

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brasas Rd., Aztec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-35013	Pool Code	Pool Name SHEEP DRAW; STRAWN GAS
Property Code	Property Name CHINABERRY "5" FEDERAL	Well Number 1
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 3378'

Surface Location

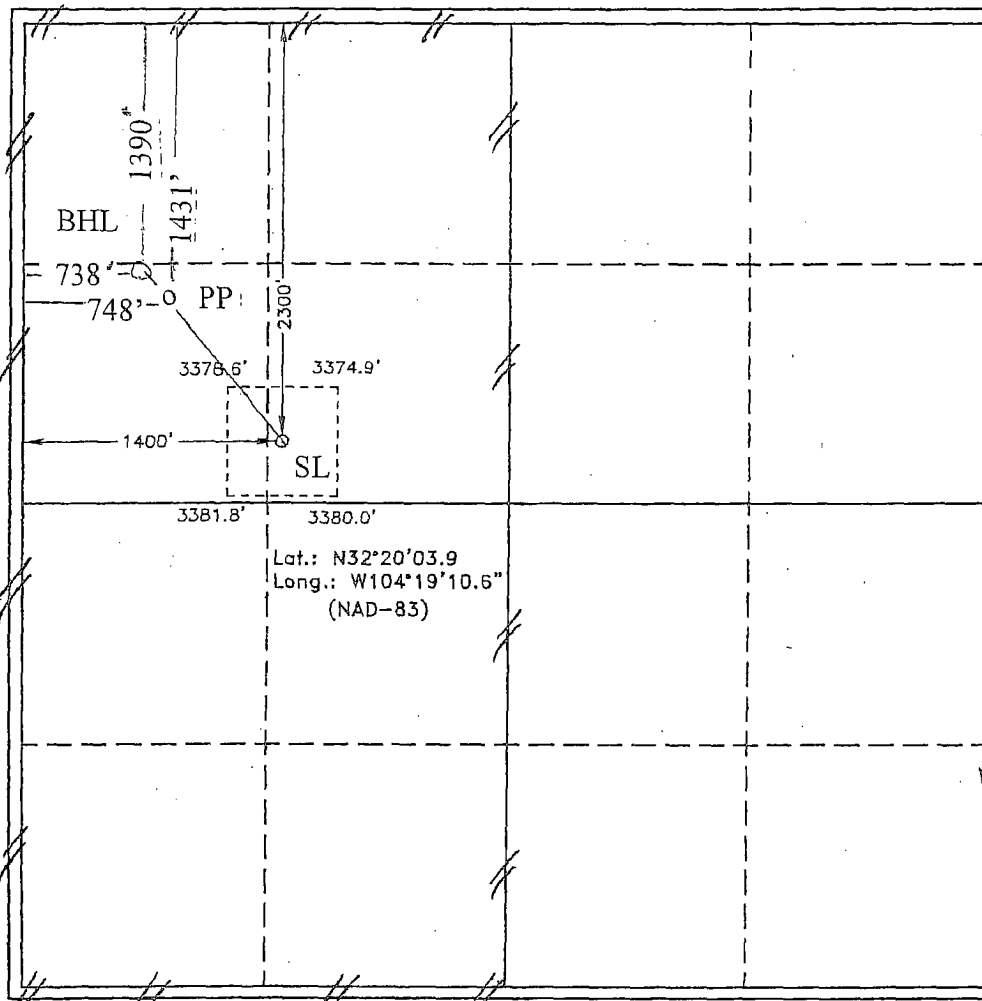
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	5	23 S	26 E		2300	NORTH	1400	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	5	23S	26E		1390'	NORTH	738	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information
contained herein is true and complete to the
best of my knowledge and belief.

Signature: STEPHANIE YSASAGA
Printed Name
SR. STAFF ENG TECH
Title
06/05/06;
Date

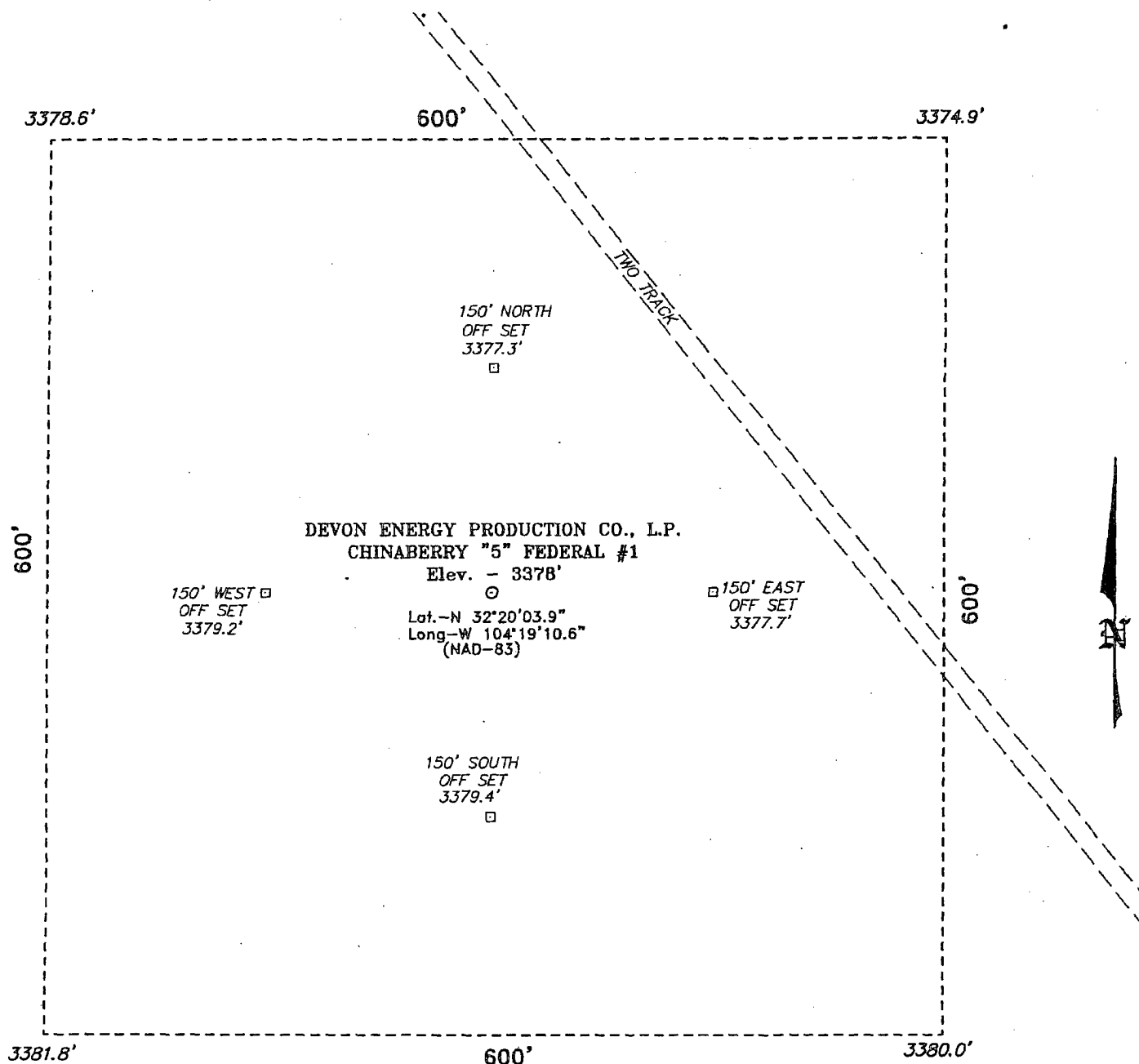
SURVEYOR CERTIFICATION

I hereby certify that the well location shown
on this plat was plotted from field notes of
actual surveys made by me or under my
supervision and that the same is true and
correct to the best of my belief.

Date Surveyed: MAY 18, 2006
Signature & Seal of
Professional Surveyor
Certificate No. 6637
7977

BASIN SURVEYS

SECTION 5, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF STATE HWY 62-180 AND
CO. RD. 672, GO WEST ON CO. RD. 672 FOR 5.7
MILE TO TWO TRACK; THENCE SOUTHEAST APPROX.
200 FEET TO PROPOSED WELL LOCATION.

DEVON ENERGY PROD. CO., L.P.

REF: CHINABERRY "5" FEDERAL #1 / WELL PAD TOPO

THE CHINABERRY "5" FEDERAL #1 LOCATED 2300' FROM
THE NORTH LINE AND 1400' FROM THE WEST LINE OF
SECTION 5, TOWNSHIP 23 SOUTH, RANGE 26 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

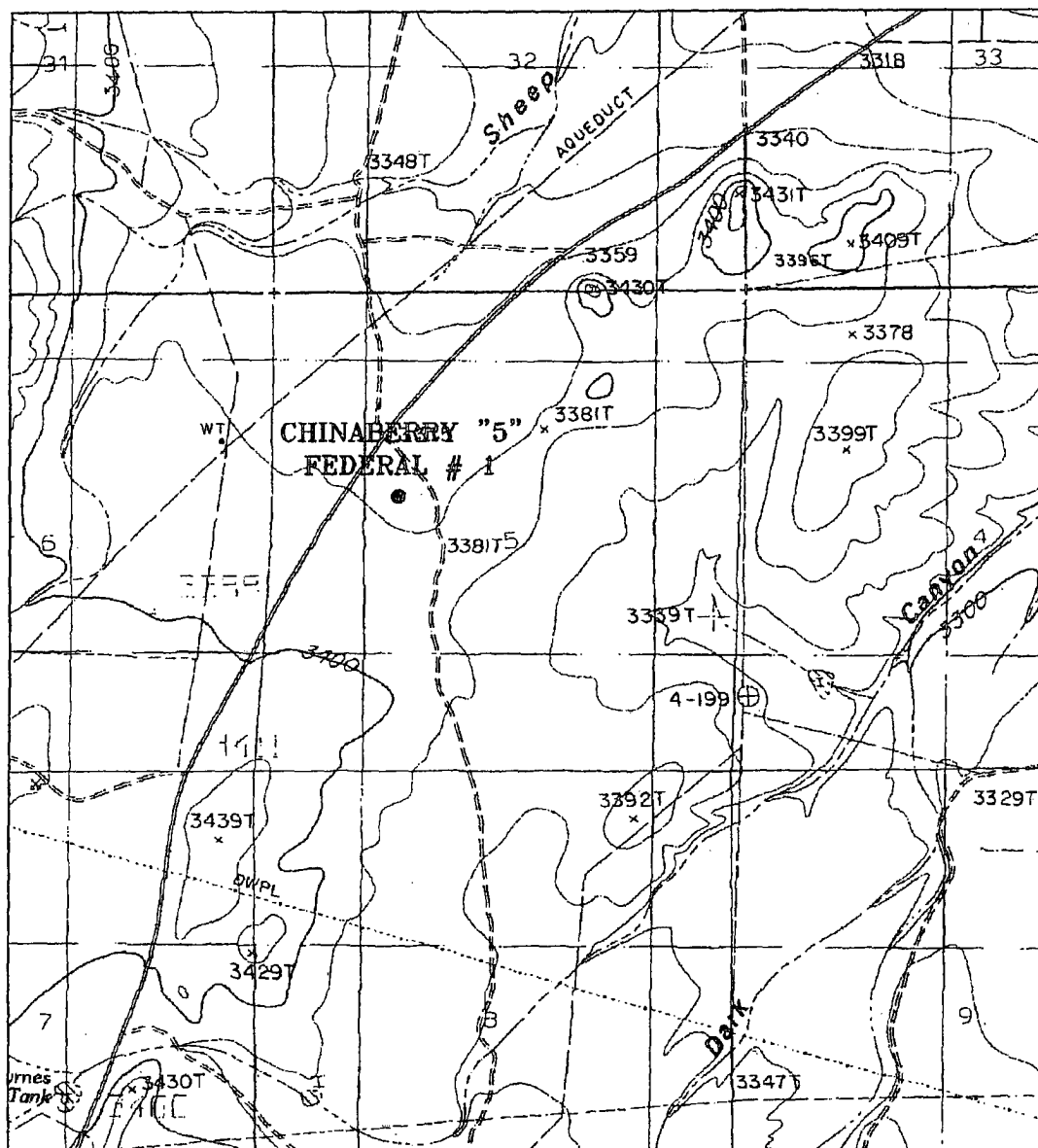
BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 6637 Drawn By: J. M. SMALL

Date: 05-17-2006 Disk: JMS 6637W

Survey Date: 05-17-2006

Sheet 1 of 1 Sheets



CHINABERRY "5" FEDERAL #1

Located at 2300' FNL AND 1400' FWL
Section 5, Township 23 South, Range 26 East,
N.M.P.M., Eddy County, New Mexico.

**basin
surveys**
focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number: 6637 JMS

Survey Date: 05-17-2006

Scale: 1" = 2000'

Date: 05-18-2006

**DEVON ENERGY
PROD. CO., L.P.**

OPERATOR
WELL/LEASE
COUNTY

Devon Energy Production Co., LP
Chinaberry 5 Fed. #1
Eddy Co., N.M.

005-0053

STATE OF NEW MEXICO
DEVIATION REPORT

233	0.25
498	0.75
672	1.75
928	1.75
1,077	0.50
1,326	1.50
1,576	1.00
1,674	1.00
2,149	0.75
2,661	1.00
3,198	1.00
3,711	1.00
4,186	0.75
4,663	1.00
5,139	0.75
5,614	1.25

11,432	2.00
11,912	0.50

STATE OF TEXAS

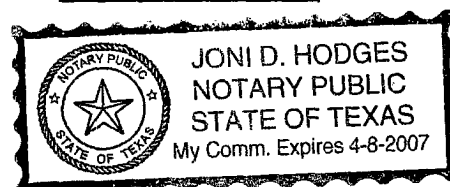
COUNTY OF MIDLAND

BY: Steve Moore

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTL Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas
My Commission Expires: 4/08/07

September 19, 2006, by Steve





Actual Wellpath Report

5 Fed #1 AWP

Page 1 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	SHL
Area	Eddy County, NM	Well	Chinaberry 5 Federal #1
Field	Sheep Draw	Wellbore	AWB
Facility	Chinaberry 5 Federal		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	GomeOscR
Scale	1.00024	Report Generated	08/31/06 at 08:21:14
Wellbore last revised	08/31/06	Database/Source file	WellArchitectDB/AWB

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	0.00	0.00	30 59 18.404N	106 03 38.987W
Facility Reference Pt			0.00	0.00	30 59 18.404N	106 03 38.987W
Field Reference Pt			0.00	0.00	30 59 18.404N	106 03 38.987W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on Directional Profile (RT) to Facility Vertical Datum	0.00 feet
Horizontal Reference Pt	Slot	Rig on Directional Profile (RT) to RKB	0.00 feet
Vertical Reference Pt	Rig on Directional Profile (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on Directional Profile (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	RKB	Section Azimuth	323.28°



Actual Wellpath Report

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Field	Sheep Draw	Wellbore	AWB
Facility	Chinaberry 5 Federal		

WELLPATH DATA (154 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00
100.00	0.330	290.970	100.00	0.24	0.10	-0.27	0.33
200.00	0.330	313.910	200.00	0.77	0.41	-0.75	0.13
300.00	0.580	340.630	299.99	1.54	1.08	-1.12	0.32
400.00	0.680	350.260	399.99	2.55	2.15	-1.39	0.15
500.00	0.850	356.940	499.98	3.70	3.47	-1.53	0.19
600.00	1.060	0.630	599.97	5.05	5.14	-1.56	0.22
700.00	1.290	359.230	699.94	6.70	7.19	-1.56	0.23
800.00	1.320	5.950	799.92	8.45	9.46	-1.46	0.16
900.00	1.010	7.630	899.90	9.93	11.48	-1.22	0.31
1000.00	0.500	351.130	999.89	10.95	12.78	-1.17	0.55
1100.00	0.300	340.640	1099.89	11.58	13.46	-1.33	0.21
1200.00	0.520	115.540	1199.89	11.43	13.51	-1.00	0.76
1300.00	1.350	120.370	1299.87	9.94	12.72	0.42	0.83
1400.00	1.500	118.610	1399.84	7.67	11.50	2.59	0.16
1500.00	1.510	116.500	1499.81	5.30	10.28	4.92	0.06
1600.00	0.980	112.820	1599.78	3.39	9.36	6.88	0.54
1700.00	0.850	109.210	1699.77	2.04	8.79	8.37	0.14
1800.00	0.780	103.420	1799.76	0.90	8.39	9.73	0.11
1900.00	0.540	108.780	1899.75	-0.01	8.08	10.84	0.25
2000.00	0.480	82.190	1999.75	-0.60	7.98	11.70	0.24
2100.00	0.580	85.640	2099.74	-1.07	8.08	12.62	0.10
2200.00	0.480	94.200	2199.74	-1.62	8.08	13.55	0.13
2300.00	0.510	87.570	2299.74	-2.14	8.07	14.41	0.06
2400.00	0.490	66.440	2399.73	-2.49	8.26	15.24	0.18
2500.00	0.460	66.680	2499.73	-2.68	8.59	16.00	0.03
2600.00	0.590	64.330	2599.72	-2.87	8.97	16.84	0.13
2700.00	0.590	59.300	2699.72	-3.03	9.46	17.74	0.05
2800.00	0.560	46.330	2799.71	-3.02	10.06	18.54	0.13
2900.00	0.640	59.130	2899.71	-3.02	10.68	19.37	0.16
3000.00	0.590	62.420	2999.70	-3.16	11.21	20.31	0.06
3100.00	0.630	63.310	3099.70	-3.34	11.69	21.26	0.04
3200.00	0.470	75.950	3199.69	-3.59	12.04	22.15	0.20
3300.00	0.420	65.030	3299.69	-3.82	12.30	22.88	0.10
3400.00	0.220	80.480	3399.69	-3.98	12.48	23.40	0.22
3500.00	0.090	22.380	3499.69	-4.03	12.59	23.62	0.19
3600.00	0.070	153.860	3599.69	-4.05	12.60	23.67	0.15
3700.00	0.150	31.460	3699.69	-4.06	12.66	23.77	0.20
3800.00	0.100	36.170	3799.69	-3.99	12.84	23.89	0.05
3900.00	0.130	103.500	3899.69	-4.05	12.89	24.05	0.13



Actual Wellpath Report

5 Fed #1 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	SHL
Area	Eddy County, NM	Well	Chinaberry 5 Federal #1
Field	Sheep Draw	Wellbore	AWB
Facility	Chinaberry 5 Federal		

WELLPATH DATA (154 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
4000.00	0.240	85.170	3999.69	-4.25	12.88	24.37	0.12
4100.00	0.110	82.580	4099.69	-4.41	12.91	24.67	0.13
4200.00	0.180	39.420	4199.69	-4.42	13.04	24.87	0.12
4300.00	0.210	63.800	4299.69	-4.41	13.24	25.13	0.09
4400.00	0.110	25.970	4399.69	-4.40	13.41	25.34	0.14
4500.00	0.140	128.340	4499.69	-4.47	13.42	25.48	0.20
4600.00	0.190	92.160	4599.68	-4.70	13.34	25.74	0.11
4700.00	0.090	9.610	4699.68	-4.75	13.41	25.92	0.20
4800.00	0.090	96.830	4799.68	-4.75	13.48	26.01	0.12
4900.00	0.130	234.670	4899.68	-4.80	13.40	25.99	0.21
5000.00	0.240	325.270	4999.68	-4.59	13.51	25.78	0.27
5100.00	0.440	359.690	5099.68	-4.07	14.07	25.66	0.28
5200.00	0.450	0.350	5199.68	-3.44	14.84	25.66	0.01
5300.00	0.400	358.020	5299.68	-2.84	15.59	25.65	0.05
5400.00	0.290	316.440	5399.67	-2.31	16.12	25.46	0.27
5500.00	0.450	315.460	5499.67	-1.67	16.58	25.01	0.16
5600.00	0.620	317.750	5599.67	-0.74	17.26	24.38	0.17
5700.00	0.820	320.500	5699.66	0.51	18.21	23.56	0.20
5800.00	0.960	317.880	5799.65	2.06	19.39	22.54	0.15
5900.00	0.700	310.980	5899.64	3.49	20.41	21.52	0.28
6000.00	0.880	5.970	5999.63	4.66	21.57	21.14	0.75
6100.00	0.840	343.670	6099.62	5.91	23.04	21.01	0.33
6120.00	0.850	343.700	6119.62	6.18	23.32	20.93	0.05
6250.00	1.000	333.500	6249.60	8.20	25.26	20.15	0.17
6281.00	1.200	327.800	6280.59	8.79	25.78	19.86	0.73
6313.00	1.800	324.000	6312.58	9.63	26.47	19.38	1.90
6345.00	2.800	320.100	6344.56	10.91	27.48	18.58	3.16
6375.00	3.800	319.400	6374.51	12.64	28.79	17.47	3.34
6407.00	4.800	319.000	6406.42	15.03	30.61	15.90	3.13
6439.00	5.600	319.700	6438.28	17.92	32.81	14.01	2.51
6471.00	6.000	320.100	6470.12	21.15	35.29	11.93	1.26
6503.00	6.700	320.400	6501.92	24.69	38.01	9.67	2.19
6535.00	7.400	320.100	6533.68	28.61	41.03	7.15	2.19
6567.00	8.200	319.700	6565.38	32.94	44.35	4.36	2.51
6598.00	8.700	320.100	6596.05	37.49	47.83	1.42	1.62
6630.00	8.900	319.400	6627.67	42.38	51.57	-1.74	0.71
6662.00	9.200	319.000	6659.27	47.40	55.38	-5.03	0.96
6693.00	9.800	318.700	6689.85	52.50	59.23	-8.40	1.94
6725.00	10.500	318.700	6721.35	58.12	63.47	-12.12	2.19
6757.00	11.200	318.700	6752.77	64.12	67.99	-16.09	2.19



Actual Wellpath Report

5 Fed #1 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	SHL
Area	Eddy County, NM	Well	Chinaberry 5 Federal #1
Field	Sheep Draw	Wellbore	AWB
Facility	Chinaberry 5 Federal		

WELLPATH DATA (154 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
6789.00	11.700	318.700	6784.14	70.46	72.76	-20.29	1.56
6821.00	12.600	319.400	6815.42	77.17	77.85	-24.70	2.85
6852.00	13.300	319.400	6845.63	84.10	83.13	-29.22	2.26
6884.00	14.000	319.000	6876.73	91.64	88.84	-34.16	2.21
6916.00	14.900	319.700	6907.72	99.60	94.90	-39.36	2.86
6948.00	15.600	320.100	6938.59	108.00	101.34	-44.78	2.21
6980.00	16.300	320.100	6969.36	116.78	108.09	-50.42	2.19
7011.00	17.100	320.100	6999.05	125.68	114.92	-56.13	2.58
7043.00	17.800	320.100	7029.58	135.26	122.28	-62.29	2.19
7075.00	18.400	320.400	7059.99	145.19	129.93	-68.64	1.90
7107.00	18.700	320.800	7090.33	155.36	137.79	-75.11	1.02
7138.00	19.100	320.800	7119.66	165.39	145.58	-81.45	1.29
7170.00	19.600	320.400	7149.85	175.98	153.77	-88.18	1.62
7201.00	20.300	320.100	7178.99	186.54	161.90	-94.95	2.28
7233.00	21.000	319.700	7208.93	197.81	170.53	-102.22	2.23
7295.00	22.300	319.000	7266.56	220.63	187.88	-117.12	2.14
7357.00	22.800	320.100	7323.82	244.35	205.98	-132.54	1.06
7420.00	22.700	321.200	7381.92	268.69	224.81	-147.99	0.69
7482.00	22.500	321.500	7439.16	292.50	243.42	-162.87	0.37
7514.00	23.100	321.500	7468.66	304.89	253.13	-170.59	1.87
7546.00	23.900	321.900	7498.00	317.65	263.14	-178.50	2.55
7578.00	24.500	321.500	7527.19	330.76	273.44	-186.63	1.94
7609.00	24.600	322.200	7555.39	343.64	283.56	-194.58	0.99
7641.00	25.200	322.200	7584.41	357.11	294.21	-202.84	1.88
7673.00	25.300	322.900	7613.36	370.76	305.05	-211.14	0.98
7705.00	25.100	323.300	7642.31	384.38	315.94	-219.32	0.82
7736.00	24.900	323.600	7670.41	397.48	326.47	-227.12	0.76
7768.00	24.500	324.300	7699.48	410.85	337.28	-234.99	1.55
7800.00	24.600	324.300	7728.58	424.15	348.07	-242.75	0.31
7864.00	25.000	323.600	7786.68	450.99	369.78	-258.55	0.78
7927.00	24.300	323.600	7843.94	477.27	390.93	-274.14	1.11
7991.00	23.900	323.300	7902.36	503.40	411.92	-289.71	0.65
8053.00	23.700	321.900	7959.09	528.41	431.80	-304.90	0.97
8117.00	24.300	321.500	8017.56	554.44	452.22	-321.04	0.97
8182.00	25.200	321.200	8076.59	581.63	473.47	-338.03	1.40
8245.00	25.100	321.500	8133.61	608.39	494.38	-354.75	0.26
8309.00	25.400	321.900	8191.50	635.68	515.81	-371.67	0.54
8372.00	25.300	322.200	8248.43	662.65	537.08	-388.26	0.26
8435.00	25.100	321.900	8305.44	689.47	558.23	-404.76	0.38
8498.00	24.900	321.900	8362.53	716.08	579.18	-421.19	0.32



Actual Wellpath Report

5 Fed #1 AWP

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INTEQ

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Facility	Chinaberry 5 Federal		

WELLPATH DATA (154 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
8561.00	23.700	322.900	8419.95	742.00	599.72	-437.01	2.01
8624.00	23.100	322.900	8477.77	767.02	619.68	-452.10	0.95
8687.00	21.800	322.900	8535.99	791.08	638.86	-466.61	2.06
8751.00	20.800	323.300	8595.62	814.33	657.45	-480.57	1.58
8815.00	20.000	323.600	8655.61	836.64	675.37	-493.86	1.26
8879.00	18.500	324.000	8716.03	857.74	692.40	-506.32	2.35
8942.00	17.300	324.000	8775.98	877.10	708.06	-517.70	1.90
9037.00	14.800	324.300	8867.27	903.36	729.35	-533.09	2.63
9100.00	13.900	321.900	8928.30	918.97	741.84	-542.45	1.71
9164.00	13.600	319.700	8990.47	934.16	753.63	-552.06	0.94
9228.00	13.100	318.000	9052.74	948.90	764.75	-561.78	0.99
9291.00	12.600	316.600	9114.16	962.83	775.05	-571.28	0.93
9354.00	12.000	318.000	9175.71	976.18	784.91	-580.39	1.06
9418.00	11.400	320.400	9238.38	989.12	794.73	-588.87	1.21
9482.00	10.400	320.800	9301.23	1001.21	804.08	-596.55	1.57
9545.00	9.200	322.900	9363.31	1011.92	812.51	-603.18	1.99
9609.00	8.300	321.500	9426.56	1021.66	820.20	-609.15	1.44
9673.00	7.300	318.000	9489.97	1030.32	826.84	-614.74	1.73
9736.00	6.600	318.300	9552.51	1037.92	832.52	-619.83	1.11
9800.00	6.900	322.200	9616.06	1045.42	838.30	-624.63	0.86
9863.00	6.400	325.000	9678.64	1052.72	844.17	-628.97	0.95
9927.00	5.600	323.300	9742.29	1059.41	849.59	-632.88	1.28
9990.00	4.700	316.200	9805.03	1065.04	853.92	-636.50	1.75
10055.00	3.600	306.700	9869.86	1069.64	857.06	-639.98	1.99
10119.00	2.700	307.100	9933.77	1073.01	859.17	-642.80	1.41
10182.00	1.800	307.100	9996.72	1075.39	860.66	-644.77	1.43
10245.00	0.900	297.900	10059.70	1076.79	861.49	-645.99	1.46
10276.00	0.600	299.000	10090.70	1077.15	861.68	-646.35	0.97
10307.00	0.500	303.600	10121.69	1077.43	861.84	-646.61	0.35
10339.00	0.400	295.500	10153.69	1077.66	861.96	-646.82	0.37
10371.00	0.200	303.900	10185.69	1077.81	862.04	-646.97	0.64
10403.00	0.100	131.000	10217.69	1077.84	862.06	-647.00	0.94
10435.00	0.400	91.200	10249.69	1077.74	862.03	-646.86	1.03
10500.00	0.400	91.200	10314.69	1077.46	862.03	-646.41	0.00



Actual Wellpath Report

5 Fed #1 AWP

Page 6 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	SHL
Area	Eddy County, NM	Well	Chinaberry 5 Federal #1
Field	Sheep Draw	Wellbore	AWB
Facility	Chinaberry 5 Federal		

TARGETS

Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
Target 1		10000.00	875.00	-640.00	-640.16	875.21	30 59 26.964N	106 03 46.495W	point

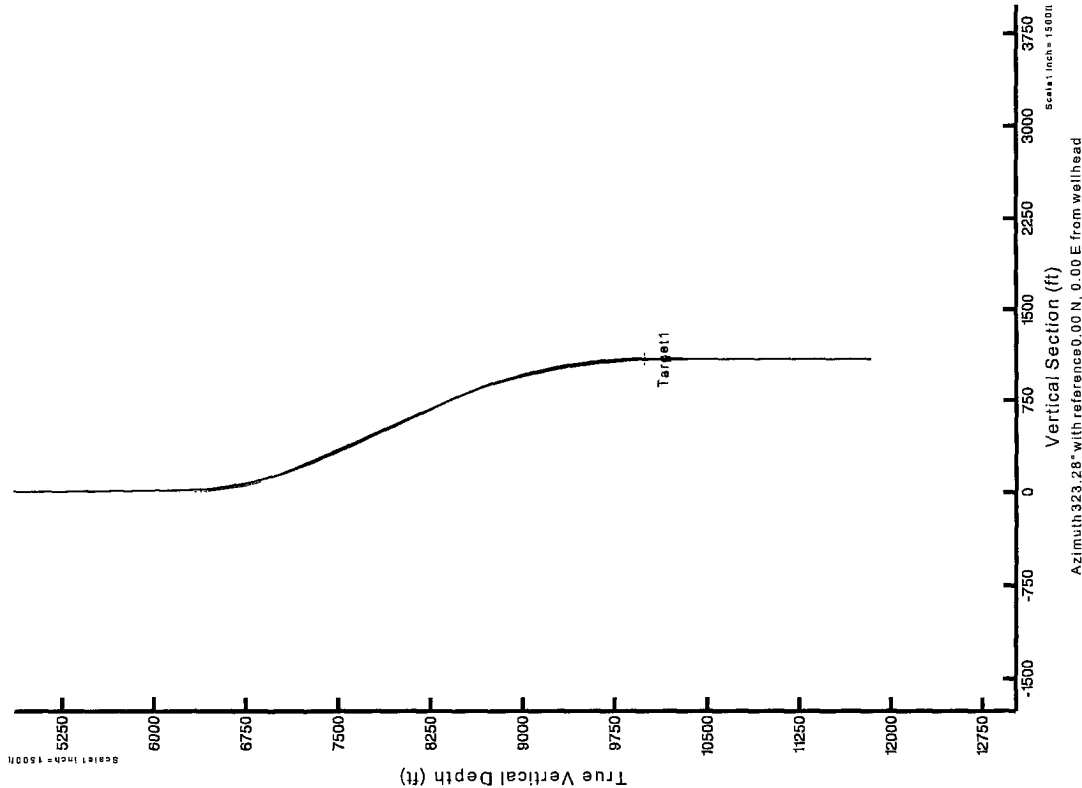
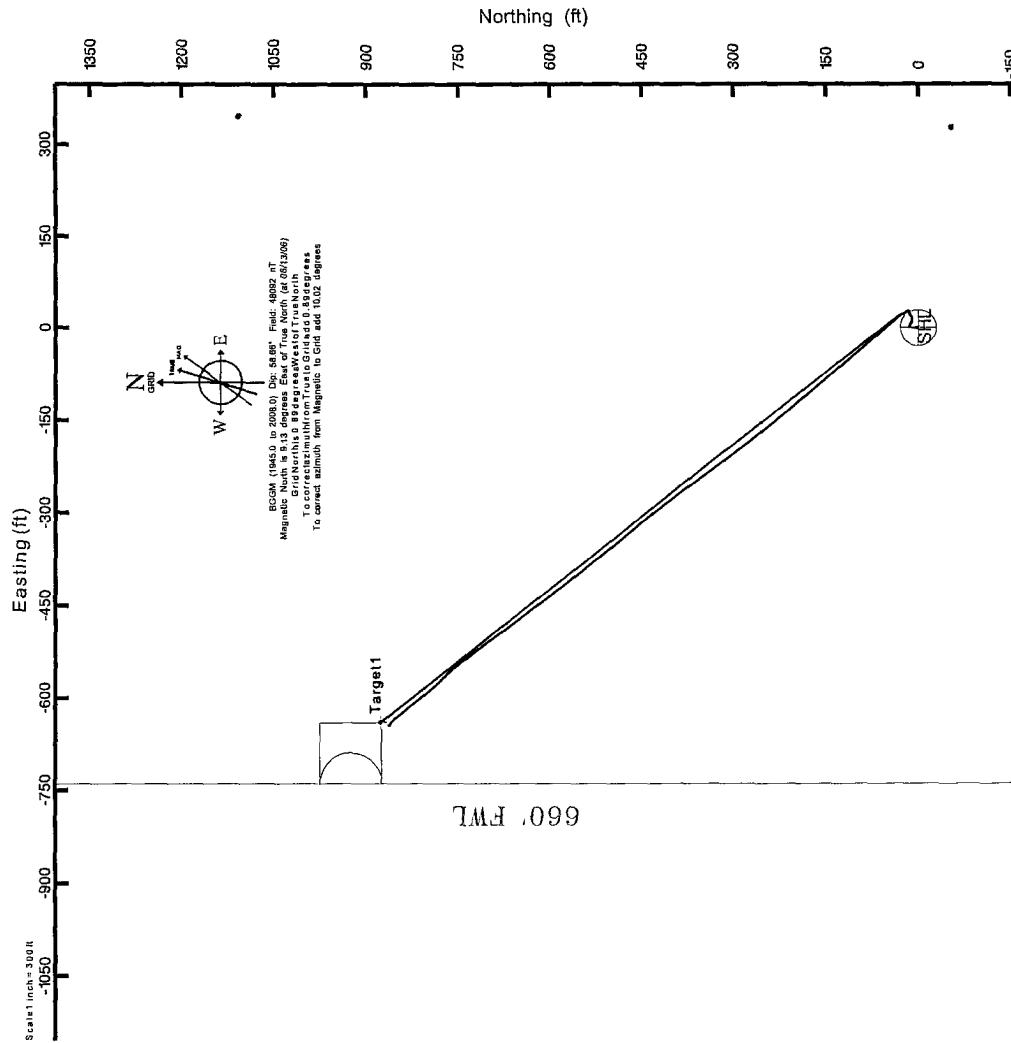
WELLPATH COMPOSITION Ref Wellbore: AWB Ref Wellpath: 5 Fed #1 AWP

Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6120.00	Generic gyro - northseeking (Standard)	Gyro 0'-6120'	AWB
6120.00	10500.00	NaviTrak (Standard)	MWD	AWB

devon

Devon Energy

Location: Eddy County, NM
 Field: Sheep Draw
 Facility: Chinaberry 5 Federal
 Slot: SHL
 Well: Chinaberry 5 Federal #1
 Wellbore: AWB



ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes INTEQ

Software System: WellArchitect™1.2

REFERENCE WELLPATH IDENTIFICATION

Operator Devon Energy
Area Eddy County, NM
Field Sheep Draw
Facility Chinaberry 5 Federal
Slot SHL
Well Chinaberry 5 Federal #1
Wellbore AWB
Wellpath 5 Fed #1 AWP
Sidetrack (none)

REPORT SETUP INFORMATION

Projection : NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet

North Refe Grid

Scale 1.00024

Wellbore L 8/31/2006

Software S WellArchitect™

User GomeOscR

Report Gen 08/31/06 at 08:21:54

DataBase/ WellArchitectDB/ev05.xml

WELLPATH	Local North [ft]	Local East [ft]	Grid East [ft]	Grid North [ft]	Latitude [°]	Longitude [°]
Slot Locati	0	0	0	0	30 59 18.4	106 03 38.987W
Facility Ref			0	0	30 59 18.4	106 03 38.987W
Field Refer			0	0	30 59 18.4	106 03 38.987W

WELLPATH DATUM

Calculation Minimum curvature

Horizontal Slot

Vertical Re Rig on Directional Profile (RT)

MD Refere Rig on Directional Profile (RT)

Field Vertic RKB

Rig on Dire 0.00 feet

Rig on Dire 0.00 feet

Facility Ver 0.00 feet

Section Ori 0.00 feet

Section Ori 0.00 feet

Section Azi 323.28°

WELLPATH DATA		Wellbore: AWB	Wellpath: 5 Fed #1 AWP	† = interpolated/extrapolated				
MD feet	Inclination deg	Azimuth deg	TVD feet	Vert Sect feet	North feet	East feet	DLS deg/100ft	
0	0	0	0	0	0	0	0	0
100	0.33	290.97	100	0.24	0.1	-0.27	0.33	
200	0.33	313.91	200	0.77	0.41	-0.75	0.13	
300	0.58	340.63	299.99	1.54	1.08	-1.12	0.32	

400	0.68	350.26	399.99	2.55	2.15	-1.39	0.15
500	0.85	356.54	499.98	3.7	3.47	-1.53	0.19
600	1.06	0.63	599.97	5.05	5.14	-1.56	0.22
700	1.29	359.23	699.94	6.7	7.19	-1.56	0.23
800	1.32	5.95	799.92	8.45	9.46	-1.46	0.16
900	1.01	7.63	899.9	9.93	11.48	-1.22	0.31
1000	0.5	351.13	999.89	10.95	12.78	-1.17	0.55
1100	0.3	340.64	1099.89	11.58	13.46	-1.33	0.21
1200	0.52	115.54	1199.89	11.43	13.51	-1	0.76
1300	1.35	120.37	1299.87	9.94	12.72	0.42	0.83
1400	1.5	118.61	1399.84	7.67	11.5	2.59	0.16
1500	1.51	116.5	1499.81	5.3	10.28	4.92	0.06
1600	0.98	112.82	1599.78	3.39	9.36	6.88	0.54
1700	0.85	109.21	1699.77	2.04	8.79	8.37	0.14
1800	0.78	103.42	1799.76	0.9	8.39	9.73	0.11
1900	0.54	108.78	1899.75	-0.01	8.08	10.84	0.25
2000	0.48	82.19	1999.75	-0.6	7.98	11.7	0.24
2100	0.58	85.64	2099.74	-1.07	8.08	12.62	0.1
2200	0.48	94.2	2199.74	-1.62	8.08	13.55	0.13
2300	0.51	87.57	2299.74	-2.14	8.07	14.41	0.06
2400	0.49	66.44	2399.73	-2.49	8.26	15.24	0.18
2500	0.46	66.68	2499.73	-2.68	8.59	16	0.03
2600	0.59	64.33	2599.72	-2.87	8.97	16.84	0.13
2700	0.59	59.3	2699.72	-3.03	9.46	17.74	0.05
2800	0.56	46.33	2799.71	-3.02	10.06	18.54	0.13
2900	0.64	59.13	2899.71	-3.02	10.68	19.37	0.16
3000	0.59	62.42	2999.7	-3.16	11.21	20.31	0.06
3100	0.63	63.31	3099.7	-3.34	11.69	21.26	0.04
3200	0.47	75.95	3199.69	-3.59	12.04	22.15	0.2
3300	0.42	65.03	3299.69	-3.82	12.3	22.88	0.1
3400	0.22	80.48	3399.69	-3.98	12.48	23.4	0.22
3500	0.09	22.38	3499.69	-4.03	12.59	23.62	0.19
3600	0.07	153.86	3599.69	-4.05	12.6	23.67	0.15
3700	0.15	31.46	3699.69	-4.06	12.66	23.77	0.2
3800	0.1	36.17	3799.69	-3.99	12.84	23.89	0.05
3900	0.13	103.5	3899.69	-4.05	12.89	24.05	0.13
4000	0.24	85.17	3999.69	-4.25	12.88	24.37	0.12
4100	0.11	82.58	4099.69	-4.41	12.91	24.67	0.13
4200	0.18	39.42	4199.69	-4.42	13.04	24.87	0.12
4300	0.21	63.8	4299.69	-4.41	13.24	25.13	0.09
4400	0.11	25.97	4399.69	-4.4	13.41	25.34	0.14
4500	0.14	128.34	4499.69	-4.47	13.42	25.48	0.2
4600	0.19	92.16	4599.68	-4.7	13.34	25.74	0.11
4700	0.09	9.61	4699.68	-4.75	13.41	25.92	0.2
4800	0.09	96.83	4799.68	-4.75	13.48	26.01	0.12
4900	0.13	234.67	4899.68	-4.8	13.4	25.99	0.21
5000	0.24	325.27	4999.68	-4.59	13.51	25.78	0.27
5100	0.44	359.69	5099.68	-4.07	14.07	25.66	0.28
5200	0.45	0.35	5199.68	-3.44	14.84	25.66	0.01
5300	0.4	358.02	5299.68	-2.84	15.59	25.65	0.05
5400	0.29	316.44	5399.67	-2.31	16.12	25.46	0.27
5500	0.45	315.46	5499.67	-1.67	16.58	25.01	0.16

5600	0.62	317.75	5599.67	-0.74	17.26	24.38	0.17
5700	0.82	320.5	5699.66	0.51	18.21	23.56	0.2
5800	0.96	317.88	5799.65	2.06	19.39	22.54	0.15
5900	0.7	310.98	5899.64	3.49	20.41	21.52	0.28
6000	0.88	5.97	5999.63	4.66	21.57	21.14	0.75
6100	0.84	343.67	6099.62	5.91	23.04	21.01	0.33
6120	0.85	343.7	6119.62	6.18	23.32	20.93	0.05
6250	1	333.5	6249.6	8.2	25.26	20.15	0.17
6281	1.2	327.8	6280.59	8.79	25.78	19.86	0.73
6313	1.8	324	6312.58	9.63	26.47	19.38	1.9
6345	2.8	320.1	6344.56	10.91	27.48	18.58	3.16
6375	3.8	319.4	6374.51	12.64	28.79	17.47	3.34
6407	4.8	319	6406.42	15.03	30.61	15.9	3.13
6439	5.6	319.7	6438.28	17.92	32.81	14.01	2.51
6471	6	320.1	6470.12	21.15	35.29	11.93	1.26
6503	6.7	320.4	6501.92	24.69	38.01	9.67	2.19
6535	7.4	320.1	6533.68	28.61	41.03	7.15	2.19
6567	8.2	319.7	6565.38	32.94	44.35	4.36	2.51
6598	8.7	320.1	6596.05	37.49	47.83	1.42	1.62
6630	8.9	319.4	6627.67	42.38	51.57	-1.74	0.71
6662	9.2	319	6659.27	47.4	55.38	-5.03	0.96
6693	9.8	318.7	6689.85	52.5	59.23	-8.4	1.94
6725	10.5	318.7	6721.35	58.12	63.47	-12.12	2.19
6757	11.2	318.7	6752.77	64.12	67.99	-16.09	2.19
6789	11.7	318.7	6784.14	70.46	72.76	-20.29	1.56
6821	12.6	319.4	6815.42	77.17	77.85	-24.7	2.85
6852	13.3	319.4	6845.63	84.1	83.13	-29.22	2.26
6884	14	319	6876.73	91.64	88.84	-34.16	2.21
6916	14.9	319.7	6907.72	99.6	94.9	-39.36	2.86
6948	15.6	320.1	6938.59	108	101.34	-44.78	2.21
6980	16.3	320.1	6969.36	116.78	108.09	-50.42	2.19
7011	17.1	320.1	6999.05	125.68	114.92	-56.13	2.58
7043	17.8	320.1	7029.58	135.26	122.28	-62.29	2.19
7075	18.4	320.4	7059.99	145.19	129.93	-68.64	1.9
7107	18.7	320.8	7090.33	155.36	137.79	-75.11	1.02
7138	19.1	320.8	7119.66	165.39	145.58	-81.45	1.29
7170	19.6	320.4	7149.85	175.98	153.77	-88.18	1.62
7201	20.3	320.1	7178.99	186.54	161.9	-94.95	2.28
7233	21	319.7	7208.93	197.81	170.53	-102.22	2.23
7295	22.3	319	7266.56	220.63	187.88	-117.12	2.14
7357	22.8	320.1	7323.82	244.35	205.98	-132.54	1.06
7420	22.7	321.2	7381.92	268.69	224.81	-147.99	0.69
7482	22.5	321.5	7439.16	292.5	243.42	-162.87	0.37
7514	23.1	321.5	7468.66	304.89	253.13	-170.59	1.87
7546	23.9	321.9	7498	317.65	263.14	-178.5	2.55
7578	24.5	321.5	7527.19	330.76	273.44	-186.63	1.94
7609	24.6	322.2	7555.39	343.64	283.56	-194.58	0.99
7641	25.2	322.2	7584.41	357.11	294.21	-202.84	1.88
7673	25.3	322.9	7613.36	370.76	305.05	-211.14	0.98
7705	25.1	323.3	7642.31	384.38	315.94	-219.32	0.82
7736	24.9	323.6	7670.41	397.48	326.47	-227.12	0.76
7768	24.5	324.3	7699.48	410.85	337.28	-234.99	1.55

7800	24.6	324.3	7728.58	424.15	348.07	-242.75	0.31
7864	25	323.6	7786.68	450.99	369.78	-258.55	0.78
7927	24.3	323.6	7843.94	477.27	390.93	-274.14	1.11
7991	23.9	323.3	7902.36	503.4	411.92	-289.71	0.65
8053	23.7	321.9	7959.09	528.41	431.8	-304.9	0.97
8117	24.3	321.5	8017.56	554.44	452.22	-321.04	0.97
8182	25.2	321.2	8076.59	581.63	473.47	-338.03	1.4
8245	25.1	321.5	8133.61	608.39	494.38	-354.75	0.26
8309	25.4	321.9	8191.5	635.68	515.81	-371.67	0.54
8372	25.3	322.2	8248.43	662.65	537.08	-388.26	0.26
8435	25.1	321.9	8305.44	689.47	558.23	-404.76	0.38
8498	24.9	321.9	8362.53	716.08	579.18	-421.19	0.32
8561	23.7	322.9	8419.95	742	599.72	-437.01	2.01
8624	23.1	322.9	8477.77	767.02	619.68	-452.1	0.95
8687	21.8	322.9	8535.99	791.08	638.86	-466.61	2.06
8751	20.8	323.3	8595.62	814.33	657.45	-480.57	1.58
8815	20	323.6	8655.61	836.64	675.37	-493.86	1.26
8879	18.5	324	8716.03	857.74	692.4	-506.32	2.35
8942	17.3	324	8775.98	877.1	708.06	-517.7	1.9
9037	14.8	324.3	8867.27	903.36	729.35	-533.09	2.63
9100	13.9	321.9	8928.3	918.97	741.84	-542.45	1.71
9164	13.6	319.7	8990.47	934.16	753.63	-552.06	0.94
9228	13.1	318	9052.74	948.9	764.75	-561.78	0.99
9291	12.6	316.6	9114.16	962.83	775.05	-571.28	0.93
9354	12	318	9175.71	976.18	784.91	-580.39	1.06
9418	11.4	320.4	9238.38	989.12	794.73	-588.87	1.21
9482	10.4	320.8	9301.23	1001.21	804.08	-596.55	1.57
9545	9.2	322.9	9363.31	1011.92	812.51	-603.18	1.99
9609	8.3	321.5	9426.56	1021.66	820.2	-609.15	1.44
9673	7.3	318	9489.97	1030.32	826.84	-614.74	1.73
9736	6.6	318.3	9552.51	1037.92	832.52	-619.83	1.11
9800	6.9	322.2	9616.06	1045.42	838.3	-624.63	0.86
9863	6.4	325	9678.64	1052.72	844.17	-628.97	0.95
9927	5.6	323.3	9742.29	1059.41	849.59	-632.88	1.28
9990	4.7	316.2	9805.03	1065.04	853.92	-636.5	1.75
10055	3.6	306.7	9869.86	1069.64	857.06	-639.98	1.99
10119	2.7	307.1	9933.77	1073.01	859.17	-642.8	1.41
10182	1.8	307.1	9996.72	1075.39	860.66	-644.77	1.43
10245	0.9	297.9	10059.7	1076.79	861.49	-645.99	1.46
10276	0.6	299	10090.7	1077.15	861.68	-646.35	0.97
10307	0.5	303.6	10121.69	1077.43	861.84	-646.61	0.35
10339	0.4	295.5	10153.69	1077.66	861.96	-646.82	0.37
10371	0.2	303.9	10185.69	1077.81	862.04	-646.97	0.64
10403	0.1	131	10217.69	1077.84	862.06	-647	0.94
10435	0.4	91.2	10249.69	1077.74	862.03	-646.86	1.03
10500	0.4	91.2	10314.69	1077.46	862.03	-646.41	0

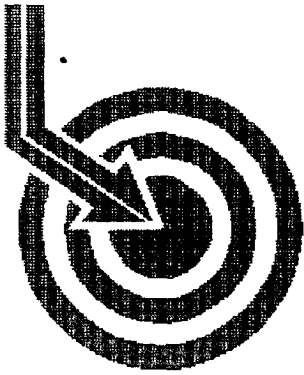
T A R G E T S

Name	MD feet	TVD feet	North feet	East feet	Grid East us survey f	Grid North us survey f	Latitude DegMinSec	Longitude DegMinSec
Target 1		10000	875	-640	-640.16	875.21	30 59 26.91	106 03 46.1

WELLPATH COMPOSITION Ref Wellbore: AWB Ref Wellpath: 5 Fed #1 AWP

Log Name/	Start MD	End MD	Pos Unc	Model
feet	feet			

Gyro 0'-612	0	6120		Generic gyro - northseeking (Standard)
MWD	6120	10500		NaviTrak (Standard)



Scientific Drilling

DEVON ENERGY

Field: Carlsbad
Site: Eddy County, Texas
Well: Chinaberry 5 Fed #1
Wellpath: VH - Job #32K0806672
Survey: 08/19/06

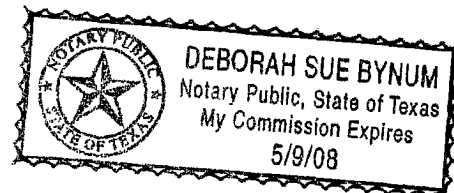
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....R. Wharty..... Company Representative

Notorized this date 26th of September, 2006.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: DEVON ENERGY
Field: Carlsbad
Site: Eddy County, Texas
Well: Chinaberry 5 Fed #1
Wellpath: VH - Job #32K0806672

Date: 09/26/2006 Time: 09:09:21 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, Texas, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,323.82Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 08/19/06 Start Date: 08/19/2006
KRG 0'-6120'
Company: Scientific Drilling Internatio Engineer: Guebara/Rowe/Rando
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	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.33	290.97	100.00	0.24	0.10	-0.27	0.33	0.29	290.97
200.00	0.33	313.91	200.00	0.77	0.41	-0.75	0.13	0.85	298.57
300.00	0.58	340.63	299.99	1.54	1.08	-1.12	0.32	1.56	314.02
400.00	0.68	350.26	399.99	2.55	2.14	-1.39	0.14	2.55	327.07
500.00	0.85	356.94	499.98	3.70	3.47	-1.53	0.19	3.79	336.21
600.00	1.06	0.63	599.97	5.06	5.13	-1.56	0.22	5.36	343.11
700.00	1.29	359.23	699.94	6.72	7.18	-1.56	0.23	7.35	347.72
800.00	1.32	5.95	799.92	8.49	9.45	-1.46	0.16	9.56	351.23
900.00	1.01	7.63	899.90	9.98	11.47	-1.22	0.31	11.54	353.92
1000.00	0.50	351.13	999.89	11.01	12.78	-1.17	0.55	12.83	354.76
1100.00	0.30	340.64	1099.89	11.65	13.46	-1.33	0.21	13.53	354.37
1200.00	0.52	115.54	1199.89	11.50	13.51	-1.00	0.76	13.55	355.75
1300.00	1.35	120.37	1299.87	10.02	12.72	0.42	0.83	12.73	1.89
1400.00	1.50	118.61	1399.84	7.76	11.50	2.58	0.16	11.79	12.65
1500.00	1.51	116.50	1499.81	5.41	10.29	4.91	0.06	11.40	25.51
1600.00	0.98	112.82	1599.78	3.50	9.37	6.88	0.54	11.62	36.29
1700.00	0.85	109.21	1699.77	2.16	8.79	8.37	0.14	12.14	43.58
1800.00	0.78	103.42	1799.76	1.03	8.39	9.73	0.11	12.85	49.23
1900.00	0.54	108.78	1899.75	0.12	8.08	10.84	0.25	13.52	53.30
2000.00	0.48	82.19	1999.75	-0.46	7.99	11.70	0.24	14.17	55.69
2100.00	0.58	85.64	2099.74	-0.93	8.08	12.62	0.10	14.99	57.37
2200.00	0.48	94.20	2199.74	-1.47	8.09	13.54	0.13	15.77	59.15
2300.00	0.51	87.57	2299.74	-1.99	8.08	14.41	0.06	16.52	60.72
2400.00	0.49	66.44	2399.73	-2.33	8.27	15.24	0.18	17.34	61.53
2500.00	0.46	66.68	2499.73	-2.51	8.60	16.00	0.03	18.17	61.76
2600.00	0.59	64.33	2599.72	-2.69	8.98	16.84	0.13	19.08	61.93
2700.00	0.59	59.30	2699.72	-2.84	9.46	17.74	0.05	20.11	61.92
2800.00	0.56	46.33	2799.71	-2.82	10.06	18.54	0.13	21.09	61.50
2900.00	0.64	59.13	2899.71	-2.81	10.69	19.37	0.15	22.12	61.11
3000.00	0.59	62.42	2999.70	-2.94	11.21	20.31	0.06	23.19	61.09
3100.00	0.63	63.31	3099.70	-3.10	11.70	21.25	0.04	24.26	61.17
3200.00	0.47	75.95	3199.69	-3.35	12.04	22.14	0.20	25.21	61.46
3300.00	0.42	65.03	3299.69	-3.58	12.30	22.87	0.10	25.97	61.73
3400.00	0.22	80.48	3399.69	-3.73	12.49	23.40	0.22	26.52	61.91
3500.00	0.09	22.38	3499.69	-3.78	12.59	23.62	0.19	26.76	61.94
3600.00	0.07	153.86	3599.69	-3.80	12.61	23.67	0.15	26.82	61.96
3700.00	0.15	31.46	3699.69	-3.81	12.66	23.77	0.19	26.93	61.95
3800.00	0.10	36.17	3799.69	-3.73	12.84	23.89	0.05	27.12	61.73
3900.00	0.13	103.50	3899.69	-3.79	12.89	24.05	0.13	27.28	61.81
4000.00	0.24	85.17	3999.69	-3.99	12.88	24.36	0.12	27.56	62.14
4100.00	0.11	82.58	4099.69	-4.14	12.91	24.67	0.13	27.84	62.38
4200.00	0.18	39.42	4199.69	-4.15	13.04	24.86	0.12	28.08	62.32
4300.00	0.21	63.80	4299.69	-4.14	13.24	25.13	0.09	28.40	62.20
4400.00	0.11	25.97	4399.69	-4.13	13.41	25.33	0.14	28.66	62.10
4500.00	0.14	128.34	4499.69	-4.20	13.42	25.47	0.20	28.79	62.21
4600.00	0.19	92.16	4599.68	-4.42	13.34	25.73	0.11	28.98	62.59
4700.00	0.09	9.61	4699.68	-4.47	13.41	25.91	0.20	29.17	62.63
4800.00	0.09	96.83	4799.68	-4.47	13.48	26.00	0.12	29.29	62.59



Scientific
Drilling

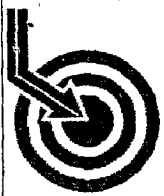
Scientific Drilling International Survey Report

Company: DEVON ENERGY
Field: Carlsbad
Site: Eddy County, Texas
Well: Chinaberry 5 Fed #1
Wellpath: VH - Job #32K0806672

Date: 09/26/2006 **Time:** 09:09:21 **Page:** 2
Co-ordinate(NE) Reference: • **Site:** Eddy County, Texas, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,323.82Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

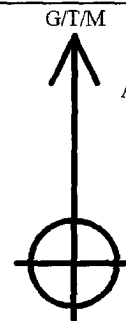
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.13	234.67	4899.68	-4.52	13.41	25.98	0.20	29.24	62.71
5000.00	0.24	325.27	4999.68	-4.31	13.51	25.77	0.27	29.10	62.33
5100.00	0.44	359.69	5099.68	-3.79	14.07	25.65	0.28	29.26	61.26
5200.00	0.45	0.35	5199.68	-3.16	14.84	25.65	0.01	29.64	59.95
5300.00	0.40	358.02	5299.68	-2.56	15.58	25.64	0.05	30.01	58.71
5400.00	0.29	316.44	5399.67	-2.02	16.12	25.46	0.27	30.13	57.66
5500.00	0.45	315.46	5499.67	-1.38	16.58	25.01	0.16	30.00	56.46
5600.00	0.62	317.75	5599.67	-0.45	17.26	24.37	0.17	29.86	54.69
5700.00	0.82	320.50	5699.66	0.80	18.21	23.55	0.20	29.77	52.29
5800.00	0.96	317.88	5799.65	2.34	19.38	22.53	0.15	29.72	49.30
5900.00	0.70	310.98	5899.64	3.77	20.41	21.51	0.27	29.65	46.51
6000.00	0.88	5.97	5999.63	4.94	21.57	21.13	0.75	30.19	44.40
6100.00	0.84	343.67	6099.62	6.20	23.03	21.00	0.33	31.17	42.35
6120.00	0.85	343.70	6119.62	6.47	23.32	20.92	0.05	31.32	41.89



Scientific
Drilling

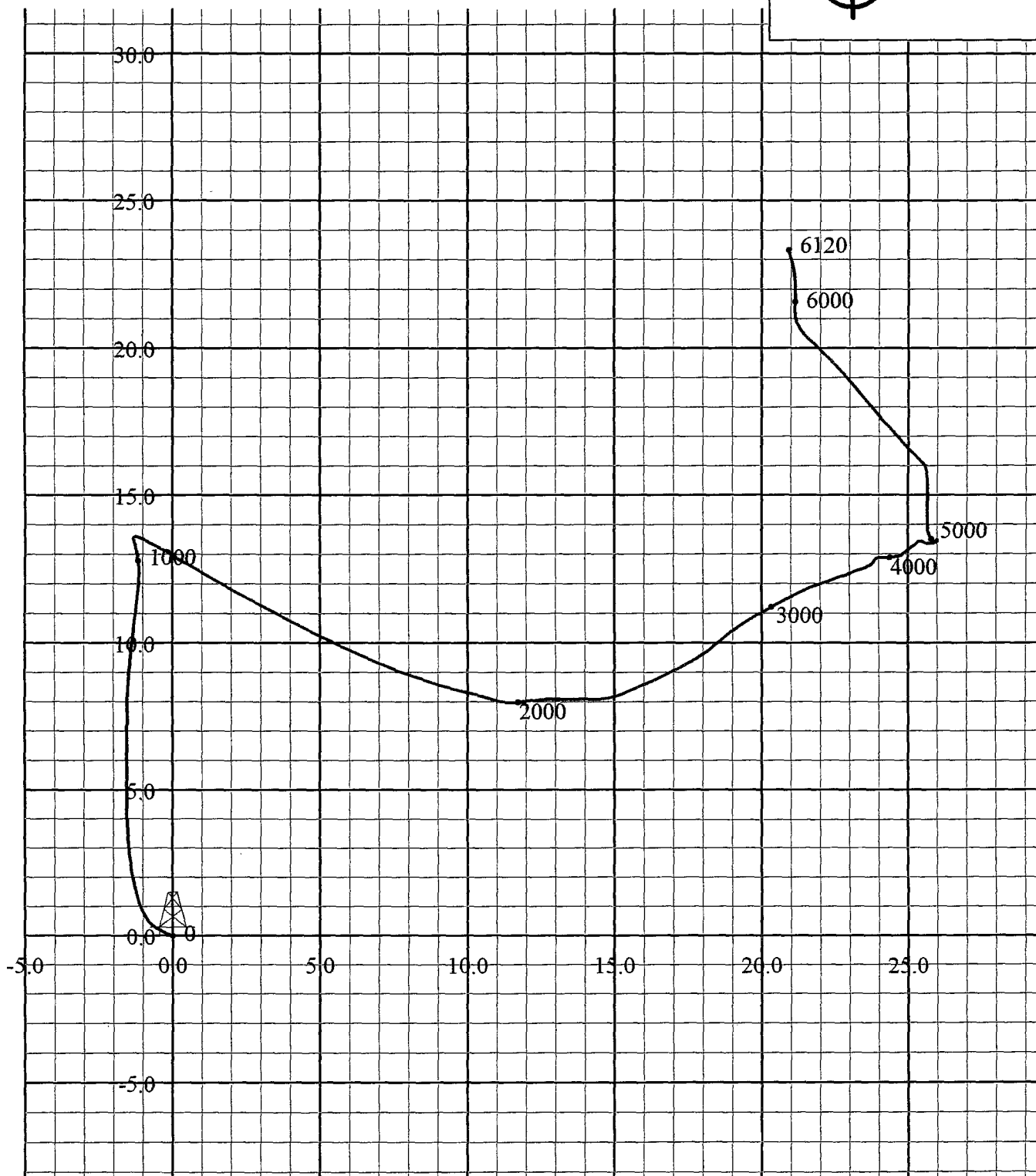
Field: Carlsbad
Site: Eddy County, Texas
Well: Chinaberry 5 Fed #1
Wellpath: VH - Job #32K0806672
Survey: 08/19/06



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 09/25/2006
Model: igrf2000

South(-)/North(+) [5ft/in]



West(-)/East(+) [5ft/in]

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: CHINABERRY 5 FED 1		Field: CARLSBAD SOUTH	
Location: 2300' FNL & 1400' FWL; SEC 5-23S-26E		County: EDDY	State: NM
Elevation: 3395' KB; 3378' GL		Spud Date: 8/6/06	Compl Date:
API#: 30-015-35013	Prepared by: Ronnie Slack	Date: 10/10/06	Rev:

17-1/2" hole
13-3/8", 48# H40, ST&C, @ 720'
 Cmt'd w/650 Sx to surface

12-1/4" Hole
9-5/8", 40#, J55, LT&C, @ 1705'
 Cmt'd w/550 Sx to surface

TOC @ 1780' (cbl-9/20/06)

DV Tool @ 7997'

2-7/8" PROD TUBING

T2 On/Off tool
Arrowset Packer @ 10200'
 10' sub
 F Profile Nipple
 6' sub
 R Profile Nipple

STRAWN perfed w/3-1/8 csg guns (9/26/06)
10270' - 10290'
 9/27/06: Acidized, Avg 5 bpm, 2200 psi

TCP gun assembly tagged @ 11803'. Guns did not fire (9/23/06)

8-3/4" Hole
5-1/2", 17#, HP-110, @ 11950'
 Cmt'd w/4400 Sx

11865' PBDT

11950' TD

