

Stogner, Michael

From: Kautz, Paul
Sent: Monday, February 21, 2005 12:38 PM
To: Hulke, Steve
Cc: Stogner, Michael
Subject: Red Bull 31 State # 1, Delaware, Bone Spring and Wolfcamp tops

Steve

I received the logs today. However, I did not receive a complete set of logs. The paper work indicates that the TD was 14862.74 Md and 14129.97 Tvd. The logs I received only go to 12562 Tvd. I need a complete set of logs run on the well before I can help you.

-----Original Message-----

From: Hulke, Steve [mailto:Steve.Hulke@divn.com]
Sent: Friday, February 18, 2005 9:15 AM
To: pkautz@state.nm.us
Subject: Delaware, Bone Spring and Wolfcamp tops

In reference to Stogner's request for tops and bases of Delaware and Bone Spring near the Red Bull 31 State #1 (23S/35E/sec 31, 30025367980000), the relevant well for correlation is the Falcon Fed #1 (24S/34E/sec 1, 30025321900000).

Falcon Fed completion report: Del 5275, Bone Spring 8830, Wolfcamp 11631

Falcon Fed, my tops: Del 5275, Bone Spring 9007, Wolfcamp 11642

Red Bull, my tops: Del 5268, Bone Spring 8958, Wolfcamp 11646

The Red Bull is a directional well, but we didn't start to build angle until well into the Wolfcamp at MD 11700. The difference in MD and TVD at the T/Wolfcamp is only 2 feet. We'll talk again later today.

Steve Hulke
Devon Energy
Office: 405-228-4282
Cell: 405-406-6370

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2/21/2005

Stogner, Michael

From: Thomas Kellahin [kellahin@earthlink.net]
Sent: Wednesday, February 23, 2005 12:51 PM
To: Michael E. Stogner
Cc: Richard Winchester
Subject: Devon's Red Bull 31#1--NSL

Re: Devon's Red Bull "31" State Well No. 1
 API No. 30-025-36798
 Unit N, Sec 31, T23S, R35E
 Lea County New Mexico

Dear Mr. Stogner:

In response to your January 25, 2005 letter, Please find the following information from Devon confirming that Mr. Steve Hulke (geologist) has submitted the directional survey to Mr. Paul Kautz and coordinated their agreement about the tops and the subsurface locations for this well has you required,

Regards, Tom Kellahin

----- Original Message -----

From: Winchester, Richard
To: kellahin@earthlink.net
Sent: Tuesday, February 22, 2005 8:48 AM
Subject: FW: Red Bull 31 State #1 - Delaware, Bone Spring and Wolfcamp tops

Tom, Below is information regarding the location of the Bone Spring and Delaware formations relative to Devon's surface location for the Red Bull "31" State #1. Please let me know if you need anything else.

Richard

From: Hulke, Steve
Sent: Monday, February 21, 2005 3:30 PM
To: Austin, Sara; Cantrell, Cynthia; Cromer, James; Greenlees, Bill; Hulke, Steve; Milligan, Steve; Winchester, Richard
Cc: Kautz, Paul (pkautz@state.nm.us)
Subject: Red Bull 31 State #1 - Delaware, Bone Spring and Wolfcamp tops

In reference to Michael Stogner's letter of January 25, I have discussed the tops and bases of the Delaware and Bone Spring formations with Paul Kautz, NMOCD, Hobbs, and have sent him the directional survey and all logs on the well. Mr. Kautz understands that the Red Bull was drilled to 14863 MD, but that the hole was lost after drill pipe parted, and Devon was unable to obtain wireline logs below the intermediate casing point at 12580 MD. We agree that:

1. The single well in the Cinta Roja Delaware Pool is not deep enough to penetrate the top or base of the Bone Spring formation, so correlations were limited to the single well in the Antelope Draw Delaware Pool, the Pogo Producing Falcon Federal #1.
2. In the Falcon Federal the tops are:
 - T/Delaware 5275
 - T/Bone Spring (= B/Delaware) 8830
 - T/Wolfcamp (= B/Bone Spring) 11642

2/23/2005

3. In the Red Bull the correlative tops are:
 - T/Delaware 5268
 - T/Bone Spring (= B/Delaware) 8780
 - T/Wolfcamp (= B/Bone Spring) 11646
4. The subsurface locations of these tops in the Red Bull are:
 - T/Delaware 1309 fsl, 2588 fwl
 - T/Bone Spring (= B/Delaware) 1261 fsl, 2567 fwl
 - T/Wolfcamp (= B/Bone Spring) 1259 fsl, 2514 fwl

Steve Hulke
Devon Energy

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Stogner, Michael

From: Stogner, Michael
Sent: Thursday, March 03, 2005 2:12 PM
To: 'Thomas Kellahin'
Subject: RE: Devon's Red Bull 31#1--NSL

The information below should be sufficient to allow me to prepare a draft order; however, as requested in my original letter dated January 25, 2005, please provide me with a copy of the directional survey to support Devon's data. Thank you.

-----Original Message-----

From: Thomas Kellahin [mailto:kellahin@earthlink.net]
Sent: Wednesday, February 23, 2005 12:51 PM
To: Michael E. Stogner
Cc: Richard Winchester
Subject: Devon's Red Bull 31#1--NSL

Re: Devon's Red Dull "31" State Well No. 1
API No. 30-025-36798
Unit N, Sec 31, T23S, R35E
Lea County New Mexico

Dear Mr. Stogner:

In response to your January 25, 2005 letter, Please find the following information from Devon confirming that Mr. Steve Hulke (geologist) has submitted the directional survey to Mr. Paul Kautz and coordinated their agreement about the tops and the subsurface locations for this well has you required.

Regards, Tom Kellahin

----- Original Message -----

From: Winchester, Richard
To: kellahin@earthlink.net
Sent: Tuesday, February 22, 2005 8:48 AM
Subject: FW: Red Bull 31 State #1 - Delaware, Bone Spring and Wolfcamp tops

Tom, Below is information regarding the location of the Bone Spring and Delaware formations relative to Devon's surface location for the Red Bull "31" State #1. Please let me know if you need anything else.

Richard

From: Hulke, Steve
Sent: Monday, February 21, 2005 3:30 PM
To: Austin, Sara; Cantrell, Cynthia; Cromer, James; Greenlees, Bill; Hulke, Steve; Milligan, Steve; Winchester, Richard
Cc: Kautz, Paul (pkautz@state.nm.us)
Subject: Red Bull 31 State #1 - Delaware, Bone Spring and Wolfcamp tops

In reference to Michael Stogner's letter of January 25, I have discussed the tops and bases of the Delaware and Bone Spring formations with Paul Kautz, NMOCD, Hobbs, and have sent him the

3/3/2005

directional survey and all logs on the well. Mr. Kautz understands that the Red Bull was drilled to 14863 MD, but that the hole was lost after drill pipe parted, and Devon was unable to obtain wireline logs below the intermediate casing point at 12580 MD. We agree that:

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T/Wolfcamp (= B/Bone Spring) 1259 fsl, 2514 fwl

Steve Hulke
Devon Energy

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Stogner, Michael

From: Thomas Kellahin [kellahin@earthlink.net]
Sent: Friday, March 04, 2005 9:22 AM
To: Stogner, Michael
Subject: Re: Devon's Red Bull 31#1--NSL

Thank you--Will do

----- Original Message -----

From: Stogner, Michael
To: 'Thomas Kellahin'
Sent: Thursday, March 03, 2005 2:12 PM
Subject: RE: Devon's Red Bull 31#1--NSL

The information below should be sufficient to allow me to prepare a draft order; however, as requested in my original letter dated January 25, 2005, please provide me with a copy of the directional survey to support Devon's data. Thank you.

-----Original Message-----

From: Thomas Kellahin [mailto:kellahin@earthlink.net]
Sent: Wednesday, February 23, 2005 12:51 PM
To: Michael E. Stogner
Cc: Richard Winchester
Subject: Devon's Red Bull 31#1--NSL

Re: Devon's Red Bull "31" State Well No. 1
API No. 30-025-36798
Unit N, Sec 31, T23S, R35E
Lea County New Mexico

Dear Mr. Stogner:

In response to your January 25, 2005 letter, Please find the following information from Devon confirming that Mr. Steve Hulke (geologist) has submitted the directional survey to Mr. Paul Kautz and coordinated their agreement about the tops and the subsurface locations for this well has you required.

Regards, Tom Kellahin

----- Original Message -----

From: Winchester, Richard
To: kellahin@earthlink.net
Sent: Tuesday, February 22, 2005 8:48 AM
Subject: FW: Red Bull 31 State #1 - Delaware, Bone Spring and Wolfcamp tops

Tom, Below is information regarding the location of the Bone Spring and Delaware formations relative to Devon's surface location for the Red Bull "31" State #1. Please let me know if you need anything else.

Richard

From: Hulke, Steve

3/4/2005

Sent: Monday, February 21, 2005 3:30 PM

To: Austin, Sara; Cantrell, Cynthia; Cromer, James; Greenlees, Bill; Hulke, Steve; Milligan, Steve; Winchester, Richard

Cc: Kautz, Paul (pkautz@state.nm.us)

Subject: Red Bull 31 State #1 - Delaware, Bone Spring and Wolfcamp tops

In reference to Michael Stogner's letter of January 25, I have discussed the tops and bases of the Delaware and Bone Spring formations with Paul Kautz, NMOCD, Hobbs, and have sent him the directional survey and all logs on the well. Mr. Kautz understands that the Red Bull was drilled to 14863 MD, but that the hole was lost after drill pipe parted, and Devon was unable to obtain wireline logs below the intermediate casing point at 12580 MD. We agree that:

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T/Wolfcamp (= B/Bone Spring) 1259 fsl, 2514 fwl

Steve Hulke
Devon Energy

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KELLAHIN & KELLAHIN
Attorney at Law

W. Thomas Kellahin
Recognized Specialist in the Area of
Natural Resources-oil and gas law-
New Mexico Board of Legal Specialization

P.O. Box 2265
Santa Fe, New Mexico 87504
117 North Guadalupe
Santa Fe, New Mexico 87501

Telephone 505-982-4285
Facsimile 505-982-2047
kellahin@earthlink.net

March 7, 2005

HAND DELIVERED

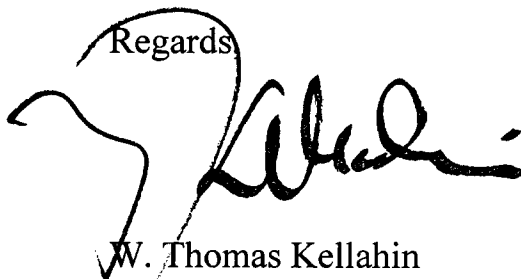
Mr. Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Administrative Application Reference No. pSEMO-501329690
Application of Devon Energy Production Company
to amend for a second time NSL-5089 (BHL)
Red Bull "31" State Well No. 1 (API #30-025-36798)
Unit N of Section 31, T23S, R35E, Lea County, New Mexico

Dear Mr. Stogner:

In accordance with your E-mail to me of March 3, 2005, 2:12pm, please
find enclosed two copies of Devon's directional survey (last revised 1/7/05))
for the referenced well.

Regards

A handwritten signature in black ink, appearing to read 'W. Thomas Kellahin', is written over the word 'Regards'.

W. Thomas Kellahin

2005 MAR 7 PM 2 58

DEVON ENERGY
Red Bull "31" State

slot #1

LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy2684
License :

Date printed : 18-Feb-2005
Date created : 11-Nov-2004
Last revised : 7-Jan-2005

Field is centred on n32 58 13.100,w103 14 15.6
Structure is centred on n32 15 26.500,w103 24 24.4

Slot location is n32 15 26.500,w103 24 24.400
Slot Grid coordinates are N 458582.196, E 786427.536
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

DEVON ENERGY
Red Bull "31" State, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD
Last revised : 7-Jan-2005

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	786427.54	458582.20
100.00	0.09	41.73	100.00	0.06N	0.05E	0.09	0.04	786427.59	458582.26
200.00	0.23	18.89	200.00	0.31N	0.17E	0.15	0.10	786427.70	458582.50
300.00	0.06	349.24	300.00	0.55N	0.22E	0.18	0.10	786427.76	458582.75
400.00	0.10	65.36	400.00	0.64N	0.29E	0.10	0.14	786427.82	458582.83
500.00	0.07	251.67	500.00	0.65N	0.32E	0.17	0.16	786427.85	458582.85
600.00	0.17	237.53	600.00	0.55N	0.13E	0.10	0.00	786427.66	458582.75
700.00	0.21	246.74	700.00	0.40N	0.16W	0.05	-0.25	786427.37	458582.60
800.00	0.22	267.10	800.00	0.32N	0.52W	0.08	-0.58	786427.01	458582.51
900.00	0.24	269.55	900.00	0.31N	0.92W	0.02	-0.97	786426.61	458582.50
1000.00	0.24	279.12	1000.00	0.34N	1.34W	0.04	-1.38	786426.19	458582.53
1100.00	0.25	272.29	1100.00	0.38N	1.76W	0.03	-1.80	786425.77	458582.56
1200.00	0.22	271.53	1199.99	0.40N	2.17W	0.03	-2.21	786425.36	458582.57
1300.00	0.26	260.66	1299.99	0.36N	2.59W	0.06	-2.60	786424.94	458582.54
1400.00	0.31	283.88	1399.99	0.39N	3.08W	0.12	-3.09	786424.46	458582.56
1500.00	0.25	282.05	1499.99	0.50N	3.55W	0.06	-3.57	786423.98	458582.67
1600.00	0.22	272.00	1599.99	0.56N	3.96W	0.05	-3.98	786423.57	458582.72
1700.00	0.23	275.94	1699.99	0.58N	4.35W	0.02	-4.37	786423.18	458582.74
1800.00	0.25	292.64	1799.99	0.69N	4.75W	0.07	-4.78	786422.78	458582.84
1900.00	0.16	312.93	1899.99	0.87N	5.05W	0.11	-5.12	786422.48	458583.02
2000.00	0.16	316.54	1999.99	1.06N	5.25W	0.01	-5.36	786422.28	458583.21
2100.00	0.20	315.41	2099.99	1.29N	5.47W	0.04	-5.62	786422.06	458583.44
2200.00	0.13	283.09	2199.99	1.44N	5.70W	0.11	-5.88	786421.82	458583.59
2300.00	0.24	319.98	2299.99	1.62N	5.95W	0.16	-6.16	786421.57	458583.77
2400.00	0.15	30.16	2399.99	1.90N	6.02W	0.24	-6.29	786421.50	458584.04
2500.00	0.10	353.79	2499.99	2.10N	5.96W	0.09	-6.28	786421.56	458584.24
2600.00	0.14	340.52	2599.99	2.30N	6.01W	0.05	-6.37	786421.51	458584.44
2700.00	0.21	0.55	2699.98	2.60N	6.05W	0.09	-6.48	786421.46	458584.74
2800.00	0.29	7.98	2799.98	3.03N	6.01W	0.09	-6.54	786421.50	458585.18
2900.00	0.35	4.19	2899.98	3.59N	5.96W	0.06	-6.61	786421.55	458585.73
3000.00	0.33	24.34	2999.98	4.15N	5.81W	0.12	-6.60	786421.69	458586.30
3100.00	0.23	22.67	3099.98	4.60N	5.62W	0.10	-6.51	786421.88	458586.75
3200.00	0.28	355.87	3199.98	5.03N	5.56W	0.13	-6.55	786421.93	458587.18
3300.00	0.29	19.74	3299.98	5.51N	5.49W	0.12	-6.59	786422.00	458587.66
3400.00	0.29	13.73	3399.98	6.00N	5.35W	0.03	-6.56	786422.14	458588.15
3500.00	0.23	332.21	3499.97	6.42N	5.38W	0.19	-6.68	786422.10	458588.57
3600.00	0.31	357.44	3599.97	6.87N	5.48W	0.14	-6.89	786421.99	458589.02
3700.00	0.31	340.61	3699.97	7.39N	5.59W	0.09	-7.11	786421.89	458589.54
3800.00	0.44	328.91	3799.97	7.98N	5.87W	0.15	-7.52	786421.59	458590.12
3900.00	0.40	353.14	3899.97	8.65N	6.11W	0.18	-7.90	786421.35	458590.80
4000.00	0.44	338.82	3999.96	9.36N	6.29W	0.11	-8.24	786421.16	458591.50
4100.00	0.52	335.65	4099.96	10.13N	6.62W	0.08	-8.73	786420.83	458592.27
4200.00	0.49	319.45	4199.96	10.87N	7.09W	0.15	-9.35	786420.36	458593.00
4300.00	0.54	286.65	4299.95	11.33N	7.81W	0.29	-10.16	786419.62	458593.46
4400.00	0.89	275.58	4399.95	11.54N	9.04W	0.37	-11.40	786418.40	458593.66
4500.00	1.11	270.26	4499.93	11.62N	10.78W	0.24	-13.12	786416.66	458593.72
4600.00	1.14	251.39	4599.91	11.31N	12.69W	0.37	-14.91	786414.75	458593.39
4700.00	0.97	253.44	4699.89	10.75N	14.45W	0.17	-16.49	786413.00	458592.82
4800.00	1.03	261.14	4799.88	10.37N	16.15W	0.15	-18.06	786411.30	458592.42
4900.00	0.78	258.13	4899.87	10.09N	17.70W	0.25	-19.51	786409.75	458592.13

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 1584.28 on azimuth 103.12 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 102.99 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

DEVON ENERGY
Red Bull "31" State, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : MWD
Last revised : 7-Jan-2005

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
5000.00	0.70	257.71	4999.86	9.82N	18.96W	0.08	-20.68	786408.49	458591.85
5100.00	0.70	253.94	5099.85	9.52N	20.15W	0.05	-21.77	786407.31	458591.54
5200.00	0.74	244.65	5199.84	9.07N	21.32W	0.12	-22.81	786406.14	458591.09
5300.00	0.62	251.74	5299.84	8.63N	22.41W	0.15	-23.78	786405.05	458590.63
5400.00	0.62	226.39	5399.83	8.09N	23.32W	0.27	-24.54	786404.15	458590.08
5500.00	0.61	223.29	5499.82	7.32N	24.08W	0.03	-25.11	786403.40	458589.31
5600.00	0.68	226.92	5599.82	6.53N	24.88W	0.08	-25.71	786402.61	458588.51
5700.00	0.74	225.52	5699.81	5.67N	25.77W	0.06	-26.39	786401.72	458587.65
5800.00	0.76	224.23	5799.80	4.75N	26.69W	0.03	-27.08	786400.80	458586.71
5900.00	0.81	229.56	5899.79	3.81N	27.69W	0.09	-27.84	786399.81	458585.77
6000.00	0.73	219.44	5999.78	2.86N	28.64W	0.16	-28.55	786398.88	458584.81
6100.00	0.79	211.75	6099.77	1.78N	29.40W	0.12	-29.05	786398.12	458583.73
6200.00	0.88	212.20	6199.76	0.55N	30.18W	0.09	-29.53	786397.36	458582.48
6300.00	1.00	201.26	6299.75	0.92S	30.90W	0.22	-29.90	786396.64	458581.01
6400.00	0.99	190.51	6399.74	2.58S	31.38W	0.19	-29.99	786396.18	458579.35
6500.00	1.07	200.40	6499.72	4.30S	31.86W	0.19	-30.08	786395.72	458577.62
6600.00	1.05	181.48	6599.70	6.09S	32.21W	0.35	-30.01	786395.38	458575.82
6700.00	1.09	188.29	6699.69	7.95S	32.37W	0.13	-29.75	786395.24	458573.97
6800.00	0.98	194.43	6799.67	9.72S	32.72W	0.16	-29.70	786394.90	458572.19
6900.00	0.91	192.82	6899.66	11.32S	33.11W	0.07	-29.72	786394.53	458570.59
7000.00	0.86	192.66	6999.64	12.83S	33.45W	0.05	-29.71	786394.20	458569.08
7100.00	0.83	193.79	7099.63	14.26S	33.79W	0.03	-29.71	786393.87	458567.64
7200.00	0.87	194.93	7199.62	15.70S	34.15W	0.04	-29.75	786393.52	458566.20
7300.00	0.86	211.06	7299.61	17.08S	34.74W	0.24	-30.01	786392.95	458564.82
7400.00	0.92	214.98	7399.60	18.38S	35.58W	0.09	-30.54	786392.11	458563.51
7500.00	1.00	206.18	7499.58	19.82S	36.43W	0.17	-31.04	786391.28	458562.06
7600.00	1.13	194.32	7599.57	21.56S	37.06W	0.26	-31.26	786390.67	458560.32
7700.00	1.22	197.81	7699.55	23.53S	37.63W	0.11	-31.38	786390.11	458558.35
7800.00	1.22	193.11	7799.52	25.58S	38.19W	0.10	-31.47	786389.56	458556.29
7900.00	1.26	188.32	7899.50	27.70S	38.60W	0.11	-31.38	786389.18	458554.16
8000.00	1.29	189.26	7999.48	29.90S	38.94W	0.04	-31.22	786388.86	458551.96
8100.00	1.14	196.08	8099.45	31.97S	39.39W	0.21	-31.20	786388.42	458549.89
8200.00	0.88	201.97	8199.44	33.64S	39.96W	0.28	-31.37	786387.87	458548.22
8300.00	0.65	201.64	8299.43	34.88S	40.45W	0.23	-31.58	786387.39	458546.97
8400.00	0.59	213.14	8399.42	35.83S	40.94W	0.14	-31.84	786386.90	458546.01
8500.00	0.58	214.23	8499.42	36.68S	41.51W	0.01	-32.20	786386.35	458545.16
8600.00	0.57	209.07	8599.41	37.54S	42.03W	0.05	-32.52	786385.83	458544.30
8700.00	0.53	207.47	8699.41	38.38S	42.49W	0.04	-32.77	786385.38	458543.45
8800.00	0.31	215.63	8799.41	39.01S	42.86W	0.23	-32.99	786385.01	458542.82
8900.00	0.34	227.05	8899.40	39.43S	43.24W	0.07	-33.27	786384.64	458542.39
9000.00	0.40	263.10	8999.40	39.68S	43.80W	0.24	-33.76	786384.08	458542.14
9100.00	1.12	315.95	9099.39	39.02S	44.83W	0.93	-34.91	786383.05	458542.79
9200.00	1.26	291.76	9199.37	37.91S	46.53W	0.52	-36.81	786381.34	458543.89
9300.00	1.41	289.94	9299.34	37.08S	48.70W	0.16	-39.12	786379.15	458544.70
9400.00	1.37	289.01	9399.32	36.27S	50.99W	0.05	-41.53	786376.86	458545.49
9500.00	1.34	282.83	9499.29	35.62S	53.26W	0.15	-43.89	786374.58	458546.12
9600.00	1.38	284.36	9599.26	35.06S	55.57W	0.05	-46.26	786372.27	458546.65
9700.00	1.39	281.79	9699.23	34.52S	57.92W	0.06	-48.68	786369.91	458547.18
9800.00	1.42	268.32	9799.20	34.31S	60.35W	0.33	-51.09	786367.49	458547.37
9900.00	1.52	262.28	9899.17	34.52S	62.90W	0.18	-53.53	786364.94	458547.13

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 1584.28 on azimuth 103.12 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 102.99 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

DEVON ENERGY
Red Bull "31" State, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref : MWD
Last revised : 7-Jan-2005

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
10000.00	1.41	262.34	9999.13	34.86S	65.43W	0.11	-55.92	786362.41	458546.77
10100.00	1.42	241.82	10099.11	35.61S	67.74W	0.50	-58.01	786360.10	458546.00
10200.00	1.57	272.25	10199.07	36.14S	70.21W	0.80	-60.29	786357.64	458545.45
10300.00	1.59	274.53	10299.03	35.98S	72.96W	0.07	-63.00	786354.89	458545.59
10400.00	1.50	267.44	10399.00	35.93S	75.65W	0.21	-65.64	786352.20	458545.62
10500.00	1.20	259.47	10498.97	36.18S	77.99W	0.35	-67.86	786349.87	458545.35
10600.00	1.24	256.82	10598.95	36.62S	80.07W	0.07	-69.79	786347.79	458544.89
10700.00	1.20	254.63	10698.93	37.14S	82.13W	0.06	-71.68	786345.73	458544.35
10800.00	1.22	260.28	10798.90	37.60S	84.19W	0.12	-73.58	786343.67	458543.87
10900.00	1.12	266.48	10898.88	37.84S	86.22W	0.16	-75.50	786341.65	458543.62
11000.00	1.18	268.60	10998.86	37.92S	88.22W	0.07	-77.44	786339.65	458543.51
11100.00	0.88	264.94	11098.85	38.02S	90.01W	0.31	-79.17	786337.85	458543.40
11200.00	0.78	257.08	11198.84	38.24S	91.44W	0.15	-80.51	786336.43	458543.17
11300.00	0.67	249.59	11298.83	38.59S	92.65W	0.14	-81.61	786335.22	458542.81
11400.00	0.70	241.23	11398.82	39.09S	93.74W	0.10	-82.55	786334.14	458542.30
11500.00	0.83	236.65	11498.81	39.78S	94.88W	0.14	-83.51	786333.00	458541.60
11600.00	0.77	204.83	11598.80	40.79S	95.77W	0.44	-84.15	786332.13	458540.58
11670.00	0.52	185.98	11668.80	41.53S	96.00W	0.46	-84.20	786331.90	458539.84
11691.00	0.53	158.87	11689.80	41.72S	95.97W	1.17	-84.14	786331.93	458539.65
11749.00	0.80	116.70	11747.79	42.15S	95.51W	0.93	-83.59	786332.39	458539.22
11781.00	2.00	112.10	11779.78	42.46S	94.80W	3.76	-82.83	786333.11	458538.92
11814.00	3.50	109.30	11812.74	43.01S	93.31W	4.56	-81.26	786334.60	458538.38
11846.00	5.10	99.80	11844.65	43.58S	90.99W	5.46	-78.86	786336.93	458537.84
11878.00	6.00	100.50	11876.50	44.12S	87.94W	2.82	-75.77	786339.98	458537.32
11910.00	7.10	97.00	11908.29	44.67S	84.33W	3.66	-72.14	786343.59	458536.80
11942.00	8.30	93.80	11940.00	45.06S	80.07W	3.98	-67.89	786347.86	458536.44
11974.00	9.50	91.70	11971.62	45.29S	75.12W	3.88	-63.02	786352.81	458536.26
12006.00	10.50	93.00	12003.13	45.52S	69.57W	3.20	-57.56	786358.36	458536.07
12038.00	11.70	94.20	12034.53	45.91S	63.42W	3.82	-51.48	786364.51	458535.74
12070.00	12.70	92.40	12065.81	46.30S	56.67W	3.34	-44.81	786371.27	458535.41
12102.00	14.20	89.60	12096.93	46.42S	49.23W	5.11	-37.54	786378.71	458535.35
12134.00	14.90	85.40	12127.91	46.06S	41.21W	3.96	-29.80	786386.73	458535.78
12165.00	15.20	84.30	12157.84	45.34S	33.19W	1.34	-22.15	786394.74	458536.57
12197.00	15.60	82.20	12188.69	44.34S	24.75W	2.14	-14.15	786403.17	458537.65
12229.00	15.80	81.20	12219.50	43.09S	16.18W	1.05	-6.08	786411.72	458538.97
12262.00	16.20	79.80	12251.22	41.59S	7.21W	1.68	2.32	786420.68	458540.55
12294.00	15.80	79.81	12281.98	40.02S	1.47E	1.25	10.43	786429.35	458542.19
12326.00	16.10	80.10	12312.75	38.49S	10.13E	0.97	18.52	786437.99	458543.79
12358.00	16.10	82.90	12343.50	37.18S	18.90E	2.43	26.77	786446.76	458545.18
12390.00	16.00	85.40	12374.25	36.28S	27.70E	2.18	35.14	786455.55	458546.16
12422.00	16.20	87.90	12404.99	35.76S	36.56E	2.25	43.66	786464.40	458546.75
12455.00	17.10	88.60	12436.61	35.47S	46.01E	2.79	52.80	786473.85	458547.12
12487.00	18.40	87.10	12467.09	35.10S	55.75E	4.31	62.22	786483.59	458547.58
12519.00	19.10	85.70	12497.39	34.45S	66.02E	2.60	72.07	786493.85	458548.31
12548.00	19.60	85.00	12524.75	33.67S	75.60E	1.90	81.23	786503.42	458549.18
12580.00	20.30	82.70	12554.83	32.50S	86.45E	3.29	91.54	786514.26	458550.44
12615.00	21.00	82.70	12587.58	30.93S	98.69E	2.00	103.12	786526.49	458552.12
12647.00	21.00	83.80	12617.46	29.59S	110.08E	1.23	113.91	786537.87	458553.56
12679.00	20.80	86.20	12647.35	28.59S	121.45E	2.75	124.77	786549.23	458554.66
12711.00	21.40	86.20	12677.21	27.83S	132.94E	1.87	135.80	786560.72	458555.52

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 1584.28 on azimuth 103.12 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 102.99 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

DEVON ENERGY
Red Bull "31" State,slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : MWD
Last revised : 7-Jan-2005

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
12742.00	21.80	87.70	12706.03	27.22S	144.34E	2.20	146.76	786572.11	458556.22
12774.00	22.60	89.10	12735.66	26.88S	156.42E	3.00	158.46	786584.19	458556.66
12806.00	23.10	90.50	12765.15	26.84S	168.85E	2.31	170.56	786596.61	458556.81
12841.00	23.60	93.10	12797.28	27.28S	182.71E	3.27	184.17	786610.48	458556.49
12873.00	24.20	93.80	12826.54	28.06S	195.65E	2.07	196.95	786623.42	458555.82
12905.00	23.90	94.50	12855.76	29.01S	208.66E	1.29	209.84	786636.44	458554.99
12936.00	24.10	96.30	12884.08	30.19S	221.21E	2.45	222.34	786649.00	458553.91
12968.00	24.40	98.40	12913.26	31.88S	234.24E	2.85	235.41	786662.05	458552.34
13000.00	25.30	101.90	12942.29	34.25S	247.47E	5.39	248.84	786675.30	458550.08
13031.00	25.80	104.40	12970.26	37.30S	260.49E	3.83	262.21	786688.34	458547.15
13063.00	26.20	105.80	12999.02	40.95S	274.03E	2.29	276.22	786701.91	458543.61
13095.00	26.70	106.50	13027.67	44.92S	287.72E	1.84	290.46	786715.64	458539.77
13126.00	27.30	106.80	13055.30	48.95S	301.21E	1.98	304.50	786729.15	458535.85
13158.00	28.00	106.80	13083.64	53.24S	315.42E	2.19	319.32	786743.41	458531.68
13189.00	29.50	106.80	13110.82	57.55S	329.70E	4.84	334.20	786757.72	458527.49
13221.00	31.30	105.40	13138.42	62.04S	345.25E	6.04	350.36	786773.31	458523.14
13253.00	33.40	103.30	13165.45	66.27S	361.84E	7.44	367.48	786789.94	458519.05
13285.00	35.60	102.30	13191.82	70.28S	379.52E	7.10	385.60	786807.65	458515.19
13316.00	37.20	101.60	13216.77	74.09S	397.51E	5.33	403.99	786825.68	458511.54
13348.00	38.40	101.90	13242.06	78.08S	416.71E	3.79	423.60	786844.91	458507.71
13380.00	39.80	101.90	13266.89	82.24S	436.46E	4.37	443.78	786864.69	458503.72
13412.00	41.50	102.30	13291.17	86.61S	456.84E	5.37	464.62	786885.11	458499.53
13444.00	42.60	103.00	13314.93	91.31S	477.76E	3.74	486.05	786906.06	458495.01
13475.00	43.20	103.70	13337.64	96.18S	498.29E	2.47	507.16	786926.64	458490.32
13507.00	43.30	104.00	13360.95	101.43S	519.58E	0.71	529.08	786947.97	458485.25
13539.00	44.00	104.70	13384.10	106.91S	540.97E	2.66	551.16	786969.41	458479.96
13570.00	44.90	105.40	13406.23	112.54S	561.94E	3.31	572.85	786990.43	458474.51
13604.00	46.00	105.10	13430.08	118.92S	585.31E	3.30	597.07	787013.86	458468.34
13635.00	46.60	104.70	13451.50	124.68S	606.97E	2.15	619.46	787035.56	458462.76
13667.00	47.40	104.70	13473.32	130.62S	629.61E	2.50	642.86	787058.25	458457.02
13698.00	48.30	105.10	13494.13	136.53S	651.82E	3.06	665.83	787080.51	458451.30
13730.00	50.40	104.00	13514.97	142.62S	675.32E	7.06	690.09	787104.06	458445.41
13761.00	52.00	104.00	13534.40	148.47S	698.76E	5.16	714.25	787127.55	458439.77
13793.00	53.10	103.30	13553.85	154.46S	723.44E	3.85	739.65	787152.29	458433.98
13825.00	54.10	104.00	13572.84	160.54S	748.47E	3.59	765.41	787177.37	458428.12
13856.00	54.70	104.70	13590.89	166.79S	772.89E	2.67	790.60	787201.84	458422.08
13888.00	55.70	104.70	13609.15	173.46S	798.31E	3.12	816.87	787227.31	458415.64
13920.00	56.40	105.10	13627.02	180.28S	823.96E	2.42	843.40	787253.02	458409.03
13950.00	56.40	105.10	13643.62	186.79S	848.09E	0.00	868.37	787277.21	458402.73
13981.00	55.70	105.10	13660.94	193.49S	872.91E	2.26	894.07	787302.09	458396.25
14014.00	57.20	105.40	13679.17	200.72S	899.45E	4.61	921.55	787328.68	458389.24
14046.00	58.30	105.80	13696.25	208.00S	925.51E	3.60	948.58	787354.81	458382.19
14077.00	58.60	105.80	13712.47	215.20S	950.93E	0.97	974.97	787380.29	458375.22
14109.00	58.40	105.80	13729.19	222.62S	977.18E	0.62	1002.22	787406.61	458368.01
14141.00	58.40	104.70	13745.96	229.79S	1003.48E	2.93	1029.45	787432.96	458361.07
14170.00	58.30	103.70	13761.18	235.85S	1027.41E	2.96	1054.13	787456.95	458355.22
14201.00	58.70	104.00	13777.37	242.18S	1053.07E	1.53	1080.56	787482.67	458349.12
14233.00	58.80	104.40	13793.97	248.89S	1079.60E	1.11	1107.91	787509.24	458342.64
14265.00	58.90	102.30	13810.53	255.21S	1106.24E	5.62	1135.30	787535.94	458336.54
14297.00	58.80	101.20	13827.08	260.79S	1133.05E	2.96	1162.68	787562.80	458331.20

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 1584.28 on azimuth 103.12 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 102.99 degrees.

Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

DEVON ENERGY
Red Bull "31" State, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : MWD
Last revised : 7-Jan-2005

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
14328.00	59.00	101.20	13843.09	265.94S	1159.09E	0.65	1189.21	787588.88
14360.00	58.70	101.20	13859.65	271.26S	1185.95E	0.94	1216.58	787615.79
14392.00	58.90	102.30	13876.22	276.84S	1212.75E	3.01	1243.94	787642.64
14424.00	58.60	103.00	13892.82	282.83S	1239.44E	2.09	1271.30	787669.38
14456.00	58.80	103.30	13909.45	289.05S	1266.07E	1.02	1298.64	787696.06
14487.00	59.10	104.70	13925.44	295.47S	1291.84E	3.99	1325.20	787721.88
14519.00	58.30	105.40	13942.06	302.57S	1318.24E	3.12	1352.52	787748.35
14551.00	58.30	106.10	13958.88	309.96S	1344.45E	1.86	1379.72	787774.61
14583.00	58.20	105.10	13975.72	317.28S	1370.66E	2.68	1406.90	787800.88
14614.00	59.00	104.00	13991.87	323.93S	1396.27E	3.98	1433.35	787826.55
14646.00	59.50	103.30	14008.23	330.42S	1422.99E	2.44	1460.85	787853.33
14678.00	59.60	103.30	14024.45	336.76S	1449.84E	0.31	1488.43	787880.23
14709.00	58.80	103.70	14040.32	342.98S	1475.73E	2.81	1515.06	787906.17
14741.00	58.70	104.00	14056.92	349.53S	1502.29E	0.86	1542.41	787932.79
14790.00	58.70	104.00	14082.38	359.66S	1542.91E	0.00	1584.27	787973.50

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 1584.28 on azimuth 103.12 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 102.99 degrees.

Grid is mercator - New Mexico East (3001).

291' FSL
 - 1380' FSL
 - 366
 934' FSL
 5'01
 28'00' FSL
 + 1597
 1055' FSL
 4207' FSL
 1673' FSL

DEVON ENERGY									
Structure : Red Bull 31 State					Slot : slot #1				
Field :					Location : LEA COUNTY, NEW MEXICO				
Created by: adrynm Date plotted : 18-Feb-2005 Plot Reference is Pin 10. Coordinates are in feet reference structure. True Vertical Depths are reference structure. --- Baker Hughes INTEQ ---									
--- WELL PROFILE DATA ---									
----- Point -----	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100	
Tie on	11670.00	0.52	185.98	11668.80	-41.53	-96.00	-84.20	0.00	
KOP	11730.00	0.52	185.98	11728.79	-42.07	-96.05	-84.14	0.00	
End of Build/Turn	12417.34	20.51	83.89	12401.62	-32.26	24.63	31.25	3.00	
Target	12695.30	20.51	83.89	12661.97	-21.90	121.45	123.26	0.00	
KOP	12931.44	25.00	103.66	12880.00	-29.30	211.24	212.42	3.73	
End of Build/Turn	14039.76	58.25	103.66	13696.90	-200.69	916.62	938.28	3.00	
Target	14505.48	58.25	103.66	13941.97	-294.20	1301.45	1334.27	0.00	
T.D. & End of Turn	14862.74	58.25	103.65	14129.97	-365.92	1596.66	1638.05	0.00	

