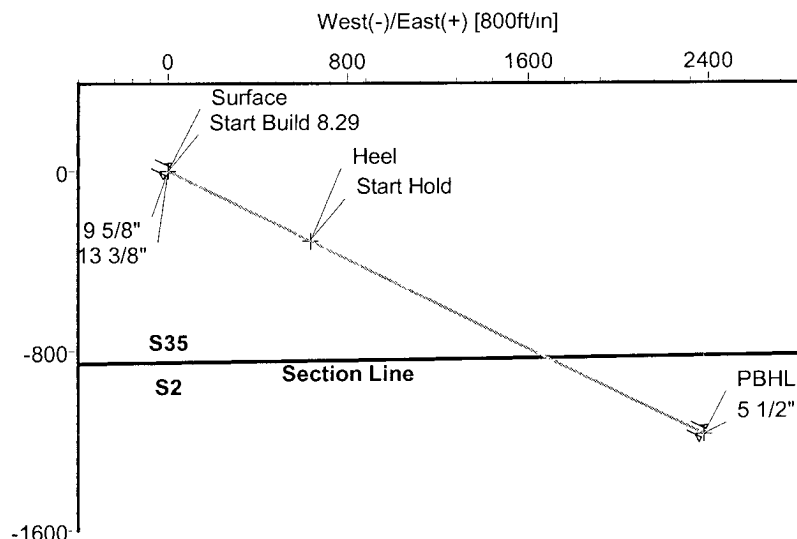
Field: Lea County, NM
 Site: NVANU 13-2
 Well: 13-2
 Wellpath: Lateral 1
 Plan: Plan #1



Azimuths to Grid North
 True North: -0.43°
 Magnetic North: 7.49°

Magnetic Field
 Strength: 49332nT
 Dip Angle: 60.88°
 Date: 10/16/2008
 Model: igrf2005

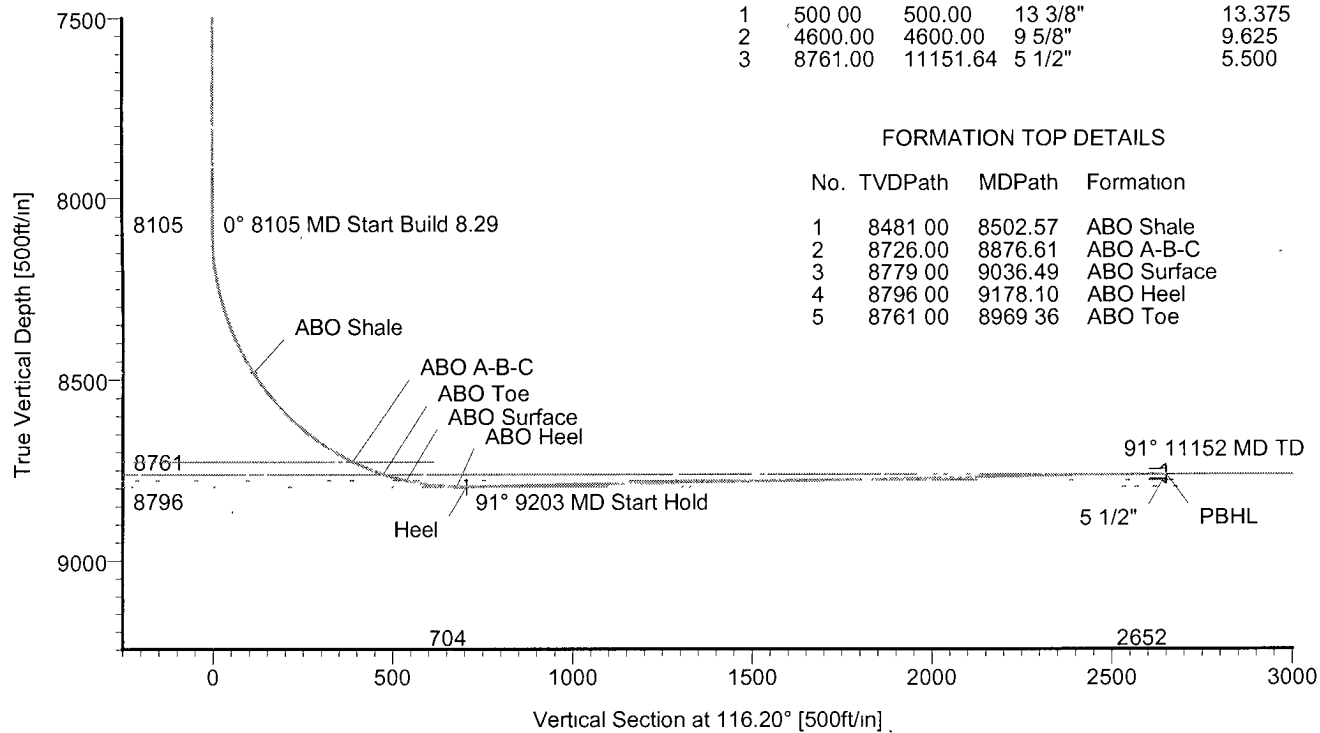
South(-)/North(+) [800ft/in]

**CASING DETAILS**

No.	TVD	MD	Name	Size
1	500.00	500.00	13 3/8"	13.375
2	4600.00	4600.00	9 5/8"	9.625
3	8761.00	11151.64	5 1/2"	5.500

FORMATION TOP DETAILS

No.	TVDPATH	MDPATH	FORMATION
1	8481.00	8502.57	ABO Shale
2	8726.00	8876.61	ABO A-B-C
3	8779.00	9036.49	ABO Surface
4	8796.00	9178.10	ABO Heel
5	8761.00	8969.36	ABO Toe

**TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	32°52'25.517N	103°31'57.546W	Point
PBHL	8761.00	-1170.74	2379.43	32°52'13.754N	103°31'29.753W	Point
Heel	8796.00	-311.51	633.12	32°52'22.387N	103°31'50.150W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	116.20	0.00	0.00	0.00	0.00	0.00	0.00	
2	8104.97	0.00	116.20	8104.97	0.00	0.00	0.00	116.20	0.00	
3	9203.03	91.03	116.20	8796.00	-310.61	631.28	8.29	116.20	703.56	
4	11151.64	91.03	116.20	8761.00	-1170.74	2379.43	0.00	0.00	2651.85	PBHL

STRATA
 DIRECTIONAL TECHNOLOGY LLC

STRATA DIRECTIONAL TECHNOLOGY, LLC.
 911 Regional Park Drive Houston, Texas 77060
 Phone: 713-934-9600 Fax: 713-934-9067

Plan Plan #1 (13-2/Lateral 1)

Created By David Vogler

Date 10/16/2008

Checked

Date

Strata Directional Technology, LLC.

Planning Report

Company:	SHERIDAN PRODUCTION COMPANY	Date:	10/16/2008	Time:	14:52:02	Page:	2
Field:	Lea County, NM	Co-ordinate(NE) Reference:	Well 13-2, Grid North				
Site:	NVANU 13-2	Vertical (TVD) Reference:	4056' Ground 4056 0				
Well:	13-2	Section (VS) Reference:	Well (0 00N,0 00E,116 20Azi)				
Wellpath:	Lateral 1	Plan:	Plan #1				

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2500.00	0.00	116.20	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	116.20	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	116.20	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	116.20	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	116.20	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	116.20	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	116.20	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	116.20	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	116.20	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	116.20	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	116.20	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	116.20	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	116.20	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	116.20	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	116.20	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	116.20	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	116.20	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	116.20	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	116.20	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	116.20	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	116.20	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	9 5/8"
4600.00	0.00	116.20	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4700.00	0.00	116.20	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4800.00	0.00	116.20	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	116.20	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	116.20	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	116.20	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	116.20	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	116.20	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	116.20	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	116.20	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	116.20	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5700.00	0.00	116.20	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5800.00	0.00	116.20	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5900.00	0.00	116.20	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	116.20	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6100.00	0.00	116.20	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6200.00	0.00	116.20	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6300.00	0.00	116.20	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6400.00	0.00	116.20	6400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6500.00	0.00	116.20	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6600.00	0.00	116.20	6600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6700.00	0.00	116.20	6700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6800.00	0.00	116.20	6800.00	0.00	0.00	0.00	0.00	0.00	0.00	
6900.00	0.00	116.20	6900.00	0.00	0.00	0.00	0.00	0.00	0.00	
7000.00	0.00	116.20	7000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7100.00	0.00	116.20	7100.00	0.00	0.00	0.00	0.00	0.00	0.00	
7200.00	0.00	116.20	7200.00	0.00	0.00	0.00	0.00	0.00	0.00	
7300.00	0.00	116.20	7300.00	0.00	0.00	0.00	0.00	0.00	0.00	
7400.00	0.00	116.20	7400.00	0.00	0.00	0.00	0.00	0.00	0.00	
7500.00	0.00	116.20	7500.00	0.00	0.00	0.00	0.00	0.00	0.00	
7600.00	0.00	116.20	7600.00	0.00	0.00	0.00	0.00	0.00	0.00	
7700.00	0.00	116.20	7700.00	0.00	0.00	0.00	0.00	0.00	0.00	

Strata Directional Technology, LLC.

Planning Report

Company: SHERIDAN PRODUCTION COMPANY
Field: Lea County, NM
Site: NVANU 13-2
Well: 13-2
Wellpath: Lateral 1

Date: 10/16/2008
Co-ordinate(NE) Reference: Well. 13-2, Grid North
Vertical (TVD) Reference: 4056' Ground 4056 0
Section (VS) Reference: Well (0.00N,0 00E,116 20Az)
Plan: Plan #1

Page: 3

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7800.00	0.00	116.20	7800.00	0.00	0.00	0.00	0.00	0.00	0.00	
7900.00	0.00	116.20	7900.00	0.00	0.00	0.00	0.00	0.00	0.00	
8000.00	0.00	116.20	8000.00	0.00	0.00	0.00	0.00	0.00	0.00	
8104.97	0.00	116.20	8104.97	0.00	0.00	0.00	0.00	0.00	0.00	
8150.00	3.73	116.20	8149.97	-0.65	1.32	1.47	8.29	8.29	0.00	
8200.00	7.88	116.20	8199.70	-2.88	5.85	6.52	8.29	8.29	0.00	
8250.00	12.02	116.20	8248.94	-6.69	13.60	15.16	8.29	8.29	0.00	
8300.00	16.17	116.20	8297.42	-12.07	24.53	27.34	8.29	8.29	0.00	
8350.00	20.31	116.20	8344.90	-18.98	38.57	42.98	8.29	8.29	0.00	
8400.00	24.46	116.20	8391.12	-27.38	55.65	62.02	8.29	8.29	0.00	
8450.00	28.60	116.20	8435.85	-37.24	75.68	84.35	8.29	8.29	0.00	
8500.00	32.75	116.20	8478.84	-48.50	98.57	109.85	8.29	8.29	0.00	
8550.00	36.89	116.20	8519.88	-61.10	124.18	138.40	8.29	8.29	0.00	
8600.00	41.04	116.20	8558.75	-74.98	152.38	169.83	8.29	8.29	0.00	
8650.00	45.18	116.20	8595.24	-90.06	183.04	203.99	8.29	8.29	0.00	
8700.00	49.33	116.20	8629.17	-106.27	215.98	240.71	8.29	8.29	0.00	
8750.00	53.47	116.20	8660.36	-123.51	251.03	279.77	8.29	8.29	0.00	
8800.00	57.62	116.20	8688.64	-141.71	288.02	320.99	8.29	8.29	0.00	
8850.00	61.76	116.20	8713.87	-160.77	326.74	364.15	8.29	8.29	0.00	
8900.00	65.91	116.20	8735.91	-180.57	367.00	409.02	8.29	8.29	0.00	
8950.00	70.05	116.20	8754.65	-201.03	408.58	455.36	8.29	8.29	0.00	
9000.00	74.20	116.20	8769.99	-222.04	451.27	502.94	8.29	8.29	0.00	
9050.00	78.34	116.20	8781.86	-243.47	494.84	551.50	8.29	8.29	0.00	
9100.00	82.49	116.20	8790.18	-265.24	539.07	600.79	8.29	8.29	0.00	
9150.00	86.63	116.20	8794.92	-287.21	583.72	650.55	8.29	8.29	0.00	
9203.03	91.03	116.20	8796.00	-310.61	631.28	703.56	8.29	8.29	0.00	
9300.00	91.03	116.20	8794.26	-353.41	718.28	800.51	0.00	0.00	0.00	
9400.00	91.03	116.20	8792.46	-397.55	807.99	900.50	0.00	0.00	0.00	
9500.00	91.03	116.20	8790.67	-441.69	897.70	1000.48	0.00	0.00	0.00	
9600.00	91.03	116.20	8788.87	-485.83	987.41	1100.46	0.00	0.00	0.00	
9700.00	91.03	116.20	8787.08	-529.97	1077.13	1200.45	0.00	0.00	0.00	
9800.00	91.03	116.20	8785.28	-574.12	1166.84	1300.43	0.00	0.00	0.00	
9900.00	91.03	116.20	8783.48	-618.26	1256.55	1400.41	0.00	0.00	0.00	
10000.00	91.03	116.20	8781.69	-662.40	1346.26	1500.40	0.00	0.00	0.00	
10100.00	91.03	116.20	8779.89	-706.54	1435.98	1600.38	0.00	0.00	0.00	
10200.00	91.03	116.20	8778.09	-750.68	1525.69	1700.37	0.00	0.00	0.00	
10300.00	91.03	116.20	8776.30	-794.82	1615.40	1800.35	0.00	0.00	0.00	
10400.00	91.03	116.20	8774.50	-838.96	1705.11	1900.33	0.00	0.00	0.00	
10500.00	91.03	116.20	8772.71	-883.10	1794.83	2000.32	0.00	0.00	0.00	
10600.00	91.03	116.20	8770.91	-927.24	1884.54	2100.30	0.00	0.00	0.00	
10700.00	91.03	116.20	8769.11	-971.38	1974.25	2200.29	0.00	0.00	0.00	
10800.00	91.03	116.20	8767.32	-1015.53	2063.96	2300.27	0.00	0.00	0.00	
10900.00	91.03	116.20	8765.52	-1059.67	2153.68	2400.25	0.00	0.00	0.00	
11000.00	91.03	116.20	8763.72	-1103.81	2243.39	2500.24	0.00	0.00	0.00	
11100.00	91.03	116.20	8761.93	-1147.95	2333.10	2600.22	0.00	0.00	0.00	
11151.64	91.03	116.20	8761.00	-1170.74	2379.43	2651.85	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->		
Surface			0.00	0.00	0.00	682539.33	787161.61	32	52	25 517 N	103	31	57.546 W
PBHL			8761.00	-1170.74	2379.43	681368.59	789541.04	32	52	13 754 N	103	31	29 753 W

Strata Directional Technology, LLC.

Planning Report

Company: SHERIDAN PRODUCTION COMPANY
Field: Lea County, NM
Site: NVANU 13-2
Well: 13-2
Wellpath: Lateral 1

Date: 10/16/2008 **Time:** 14 52.02 **Page:** 4
Co-ordinate(NE) Reference: Well 13-2, Grid North
Vertical (TVD) Reference: 4056' Ground 4056 0
Section (VS) Reference: Well (0.00N,0 00E,116 20Azi)
Plan: Plan #1

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
Heel			8796 00	-311 51	633 12	682227 82	787794.73	32 52 22 387 N	103 31 50 150 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
500.00	500.00	13.375	17 500	13 3/8"
4600.00	4600 00	9 625	12 250	9 5/8"
11151 64	8761 00	5.500	6 000	5 1/2"