

Stogner, Michael, EMNRD

From: Stogner, Michael, EMNRD
To: Raye Miller
Cc: Arrant, Bryan, EMNRD
Subject: Scared Hawk State Com. #1
Attachments:

Sent: Tue 8/22/2006 11:17 AM

Mr. Miller,

I am in receipt of your NSL-BHL application for the proposed horizontal drilling of Marbob's Scared Hawk State Com. Well No. 1 in the Undesignated Southwest Willow Lake-Delaware Pool underlying the N/2 NW/4 of Section 4-T25S-R28E and your faxed waivers from Southwest Energy Production Company and OGX Resources, LLC.

To prepare an order I am in need of your proposed directionally drilling plan with schematic for this well and the expected top of the Delaware formation in this area (for example's of the information needed, please refer to Division Administrative Orders NSL-5273, NSL-5337, NSL-5359, and NSL-5391) .

 Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

Stogner, Michael, EMNRD

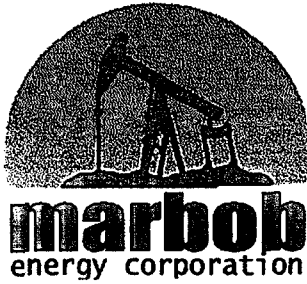
From: Nancy Bratcher [landtech@marbob.com] **Sent:** Thu 8/24/2006 9:51 AM
To: Stogner, Michael, EMNRD
Cc:
Subject: Scared Hawk State Com #1
Attachments:  Print 010001001017-0000008364-0608230638.pdf(445KB)  Print 010001001017-0000008540-0608240828.pdf(69KB)

Dear Mike:

Enclosed is the additional information you requested. We are also sending the original and three copies by mail to you today. If you need anything else or this doesn't fulfill your request please let me know. Thank you for your help.

Sincerely,

Raye Miller
Land Department



Field: Eddy County, NM NAD-27
 Site: Scared Hawk St Com #1
 Well: Scared Hawk St Com #1
 Wellpath: OH
 Plan: Plan #1 7-31-06

PA

TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
PBHL	4800.00	-100.00	-205.00	Point

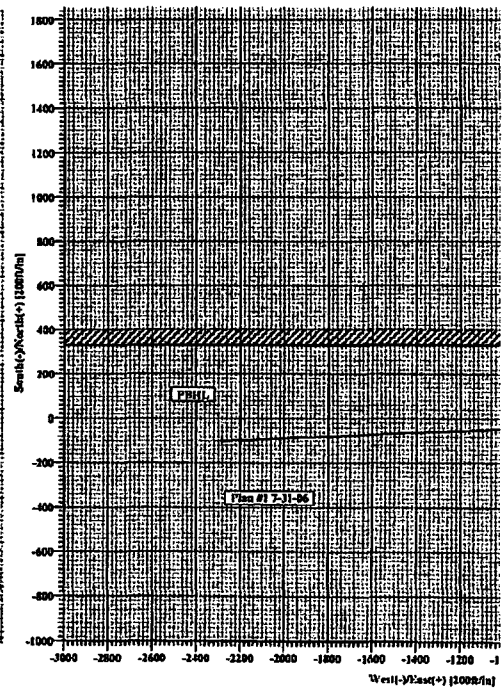
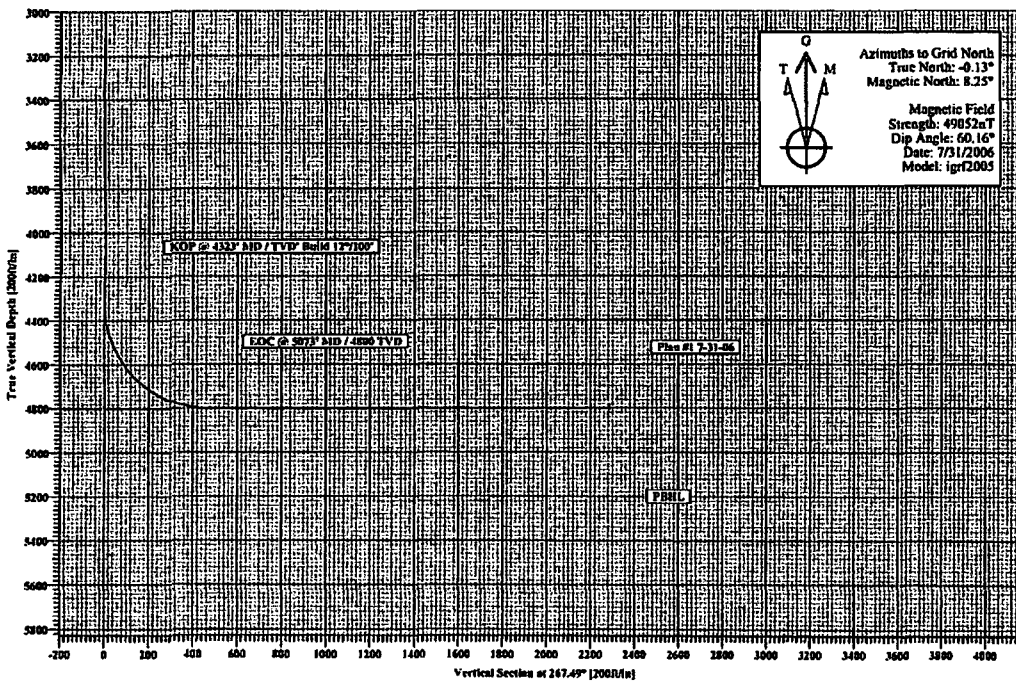
WELLPATH DETAILS				
OH				
Rig:	SITE 0.000			
Ref. Datum:				
V. Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD	
244.00°	0.00	0.00	0.00	

SITE DETAILS				
Scared Hawk St Com #1				
Water Depth:	0.00			
Positional Uncertainty:	0.00			
Convergence:	0.13			

ANNOTATIONS				
No	TVD	MD	Annotation	
1	4322.54	4322.54	KOP @ 4323' MD / TVD Build 12°/100'	
2	4800.00	5072.54	EOC @ 5073' MD / 4800 TVD	

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	4322.54	0.00	0.00	4322.54	0.00	0.00	0.00	0.00	0.00	
3	5072.54	90.00	267.49	4800.00	-20.91	-477.01	12.00	267.49	477.46	
4	6882.19	90.00	267.49	4800.00	-100.16	-2284.92	0.00	0.00	2287.12	PBHL

TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
PBHL	4800.00	-100.00	-205.00	Point



Pathfinder Energy

Planning Report

Company: Marbob Energy Field: Eddy County, NM NAD-27 Site: Scared Hawk St Com #1 Well: Scared Hawk St Com #1 Wellpath: OH	Date: 7/31/2006 Time: 14:00:50 Page: 2 Co-ordinate(NE) Reference: Well: Scared Hawk St Com #1, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,267.49Azi) Plan: Plan #1 7-31-06
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Survey

MD ft	Incl deg	Azlm deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
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	
4322.54	0.00	0.00	4322.54	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 4323' MD / TVD' Bul
4325.00	0.30	267.49	4325.00	0.00	-0.01	0.01	12.00	12.00	0.00	
4350.00	3.30	267.49	4349.98	-0.03	-0.79	0.79	12.00	12.00	0.00	
4375.00	6.30	267.49	4374.89	-0.13	-2.88	2.88	12.00	12.00	0.00	
4400.00	9.30	267.49	4399.66	-0.27	-6.26	6.27	12.00	12.00	0.00	
4425.00	12.30	267.49	4424.22	-0.48	-10.94	10.95	12.00	12.00	0.00	
4450.00	15.30	267.49	4448.49	-0.74	-16.90	16.91	12.00	12.00	0.00	
4475.00	18.30	267.49	4472.42	-1.06	-24.11	24.13	12.00	12.00	0.00	
4500.00	21.30	267.49	4495.94	-1.43	-32.57	32.60	12.00	12.00	0.00	
4525.00	24.30	267.49	4518.99	-1.85	-42.24	42.29	12.00	12.00	0.00	
4550.00	27.30	267.49	4541.49	-2.33	-53.11	53.16	12.00	12.00	0.00	
4575.00	30.30	267.49	4563.40	-2.86	-65.14	65.20	12.00	12.00	0.00	
4600.00	33.30	267.49	4584.65	-3.43	-78.30	78.37	12.00	12.00	0.00	
4625.00	36.30	267.49	4605.17	-4.06	-92.55	92.64	12.00	12.00	0.00	
4650.00	39.30	267.49	4624.93	-4.73	-107.85	107.96	12.00	12.00	0.00	
4675.00	42.30	267.49	4643.85	-5.44	-124.17	124.29	12.00	12.00	0.00	
4700.00	45.30	267.49	4661.89	-6.20	-141.45	141.59	12.00	12.00	0.00	
4725.00	48.30	267.49	4679.01	-7.00	-159.66	159.81	12.00	12.00	0.00	
4750.00	51.30	267.49	4695.14	-7.83	-178.73	178.90	12.00	12.00	0.00	
4775.00	54.30	267.49	4710.26	-8.71	-198.62	198.81	12.00	12.00	0.00	
4800.00	57.30	267.49	4724.31	-9.61	-219.27	219.49	12.00	12.00	0.00	
4825.00	60.30	267.49	4737.26	-10.55	-240.63	240.87	12.00	12.00	0.00	
4850.00	63.30	267.49	4749.08	-11.51	-262.64	262.90	12.00	12.00	0.00	
4875.00	66.30	267.49	4759.72	-12.50	-285.24	285.51	12.00	12.00	0.00	
4900.00	69.30	267.49	4769.17	-13.52	-308.36	308.66	12.00	12.00	0.00	
4925.00	72.30	267.49	4777.39	-14.55	-331.94	332.26	12.00	12.00	0.00	

Pathfinder Energy Planning Report

Company: Marbob Energy
Field: Eddy County, NM NAD-27
Site: Scared Hawk St Com #1
Well: Scared Hawk St Com #1
Wellpath: OH

Date: 7/31/2006 Time: 14:00:50 Page: 3
Co-ordinate(NE) Reference: Scared Hawk St Com #1, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,267.49Azi)
Plan: Plan #1 7-31-06

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
4950.00	75.30	267.49	4784.37	-15.60	-355.92	356.27	12.00	12.00	0.00	
4975.00	78.30	267.49	4790.08	-16.67	-380.24	380.60	12.00	12.00	0.00	
5000.00	81.30	267.49	4794.51	-17.75	-404.81	405.20	12.00	12.00	0.00	
5025.00	84.30	267.49	4797.64	-18.83	-429.59	430.00	12.00	12.00	0.00	
5050.00	87.30	267.49	4799.47	-19.92	-454.50	454.93	12.00	12.00	0.00	
5072.54	90.00	267.49	4800.00	-20.91	-477.01	477.46	12.00	12.00	0.00	EOC @ 5073' MD / 4800 TVD
5100.00	90.00	267.49	4800.00	-22.11	-504.44	504.92	0.00	0.00	0.00	
5200.00	90.00	267.49	4800.00	-26.49	-604.34	604.92	0.00	0.00	0.00	
5300.00	90.00	267.49	4800.00	-30.87	-704.25	704.92	0.00	0.00	0.00	
5400.00	90.00	267.49	4800.00	-35.25	-804.15	804.92	0.00	0.00	0.00	
5500.00	90.00	267.49	4800.00	-39.63	-904.06	904.92	0.00	0.00	0.00	
5600.00	90.00	267.49	4800.00	-44.01	-1003.96	1004.92	0.00	0.00	0.00	
5700.00	90.00	267.49	4800.00	-48.39	-1103.86	1104.92	0.00	0.00	0.00	
5800.00	90.00	267.49	4800.00	-52.77	-1203.77	1204.92	0.00	0.00	0.00	
5900.00	90.00	267.49	4800.00	-57.15	-1303.67	1304.92	0.00	0.00	0.00	
6000.00	90.00	267.49	4800.00	-61.53	-1403.58	1404.92	0.00	0.00	0.00	
6100.00	90.00	267.49	4800.00	-65.91	-1503.48	1504.92	0.00	0.00	0.00	
6200.00	90.00	267.49	4800.00	-70.29	-1603.39	1604.92	0.00	0.00	0.00	
6300.00	90.00	267.49	4800.00	-74.67	-1703.29	1704.92	0.00	0.00	0.00	
6400.00	90.00	267.49	4800.00	-79.04	-1803.19	1804.92	0.00	0.00	0.00	
6500.00	90.00	267.49	4800.00	-83.42	-1903.10	1904.92	0.00	0.00	0.00	
6600.00	90.00	267.49	4800.00	-87.80	-2003.00	2004.92	0.00	0.00	0.00	
6700.00	90.00	267.49	4800.00	-92.18	-2102.91	2104.92	0.00	0.00	0.00	
6800.00	90.00	267.49	4800.00	-96.56	-2202.81	2204.92	0.00	0.00	0.00	
6882.19	90.00	267.49	4800.00	-100.16	-2284.92	2287.12	0.00	0.00	0.00	PBHL

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		4800.00	-100.00	-2285.00	423908.31	575054.86	32	9	54.750 N	104	5	26.812 W

Annotation

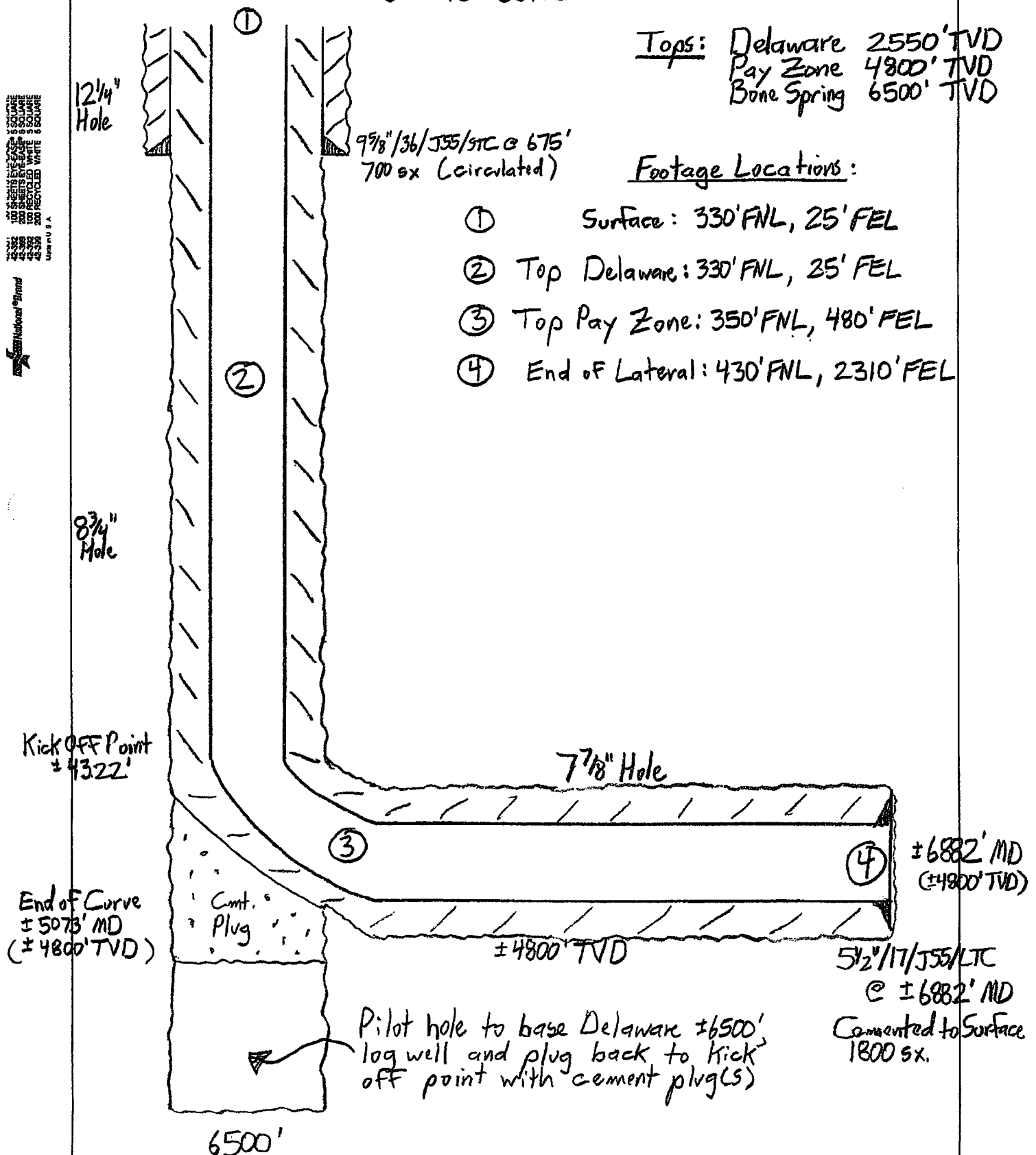
MD ft	TVD ft	
4322.54	4322.54	KOP @ 4323' MD / TVD' Build 12"/100'
5072.54	4800.00	EOC @ 5073' MD / 4800 TVD

30-015-35102

Tops: Delaware 2550' TVD
Pay Zone 4800' TVD
Bone Spring 6500' TVD

Footage Locations:

- ① Surface: 330' FNL, 25' FEL
- ② Top Delaware: 330' FNL, 25' FEL
- ③ Top Pay Zone: 350' FNL, 480' FEL
- ④ End of Lateral: 430' FNL, 2310' FEL



AUG 28 2006

Nancy Bratcher

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

From: "Nancy Bratcher" <landtech@marbob.com>
To: <michael.stogner@state.nm.us>
Sent: Thursday, August 24, 2006 9:51 AM
Attach: Print 010001001017-0000008364-0608230638.pdf; Print 010001001017-0000008540-0608240828.pdf
Subject: Scared Hawk State Com #1

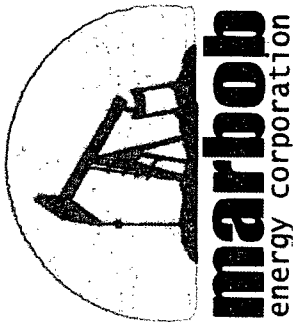
Dear Mike:

Enclosed is the additional information you requested. We are also sending the original and three copies by mail to you today. If you need anything else or this doesn't fulfill your request please let me know. Thank you for your help.

Sincerely,

Raye Miller
Land Department

8/24/2006



Field: Eddy County, NM NAD-27
 Site: Scared Hawk St Com #1
 Well: Scared Hawk St Com #1
 Wellpath: OH
 Plan: Plan #1 7-31-06

PATHFINDER

WELLPATH DETAILS

OH

Rig: SITE 0.000
 Ref. Datum: Origin +N/-S Starting From TVD
 V. Section Angle 244.00° 0.00 0.00

SITE DETAILS

Scared Hawk St Com #1
 Water Depth: 0.00
 Positional Uncertainty: 0.00
 Convergence: 0.13

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL	4800.00	-100.00	-205.00	Point

ANNOTATIONS

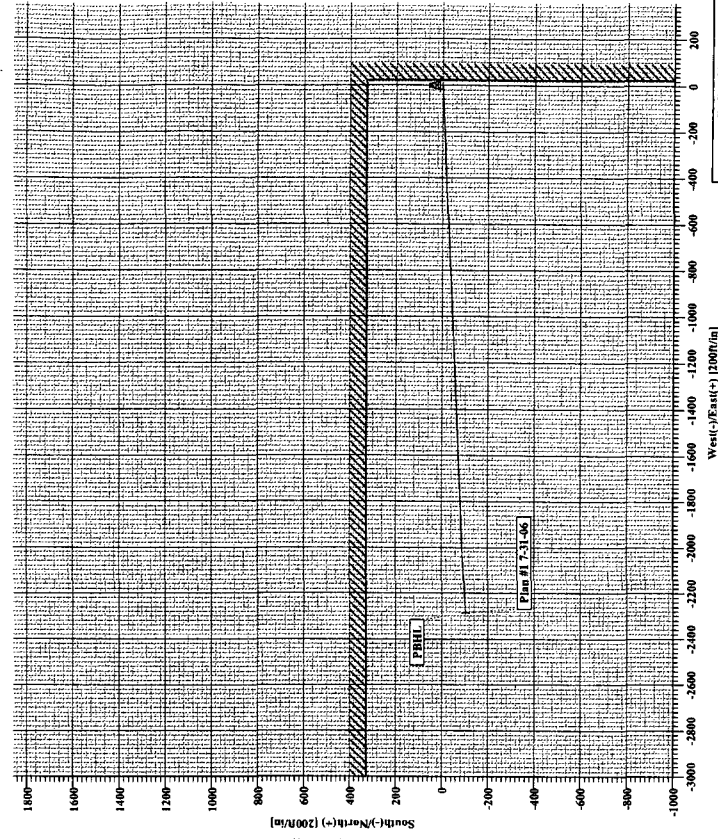
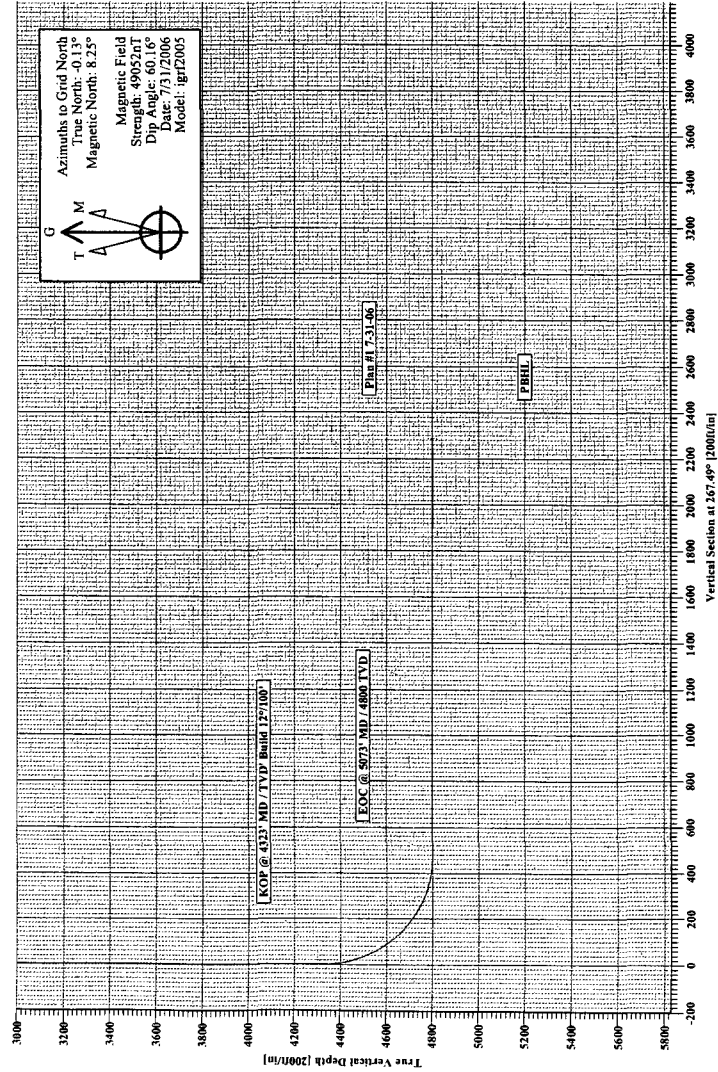
No.	TVD	MD	Annotation
1	4322.54	4323 MD / TVD Build 12°/100'	
2	4800.00	5073 MD / 4800 TVD	

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	4322.54	0.00	0.00	4322.54	0.00	0.00	0.00	0.00	0.00	
3	5072.54	90.00	267.49	4800.00	-20.91	-477.01	12.00	267.49	477.46	
4	6882.19	90.00	267.49	4800.00	-100.16	-2284.92	0.00	0.00	2287.12	PBHL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL	4800.00	-100.00	-205.00	Point



Vertical Section at 347.49° [200ft/in]

West (-) / East (+) [200ft/in]

Pathfinder Energy

Planning Report

Company: Marbob Energy
Field: Eddy County, NM NAD-27
Site: Scared Hawk St Com #1
Well: Scared Hawk St Com #1
Wellpath: OH

Date: 7/31/2006 **Time:** 14:00:50 **Page:** 2
Co-ordinate(NE) Reference: Well: Scared Hawk St Com #1, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,267.49Azi)
Plan: Plan #1 7-31-06

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
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	
4322.54	0.00	0.00	4322.54	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 4323' MD / TVD' Bu
4325.00	0.30	267.49	4325.00	0.00	-0.01	0.01	12.00	12.00	0.00	
4350.00	3.30	267.49	4349.98	-0.03	-0.79	0.79	12.00	12.00	0.00	
4375.00	6.30	267.49	4374.89	-0.13	-2.88	2.88	12.00	12.00	0.00	
4400.00	9.30	267.49	4399.66	-0.27	-6.26	6.27	12.00	12.00	0.00	
4425.00	12.30	267.49	4424.22	-0.48	-10.94	10.95	12.00	12.00	0.00	
4450.00	15.30	267.49	4448.49	-0.74	-16.90	16.91	12.00	12.00	0.00	
4475.00	18.30	267.49	4472.42	-1.06	-24.11	24.13	12.00	12.00	0.00	
4500.00	21.30	267.49	4495.94	-1.43	-32.57	32.60	12.00	12.00	0.00	
4525.00	24.30	267.49	4518.99	-1.85	-42.24	42.29	12.00	12.00	0.00	
4550.00	27.30	267.49	4541.49	-2.33	-53.11	53.16	12.00	12.00	0.00	
4575.00	30.30	267.49	4563.40	-2.86	-65.14	65.20	12.00	12.00	0.00	
4600.00	33.30	267.49	4584.65	-3.43	-78.30	78.37	12.00	12.00	0.00	
4625.00	36.30	267.49	4605.17	-4.06	-92.55	92.64	12.00	12.00	0.00	
4650.00	39.30	267.49	4624.93	-4.73	-107.85	107.96	12.00	12.00	0.00	
4675.00	42.30	267.49	4643.85	-5.44	-124.17	124.29	12.00	12.00	0.00	
4700.00	45.30	267.49	4661.89	-6.20	-141.45	141.59	12.00	12.00	0.00	
4725.00	48.30	267.49	4679.01	-7.00	-159.66	159.81	12.00	12.00	0.00	
4750.00	51.30	267.49	4695.14	-7.83	-178.73	178.90	12.00	12.00	0.00	
4775.00	54.30	267.49	4710.26	-8.71	-198.62	198.81	12.00	12.00	0.00	
4800.00	57.30	267.49	4724.31	-9.61	-219.27	219.49	12.00	12.00	0.00	
4825.00	60.30	267.49	4737.26	-10.55	-240.63	240.87	12.00	12.00	0.00	
4850.00	63.30	267.49	4749.08	-11.51	-262.64	262.90	12.00	12.00	0.00	
4875.00	66.30	267.49	4759.72	-12.50	-285.24	285.51	12.00	12.00	0.00	
4900.00	69.30	267.49	4769.17	-13.52	-308.36	308.66	12.00	12.00	0.00	
4925.00	72.30	267.49	4777.39	-14.55	-331.94	332.26	12.00	12.00	0.00	

Pathfinder Energy

Planning Report

Company: Marbob Energy
Field: Eddy County, NM NAD-27
Site: Scared Hawk St Com #1
Well: Scared Hawk St Com #1
Wellpath: OH

Date: 7/31/2006 **Time:** 14:00:50 **Page:** 3
Co-ordinate(NE) Reference: Well: Scared Hawk St Com #1, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,267.49Azi)
Plan: Plan #1 7-31-06

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
4950.00	75.30	267.49	4784.37	-15.60	-355.92	356.27	12.00	12.00	0.00	
4975.00	78.30	267.49	4790.08	-16.67	-380.24	380.60	12.00	12.00	0.00	
5000.00	81.30	267.49	4794.51	-17.75	-404.81	405.20	12.00	12.00	0.00	
5025.00	84.30	267.49	4797.64	-18.83	-429.59	430.00	12.00	12.00	0.00	
5050.00	87.30	267.49	4799.47	-19.92	-454.50	454.93	12.00	12.00	0.00	
5072.54	90.00	267.49	4800.00	-20.91	-477.01	477.46	12.00	12.00	0.00	EOC @ 5073' MD / 4800 TVD
5100.00	90.00	267.49	4800.00	-22.11	-504.44	504.92	0.00	0.00	0.00	
5200.00	90.00	267.49	4800.00	-26.49	-604.34	604.92	0.00	0.00	0.00	
5300.00	90.00	267.49	4800.00	-30.87	-704.25	704.92	0.00	0.00	0.00	
5400.00	90.00	267.49	4800.00	-35.25	-804.15	804.92	0.00	0.00	0.00	
5500.00	90.00	267.49	4800.00	-39.63	-904.06	904.92	0.00	0.00	0.00	
5600.00	90.00	267.49	4800.00	-44.01	-1003.96	1004.92	0.00	0.00	0.00	
5700.00	90.00	267.49	4800.00	-48.39	-1103.86	1104.92	0.00	0.00	0.00	
5800.00	90.00	267.49	4800.00	-52.77	-1203.77	1204.92	0.00	0.00	0.00	
5900.00	90.00	267.49	4800.00	-57.15	-1303.67	1304.92	0.00	0.00	0.00	
6000.00	90.00	267.49	4800.00	-61.53	-1403.58	1404.92	0.00	0.00	0.00	
6100.00	90.00	267.49	4800.00	-65.91	-1503.48	1504.92	0.00	0.00	0.00	
6200.00	90.00	267.49	4800.00	-70.29	-1603.39	1604.92	0.00	0.00	0.00	
6300.00	90.00	267.49	4800.00	-74.67	-1703.29	1704.92	0.00	0.00	0.00	
6400.00	90.00	267.49	4800.00	-79.04	-1803.19	1804.92	0.00	0.00	0.00	
6500.00	90.00	267.49	4800.00	-83.42	-1903.10	1904.92	0.00	0.00	0.00	
6600.00	90.00	267.49	4800.00	-87.80	-2003.00	2004.92	0.00	0.00	0.00	
6700.00	90.00	267.49	4800.00	-92.18	-2102.91	2104.92	0.00	0.00	0.00	
6800.00	90.00	267.49	4800.00	-96.56	-2202.81	2204.92	0.00	0.00	0.00	
6882.19	90.00	267.49	4800.00	-100.16	-2284.92	2287.12	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->		
PBHL		4800.00	-100.00	-2285.00	423908.31	575054.86	32	9	54.750 N	104	5	26.812 W

Annotation

MD ft	TVD ft	
4322.54	4322.54	KOP @ 4323' MD / TVD' Build 12"/100'
5072.54	4800.00	EOC @ 5073' MD / 4800 TVD