

Results of Directional Survey

API number:	30-025-38899		
OGRID:		Operator:	APACHE CORP
		Property:	NORTHEAST DRINKARD UNIT # 244

surface	ULSTR:	H	02	T 21S	R 37E
			3530	FSL	555 FEL

BH Loc	ULSTR:	H	02	T 21S	R 37E
			3524	FSL	353 FEL

	MD	N/S	E/W	VD
	5695	0.85	189.54	5685.62
TOP PERFS/OH	5822	0.43	192.31	5812.59
	5824	0.42	192.35	5814.59
	6809	1.50	200.05	6799.55
BOT PERFS/OH	6932	-0.11	199.84	6922.54
	6937	-0.18	199.83	6927.54

NEXT TO LAST	7066	-3.13	200.38	7056.50
LAST READING	7135	-4.82	201.24	7125.47
TD	7186	-6.07	201.88	7176.45

Surface Location	3530	FS	555	FE
Projected BHL	3524	FS	353	FE
Location of				
Top Perfs/OH	3530	FS	363	FE
Bottom Perfs/OH	3530	FS	355	FE

SUMMARY of Subsurface Locations

Surface Location	H-02-21S-37E	3530	FS	555	FE	Vert. Depth
Top Perfs/OH	H-02-21S-37E	3530	FS	363	FE	5812.59
Bottom Perfs/OH	H-02-21S-37E	3530	FS	355	FE	6922.54
Projected TD	H-02-21S-37E	3524	FS	353	FE	7176.45

Apache Corporation
6120 S. Yale Ste 1500
Tulsa, OK 74136

NEDU #244
Lea County, New Mexico

30-025-38899

2-215-37E

3530 FSL

360 FEL

424	4.24	1/4	0.44	1.86	1.86
1027	6.03	1/2	0.88	5.28	7.13
1456	4.29	3/4	1.31	5.63	12.76

SUR: H-2-21s-37e, 3530/S & 555/E
BHL: H-2-21s-37e, 3524/S & 353/E
API #30-025-38899

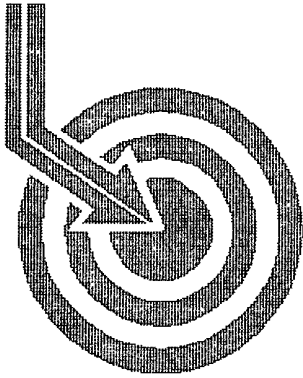


A handwritten signature of Archie Brown in black ink.

Archie Brown - General Manager

The attached instrument was acknowledged before me on the 29th day of September, 2008 by
Archie Brown - General Manager, CapStar Drilling, L.P.

A handwritten signature of Julie M. Wright in black ink.
Notary Public



Scientific Drilling

SUR: H-2-21s-37e, 3530/S & 555/E
BHL: H-2-21s-37e, 3524/S & 353/E
API #30-025-38899

APACHE CORPORATION

Field: NEDU
Site: Lea County, NM
Well: NEDU #244
Wellpath: DH - Job #32D0908685
Survey: 09/08/08-09/16/08

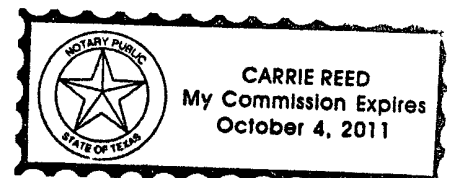
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Luhan*.....Company Representative

Notorized this date 17th of October, 2008.

Carrie Reed

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: APACHE CORPORATION	Date: 10/05/2008	Time: 10:30:33	Page: 1
Field: NEDU	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: NEDU #244	Section (VS) Reference:	Well (0.00N,0.00E,89.35Azi)	
Wellpath: VH - Job #32K0908696	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 09/09/08	Start Date: 09/09/2008
Company: Scientific Drilling Internatio	Engineer: Madrid/Lopez/Paredes
Tool: Keeper;Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.44	336.61	100.00	-0.15	0.35	-0.15	0.44	0.38	336.61
200.00	0.55	290.68	200.00	-0.74	0.87	-0.75	0.40	1.15	319.23
300.00	0.69	243.64	299.99	-1.73	0.78	-1.74	0.51	1.91	294.02
400.00	0.80	238.45	399.98	-2.88	0.14	-2.88	0.13	2.88	272.86
500.00	0.67	243.49	499.97	-4.00	-0.48	-4.00	0.15	4.02	263.11
600.00	0.41	246.59	599.97	-4.86	-0.89	-4.85	0.26	4.93	259.65
700.00	0.44	240.73	699.97	-5.52	-1.22	-5.51	0.05	5.64	257.56
800.00	0.55	234.87	799.96	-6.26	-1.68	-6.24	0.12	6.46	254.93
900.00	0.68	233.08	899.96	-7.13	-2.31	-7.10	0.13	7.47	251.97
1000.00	0.75	238.02	999.95	-8.17	-3.02	-8.13	0.09	8.67	249.66
1100.00	0.59	239.49	1099.94	-9.17	-3.62	-9.13	0.16	9.82	248.36
1200.00	0.84	238.01	1199.93	-10.25	-4.27	-10.20	0.25	11.06	247.27
1300.00	0.73	242.55	1299.92	-11.44	-4.95	-11.38	0.13	12.42	246.48
1400.00	1.02	231.15	1399.91	-12.71	-5.81	-12.64	0.34	13.91	245.33
1477.00	0.71	224.28	1476.90	-13.58	-6.58	-13.51	0.42	15.03	244.04



Scientific Drilling International

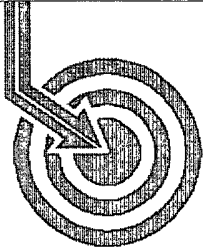
Survey Report

Company: APACHE CORPORATION	Date: 10/16/2008	Time: 20:06:20	Page: 1
Field: NEDU	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: NEDU #244	Section (VS) Reference:	Well (0.00N,0.00E,89.35Azi)	
Wellpath: DH - Job #32D0908685	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 09/08/08-09/16/08	Start Date: 09/08/2008
Company: Scientific Drilling Internatio	Engineer: Hernandez/Smith/Ramirez
Tool: MWD;MWD	Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1477.00	0.71	224.28	1476.90	-13.58	-6.58	-13.51	0.00	15.03	244.04
1671.00	0.51	188.56	1670.89	-14.57	-8.29	-14.48	0.22	16.68	240.20
1843.00	0.48	195.12	1842.89	-14.89	-9.75	-14.78	0.04	17.70	236.60
2014.00	0.61	199.43	2013.88	-15.40	-11.29	-15.27	0.08	18.99	233.51
2185.00	0.59	198.33	2184.87	-16.00	-12.99	-15.85	0.01	20.49	230.66
2357.00	1.10	75.70	2356.86	-14.68	-13.42	-14.53	0.87	19.78	227.27
2485.00	1.17	92.01	2484.84	-12.18	-13.16	-12.03	0.26	17.83	222.42
2657.00	1.59	88.62	2656.78	-8.04	-13.17	-7.89	0.25	15.35	210.93
2828.00	0.99	51.01	2827.74	-4.51	-12.18	-4.37	0.59	12.94	199.74
2999.00	0.31	78.41	2998.73	-2.90	-11.16	-2.77	0.43	11.50	193.94
3171.00	0.08	317.52	3170.73	-2.52	-10.98	-2.39	0.21	11.24	192.30
3342.00	0.48	266.97	3341.73	-3.31	-10.93	-3.19	0.25	11.38	196.28
3428.00	0.60	263.52	3427.73	-4.12	-11.00	-4.00	0.14	11.70	199.98
3514.00	1.29	85.82	3513.72	-3.60	-10.98	-3.48	2.20	11.52	197.59
3600.00	3.36	71.47	3599.64	-0.24	-10.11	-0.12	2.48	10.11	180.70
3685.00	4.86	73.26	3684.42	5.59	-8.28	5.69	1.77	10.04	145.51
3771.00	6.84	72.79	3769.97	14.00	-5.71	14.07	2.30	15.18	112.10
3900.00	5.92	69.05	3898.17	27.60	-1.06	27.62	0.78	27.64	92.20
4028.00	6.62	82.75	4025.41	41.13	2.23	41.10	1.29	41.16	86.89
4071.00	6.41	84.38	4068.13	45.98	2.78	45.95	0.65	46.03	86.54
4199.00	6.15	89.28	4195.37	59.95	3.56	59.92	0.47	60.02	86.60
4326.00	5.98	86.89	4321.66	73.37	4.01	73.33	0.24	73.44	86.87
4412.00	5.74	93.68	4407.21	82.13	3.98	82.09	0.85	82.19	87.23
4540.00	5.43	92.98	4534.60	94.56	3.25	94.53	0.25	94.58	88.03
4668.00	5.26	90.83	4662.04	106.47	2.85	106.44	0.21	106.48	88.47
4797.00	4.98	88.78	4790.53	117.98	2.88	117.95	0.26	117.99	88.60
4924.00	4.76	91.03	4917.07	128.76	2.91	128.73	0.23	128.76	88.71
5053.00	4.59	89.65	5045.64	139.27	2.84	139.24	0.16	139.27	88.83
5181.00	4.46	89.05	5173.24	149.37	2.96	149.34	0.11	149.37	88.87
5267.00	5.36	93.90	5258.93	156.71	2.74	156.69	1.15	156.72	89.00
5396.00	4.76	93.24	5387.42	168.06	2.03	168.05	0.47	168.06	89.31
5524.00	4.41	92.10	5515.01	178.27	1.55	178.27	0.28	178.28	89.50
5610.00	4.38	92.18	5600.76	184.86	1.30	184.85	0.04	184.86	89.60
5695.00	1.99	102.70	5685.62	189.54	0.85	189.54	2.88	189.54	89.74
5824.00	0.56	84.38	5814.59	192.34	0.42	192.35	1.14	192.35	89.87
5952.00	0.73	82.52	5942.58	193.78	0.59	193.78	0.13	193.78	89.83
6081.00	0.69	68.15	6071.57	195.32	0.98	195.32	0.14	195.32	89.71
6209.00	0.65	61.74	6199.56	196.68	1.61	196.67	0.07	196.68	89.53
6338.00	0.37	71.71	6328.56	197.72	2.09	197.71	0.23	197.72	89.39
6466.00	0.49	89.04	6456.55	198.66	2.23	198.65	0.14	198.66	89.36
6595.00	0.35	124.05	6585.55	199.54	2.02	199.53	0.22	199.54	89.42
6723.00	0.14	117.70	6713.55	200.00	1.73	199.99	0.17	200.00	89.51
6809.00	0.24	190.50	6799.55	200.06	1.50	200.05	0.28	200.06	89.57
6937.00	1.28	186.86	6927.54	199.82	-0.18	199.83	0.81	199.83	90.05
7066.00	1.49	154.58	7056.50	200.33	-3.13	200.38	0.62	200.40	90.89
7135.00	1.67	151.57	7125.47	201.18	-4.82	201.24	0.29	201.30	91.37



Scientific
Drilling

Field: NEDU
Site: Lea County, NM
Well: NEDU #244
Wellpath: DH - Job #32D0908685
Survey: 09/08/08-09/16/08

