

DISTRICT I
1625 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

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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

SEP 28 2007

OCD-ARTESIA AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30 015 35834	Pool Code	Pool Name WILDCAT ; WOLFCAMP
Property Code	Property Name DANCER "16" STATE	Well Number 2
OGRID No. 229137	Operator Name C.O.G. OPERATING L.L.C.	Elevation 3688'

Surface Location

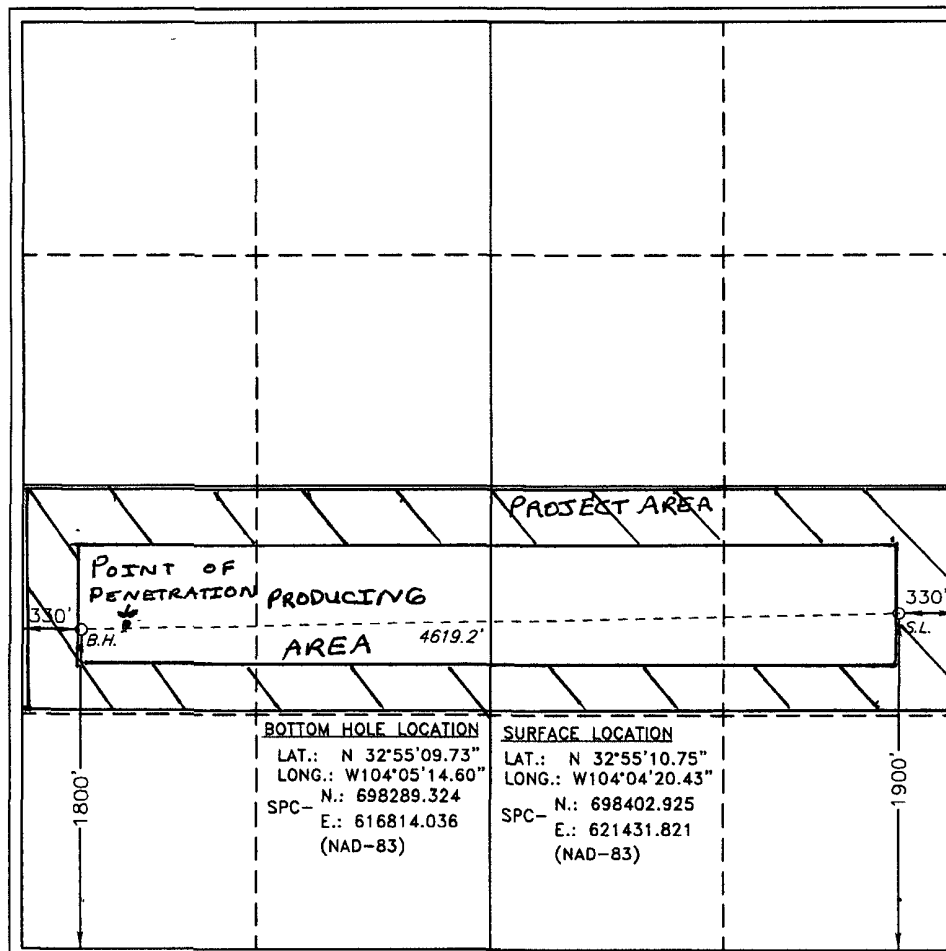
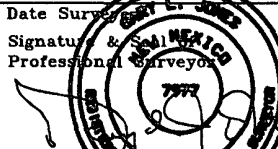
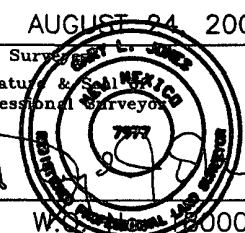
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	16	16 S	29 E		1900	SOUTH	330	EAST	EDDY

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
L	16	16 S	29 E		1800	SOUTH	330	WEST	EDDY

Dedicated Acres 160	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, 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.  Signature Date PHYLLIS A. EDWARDS Printed Name	
		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. AUGUST 24 2007 Date Surveyed  Signature Professional Surveyor  W.C. Jones & Sons Certificate No. Gary L. Jones 7977 BASIN SURVEYS	

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC.
 Field: Dancer 16 State #2
 Site: Dancer 16 State #2
 Well: Dancer 16 State #2
 Wellpath: OH

Date: 09/27/2007 Time: 11:37:11 Page: 2
 Co-ordinate(NE) Reference: Dancer 16 State #2, Grid North
 Vertical (TVD) Reference: SITE 3709.0
 Section (VS) Reference: Well (0.00N,0.00E,268.59Azi)
 Plan: Plan #1 9-27-07

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	
6712.50	0.00	0.00	6712.50	0.00	0.00	0.00	0.00	0.00	0.00	
6800.00	10.50	268.59	6799.51	-0.20	-7.99	7.99	12.00	12.00	0.00	KOP @ 6712.5' MD, Begin B

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC.
 Field: Dancer 16 State #2
 Site: Dancer 16 State #2
 Well: Dancer 16 State #2
 Wellpath: OH

Date: 09/27/2007 Time: 11:37:11 Page: 3
 Co-ordinate(NE) Reference: Dancer 16 State #2, Grid North
 Vertical (TVD) Reference: SITE 3709.0
 Section (VS) Reference: Well (0.00N;0.00E;268.59Azi)
 Plan: Plan #1 9-27-07

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	22.50	268.59	6895.22	-0.89	-36.33	36.34	12.00	12.00	0.00	
7000.00	34.50	268.59	6982.94	-2.07	-83.94	83.97	12.00	12.00	0.00	
7100.00	46.50	268.59	7058.85	-3.66	-148.74	148.79	12.00	12.00	0.00	
7200.00	58.50	268.59	7119.62	-5.61	-227.91	227.98	12.00	12.00	0.00	
7300.00	70.49	268.59	7162.60	-7.83	-317.97	318.07	12.00	12.00	0.00	
7400.00	82.49	268.59	7185.91	-10.21	-415.00	415.12	12.00	12.00	0.00	
7462.56	90.00	268.59	7190.00	-11.75	-477.36	477.50	12.00	12.00	0.00	EOC @ 7463' MD, 7190' TVD
7490.31	90.83	268.59	7189.80	-12.43	-505.11	505.26	3.00	3.00	0.00	EOB @ 7490' MD, 90.83° IN
7500.00	90.83	268.59	7189.66	-12.67	-514.79	514.94	0.00	0.00	0.00	
7600.00	90.83	268.59	7188.20	-15.13	-614.75	614.93	0.00	0.00	0.00	
7700.00	90.83	268.59	7186.75	-17.59	-714.71	714.92	0.00	0.00	0.00	
7800.00	90.83	268.59	7185.30	-20.05	-814.66	814.91	0.00	0.00	0.00	
7900.00	90.83	268.59	7183.84	-22.51	-914.62	914.90	0.00	0.00	0.00	
8000.00	90.83	268.59	7182.39	-24.97	-1014.58	1014.89	0.00	0.00	0.00	
8100.00	90.83	268.59	7180.94	-27.42	-1114.54	1114.88	0.00	0.00	0.00	
8200.00	90.83	268.59	7179.48	-29.88	-1214.50	1214.87	0.00	0.00	0.00	
8300.00	90.83	268.59	7178.03	-32.34	-1314.46	1314.86	0.00	0.00	0.00	
8400.00	90.83	268.59	7176.58	-34.80	-1414.42	1414.85	0.00	0.00	0.00	
8500.00	90.83	268.59	7175.12	-37.26	-1514.38	1514.84	0.00	0.00	0.00	
8600.00	90.83	268.59	7173.67	-39.72	-1614.34	1614.83	0.00	0.00	0.00	
8700.00	90.83	268.59	7172.22	-42.18	-1714.30	1714.82	0.00	0.00	0.00	
8800.00	90.83	268.59	7170.76	-44.64	-1814.26	1814.81	0.00	0.00	0.00	
8900.00	90.83	268.59	7169.31	-47.10	-1914.22	1914.79	0.00	0.00	0.00	
9000.00	90.83	268.59	7167.86	-49.55	-2014.17	2014.78	0.00	0.00	0.00	
9100.00	90.83	268.59	7166.40	-52.01	-2114.13	2114.77	0.00	0.00	0.00	
9200.00	90.83	268.59	7164.95	-54.47	-2214.09	2214.76	0.00	0.00	0.00	
9300.00	90.83	268.59	7163.50	-56.93	-2314.05	2314.75	0.00	0.00	0.00	
9400.00	90.83	268.59	7162.04	-59.39	-2414.01	2414.74	0.00	0.00	0.00	
9500.00	90.83	268.59	7160.59	-61.85	-2513.97	2514.73	0.00	0.00	0.00	
9600.00	90.83	268.59	7159.14	-64.31	-2613.93	2614.72	0.00	0.00	0.00	
9700.00	90.83	268.59	7157.68	-66.77	-2713.89	2714.71	0.00	0.00	0.00	
9800.00	90.83	268.59	7156.23	-69.23	-2813.85	2814.70	0.00	0.00	0.00	
9900.00	90.83	268.59	7154.78	-71.68	-2913.81	2914.69	0.00	0.00	0.00	
10000.00	90.83	268.59	7153.32	-74.14	-3013.77	3014.68	0.00	0.00	0.00	
10100.00	90.83	268.59	7151.87	-76.60	-3113.73	3114.67	0.00	0.00	0.00	
10200.00	90.83	268.59	7150.42	-79.06	-3213.69	3214.66	0.00	0.00	0.00	
10300.00	90.83	268.59	7148.96	-81.52	-3313.64	3314.65	0.00	0.00	0.00	
10400.00	90.83	268.59	7147.51	-83.98	-3413.60	3414.64	0.00	0.00	0.00	
10500.00	90.83	268.59	7146.06	-86.44	-3513.56	3514.63	0.00	0.00	0.00	
10600.00	90.83	268.59	7144.60	-88.90	-3613.52	3614.62	0.00	0.00	0.00	
10700.00	90.83	268.59	7143.15	-91.36	-3713.48	3714.60	0.00	0.00	0.00	
10800.00	90.83	268.59	7141.70	-93.81	-3813.44	3814.59	0.00	0.00	0.00	
10900.00	90.83	268.59	7140.24	-96.27	-3913.40	3914.58	0.00	0.00	0.00	
11000.00	90.83	268.59	7138.79	-98.73	-4013.36	4014.57	0.00	0.00	0.00	
11100.00	90.83	268.59	7137.33	-101.19	-4113.32	4114.56	0.00	0.00	0.00	
11200.00	90.83	268.59	7135.88	-103.65	-4213.28	4214.55	0.00	0.00	0.00	
11300.00	90.83	268.59	7134.43	-106.11	-4313.24	4314.54	0.00	0.00	0.00	
11400.00	90.83	268.59	7132.97	-108.57	-4413.20	4414.53	0.00	0.00	0.00	
11500.00	90.83	268.59	7131.52	-111.03	-4513.15	4514.52	0.00	0.00	0.00	
11600.00	90.83	268.59	7130.07	-113.49	-4613.11	4614.51	0.00	0.00	0.00	
11604.67	90.83	268.59	7130.00	-113.60	-4617.79	4619.18	0.00	0.00	0.00	PBHL

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC	Date: 09/27/2007	Time: 11:37:11	Page: 4
Field: Dancer 16 State #2	Co-ordinate(NE) Reference: Dancer 16 State #2 Grid North		
Site: Dancer 16 State #2	Vertical (TVD) Reference: SITE 3709.0		
Well: Dancer 16 State #2	Section (VS) Reference: Well (0.00N,0.00E,268.59Azi)		
Wellpath: OH	Plan:	Plan #1 9-27-07	

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec	<---- Longitude ----> Deg Min Sec
PBHL		7130.00	-113.60	-4617.79	698289.32	616814.04	32 55 9 717 N	104 5 14.531 W

Annotation

MD ft	TVD ft	
6712.50	6712.50	KOP @ 6712.5' MD, Begin Build @ 12°/100'
7462.56	7190.00	EOC @ 7463' MD, 7190' TVD, Begin Build @ 3°/100'
7490.31	7189.80	EOB @ 7490' MD, 90 83° INC, Hold to TD

COG Operating Company LLC.



Field: Dancer 16 State #2

Site: Dancer 16 State #2

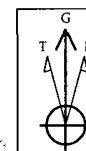
Well: Dancer 16 State #2

Wellpath: OH

Plan: Plan #1 9-27-07

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	6712 50	0 00	0 00	6712 50	0 00	0 00	0 00	0 00	0 00	
3	7462 56	90 00	268 59	7190 00	-11 75	-477 36	12 00	268 59	477 50	
4	7490 31	90 83	268 59	7189 80	-12 43	-505 11	3 00	0 06	505 26	
5	11604 67	90 83	268 59	7130 00	-113 60	-4617 79	0 00	0 00	4619 18	PBHL



Azimuths to Grid North
True North -0 14°
Magnetic North 8 16°

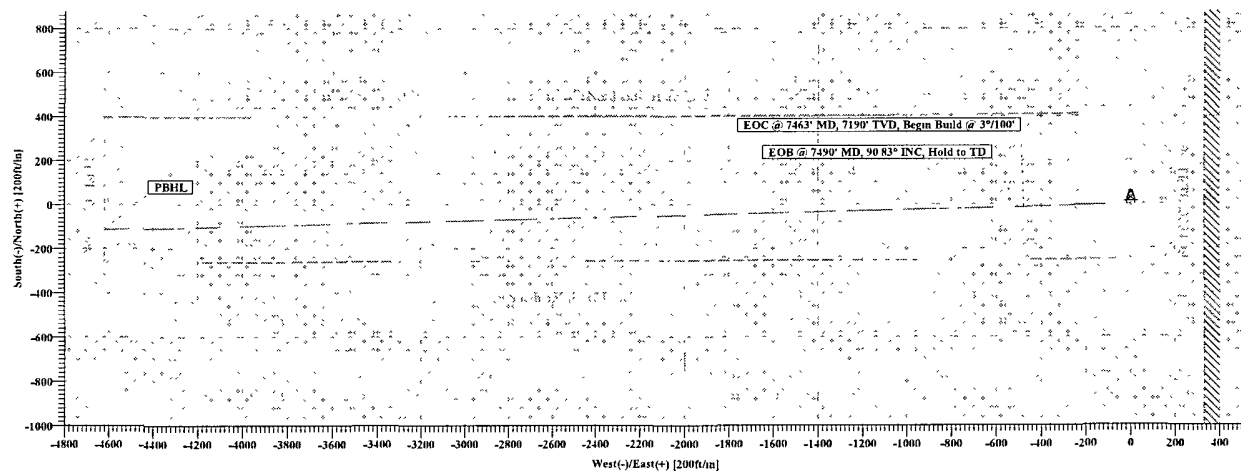
Magnetic Field
Strength 49399nT
Dip Angle 60 84°
Date 09/27/2007
Model igr2005

SITE DETAILS

Dancer 16 State #2

Site Centre Northing 698402 95
Easting 621431 82

Ground Level 3688 00
Positional Uncertainty 0 00
Convergence 0 14



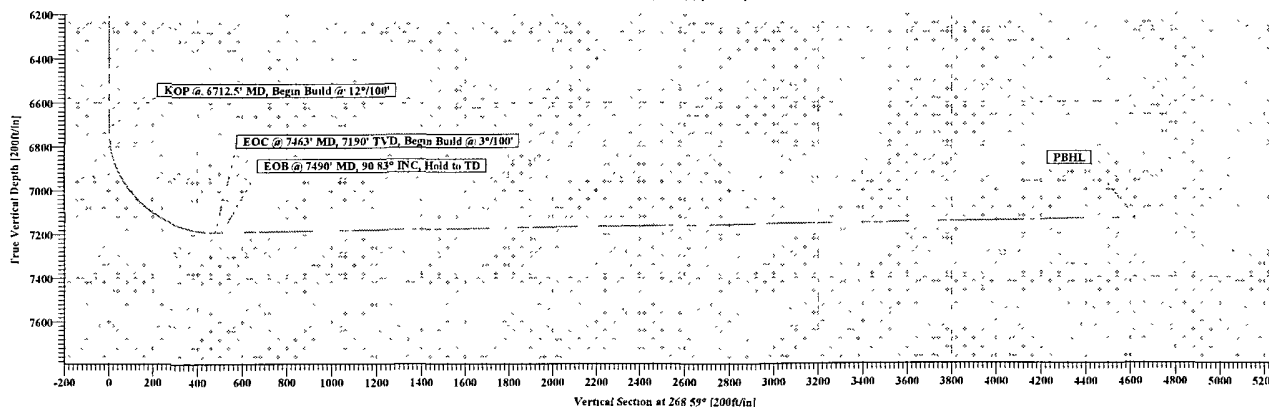
TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL	7130 00	-113 60	-4617 79	Point

WELLPATH DETAILS

OH

Rug Ref Datum	SITE		3709 00ft
V Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
268 59°	0 00	0 00	0 00



ANNOTATIONS

No	TVD	MD	Annotation
1	6712 50	6712 50	KOP @ 6712.5' MD, Begin Build @ 12°/100'
2	7190 00	7462 56	EOC @ 7463' MD, 7190' TVD, Begin Build @ 3°/100'
3	7189 80	7490 31	EOB @ 7490' MD 90 83° INC, Hold to TD