

District I

1625 N. French Dr , Hobbs, NM 88240

District II

1301 W. Grand Ave., 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
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
Permit 69339**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-36130	2. Pool Code 96415	3. Pool Name WILLOW LAKE BONE SPRING, WEST
4. Property Code 37003	5. Property Name MUNNYNTHABANK STATE	6. Well No. 001H
7. OGRID No. 14049	8. Operator Name MARBOB ENERGY CORP	9. Elevation 3184

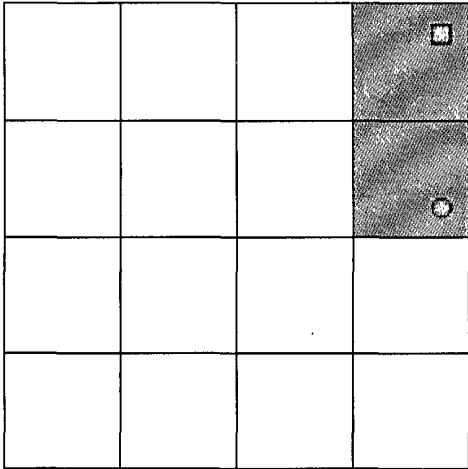
10. Surface Location

UL - Lot H	Section 34	Township 24S	Range 27E	Lot Idn H	Feet From 2279	N/S Line N	Feet From 330	E/W Line E	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot A	Section 34	Township 24S	Range 27E	Lot Idn a	Feet From 330	N/S Line N	Feet From 330	E/W Line E	County EDDY
12. Dedicated Acres 80.00		13. Joint or Infill		14. Consolidation Code		15. 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

	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(s) or has a right to drill this well at this 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> E-Signed By: Diana Briggs Title: Production Analyst Date: 2/13/2008
	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> Surveyed By: Gary Eidson Date of Survey: 1/21/2008 Certificate Number: 12641

Permit Conditions of Approval

Operator: MARBOB ENERGY CORP , 14049

Well: MUNNYNTHABANK STATE #001H

API:

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2 50, and the Pit and Below-Grade Tank Guidelines
BArrant	Operator must use fresh water mud when drilling surface hole.

Permit Comments

Operator: MARBOB ENERGY CORP , 14049
Well: MUNNINTHABANK STATE #001H
API:

Created By	Comment	Comment Date
MARBOB4	Marbob Energy has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan would be necessary.	2/13/2008
MARBOB4	Marbob will be using a closed mud loop system with fresh water pits.	2/13/2008

37003

Marbob

Eddy County

S34 T24S R27E

MunnyNthabank State #1H

Original Hole

Plan: Plan #1

Pathfinder Survey Report

13 February, 2008



Azimuths to Grid North
True North: -0.09°
Magnetic North: 8.15°

Magnetic Field
Strength: 48874.8snT
Dip Angle: 60.12°
Date: 2/13/2008
Model: IGRF200510

Project: Eddy County
Site: S34 T24S R27E
Well: MunnyNthabank State #1H
Wellbore: Original Hole
Plan: Plan #1 (MunnyNthabank State #1H/Original Hole)



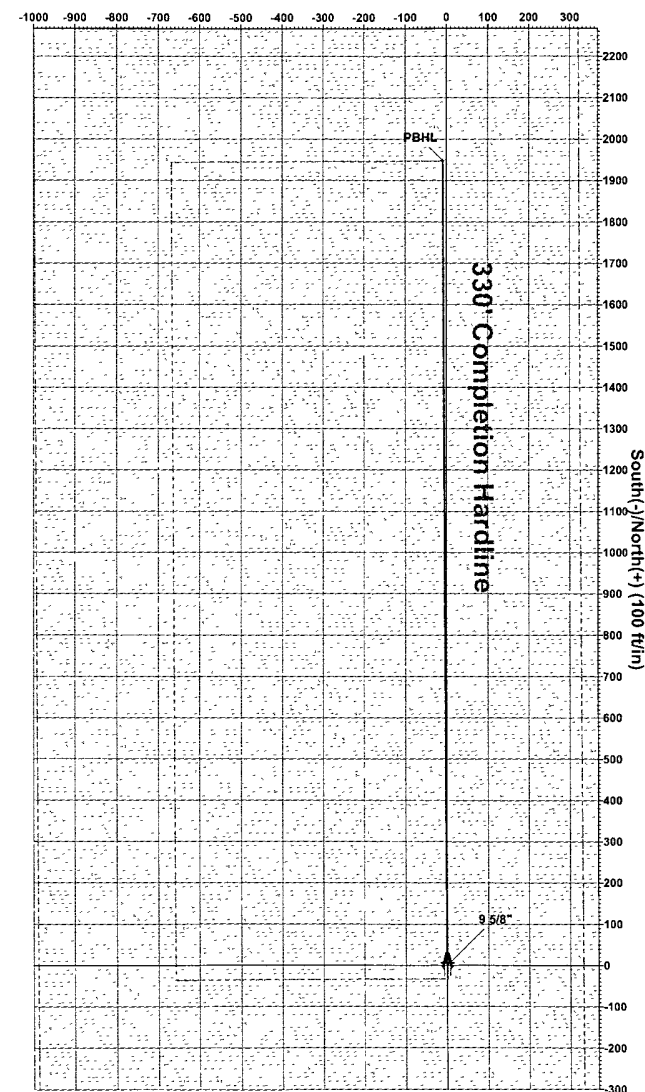
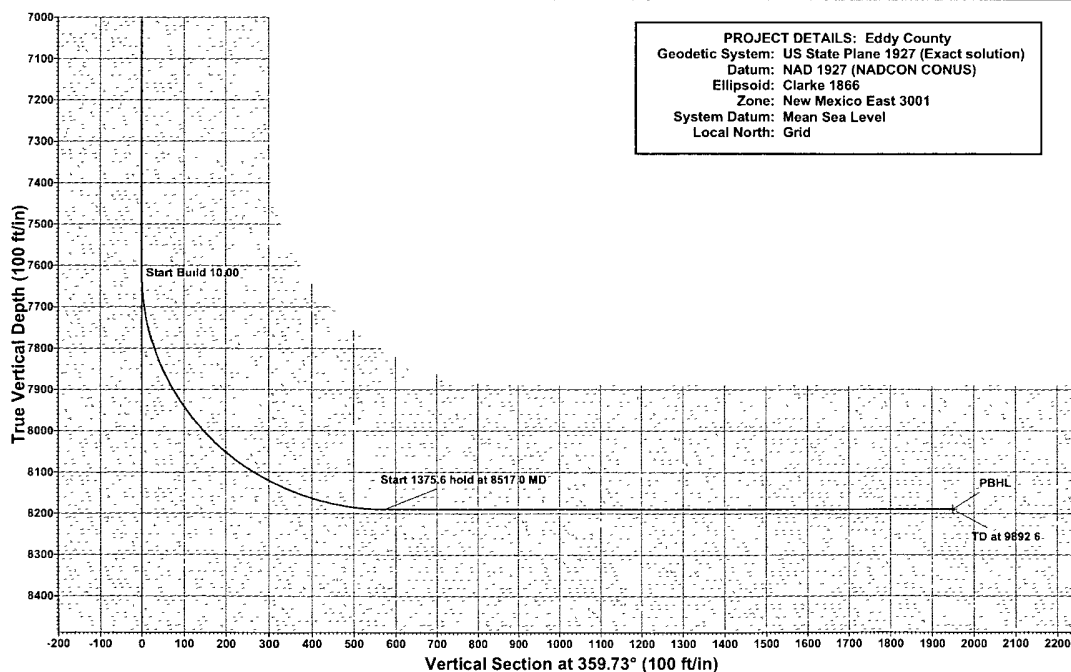
West(-)/East(+) (100 ft/in)

WELL DETAILS: MunnyNthabank State #1H						
Ground Elevation: 3184.0						
RKB Elevation: EST RKB @ 3184.0ft						
Rig Name:						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	427210.30	550419.60	32° 10' 27.887 N	104° 10' 13.359 W	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	7617.0	0.00	0.00	7617.0	0.0	0.0	0.00	0.00	0.0	
3	8517.0	90.00	359.73	8190.0	573.0	-2.7	10.00	359.73	573.0	
4	9892.6	90.00	359.73	8190.0	1948.5	-9.2	0.00	0.00	1948.5	PBHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape Point
PBHL	8190.0	1948.5	-9.3	429158.80	550410.30	

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid



Plan: Plan #1 (MunnyNthabank State #1H/Original Hole)			
Created By	Mark Freeman	Date	15 50, February 13 2008
Checked		Date	

WHS

Pathfinder Survey Report

Company: Marbob	Local Co-ordinate Reference: Well MunnyNthabank State #1H
Project: Eddy County	TVD Reference: EST RKB @ 3184 0ft
Site: S34 T24S R27E	MD Reference: EST RKB @ 3184.0ft
Well: MunnyNthabank State #1H	North Reference: Grid
Wellbore: Original Hole	Survey Calculation Method: Minimum Curvature
Design: Plan #1	Database: EDM 2003 16 Single User Db

Project: Eddy County	System Datum: Mean Sea Level
Map System: US State Plane 1927 (Exact solution)	
Geo Datum: NAD 1927 (NADCON CONUS)	
Map Zone: New Mexico East 3001	

Site: S34 T24S R27E	
Site Position:	Northing: 427,210 30ft
From: Map	Easting: 550,419.60 ft
Position Uncertainty: 0.0 ft	Slot Radius: "
	Latitude: 32° 10' 27.887 N
	Longitude: 104° 10' 13.359 W
	Grid Convergence: 0.09 °

Well: MunnyNthabank State #1H	
Well Position +N/-S 0 0 ft	Northing: 427,210 30 ft
+E/-W 0 0 ft	Easting: 550,419 60 ft
Position Uncertainty 0 0 ft	Wellhead Elevation: ft
	Latitude: 32° 10' 27 887 N
	Longitude: 104° 10' 13.359 W
	Ground Level: 3,184 0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	2/13/2008	8 24	60 12	48,875

Design: Plan #1	
Audit Notes:	
Version:	Phase: PLAN
	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)
	(ft)
	0.0
	+N/-S
	(ft)
	0 0
	+E/-W
	(ft)
	0.0
	Direction
	(°)
	359.73

Survey Tool Program	Date 2/13/2008
From	To
(ft)	(ft)
0 0	9,892 6
	Survey (Wellbore)
	Plan #1 (Original Hole)
	Tool Name
	MWD
	Description
	MWD - Standard

Planned Survey								
MD	Inc	Azi	TVD	N/S	E/W	V. Sec	DLeg	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.0	0.00	0.00	0.00	0 0	0 0	0 0	0 0	0 00
100.0	0.00	0.00	100.0	0 0	0 0	0 0	0 0	0 00
200.0	0.00	0.00	200.0	0.0	0 0	0 0	0 0	0 00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.0	0 00
400.0	0.00	0 00	400.0	0.0	0.0	0.0	0.0	0 00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.0	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.0	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.0	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.0	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.0	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0 0	0 0	0.00
1,100.0	0.00	0.00	1,100 0	0.0	0 0	0 0	0 0	0.00

WHS

Pathfinder Survey Report

Company: Marbob
Project: Eddy County
Site: S34 T24S R27E
Well: MunnyNthabank State #1H
Wellbore: Original Hole
Design: Plan #1

Local Co-ordinate Reference: Well MunnyNthabank State #1H
TVD Reference: EST RKB @ 3184.0ft
MD Reference: EST RKB @ 3184.0ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00

WHS

Pathfinder Survey Report

Company: Marbob
Project: Eddy County
Site: S34 T24S R27E
Well: MunnyNthabank State #1H
Wellbore: Original Hole
Design: Plan #1

Local Co-ordinate Reference: Well MunnyNthabank State #1H
TVD Reference: EST RKB @ 3184.0ft
MD Reference: EST RKB @ 3184.0ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00
7,617.0	0.00	0.00	7,617.0	0.0	0.0	0.0	0.00
7,650.0	3.30	359.73	7,650.0	1.0	0.0	1.0	10.00
7,700.0	8.30	359.73	7,699.7	6.0	0.0	6.0	10.00
7,750.0	13.30	359.73	7,748.8	15.4	-0.1	15.4	10.00
7,800.0	18.30	359.73	7,796.9	29.0	-0.1	29.0	10.00
7,850.0	23.30	359.73	7,843.6	46.7	-0.2	46.7	10.00
7,900.0	28.30	359.73	7,888.6	68.5	-0.3	68.5	10.00
7,950.0	33.30	359.73	7,931.6	94.1	-0.4	94.1	10.00
8,000.0	38.30	359.73	7,972.1	123.3	-0.6	123.3	10.00
8,050.0	43.30	359.73	8,009.9	156.0	-0.7	156.0	10.00
8,100.0	48.30	359.73	8,044.8	191.8	-0.9	191.8	10.00
8,150.0	53.30	359.73	8,076.4	230.5	-1.1	230.5	10.00
8,200.0	58.30	359.73	8,104.5	271.9	-1.3	271.9	10.00
8,250.0	63.30	359.73	8,128.9	315.5	-1.5	315.5	10.00
8,300.0	68.30	359.73	8,149.4	361.1	-1.7	361.1	10.00
8,350.0	73.30	359.73	8,165.8	408.3	-1.9	408.3	10.00
8,400.0	78.30	359.73	8,178.1	456.8	-2.2	456.8	10.00
8,450.0	83.30	359.73	8,186.0	506.1	-2.4	506.1	10.00
8,500.0	88.30	359.73	8,189.7	556.0	-2.6	556.0	10.00
8,517.0	90.00	359.73	8,190.0	573.0	-2.7	573.0	10.00
8,600.0	90.00	359.73	8,190.0	656.0	-3.1	656.0	0.00
8,700.0	90.00	359.73	8,190.0	755.9	-3.6	756.0	0.00
8,800.0	90.00	359.73	8,190.0	855.9	-4.0	856.0	0.00

WHS

Pathfinder Survey Report

Company: Marbob
Project: Eddy County
Site: S34 T24S R27E
Well: MunnyNthabank State #1H
Wellbore: Original Hole
Design: Plan #1

Local Co-ordinate Reference: Well MunnyNthabank State #1H
TVD Reference: EST RKB @ 3184.0ft
MD Reference: EST RKB @ 3184.0ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)
8,900.0	90.00	359.73	8,190.0	955.9	-4.5	956.0	0.00
9,000.0	90.00	359.73	8,190.0	1,055.9	-5.0	1,056.0	0.00
9,100.0	90.00	359.73	8,190.0	1,155.9	-5.4	1,156.0	0.00
9,200.0	90.00	359.73	8,190.0	1,255.9	-5.9	1,256.0	0.00
9,300.0	90.00	359.73	8,190.0	1,355.9	-6.4	1,356.0	0.00
9,400.0	90.00	359.73	8,190.0	1,455.9	-6.9	1,456.0	0.00
9,500.0	90.00	359.73	8,190.0	1,555.9	-7.3	1,556.0	0.00
9,600.0	90.00	359.73	8,190.0	1,655.9	-7.8	1,656.0	0.00
9,700.0	90.00	359.73	8,190.0	1,755.9	-8.3	1,756.0	0.00
9,800.0	90.00	359.73	8,190.0	1,855.9	-8.7	1,856.0	0.00
9,892.6	90.00	359.73	8,190.0	1,948.5	-9.2	1,948.5	0.00

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL	0.00	0.00	8,190.0	1,948.5	-9.3	429,158.80	550,410.30	32° 10' 47 171 N	104° 10' 13.433 W
- plan hits target									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,300.0	2,300.0	9 5/8"	9-5/8	9-5/8

Checked By: _____ Approved By: _____ Date: _____