

S

WELL NAME AND NUMBER: BARNSDALL FED #019

30-015-39157

LOCATION: SEC. 26, TOWNSHIP 17S, RANGE 29E NMPM; EDDY COUNTY, NEW MEXICO

(New Mexico give U, S, T, & R)

OPERATOR: **APACHE CORPORATION**

DRILLING CONTRACTOR: **AZTEC WELL SERVICING COMPANY INC.**

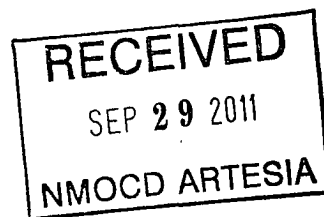
The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that the deviation tests obtained the following results:

Degrees @ Depth

.5 ° @	240
1 ° @	450
1.5 ° @	744
1.4 ° @	791
1.3 ° @	1423
1.3 ° @	1675
1.4 ° @	1928
1.4 ° @	2148
1.4 ° @	2648
1.6 ° @	2900
1.4 ° @	3402
1.5 ° @	3906
1.3 ° @	4157
.8 ° @	4627
.8 ° @	5129
.8 ° @	5382

Degrees @ Depth

1.6 ° @	5900
° @	
° @	
° @	
° @	
° @	
° @	
° @	
° @	
° @	
° @	
° @	
° @	
° @	



Accepted for record
NMOCD

DRILLING CONTRACTOR **AZTEC WELL SERVICING CO. INC.**

BY

Terri Thompson

Subscribed and sworn to before me this 2ND day of AUGUST, 2011.

My Commission Expires:

3-16-2013

[Signature]
Notary Public

San Juan County, New Mexico



SURVEY REPORT

30-015-39157

Page 1 of 4

PRODRIFT MWD BY TELEDIFT
P.O. BOX 94395
OKLAHOMA CITY, OK 73143-4395
TEL: 405-631-4882
FAX: 405-631-8344
WWW.TELEDIFT.COM

ProView Version 6.00

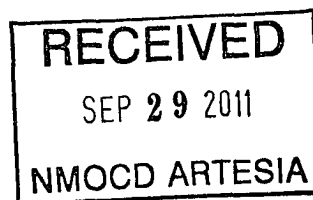
Report created using job file: Apache

Barnsdall Fed #19-18JUL11

Report saved on 31 Jul 2011 13:45

Depth in feet

WELL NAME Barnsdall Fed #19
JOB ID Apache Barnsdall Fed #19
COMPANY Apache
CONTRACTOR Aztec #124
START DATE 18 JUL 11
API #
LOCATION Barnsdall Fed #19



SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION
Tie-in	0.0	18-Jul-11	16:58	00.0
0004	791.0	21-Jul-11	23:10	01.4
0005	823.0	21-Jul-11	23:49	01.6
0006	855.0	22-Jul-11	00:18	01.6
0007	886.0	22-Jul-11	00:36	01.5
0008	917.0	22-Jul-11	00:51	01.6
0009	949.0	22-Jul-11	01:13	01.6
0011	1011.0	22-Jul-11	01:58	01.4
0012	1043.0	22-Jul-11	02:21	01.3
0013	1075.0	22-Jul-11	02:44	01.6
0016	1201.0	22-Jul-11	04:06	01.2
0017	1233.0	22-Jul-11	04:24	01.2
0018	1297.0	22-Jul-11	05:04	01.5
0019	1329.0	22-Jul-11	05:26	01.4
0021	1423.0	22-Jul-11	06:53	01.3
0020	1423.0	22-Jul-11	06:25	01.1
0022	1486.0	22-Jul-11	07:48	01.1
0023	1517.0	22-Jul-11	08:09	01.1
Manual	1580.0	22-Jul-11	09:23	01.2
0024	1580.0	22-Jul-11	08:45	01.3
0027	1612.0	22-Jul-11	09:37	01.3
0028	1645.0	22-Jul-11	10:08	01.3



SURVEY REPORT

Page 2 of 4

SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION
0029	1706.0	22-Jul-11	11:22	01.2
0030	1738.0	22-Jul-11	11:52	01.1
0031	1769.0	22-Jul-11	12:26	01.1
0032	1801.0	22-Jul-11	12:56	01.4
0034	1865.0	22-Jul-11	14:08	01.1
0035	1896.0	22-Jul-11	15:06	01.2
0038	1991.0	22-Jul-11	16:53	01.5
0037	1991.0	22-Jul-11	16:17	01.1
0039	2022.0	22-Jul-11	17:30	01.4
0041	2085.0	22-Jul-11	18:41	01.5
0043	2117.0	22-Jul-11	19:40	01.2
0044	2178.0	22-Jul-11	20:15	01.4
0045	2210.0	22-Jul-11	21:40	01.4
0046	2241.0	22-Jul-11	22:23	01.4
0047	2272.0	22-Jul-11	23:06	01.7
0048	2304.0	22-Jul-11	23:42	01.4
0050	2398.0	23-Jul-11	02:06	01.4
0052	2460.0	23-Jul-11	03:34	01.6
0053	2491.0	23-Jul-11	04:20	01.4
Manual	2548.0	23-Jul-11	08:51	00.0
0056	2555.0	23-Jul-11	06:17	01.0
0057	2586.0	23-Jul-11	07:21	01.3
0058	2617.0	23-Jul-11	08:04	01.4
Manual	2648.0	23-Jul-11	08:53	01.4
Manual	2648.0	23-Jul-11	08:53	00.0
0062	2680.0	23-Jul-11	09:15	01.7
0063	2712.0	23-Jul-11	09:56	01.4
0064	2744.0	23-Jul-11	10:50	01.7
0065	2775.0	23-Jul-11	11:23	01.8
0067	2837.0	23-Jul-11	12:41	01.6
0068	2869.0	23-Jul-11	13:21	01.7
Manual	2900.0	23-Jul-11	14:03	01.6
0071	2931.0	23-Jul-11	14:29	01.3
0072	2962.0	23-Jul-11	15:02	01.2
0073	2994.0	23-Jul-11	15:35	01.5
0074	3025.0	23-Jul-11	16:09	01.6
0076	3088.0	23-Jul-11	17:24	01.1
0077	3119.0	23-Jul-11	18:03	01.5
0078	3150.0	23-Jul-11	18:36	01.5
0079	3182.0	23-Jul-11	19:09	01.2
0080	3213.0	23-Jul-11	19:49	01.5
0081	3245.0	23-Jul-11	20:40	01.5
0082	3277.0	23-Jul-11	21:25	01.2
0083	3308.0	23-Jul-11	21:58	01.3
0084	3339.0	23-Jul-11	22:35	01.6



SURVEY REPORT

Page 3 of 4

SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION
0085	3371.0	23-Jul-11	23:09	00.9
0086	3402.0	23-Jul-11	23:50	01.4
0087	3434.0	24-Jul-11	00:28	01.5
0088	3466.0	24-Jul-11	01:04	00.9
0089	3497.0	24-Jul-11	01:40	01.4
0090	3528.0	24-Jul-11	02:17	01.2
0091	3558.0	24-Jul-11	02:56	01.4
0092	3589.0	24-Jul-11	03:28	01.3
0093	3621.0	24-Jul-11	04:05	00.9
0094	3653.0	24-Jul-11	04:36	01.1
0095	3685.0	24-Jul-11	05:09	01.3
0096	3716.0	24-Jul-11	05:44	01.4
0097	3748.0	24-Jul-11	06:20	01.6
0098	3779.0	24-Jul-11	06:57	01.0
0099	3811.0	24-Jul-11	07:32	00.9
0100	3843.0	24-Jul-11	08:12	01.4
0101	3875.0	24-Jul-11	08:47	00.8
0102	3906.0	24-Jul-11	09:29	01.5
0103	3938.0	24-Jul-11	10:10	01.6
0104	3969.0	24-Jul-11	10:50	00.9
0106	4032.0	24-Jul-11	12:14	01.1
0108	4095.0	24-Jul-11	13:25	00.9
0109	4126.0	24-Jul-11	13:59	01.4
0110	4157.0	24-Jul-11	14:32	01.3
0111	4219.0	24-Jul-11	15:40	01.1
0112	4283.0	24-Jul-11	16:48	01.0
0113	4314.0	24-Jul-11	17:26	01.0
0115	4376.0	24-Jul-11	18:49	01.0
0116	4408.0	24-Jul-11	19:28	01.5
0117	4439.0	24-Jul-11	20:11	01.5
0118	4471.0	24-Jul-11	20:48	01.4
0119	4502.0	24-Jul-11	21:21	01.6
0120	4533.0	24-Jul-11	21:54	01.3
0121	4564.0	24-Jul-11	22:29	01.0
0122	4596.0	24-Jul-11	23:06	01.2
0124	4627.0	25-Jul-11	00:17	00.8
0125	4659.0	25-Jul-11	00:54	00.7
0126	4690.0	25-Jul-11	01:30	01.0
0127	4722.0	25-Jul-11	02:08	01.0
0128	4753.0	25-Jul-11	03:07	00.8
0129	4783.0	25-Jul-11	04:04	01.2
0130	4814.0	25-Jul-11	05:03	01.2
0131	4846.0	25-Jul-11	06:04	01.2
0133	4878.0	25-Jul-11	07:23	00.9
0134	4909.0	25-Jul-11	08:40	01.4



SURVEY REPORT

Page 4 of 4

SURVEY #	SURVEY DEPTH	DATE	TIME	INCLINATION
0135	4941.0	25-Jul-11	09:39	01.0
0137	4972.0	25-Jul-11	20:24	01.2
0138	5003.0	25-Jul-11	21:54	00.7
0139	5035.0	25-Jul-11	23:22	00.5
0140	5065.0	26-Jul-11	01:08	01.1
0141	5097.0	26-Jul-11	02:56	00.6
0143	5129.0	26-Jul-11	04:32	00.8
0144	5161.0	26-Jul-11	06:10	00.6
0145	5193.0	26-Jul-11	07:37	00.6
0146	5225.0	26-Jul-11	09:08	01.0
0147	5257.0	26-Jul-11	10:44	00.4
0148	5288.0	26-Jul-11	12:11	01.1
0150	5350.0	26-Jul-11	15:13	00.9
0151	5382.0	26-Jul-11	16:54	00.8
0152	5414.0	26-Jul-11	18:21	01.2
0153	5445.0	26-Jul-11	19:53	01.2
Manual	5700.0	27-Jul-11	15:07	01.5
Manual	5900.0	27-Jul-11	15:51	01.6