DDH - 30 5381

	45350	A (hor. dis.) dh from 550	C (md)	B (TVD)	Elevation
4970 51.5	proj 25' S	14	572	18	4952
5117 47°	pp	111 dh from 350	513	119	4998
	proj 25' N	76	461	81	5036

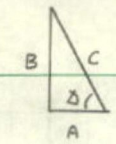
	45300	dh from 350			(5117)
47°	proj 25' S	76	461	81	5036
	pp	39	407	42	5075
	proj 25' N	4	355	3	5114

	45200		dh from 125		(5287)
49°	proj 25' S	74	236		5202
	pp	34	177 dh from Collar	39	5248 (5381)
	proj 25' N	77	119		5291

DDH-30

1,126,250	dh from collar	46°		(5381)
proj 50' E	81 dh from 125	123 49°	93	5288 (5287)
pp	65	224	75	5212
proj 50' W	129	322	148	5139

D81-31



$\frac{A}{\cos\phi} = C$ (md)

$A \tan\phi = B$

Collar	N75 E	-45°	Collar Elevation 5380
100	N64.5 E	-45°	
300	"	-47.5°	
500'	"	-46.5°	
700	"	-46°	

			A (hori.)	B (tvd)	Elevation
0-50 (50')	N75 E	-45	35	35	5345
50-200 (150')	N64.5E	-45	106	106	5239
200-400 (200')	"	-47.5	135	147	5092
400-600 (200')	"	-46.5	138	145	4947
600-712 (112')	"	-46°	78	80	4867

Tgtp	532'	A (hori.)	91' from 400' tick	
		B (tvd)	96	4996'

45350	A (horizontal) dist.	C (measured) depth	B (tvd)	Elevation
Collar	0	0	0	5380
	dh from 50' 46°			(5345)
PP	10	64	10	5335
proj 25's	66	143	66	5279

45400				
proj 25'N	66	143	66	5279
	dh from 200 47.5			(5239)
PP	20	230	22	5217
proj 25's	75	311	82	5157

45450				
proj 25'N	75	311	82	5157
PP	@400' tick 46.5	400		5092
proj 25's	58	484	89	5030

45500				
proj 25'N	58	484	89	5030
PP	114	566	120	4972
	dh from 600 46°			(4947)
proj 25's	32	646	33	4914

45550				
proj 25'N	32	646	33	4914
TD	78	712	81	4866

				A.	B.	ELEV
DDH-32	5325.7 (1700')					
①	0-65 (65)	N 65E	-60°	32.5	56.3	5269.4
②	65-230 (165)	N 65E	-59.5°	83.7	142.2	5127.2
s.p.	130	"	"	(33.0)	(56.0)	(5213.4)
③	230-430 (200)	N 48E	58.5	104.5	170.5	4956.7
s.p.	330	"	"	(52.2)	(85.3)	(5041.9)
④	430-630 (200)	N 43.5E	58.5	104.5	170.5	4786.2
s.p.	530	"	"	(52.2)	(85.3)	(4871.4)
⑤	630-815 (185)	N 44E	59.5	93.9	159.4	4626.8
s.p.	730	"	"	(50.8)	(86.2)	(4700.0)
	815-1000 (185)	N 40E	-58	98.0	156.9	4469.9
s.p.	900	"	"	(45)	(72.1)	(4554.7)
	1000-1200 (200)	N 44E	-59°	103.0	171.4	4298.4
s.p.	1100	"	"	(51.5)	(85.7)	(4384.2)
	1200-1400 (200)	N 45E	-60	100	173.2	4125.2
s.p.	1300	"	"	(50)	(86.6)	(4211.8)
	1400-1600	N 47E	-60	100	173.2	3952.0
	1600-1700	N 47E	-61	48.5	87.5	3864.6

dh from 815	45200 58°	C	B	(4627)
45	proj 25 S	900'	4555	
12	pp	837	4608	
dh from 630	59.5			(4786)
72	proj 25 N	771	4662	

		(DHD) C	(TVD) B	Elev
	45100 N			
⑤ 84'	proj 25's	637.9	6.8	4779.4
④ 72.8	pp	569.3	118.8	4837.9
④ 39	proj 25'N	504.6	63.6	4893.1

DDH-32

downhole from 1600	45500	C (md)	Elevation	
49	proj 25' S	1701	3864	
32 up hole from 1600	pp	1666	3894	
6'	proj 25' N	1588	3962	

	45400	C(md)	B(TVD)	Elevation
downhole from 1400 4125				
21	proj 25' S	1442	36	~~3916~~ 4089
downhole from 1200' 4298				
84	pp	1368	145	~~3980~~ 4153
49	proj 25' N	1298	85	~~4040~~ 4213

downhole from 60° 1400	45450			
4125 21	proj 25' N	1442	36	~~3916~~ 4089
58	pp	1516	100	4025
95	proj 25' S	1590	164	3961

dh from 1000 59	45250			
4470 13'	proj 25' S	1025	22	4448
dh from 815 58				54
4627 78	pp	962	125	4502
46	proj 25' N	902	74	4553

dh from 630 59.5	45150 5326			
3	proj 25' N	636	5	4781
4786 37	pp	703	63	~~4749~~ 4723
73	proj 25' S	774	124	~~4715~~ 4662

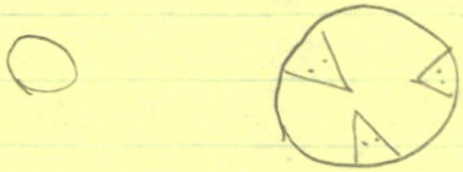
45050	A(surf.) 58.5 dh from 230	C (md)	B (TVD)	Elevation
proj 25' S	72	363	117	5010
pp 58.5	dh from 430 4	438	6	4951
proj 25' N	39	505	64	4893

DDH-32

		A	C(md)	B(TVD)	Elevation
	44950	dh from 65			
59.5	proj 25'S	83	228	140	5129
5269	pp	21	106	36	5233
	Collar proj 23'N	—	—	—	5326
	45000				
5127	proj 25'S	73	370	119	5008
58.5		dh from 230			
	pp	35	297	57	5070
5269 59.5		dh from 65			
	proj 25'N	79	221	134	5135
	45350				
60°		dh from 1200			
4298	proj 25'S	51	1302	88	4210
	pp	14	1228	24	4274
59		dh from 1000			
4470	proj 25'N	83'	1161	138	4332
	45300				
		dh from 1000			(4470)
59°	proj 25'S	82	1161		4332
	pp	47	1091	78	4392
	proj 25'N	13	1025		4448

DDH-32

1,125,250	dh from 430	58.5°		(4957)
proj 50' E	89	600	145	4812
	dh from 630	59.5°		(4786)
pp	57	742	97	4689
	dh from 815	58°		(4627)
proj 50' W	36	883	58	4569



D81-33 (DDH-33)

(5387) 746093 N 1125935 E TD = 1162'

Collar	S75°E	-45°	5387
230' (115)	S85°E	-44.5°	
430' (330)	↓	-48.°	
630' (530)	S88.5°E	-48°	5241
830' (730)	N88°E	-49°	66
1000' (915)	N86°E	-50.5°	
1150' (1075)	N84.5E	-52°	
1162' TD			

C(md)			A(hd.)	B(TVD)	Elevation (5387)
0-115	S75°E	45°	81	81	5306
115-330 (215)	S85°E	44.5°	153	151	5155
330-530 (200)	S85 E	48°	134	149	5006
530-730 (200)	S88.5 E	48°	134	149	4857
730-915 (185)	N88E	49°	121	140	4717
915-1075 (160)	N86E	50.5°	102	123	4594
1075-1162 (87)	N84.5E	52°	54	69	4525

746100	A(hd) dh from Collar	C(md)	B(TVD)	Elevation
Collar	0	0	0	5387
proj 25'N	69	98	69	5318
476050				
proj 25' S	69 dh from 330 48°	98	69	5318 (5155)
pp	104 dh from 915 50.5°	485	115	5039 (4717)
pp	12'	934	15	4702
TD	54'	1162		4525

1,126,750	dh from 1075	C(md) 52°	B(TVD)	Elevation (4594)
proj 50' E	44	1146	56	4538
TD	54	1162	69	4525

DDH-33

1,126,250	dh from 330	118°		(5155)
proj 25' E	35	382	39	5116
pp	85	457	94	5061
	dh from 530			(5006)
proj 25' W	1	531	1	5005

DDH-34	5314.4 (790)		A	B
0-85	N 87° E	-82	11.8	5230.2
170			11.8	5146.1
85-270	N 86.5 E	-82	25.7	5047
370			15.6	4948.3
270-470	N 74 E	-81	31.3	4849.5
570			14.8	4750.6
470-670	N 69 E	-81.5	29.6	4651.7
770			14.8	4552.8
670-870	N 67 E	-81.5	29.6	4453.9
870-970	N 66 E	-82	13.9	4354.9

		B	C
744600N	proj 25'N	4832.8	486.9
	PP.	4389.9	934.7
	T.D. proj 25's	4354.9	970'

		B	C
744550	Collar proj 14' S	5313.4	0
	proj 25'S	4832.8	486.9

proj 25'S

PP

proj 25'N

D81-35

DDH-35 5432.4 (1190')			A	B	Elev
0 - 100 (100)	N41E	-43	73.1	68.2	5364.2
100 - 305 (205)	N41E	-43	149.9	139.8	5224.4
Sp. (200)	"	"	(73.1)	(68.2)	(5296.0)
305 - 505 (200)	N41E	-43	146.3	(136.4)	5088.0
Sp. 410	"	"	(76.8)	(71.6)	(5152.8)
505 - 700 (195)	N31E	-45	137.9	137.9	4950.1
Sp. 600	"	"	(67.2)	(67.2)	(5020.8)
700 - 900 (200)	N31E	-47	136.4	146.3	4803.8
Sp. 800	"	"	(68.2)	(73.1)	(4877)
900 - 1090 (190)	N31E	-47	129.6	139.0	4664.9
Sp. 1000	"	"	(68.2)	(73.1)	(4730.7)
1090 - 1190 (100)	N33E	-48	66.97	74.3	4590.6
Sp. 1180	"	"	(60.2)	(66.9)	(4598.0)

43	dh from 305 from collar ~~10.5~~	744900N	proj 25's	~~138.8~~ 319	9.3 ~~99.7~~	(5224) ~~5337.7~~ 5215
43	dh from 100 ~~32~~ 127		pp	~~91.6~~ 274	118 ~~62.5~~	(5364) ~~5369.9~~ 5246
	~~35~~ 93		proj 25'N	~~49.9~~ 227	87 ~~32.6~~	5277 ~~5399.8~~
dh from 305 from collar 43°	144	~~277.5~~	745000N	proj 25's	~~319.3~~ 502	134 ~~217.7~~ 5090 ~~5214.7~~
	110	~~200.5~~		pp	~~274.1~~ 455	103 ~~186.97~~ 5121 ~~5245.4~~
	78	~~142.2~~		proj 25'N	~~228.6~~ 412	73 ~~155.4~~ 5151 ~~5276.5~~
dh from 505	114	114	745100N	proj 25's	666.2	114 4974
	84	84		pp	623.8	84 5004.
	56	55.8		proj 25N	583.9	55.8 5032.2

~~4450~~ dh from 700

47° 93	745,200 N	proj 25's	836.4	99.7	4850.4
63		pp	792.4	67.60	4882.5
34.5		proj 25'N	750.6	36.99	4913.1

	745,300 N	dh from 900	d	(4804)
47°	proj 25'S	73	1007	4726
	pp	43	963	4758
	proj 25'N	14	922	4788

DDH-35 (4665)

downhole from 1090	745400	C (md)	B (vue)	Elevation
48 61	proj 25' S	1181	68	4597
31	pp	1136	34	4631
2'	proj 25' N	1093	2.	4663

	45450			
47 48 Bt1 from 1090	proj N	1190		4591
60	proj 25' N	1180	67	4598

	45250			
from 900 47 4904 15	proj 25' S	922	16	4788
from 700 47 121 4950	pp	877	129	4821
93	proj 25' N	836	100	4850

	45050			
dh from 505 45° 5088 56	proj 25' S	584	56	5032
25	pp	540	25	5063
dh from 305 43° 5224 144	proj 25' N	501	134	5090

	44950				
5224		dh from ~~449~~ 305 42°			
	proj 25' S	77	105/410	72	5152
	pp	43	59/364	40	5184
	proj 25 N	10	14/319	9	5215

	45350				
48° 4665		dh from 1090			
	proj 25' S	2	1093	2	4663
47° 4904	pp	dh from 900 102	1050	109	4695
	proj 25' N	73	1007	78	4726

744850

		dh from 100			(5364)
	proj 25'S	93	227	87	5277
43	pp	58	179	54	5310
5364	proj 25'N	27	137	25	5339

744750

45°	proj 25'S	35	48	33	5398
	pp	1	1	1	5431
	collar proj 1'N				5432

745150

		dh from 700				
47 ~~5047~~ 4950	proj 25'S	35	751	37	4913	
	pp	4	706	4	4946	
		dh from 50~~5~~				
45 5088	proj 25'N	114	6606	114	4974	

744800

		dh from collar			(5432)
43°	proj 25'N	35	48	33	5399
	pp	67	92	62	5369
43°		dh from 100			(5364)
	proj 25'S	28	138	26	5338

DD4-35

1,126,750	dh from 305	C(md) 43°	B(TVD)	Elevation (5224)
proj 50' E	35	353	33	5191
pp	110 dh from 305	455 45°	103	5121 (5088)
proj 50' W	52	578	52	5036

DDH - 36 (5713.4)			A	B
0 - 123.5	N 78 E	-65	52.2	5201.5
247			52.2	5089.5
(223.5) 123.5 - 347	N 78E	-65	94.5	4998.9
447			40.7	4907.6
347 - 473.5	N 75E	-66	51.5	4883.3
500			10.8	4859.1
473.5 - 600	N 78E	-66	51.5	4767.7
700			39.1	4676.4
600 - 800	N 79E	-67	78.1	4583.6
900			39.1	4491.6
800 - 1000	N 80E	-67	78.1	4400
1100			39.1	4307.5
1000 - 1200	N 77E	-67	78.1	4215.4
1300			35.8	4122.1
1200 - 1420	N 81 E	-69	78.8	4010.0
1540			45.0	3898.7
1420 - 1640	N 73E	-68	82.4	3806.0
1640 - 1740	N 74E	-68	37.5	3713.3

744600 N	proj 25'N	5195	130.6
	PP.	4947.	403.5
	proj 25'S	4690 ~~4683~~.	684.5

4000
3713
287

744700 N	proj 25'N	4048.7	1378.6
	PP.	3814.5	1630.9
proj 11S	T.D. (1740)	3713.3	1740

PP. 347+23
600+33