

DISTRICT I
1426 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

SEP 28 2007
☐ AMENDED REPORT
OCD-ARTESIA

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30 05 35833		Pool Code	Pool Name WILD CAT ; WOLFCAMP
Property Code	Property Name DANCER "16" STATE		Well Number 1
OGRID No. 229137	Operator Name C.O.G. OPERATING L.L.C.		Elevation 3678'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	16 S	29 E		660'	SOUTH	330	EAST	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
M	16	16 S	29 E		330'	SOUTH	330	WEST	EDDY
Dedicated Acres 160		Joint or Infill	Consolidation Code	Order No.					

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

BOTTOM HOLE LOCATION LAT.: N 32°54'55.19" LONG.: W104°05'14.59" SPC- N.: 696819.332 E.: 616818.947 (NAD-83)		SURFACE LOCATION LAT.: N 32°54'58.48" LONG.: W104°04'20.43" SPC- N.: 697163.239 E.: 621434.823 (NAD-83)	
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Signature: <u>Phyllis A. Edwards</u> Date: <u>9/1/07</u> Printed Name: <u>PHYLLIS A. EDWARDS</u>			
SURVEYOR CERTIFICATION <i>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.</i> Date Surveyed: <u>AUGUST 24, 2007</u> Signature: <u>Gary L. Jones</u> Professional Surveyor: <u>7977</u> Certificate No. <u>Gary L. Jones 7977</u> BASIN SURVEYS			

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC.				Date: 09/20/2007		Time: 15.26 29		Page: 1	
Field: Dancer 16 State #1				Co-ordinate(NE) Reference Site: Dancer 16 State #1, Grid North					
Site: Dancer 16 State #1				Vertical (TVD) Reference: SITE 3699.0					
Well: Dancer 16 State #1				Section (VS) Reference: Well (0.00N,0.00E,265.74Azi)					
Wellpath: OH				Plan:		Plan #1 9-20-07			

Field: Dancer 16 State #1									
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Map System: US State Plane Coordinate System 1983					Map Zone: New Mexico, Eastern Zone				
Geo Datum: GRS 1980					Coordinate System: Site Centre				
Sys Datum: Mean Sea Level					Geomagnetic Model: mgrf2005				

Site: Dancer 16 State #1									
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Site Position:		Northing: 697163.24 ft		Latitude: 32 54 58.465 N	
From: Map		Easting: 621434.82 ft		Longitude: 104 4 20.353 W	
Position Uncertainty: 0.00 ft				North Reference: Grid	
Ground Level: 3678.00 ft				Grid Convergence: 0.14 deg	

Well: Dancer 16 State #1					Slot Name:				
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Well Position: +N/-S 0.00 ft		Northing: 697163.24 ft		Latitude: 32 54 58.465 N	
+E/-W 0.00 ft		Easting: 621434.82 ft		Longitude: 104 4 20.353 W	
Position Uncertainty: 0.00 ft					

Wellpath: OH				Drilled From: Surface	
Current Datum: SITE		Height: 3699.00 ft		Tie-on Depth: 0.00 ft	
Magnetic Data: 09/20/2007				Above System Datum: Mean Sea Level	
Field Strength: 49399 nT				Declination: 8.31 deg	
Vertical Section: Depth From (TVD)		+N/-S		Mag Dip Angle: 60.84 deg	
ft		ft		+E/-W	
				ft	
				Direction	
				deg	
7140.00		0.00		0.00	
				265.74	

Plan: Plan #1 9-20-07				Date Composed: 09/20/2007	
				Version: 1	
Principal: No				Tied-to: From Surface	

Plan Section Information										
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MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6732.50	0.00	0.00	6732.50	0.00	0.00	0.00	0.00	0.00	0.00	
7482.56	90.00	265.74	7210.00	-35.47	-476.18	12.00	12.00	0.00	265.74	
7514.88	90.97	265.74	7209.73	-37.87	-508.42	3.00	3.00	0.00	-0.06	
11634.32	90.97	265.74	7140.00	-343.91	-4615.88	0.00	0.00	0.00	0.00	PBHL

Survey										
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MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC
Field: Dancer 16 State #1
Site: Dancer 16 State #1
Well: Dancer 16 State #1
Wellpath: OH

Date: 09/20/2007 **Time:** 15:26:29 **Page:** 2
Co-ordinate(NE) Reference: Site, Dancer 16 State #1, Grid North
Vertical (TVD) Reference: SITE 3699 0
Section (VS) Reference: Well (0 00N,0.00E,265.74Azi)
Plan: Plan #1 9-20-07

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6732.50	0.00	0.00	6732.50	0.00	0.00	0.00	0.00	0.00	0.00	
6800.00	8.10	265.74	6799.78	-0.35	-4.75	4.76	12.00	12.00	0.00	KOP @ 6732.5' MD, Begin B

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC.

Field: Dancer 16 State #1

Site: Dancer 16 State #1

Well: Dancer 16 State #1

Wellpath: OH

Date: 09/20/2007

Time: 15:26:29

Page: 3

Co-ordinate(NE) Reference: Site. Dancer 16 State #1, Grid North

Vertical (TVD) Reference: SITE 3699.0

Section (VS) Reference: Well (0.00N,0.00E,265.74Azi)

Plan: Plan #1 9-20-07

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6900.00	20.10	265.74	6896.59	-2.16	-29.00	29.08	12.00	12.00	0.00	
7000.00	32.10	265.74	6986.23	-5.42	-72.79	72.99	12.00	12.00	0.00	
7100.00	44.10	265.74	7064.78	-10.00	-134.20	134.58	12.00	12.00	0.00	
7200.00	56.10	265.74	7128.81	-15.68	-210.56	211.15	12.00	12.00	0.00	
7300.00	68.09	265.74	7175.53	-22.24	-298.53	299.36	12.00	12.00	0.00	
7400.00	80.09	265.74	7202.88	-29.37	-394.26	395.36	12.00	12.00	0.00	
7482.56	90.00	265.74	7210.00	-35.47	-476.18	477.50	12.00	12.00	0.00	EOC @ 7483' MD, Begin bui
7500.00	90.52	265.74	7209.92	-36.77	-493.58	494.94	3.00	3.00	0.00	
7514.88	90.97	265.74	7209.73	-37.87	-508.42	509.83	3.00	3.00	0.00	EOB @ 7515' MD, 90.97° In
7600.00	90.97	265.74	7208.29	-44.19	-593.29	594.93	0.00	0.00	0.00	
7700.00	90.97	265.74	7206.59	-51.62	-693.00	694.92	0.00	0.00	0.00	
7800.00	90.97	265.74	7204.90	-59.05	-792.71	794.90	0.00	0.00	0.00	
7900.00	90.97	265.74	7203.21	-66.48	-892.42	894.89	0.00	0.00	0.00	
8000.00	90.97	265.74	7201.52	-73.91	-992.12	994.87	0.00	0.00	0.00	
8100.00	90.97	265.74	7199.82	-81.34	-1091.83	1094.86	0.00	0.00	0.00	
8200.00	90.97	265.74	7198.13	-88.77	-1191.54	1194.85	0.00	0.00	0.00	
8300.00	90.97	265.74	7196.44	-96.20	-1291.25	1294.83	0.00	0.00	0.00	
8400.00	90.97	265.74	7194.74	-103.63	-1390.96	1394.82	0.00	0.00	0.00	
8500.00	90.97	265.74	7193.05	-111.06	-1490.67	1494.80	0.00	0.00	0.00	
8600.00	90.97	265.74	7191.36	-118.49	-1590.38	1594.79	0.00	0.00	0.00	
8700.00	90.97	265.74	7189.67	-125.91	-1690.09	1694.77	0.00	0.00	0.00	
8800.00	90.97	265.74	7187.97	-133.34	-1789.80	1794.76	0.00	0.00	0.00	
8900.00	90.97	265.74	7186.28	-140.77	-1889.51	1894.74	0.00	0.00	0.00	
9000.00	90.97	265.74	7184.59	-148.20	-1989.22	1994.73	0.00	0.00	0.00	
9100.00	90.97	265.74	7182.90	-155.63	-2088.93	2094.72	0.00	0.00	0.00	
9200.00	90.97	265.74	7181.20	-163.06	-2188.64	2194.70	0.00	0.00	0.00	
9300.00	90.97	265.74	7179.51	-170.49	-2288.35	2294.69	0.00	0.00	0.00	
9400.00	90.97	265.74	7177.82	-177.92	-2388.05	2394.67	0.00	0.00	0.00	
9500.00	90.97	265.74	7176.13	-185.35	-2487.76	2494.66	0.00	0.00	0.00	
9600.00	90.97	265.74	7174.43	-192.78	-2587.47	2594.64	0.00	0.00	0.00	
9700.00	90.97	265.74	7172.74	-200.21	-2687.18	2694.63	0.00	0.00	0.00	
9800.00	90.97	265.74	7171.05	-207.63	-2786.89	2794.62	0.00	0.00	0.00	
9900.00	90.97	265.74	7169.36	-215.06	-2886.60	2894.60	0.00	0.00	0.00	
10000.00	90.97	265.74	7167.66	-222.49	-2986.31	2994.59	0.00	0.00	0.00	
10100.00	90.97	265.74	7165.97	-229.92	-3086.02	3094.57	0.00	0.00	0.00	
10200.00	90.97	265.74	7164.28	-237.35	-3185.73	3194.56	0.00	0.00	0.00	
10300.00	90.97	265.74	7162.58	-244.78	-3285.44	3294.54	0.00	0.00	0.00	
10400.00	90.97	265.74	7160.89	-252.21	-3385.15	3394.53	0.00	0.00	0.00	
10500.00	90.97	265.74	7159.20	-259.64	-3484.86	3494.52	0.00	0.00	0.00	
10600.00	90.97	265.74	7157.51	-267.07	-3584.57	3594.50	0.00	0.00	0.00	
10700.00	90.97	265.74	7155.81	-274.50	-3684.28	3694.49	0.00	0.00	0.00	
10800.00	90.97	265.74	7154.12	-281.93	-3783.98	3794.47	0.00	0.00	0.00	
10900.00	90.97	265.74	7152.43	-289.35	-3883.69	3894.46	0.00	0.00	0.00	
11000.00	90.97	265.74	7150.74	-296.78	-3983.40	3994.44	0.00	0.00	0.00	
11100.00	90.97	265.74	7149.04	-304.21	-4083.11	4094.43	0.00	0.00	0.00	
11200.00	90.97	265.74	7147.35	-311.64	-4182.82	4194.42	0.00	0.00	0.00	
11300.00	90.97	265.74	7145.66	-319.07	-4282.53	4294.40	0.00	0.00	0.00	
11400.00	90.97	265.74	7143.97	-326.50	-4382.24	4394.39	0.00	0.00	0.00	
11500.00	90.97	265.74	7142.27	-333.93	-4481.95	4494.37	0.00	0.00	0.00	
11600.00	90.97	265.74	7140.58	-341.36	-4581.66	4594.36	0.00	0.00	0.00	
11634.32	90.97	265.74	7140.00	-343.91	-4615.88	4628.67	0.00	0.00	0.00	PBHL

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC.
Field: Dancer 16 State #1
Site: Dancer 16 State #1
Well: Dancer 16 State #1
Wellpath: OH

Date: 09/20/2007 **Time:** 15 26:29 **Page:** 4
Co-ordinate(NE) Reference: Dancer 16 State #1, Grid North
Vertical (TVD) Reference: SITE 3699.0
Section (VS) Reference: Well (0.00N,0.00E,265.74Azi)
Plan: Plan #1 9-20-07

Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<---- Longitude ---->		
	Dip.	Dir.						Deg	Min	Sec	Deg	Min	Sec
PBHL			7140 00	-343 91	-4615 88	696819 33	616818 95	32	54	55.172 N	104	5	14 513 W

Annotation

MD ft	TVD ft	
6732 50	6732 50	KOP @ 6732 5' MD, Begin Build @ 12°/100'
7482.56	7210 00	EOC @ 7483' MD, Begin build @ 3°/100'
7514.88	7209 73	EOB @ 7515' MD, 90 97° Inc, Hold to TD

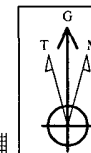
COG Operating Company LLC.



Field: Dancer 16 State #1
 Site: Dancer 16 State #1
 Well: Dancer 16 State #1
 Wellpath: OH
 Plan: Plan #1 9-20-07

SECTION DETAILS

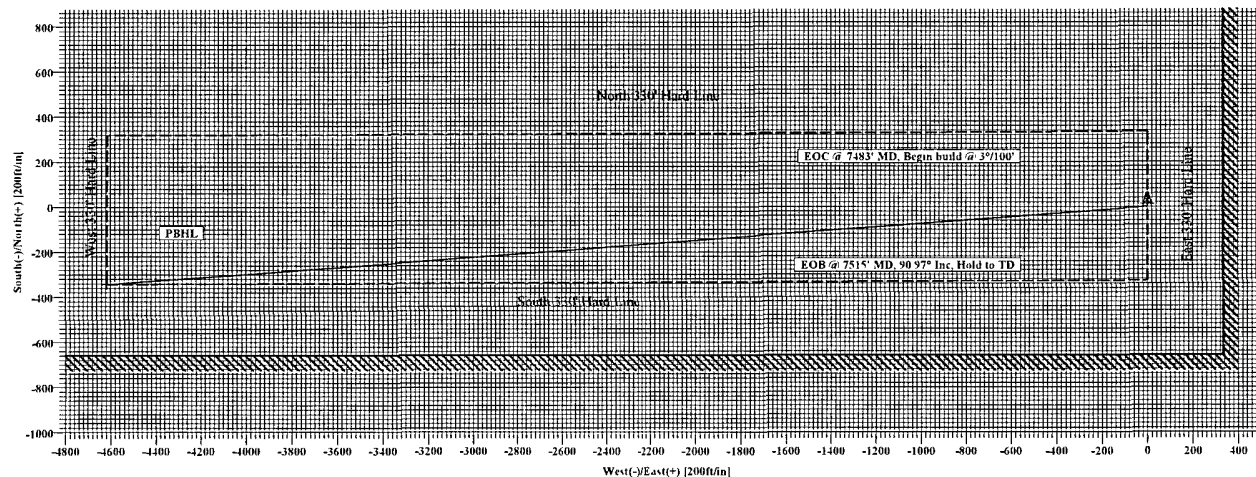
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2	6732 50	0 00	0 00	6732 50	0 00	0 00	0 00	0 00	0 00	
3	7482 56	90 00	265 74	7210 00	-35 47	-476 18	12 00	265 74	477 50	
4	7514 88	90 97	265 74	7209 73	-37 87	-508 42	3 00	-0 06	509 83	
5	11634 32	90 97	265 74	7140 00	-343 91	-4615 88	0 00	0 00	4628 67	PBHL



Azimuths to Grid North
 True North -0 14°
 Magnetic North 8 16°
 Magnetic Field
 Strength 49399nT
 Dip Angle 60 84°
 Date 09/20/2007
 Model igrf2005

SITE DETAILS

Dancer 16 State #1
 Site Centre Northing 697163 24
 Easting 621434 82
 Ground Level 3678 00
 Positional Uncertainty 0 00
 Convergence 0 14



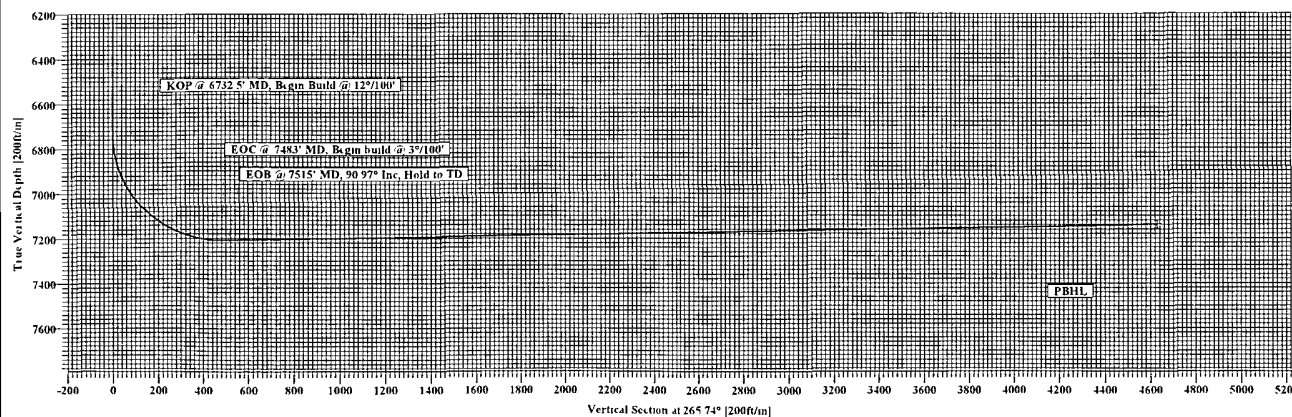
TARGET DETAILS

Name	TVD	+N-S	+E-W	Shape
PBHL	7140 00	-343 91	-4615 88	Point

WELLPATH DETAILS

OH

Rig Ref Datum	SITE		3699 00ft
V Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
265 74°	0 00	0 00	7140 00



ANNOTATIONS

No	TVD	MD	Annotation
1	6732 50	6732 50	KOP @ 6732 5' MD, Begin Build @ 12°/100''
2	7210 00	7482 56	EOC @ 7483' MD, Begin build @ 3°/100''
3	7209 73	7514 88	EOB @ 7515' MD, 90 97° Inc, Hold to TD