



OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 21 2008

FORM APPROVED
OMB NO. 1004-0137
EXPIRES March 31, 2007
Case Serial No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

OCD-ARTESIA

NM-89052

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other (Amended *see survey)	6. If Indian, Allottee or Tribe Name
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., attached)	7. Unit or CA Agreement Name and No
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP	8. Lease Name and Well No. Apache 25 Federal 10H
3. Address 20 North Broadway, Oklahoma City, OK 73102	9. API Well No. 30-015-35597
3a. Phone No. (include area code) 405-235-3611	10. Field and Pool, or Exploratory Quahada Ridge Southeast, Delaware
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At Surface 810' FSL 910' FEL At top prod. Interval reported below At total Depth BHL: 430' FSL & 330' FWL Sec 25 T22S R30E PP: 447' FSL & 1464' FEL	11. Sec, T., R., M., on Block and Survey or Area P SEC 25 T22S R30E
14. Date Spudded 7/29/2007	12. County or Parish 13 State Eddy NM
15. Date T D Reached 8/27/2007	17. Elevations (DR, RKB, RT, GL)* 3339' GL
16. Date Completed 10/9/2007 ☐ D & A ☒ Ready to Prod.	22. Was well cored? Was DST run? Directional Survey?
18. Total Depth: MD TVD	20. Depth Bridge Plug Set: MD TVI
19. Plug Back T.D.: MD TVI	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)	☒ No ☐ Yes (Submit analysis) ☒ No ☐ Yes (Submit report) ☐ No ☒ Yes (Submit copy)

SPC/DENS/DUAL/NEUTRON & ARRAY/COMP/RES

23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8" H40	48#		637'		650 sx CI C;100 sx to pit		Surface	
12 1/4"	9 5/8" J55	40#		3870'		1550 sx CI C;200 sx to pit		Surface	
8 3/4"	7" J55	26#		7935'		1310 sx CI C;200 sx to pit		Surface	
6 1/8"	4 1/2" N80	11.6#		11,420'		485 sx CI H;128 sx to pit		TOL 7220'	

24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 7/8"	7,202'								

25. Producing Intervals					26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status		
Delaware Brushy Canyon	10136	11332	10136-11332		23	Producing		
Delaware Brushy Canyon	8207	9502	8207-9502		23	Producing		

27. Acid, Fracture, Treatment, Cement Squeeze, Etc		Amount and Type of Material
Depth Interval		
10136-11332		Acidize w/1400 gals 7 1/2% NEFE & 46 BS. Frac w/ 249K gals Spec Star 2800 Gel, 7021# 100 Mesh Sd, 302,563# 20/40 wh sd, 82,778# 16/30 SiberProp sd flush w/ 13,365 gals 10# gel.
8207-9502		Acidize w/ 800 gals 7 1/2% NEFE acid. Frac w/ 251,961 gals Spectra Star 2800 Gel, 75K# 100 Mesh Sd, 302,500# 20/40 wh sd, 83,750# 16/30 Siberprop sd flush w/ 12,096 gals 10# Gel.

28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
10/9/2007	10/26/2007	24	→	205	62	364			Pumping
Choke Size	Tbg. Press. Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
300		90	→	205	62	364	302		
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on reverse side)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Ibg. Press. Flwg SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Ibg. Press. Flwg SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on reverse side)

Disposition of Gas (Sold, used for fuel, vented, etc)

Summary of Porous Zones (Include Aquifers).

Show all important zones of porosity and contents thereof; Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				Rustler	345'
				Salado	639'
				Salt	762'
				Lamar	3872'
				Bell Canyon	3914'
				Cherry Canyon	4813'
				Brushy Canyon	6069'

Additional remarks (include plugging procedure)

Circle enclosed attachments:

33. Indicate which items have been attached by placing a check in the appropriate box

- ☒ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

Name (Please print)

Judy A. Barnett

Title

Regulatory Analyst

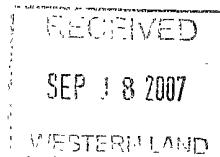
Signature

Date 12/28/2007 (*amended)

18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



McVAY DRILLING CO. INC.
P.O. Box 2450
Hobbs, New Mexico 88241
(505) 397-3311
FAX: 39-DRILL



Well Name and Number: Apache 25 Fed 10H

Location: Sec 25, T22S, R30E, Eddy County, NM

Operator: Devon

Drilling Contractor: McVay Drilling Company

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

Degrees @ Depth		Degrees @ Depth	
1/2	346	85 3/4	7885
1	637	90.75	7952
1	1137	91	8016
3/4	1614	90.25	8112
3/4	2106	90.1	8144
1	2606	91.2	8207
1.3	3080	88.6	8335
1.42	4359	88.7	8367
1.5	4836	88.7	8367
.84	5336	92.2	8621
1.5	6765	91	8716
1.1	7081	89.5	8748
6.1	7144	88.5	8939
.21	7270	90.75	9258
24.7	7300	90.7	92.98
47.2	7460	89.2	9571
61.6	7587	89.9	9798
64 1/4	7619	93.1	9894
1	7683	93.4	10084
71	7713	93	10180
73 1/4	7750	91.5	10339
81 1/4	7841	90	10433

Drilling Contractor: McVay Drilling Company

By: [Signature]

Subscribed and sworn to before me this 31st day of August, 2007

[Signature]

Notary Public

Lea County, New Mexico

My Commission Expires: 8-16-09



McVAY DRILLING CO., INC.

P.O. Box 2450
Hobbs, New Mexico 88241
(505) 397-3311
FAX. 39-DRILL

Well Name and Number: Apache 25 Fed 10H

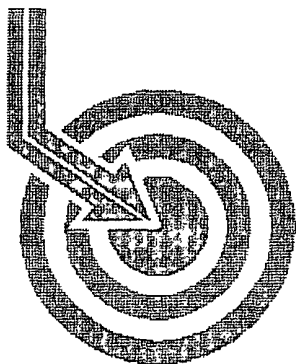
Location: Sec 25, T22S, R30E, Eddy County, NM

Operator: Devon

Drilling Contractor: McVay Drilling Company

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

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
88.5	10815
89.75	10910
90	11133
90.4	11228
91.5	11323



Scientific Drilling

DEVON ENERGY

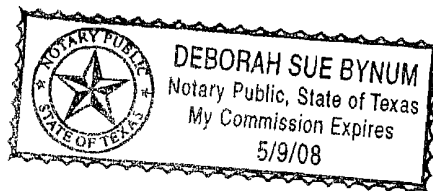
Field: Ingle Wells
Site: Eddy County, NM
Well: Apache 25 Fed #10H
Wellpath: VH - Job #32K0807676
Survey: 08/09/07

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

[Signature] Company Representative

Notorized this date 13th of August, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: DEVON ENERGY
Field: Ingle Wells
Site: Eddy County, NM
Well: Apache 25 Fed #10H
Wellpath: VH - Job #32K0807676

Date: 08/10/2007 **Time:** 10:34:21 **Page:** 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,264.59Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: 08/09/07 **Start Date:** 08/09/2007
KSRG 0'-6790'
Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Gyro **Engineer:** Guebara/Rowe/Lopez
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	359.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.39	282.90	100.00	0.32	0.08	-0.33	0.39	0.34	282.90
200.00	0.39	282.03	200.00	0.97	0.22	-1.00	0.01	1.02	282.61
300.00	0.51	310.61	299.99	1.60	0.58	-1.67	0.25	1.77	289.28
400.00	0.47	262.94	399.99	2.32	0.82	-2.41	0.40	2.55	288.82
500.00	0.56	269.68	499.99	3.22	0.77	-3.30	0.11	3.39	283.09
600.00	0.65	260.80	599.98	4.27	0.67	-4.35	0.13	4.40	278.82
700.00	0.84	263.23	699.97	5.57	0.50	-5.64	0.19	5.66	275.05
800.00	0.81	251.32	799.96	6.99	0.19	-7.03	0.17	7.04	271.51
900.00	0.96	258.48	899.95	8.51	-0.21	-8.52	0.19	8.53	268.60
1000.00	0.91	256.72	999.94	10.13	-0.56	-10.12	0.06	10.13	266.84
1100.00	0.70	252.03	1099.93	11.51	-0.93	-11.47	0.22	11.51	265.37
1200.00	0.86	242.65	1199.92	12.80	-1.46	-12.72	0.20	12.80	263.45
1300.00	0.90	242.61	1299.91	14.22	-2.17	-14.08	0.04	14.25	261.25
1400.00	1.00	237.67	1399.89	15.73	-2.99	-15.51	0.13	15.80	259.08
1500.00	0.78	241.64	1499.88	17.13	-3.78	-16.85	0.22	17.27	257.34
1600.00	0.99	228.88	1599.87	18.46	-4.68	-18.10	0.28	18.70	255.52
1700.00	0.99	235.33	1699.85	19.91	-5.73	-19.46	0.11	20.29	253.59
1800.00	0.82	229.01	1799.84	21.25	-6.69	-20.71	0.20	21.77	252.09
1900.00	0.85	221.76	1899.83	22.38	-7.72	-21.75	0.11	23.08	250.46
2000.00	1.02	223.82	1999.82	23.59	-8.91	-22.86	0.17	24.53	248.70
2100.00	1.07	217.89	2099.80	24.91	-10.29	-24.04	0.12	26.15	246.83
2200.00	0.81	226.21	2199.79	26.10	-11.52	-25.13	0.29	27.64	245.38
2300.00	0.81	233.04	2299.78	27.26	-12.43	-26.20	0.10	29.00	244.62
2400.00	0.97	214.54	2399.77	28.40	-13.55	-27.25	0.32	30.43	243.56
2500.00	0.88	225.93	2499.75	29.55	-14.78	-28.28	0.20	31.91	242.41
2600.00	0.89	211.06	2599.74	30.61	-15.98	-29.23	0.23	33.31	241.34
2700.00	1.30	214.09	2699.72	31.79	-17.58	-30.27	0.41	35.00	239.85
2800.00	1.49	215.36	2799.69	33.36	-19.58	-31.65	0.19	37.22	238.26
2900.00	1.40	210.17	2899.66	34.92	-21.69	-33.02	0.16	39.51	236.69
3000.00	1.38	216.37	2999.63	36.43	-23.72	-34.35	0.15	41.74	235.37
3100.00	1.48	197.08	3099.60	37.72	-25.92	-35.44	0.49	43.91	233.82
3200.00	1.76	188.38	3199.56	38.58	-28.67	-36.04	0.37	46.05	231.50
3300.00	1.56	191.85	3299.52	39.35	-31.52	-36.54	0.22	48.26	229.22
3400.00	1.58	184.11	3399.48	39.98	-34.23	-36.92	0.21	50.35	227.17
3500.00	1.60	179.65	3499.44	40.34	-37.00	-37.01	0.13	52.34	225.01
3600.00	1.87	173.38	3599.40	40.42	-40.02	-36.82	0.33	54.38	222.61
3700.00	1.87	167.74	3699.34	40.20	-43.23	-36.28	0.18	56.44	220.01
3800.00	1.70	170.45	3799.30	39.89	-46.29	-35.69	0.19	58.45	217.63
3900.00	1.76	163.09	3899.25	39.48	-49.22	-35.00	0.23	60.39	215.41
4000.00	1.69	172.04	3999.21	39.11	-52.15	-34.35	0.28	62.44	213.37
4100.00	1.70	169.04	4099.16	38.90	-55.06	-33.86	0.09	64.64	211.59
4200.00	1.48	164.10	4199.12	38.52	-57.77	-33.22	0.26	66.64	209.90
4300.00	1.58	165.79	4299.09	38.07	-60.35	-32.53	0.11	68.56	208.33
4400.00	1.37	162.43	4399.05	37.61	-62.83	-31.83	0.22	70.43	206.87
4500.00	1.14	166.54	4499.03	37.22	-64.94	-31.24	0.25	72.06	205.69
4600.00	1.35	162.57	4599.01	36.83	-67.03	-30.65	0.22	73.70	204.57
4700.00	1.00	161.04	4698.99	36.39	-68.97	-30.02	0.35	75.22	203.52
4800.00	1.12	163.71	4798.97	36.00	-70.74	-29.46	0.13	76.63	202.61



Scientific Drilling International

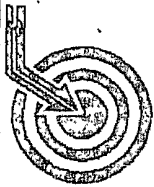
Survey Report

Company: DEVON ENERGY
Field: Ingle Wells
Site: Eddy County, NM
Well: Apache 25 Fed #10H
Wellpath: VH - Job #32K0807676

Date: 08/10/2007 Time: 10:34:21 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,264.59Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

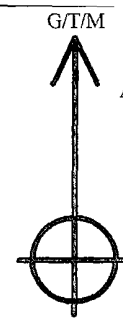
Survey

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	1.37	163.90	4898.94	35.59	-72.82	-28.85	0.25	78.33	201.62
5000.00	1.27	172.38	4998.92	35.33	-75.07	-28.38	0.22	80.25	200.71
5100.00	1.24	164.75	5098.89	35.10	-77.21	-27.94	0.17	82.11	199.90
5200.00	1.14	172.93	5198.87	34.89	-79.24	-27.54	0.20	83.89	199.16
5300.00	1.22	172.65	5298.85	34.82	-81.29	-27.28	0.08	85.74	198.55
5400.00	1.08	170.44	5398.83	34.72	-83.27	-26.99	0.14	87.54	197.96
5500.00	1.01	159.02	5498.81	34.41	-85.03	-26.51	0.22	89.06	197.32
5600.00	1.00	183.80	5598.80	34.31	-86.72	-26.25	0.43	90.61	196.84
5700.00	0.78	179.23	5698.79	34.51	-88.27	-26.30	0.23	92.11	196.59
5800.00	1.05	188.70	5798.77	34.79	-89.86	-26.43	0.31	93.66	196.39
5900.00	1.09	182.68	5898.76	35.14	-91.71	-26.62	0.12	95.49	196.18
6000.00	1.05	185.55	5998.74	35.45	-93.57	-26.75	0.07	97.32	195.95
6100.00	0.85	198.37	6098.73	35.93	-95.19	-27.07	0.29	98.96	195.88
6200.00	1.07	204.01	6198.71	36.68	-96.75	-27.69	0.24	100.63	195.97
6300.00	1.03	197.19	6298.70	37.49	-98.46	-28.33	0.13	102.45	196.05
6400.00	1.04	203.14	6398.68	38.27	-100.15	-28.95	0.11	104.25	196.12
6500.00	1.21	218.26	6498.66	39.43	-101.82	-29.96	0.34	106.13	196.40
6600.00	1.17	210.68	6598.64	40.76	-103.52	-31.14	0.16	108.10	196.74
6700.00	1.22	211.18	6698.62	42.00	-105.31	-32.21	0.05	110.13	197.01
6790.00	1.08	218.33	6788.60	43.15	-106.80	-33.23	0.22	111.85	197.29



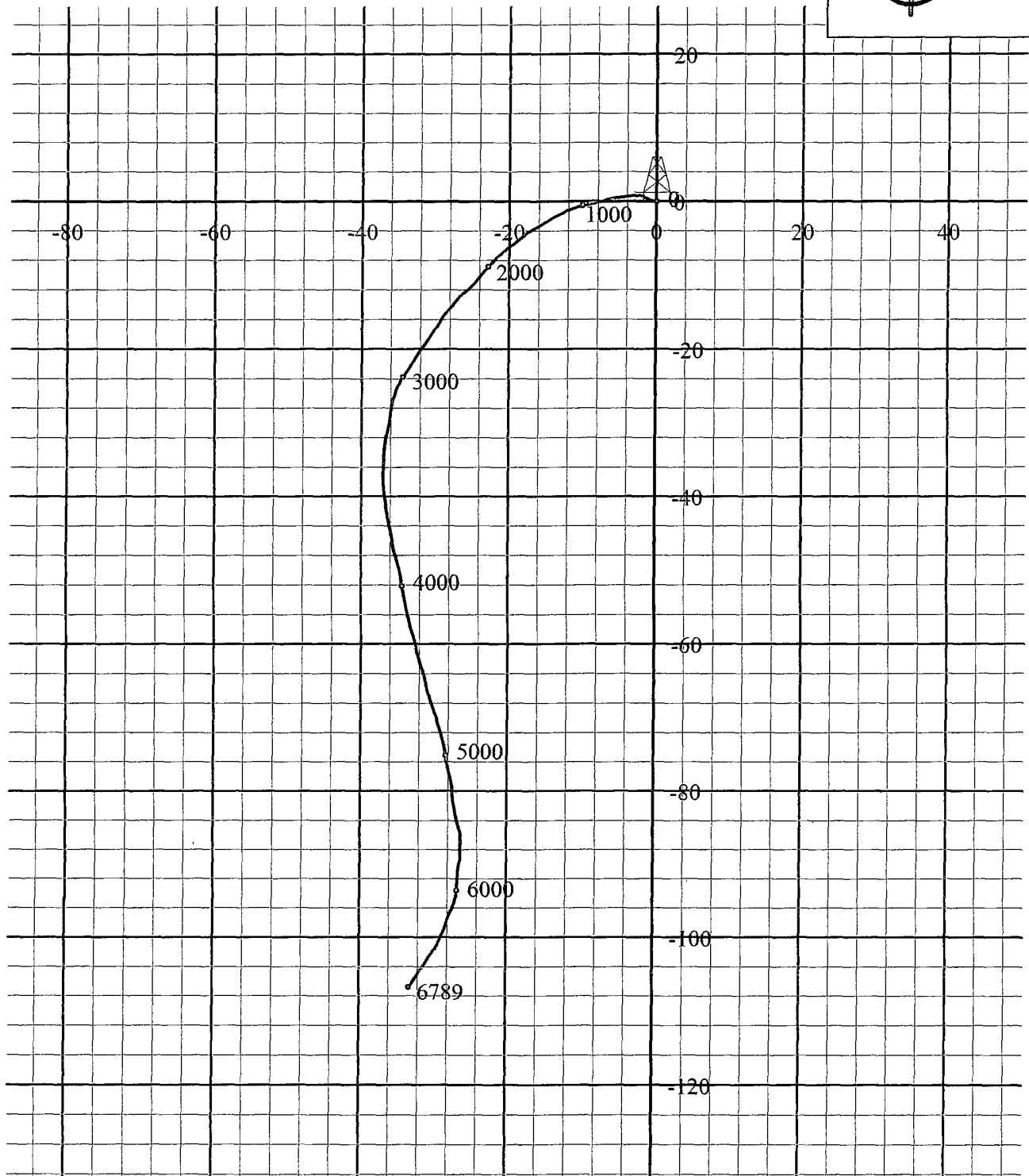
**Scientific
Drilling**

Field: Ingle Wells
Site: Eddy County, NM
Well: Apache 25 Fed #10H
Wellpath: VH - Job #32K0807676
Survey: 08/09/07



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 08/10/2007
Model: igrf2000



South(-)/North(+) [20ft/in]

West(-)/East(+) [20ft/in]



Devon Energy

Well Name: Apache 25 Federal #10H

Survey: Section 25, Township 22 South, Range 30 East

Eddy County, New Mexico

Directional Driller: Calvin Jones

Survey Depth From: 6790' MD

Survey Depth To: 11420' MD



**BAKER
HUGHES**

INTEQ



Actual Wellpath Report

#10H AWP

Page 1 of 9



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

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	0.999937	Report Generated	08/27/07 at 09:43:30
Wellbore last revised	08/09/07	Database/Source file	WA_Midland/#10H_AWB.s

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	697210.85	494370.02	32 21 29.100N	103 49 42.700W
Facility Reference Pt			697210.85	494370.02	32 21 29.100N	103 49 42.700W
Field Reference Pt			697210.85	494370.02	32 21 29.100N	103 49 42.700W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on #10H_SHL (RT) to Facility Vertical Datum	0.00 feet
Horizontal Reference Pt	Slot	Rig on #10H_SHL (RT) to Mean Sea Level	0.00 feet
Vertical Reference Pt	Rig on #10H_SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on #10H_SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	264.59°



Actual Wellpath Report

#10H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

WELLPATH DATA (166 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	
100.00	0.390	282.900	100.00	0.32	0.08	-0.33	0.39	
200.00	0.390	282.030	200.00	0.97	0.22	-1.00	0.01	
300.00	0.510	310.610	299.99	1.60	0.58	-1.67	0.25	
400.00	0.470	262.940	399.99	2.32	0.82	-2.41	0.40	
500.00	0.560	269.680	499.99	3.22	0.77	-3.31	0.11	
600.00	0.650	260.800	599.98	4.27	0.68	-4.36	0.13	
700.00	0.840	263.230	699.97	5.57	0.50	-5.64	0.19	
800.00	0.810	251.320	799.96	6.99	0.19	-7.04	0.17	
900.00	0.960	258.480	899.95	8.51	-0.21	-8.53	0.19	
1000.00	0.910	256.720	999.94	10.13	-0.56	-10.13	0.06	
1100.00	0.700	252.030	1099.93	11.52	-0.93	-11.48	0.22	
1200.00	0.860	242.650	1199.92	12.81	-1.46	-12.73	0.20	
1300.00	0.900	242.610	1299.91	14.23	-2.17	-14.09	0.04	
1400.00	1.000	237.670	1399.89	15.74	-3.00	-15.53	0.13	
1500.00	0.780	241.640	1499.88	17.14	-3.79	-16.86	0.23	
1600.00	0.990	228.880	1599.87	18.47	-4.68	-18.11	0.29	
1700.00	0.990	235.330	1699.85	19.93	-5.74	-19.47	0.11	
1800.00	0.820	229.010	1799.84	21.26	-6.70	-20.72	0.20	
1900.00	0.850	221.760	1899.83	22.39	-7.72	-21.76	0.11	
2000.00	1.020	223.820	1999.82	23.61	-8.92	-22.87	0.17	
2100.00	1.070	217.890	2099.80	24.92	-10.29	-24.06	0.12	
2200.00	0.810	226.210	2199.79	26.12	-11.52	-25.14	0.29	
2300.00	0.810	233.040	2299.78	27.27	-12.43	-26.22	0.10	
2400.00	0.970	214.540	2399.77	28.42	-13.56	-27.26	0.33	



Actual Wellpath Report

#10H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

WELLPATH DATA (166 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
2500.00	0.880	225.930	2499.75	29.56	-14.79	-28.29	0.20	
2600.00	0.890	211.060	2599.74	30.62	-15.99	-29.25	0.23	
2700.00	1.300	214.090	2699.72	31.81	-17.59	-30.28	0.41	
2800.00	1.490	215.360	2799.69	33.38	-19.59	-31.67	0.19	
2900.00	1.400	210.170	2899.66	34.94	-21.71	-33.04	0.16	
3000.00	1.380	216.370	2999.63	36.45	-23.73	-34.36	0.15	
3100.00	1.480	197.080	3099.60	37.75	-25.94	-35.46	0.49	
3200.00	1.760	188.380	3199.56	38.61	-28.69	-36.06	0.37	
3300.00	1.560	191.850	3299.52	39.38	-31.54	-36.56	0.22	
3400.00	1.580	184.110	3399.48	40.01	-34.25	-36.94	0.21	
3500.00	1.600	179.650	3499.44	40.36	-37.02	-37.03	0.13	
3600.00	1.870	173.380	3599.40	40.45	-40.04	-36.84	0.33	
3700.00	1.870	167.740	3699.34	40.22	-43.25	-36.30	0.18	
3800.00	1.700	170.450	3799.30	39.92	-46.31	-35.71	0.19	
3900.00	1.760	163.090	3899.25	39.51	-49.24	-35.02	0.23	
4000.00	1.690	172.040	3999.20	39.13	-52.17	-34.37	0.28	
4100.00	1.700	169.040	4099.16	38.92	-55.09	-33.88	0.09	
4200.00	1.480	164.100	4199.12	38.55	-57.79	-33.24	0.26	
4300.00	1.580	165.790	4299.09	38.10	-60.37	-32.55	0.11	
4400.00	1.370	162.430	4399.05	37.64	-62.84	-31.85	0.23	
4500.00	1.140	166.540	4499.03	37.25	-64.95	-31.26	0.25	
4600.00	1.350	162.570	4599.01	36.86	-67.04	-30.68	0.23	
4700.00	1.000	161.040	4698.98	36.41	-68.99	-30.04	0.35	
4800.00	1.120	163.710	4798.97	36.02	-70.75	-29.48	0.13	
4900.00	1.370	163.900	4898.94	35.62	-72.84	-28.88	0.25	



Actual Wellpath Report

#10H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

WELLPATH DATA (166 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
5000.00	1.270	172.380	4998.92	35.35	-75.09	-28.40	0.22	
5100.00	1.240	164.750	5098.89	35.13	-77.23	-27.97	0.17	
5200.00	1.140	172.930	5198.87	34.91	-79.26	-27.56	0.20	
5300.00	1.220	172.650	5298.85	34.85	-81.30	-27.30	0.08	
5400.00	1.080	170.440	5398.83	34.74	-83.29	-27.01	0.15	
5500.00	1.010	159.020	5498.81	34.44	-85.04	-26.54	0.22	
5600.00	1.000	183.800	5598.80	34.34	-86.73	-26.28	0.43	
5700.00	0.780	179.230	5698.79	34.54	-88.29	-26.33	0.23	
5800.00	1.050	188.700	5798.77	34.81	-89.87	-26.46	0.31	
5900.00	1.090	182.680	5898.76	35.17	-91.73	-26.64	0.12	
6000.00	1.050	185.550	5998.74	35.48	-93.59	-26.77	0.07	
6100.00	0.850	198.370	6098.73	35.95	-95.21	-27.09	0.29	
6200.00	1.070	204.010	6198.71	36.71	-96.76	-27.71	0.24	
6300.00	1.030	197.190	6298.69	37.52	-98.47	-28.35	0.13	
6400.00	1.040	203.140	6398.68	38.29	-100.17	-28.98	0.11	
6500.00	1.210	218.260	6498.66	39.46	-101.83	-29.99	0.34	
6600.00	1.170	210.680	6598.64	40.79	-103.54	-31.16	0.16	
6700.00	1.220	211.180	6698.62	42.02	-105.33	-32.23	0.05	
6790.00	1.080	218.330	6788.60	43.18	-106.81	-33.25	0.22	
7018.00	1.300	218.200	7016.55	46.45	-110.53	-36.19	0.10	
7055.00	1.300	223.800	7053.54	47.06	-111.16	-36.74	0.34	
7081.00	1.100	220.600	7079.53	47.46	-111.56	-37.10	0.81	
7113.00	3.000	227.000	7111.51	48.35	-112.37	-37.92	5.97	
7144.00	6.100	228.000	7142.41	50.31	-114.02	-39.73	10.00	
7175.00	9.700	231.900	7173.11	53.83	-116.74	-43.01	11.73	



Actual Wellpath Report

#10H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

WELLPATH DATA (166 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
7207.00	13.500	234.700	7204.45	59.34	-120.56	-48.19	12.00	
7239.00	17.300	236.400	7235.30	66.78	-125.36	-55.20	11.96	
7270.00	21.000	238.200	7264.58	75.82	-130.84	-63.76	12.09	
7300.00	24.700	239.600	7292.22	86.32	-136.84	-73.74	12.46	
7332.00	28.900	241.400	7320.78	99.49	-143.93	-86.30	13.37	
7364.00	33.400	242.800	7348.15	114.79	-151.66	-100.93	14.24	
7396.00	38.100	243.500	7374.12	132.19	-160.10	-117.61	14.74	
7428.00	42.600	245.200	7398.50	151.63	-169.05	-136.29	14.48	
7460.00	47.200	247.000	7421.16	173.05	-178.19	-156.94	14.91	
7492.00	50.900	247.300	7442.13	196.10	-187.57	-179.21	11.58	
7524.00	54.300	246.600	7461.56	220.32	-197.52	-202.59	10.77	
7556.00	58.100	245.900	7479.36	245.56	-208.23	-226.93	12.01	
7587.00	61.600	244.500	7494.93	270.84	-219.48	-251.25	11.95	
7619.00	64.500	244.900	7509.43	297.66	-231.67	-277.04	9.13	
7651.00	68.400	245.200	7522.22	325.30	-244.04	-303.63	12.22	
7683.00	70.900	245.200	7533.34	353.60	-256.62	-330.87	7.81	
7713.00	71.100	244.200	7543.11	380.27	-268.74	-356.51	3.22	
7745.00	73.300	243.800	7552.89	408.79	-282.10	-383.89	6.98	
7777.00	76.900	244.200	7561.12	437.74	-295.65	-411.68	11.31	
7809.00	80.300	244.500	7567.44	467.16	-309.23	-439.96	10.66	
7841.00	81.300	244.500	7572.56	496.83	-322.83	-468.47	3.12	
7872.00	84.200	244.900	7576.47	525.74	-335.97	-496.27	9.44	
7885.00	85.700	245.900	7577.61	537.97	-341.36	-508.04	13.85	
7920.00	90.300	245.000	7578.84	571.01	-355.89	-539.85	13.39	
7952.00	90.700	244.200	7578.56	601.08	-369.61	-568.75	2.79	



Actual Wellpath Report

#10H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

WELLPATH DATA (166 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
7984.00	90.700	245.200	7578.17	631.17	-383.29	-597.68	3.12	
8016.00	90.900	245.900	7577.72	661.42	-396.53	-626.81	2.27	
8048.00	90.700	247.000	7577.27	691.82	-409.32	-656.14	3.49	
8080.00	90.900	248.000	7576.83	722.41	-421.56	-685.70	3.19	
8112.00	90.300	248.800	7576.49	753.14	-433.34	-715.45	3.12	
8144.00	90.100	249.800	7576.38	784.00	-444.65	-745.39	3.19	
8176.00	90.700	251.200	7576.15	815.04	-455.33	-775.55	4.76	
8207.00	91.200	252.600	7575.64	845.28	-464.96	-805.01	4.79	
8239.00	90.800	254.700	7575.08	876.69	-473.97	-835.71	6.68	
8271.00	90.500	256.800	7574.72	908.31	-481.84	-866.72	6.63	
8303.00	89.800	258.200	7574.64	940.06	-488.77	-897.96	4.89	
8335.00	88.600	260.000	7575.08	971.91	-494.82	-929.38	6.76	
8367.00	88.700	261.100	7575.84	1003.82	-500.07	-960.94	3.45	
8399.00	89.300	262.800	7576.39	1035.78	-504.55	-992.61	5.63	
8430.00	90.900	266.000	7576.34	1066.77	-507.58	-1023.46	11.54	
8462.00	92.000	268.100	7575.53	1098.73	-509.22	-1055.41	7.41	
8494.00	92.900	269.800	7574.16	1130.61	-509.81	-1087.37	6.01	
8526.00	93.500	271.600	7572.38	1162.38	-509.42	-1119.32	5.92	
8557.00	93.100	273.400	7570.59	1193.03	-508.07	-1150.23	5.94	
8589.00	92.900	276.500	7568.92	1224.46	-505.31	-1182.07	9.69	
8621.00	92.200	278.300	7567.49	1255.63	-501.19	-1213.77	6.03	
8653.00	92.500	280.400	7566.18	1286.55	-496.00	-1245.31	6.62	
8685.00	92.200	282.100	7564.87	1317.18	-489.76	-1276.67	5.39	
8716.00	91.000	281.800	7564.00	1346.75	-483.35	-1306.99	3.99	
8748.00	89.400	280.700	7563.89	1377.41	-477.10	-1338.37	6.07	



Actual Wellpath Report

#10H AWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

WELLPATH DATA (166 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
8780.00	88.600	280.000	7564.45	1408.20	-471.36	-1369.85	3.32	
8811.00	87.800	278.300	7565.42	1438.19	-466.43	-1400.43	6.06	
8843.00	86.900	276.200	7566.90	1469.37	-462.40	-1432.14	7.13	
8875.00	86.700	275.100	7568.69	1500.73	-459.25	-1463.94	3.49	
8907.00	87.600	274.400	7570.28	1532.19	-456.60	-1495.79	3.56	
8939.00	88.500	273.700	7571.37	1563.73	-454.34	-1527.69	3.56	
8971.00	88.900	273.600	7572.10	1595.32	-452.31	-1559.62	1.29	
9003.00	89.200	273.400	7572.63	1626.93	-450.35	-1591.55	1.13	
9035.00	89.700	272.700	7572.93	1658.58	-448.65	-1623.50	2.69	
9067.00	89.900	272.000	7573.04	1690.29	-447.34	-1655.48	2.28	
9098.00	90.300	272.300	7572.99	1721.02	-446.18	-1686.45	1.61	
9130.00	90.700	272.300	7572.71	1752.73	-444.89	-1718.43	1.25	
9162.00	90.800	272.300	7572.29	1784.44	-443.61	-1750.40	0.31	
9194.00	91.200	272.000	7571.73	1816.15	-442.41	-1782.37	1.56	
9226.00	91.500	271.600	7570.98	1847.89	-441.40	-1814.35	1.56	
9258.00	90.800	271.600	7570.34	1879.65	-440.51	-1846.33	2.19	
9289.00	90.700	270.900	7569.93	1910.43	-439.83	-1877.32	2.28	
9321.00	91.500	271.600	7569.32	1942.21	-439.14	-1909.30	3.32	
9417.00	90.200	271.300	7567.89	2037.51	-436.71	-2005.26	1.39	
9511.00	89.200	271.600	7568.39	2130.84	-434.33	-2099.23	1.11	
9607.00	90.000	271.600	7569.06	2226.11	-431.65	-2195.19	0.83	
9703.00	90.600	272.000	7568.55	2321.35	-428.63	-2291.14	0.75	
9798.00	89.900	271.300	7568.14	2415.63	-425.90	-2386.10	1.04	
9894.00	93.100	272.300	7565.63	2510.82	-422.88	-2482.00	3.49	
9989.00	91.500	273.400	7561.81	2604.76	-418.16	-2576.80	2.04	



Actual Wellpath Report

#10H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

WELLPATH DATA (166 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
10084.00	93.500	273.400	7557.67	2698.54	-412.54	-2671.54	2.11	
10180.00	93.000	273.700	7552.23	2793.22	-406.60	-2767.20	0.61	
10275.00	92.800	273.700	7547.42	2886.90	-400.48	-2861.88	0.21	
10339.00	91.600	272.700	7544.96	2950.13	-396.91	-2925.73	2.44	
10433.00	91.900	273.700	7542.09	3043.02	-391.66	-3019.54	1.11	
10529.00	90.600	272.700	7540.00	3137.91	-386.31	-3115.37	1.71	
10625.00	91.200	272.300	7538.49	3232.99	-382.12	-3211.26	0.75	
10720.00	90.200	271.600	7537.33	3327.20	-378.89	-3306.20	1.28	
10815.00	88.400	270.200	7538.49	3421.61	-377.40	-3401.17	2.40	
10910.00	89.700	270.200	7540.07	3516.14	-377.06	-3496.16	1.37	
10943.00	89.300	269.800	7540.35	3548.99	-377.06	-3529.16	1.71	
11038.00	89.800	268.800	7541.10	3643.66	-378.22	-3624.15	1.18	
11133.00	90.100	268.400	7541.18	3738.43	-380.55	-3719.12	0.53	
11228.00	90.400	269.100	7540.77	3833.18	-382.62	-3814.09	0.80	
11323.00	91.500	269.100	7539.19	3927.87	-384.11	-3909.07	1.16	
11420.00	92.500	269.100	7535.81	4024.51	-385.63	-4005.99	1.03	Proj. to Bit



Actual Wellpath Report

#10H AWP
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	#10H_SHL
Area	Eddy County, NM	Well	Apache #10H
Field	Section 25 T22S R30E (Apache)	Wellbore	#10H AWB
Facility	Apache 25		

TARGETS

Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
#2 SHL		0.00	-150.00	-400.00	696810.88	494220.03	32 21 27.634N	103 49 47.371W	circle
#10H BHL		7555.00	-382.63	-4038.49	693172.62	493987.42	32 21 25.500N	103 50 29.800W	point

WELLPATH COMPOSITION Ref Wellbore: #10H AWB Ref Wellpath: #10H AWP

Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6790.00	Generic gyro - northseeking (Standard)	Gyro	#10H AWB
6790.00	11420.00	NaviTrak (Standard)	MWD	#10H AWB



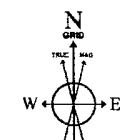
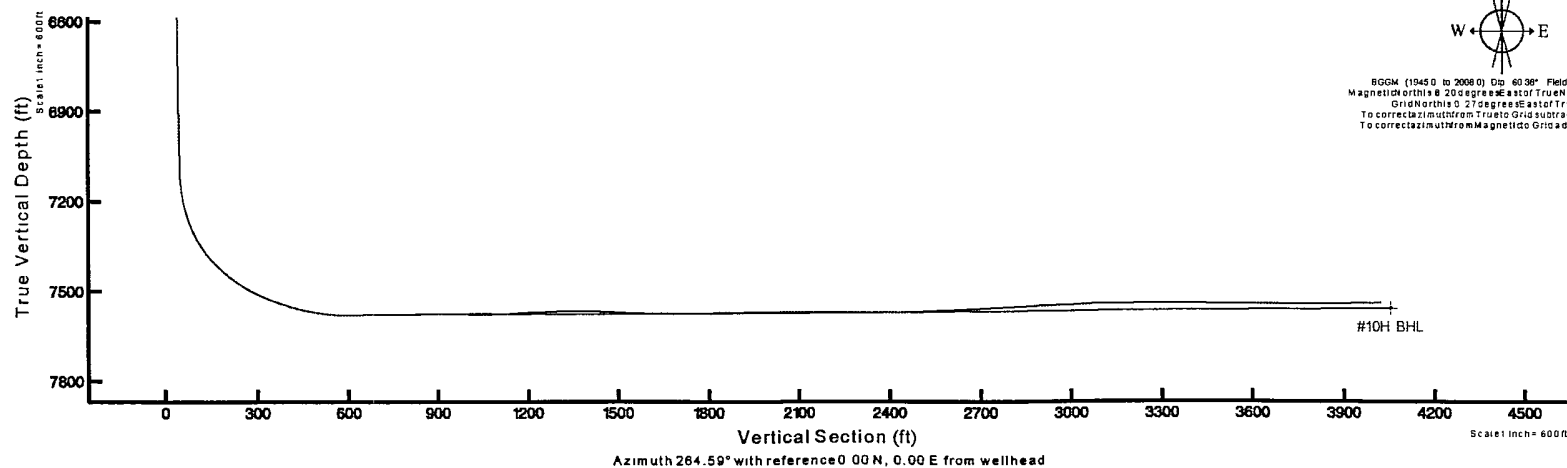
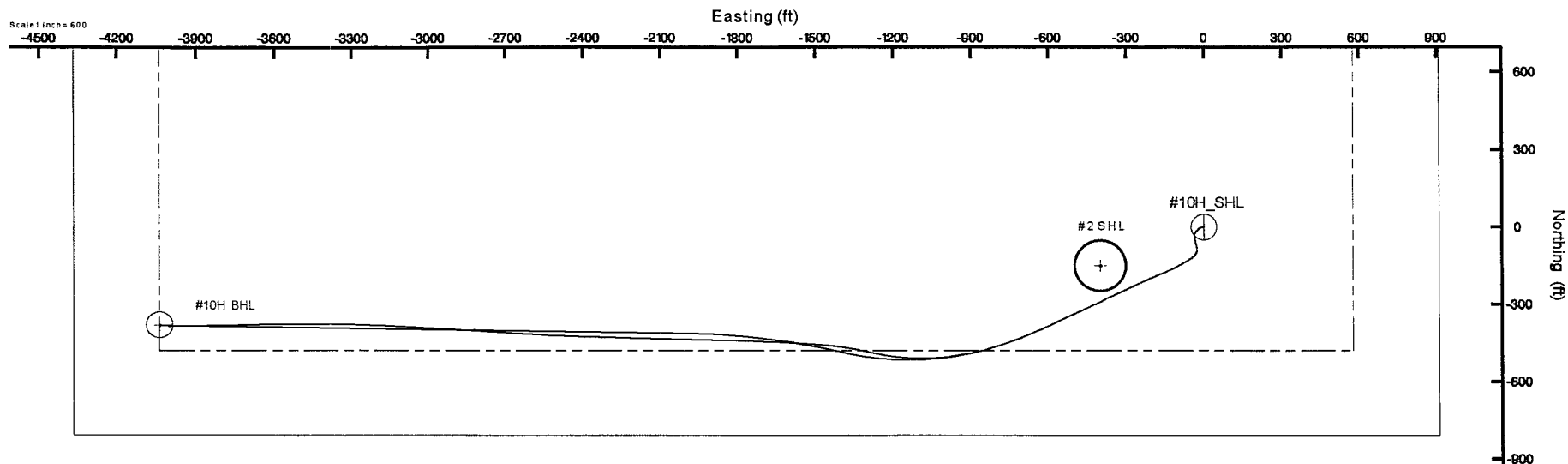
Devon Energy

Location Eddy County, NM
Field Section 25 T22S R30E (Apache)
Facility Apache 25

Slot #10H_SHL
Well Apache #10H
Wellbore #10H_AWB

**BAKER
HUGHES**
INTEQ

File reference wellbore is #10H_AWB	
True vertical depth, as referenced, to Rig on #10H_SHL (RT)	Old System: 80000 / The New Metric Scale Please: Enter Zero (000), US feet
Measured depth, as referenced, to Rig on #10H_SHL (RT)	North Reference: Grid North
Rig on #10H_SHL (RT) to Mean Sea Level (ft)	Scale: True vertical
Mean Sea Level to Mean Sea Level (ft)	Depth: as is feet
Coordinates: as is true referenced, to Well	Created by: gsm/0000 on 02/22/2007



RGGM (10450 to 20080) Dip: 60.36° Field: 43127.4 nT
Magnetic North is 20 degrees East of True North (at 08/08/07)
Grid North is 0.27 degrees East of True North
To correct azimuth from True to Grid subtract 0.27 degrees
To correct azimuth from Magnetic to Grid add 7.93 degrees