

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED
2008 MAY 27 PM 4:07
State of New Mexico
Energy Minerals and Natural Resources
Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
May 27, 2004

Submit to appropriate District Office

☒ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Ridgeway Arizona Oil Corp P O Box 1110 St Johns AZ 85936		² OGRID Number 164557
³ Property Code 26839		⁴ API Number 30-003-20040
⁵ Property Name		⁶ Well No. CC #12
⁹ Proposed Pool 1		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	1S	21W		660'	South	1980'	West	Catron

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
L	36	1S	21W		2101'	South	590'	West	Catron

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code C	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 7639'
¹⁶ Multiple	¹⁷ Proposed Depth 2088' +/-	¹⁸ Formation ABO	¹⁹ Contractor Key Energy	²⁰ Spud Date 6-01-08
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic ☐ _____mils thick Clay ☐ Pit Volume: _____bbls Drilling Method: Closed-Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17"	13 3/8"	43#	80'	100 sks	Surface
12 1/2"	9 5/8"	36#	1400'	300 sks	Surface
8 3/4"	7"	23#	2500'	600 sks	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

B.O.P. Ram Type

M.I.R.U. drill out to 1400' run 9 5/8" casing, cement to surface, drill out to 2500' run 7" casing, cement to surface. Drill out to total depth 2800' +/- with air.

*See attached plan of operations for Horizontal section.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OGD approved plan ☐.

Signature:

Printed name: Thomas White

Title: Field Operations Supv

E-mail Address: revtwhite@frontiernet.net

Date: 5-21-08

Phone: 928-337-3230

OIL CONSERVATION DIVISION

Approved by:

Ed Martin

Title:

DISTRICT SUPERVISOR

Approval Date: 5/28/08

Expiration Date: 4/9/10

Conditions of Approval Attached ☐

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-003-20040	² Pool Code	³ Pool Name Cottonwood Canyon
⁴ Property Code 26839	⁵ Property Name	
⁷ OGRID No. 164557	⁸ Operator Name Ridgeway Arizona Oil Corp	⁶ Well Number CC #12 ⁹ Elevation 7639

¹⁰ Surface Location

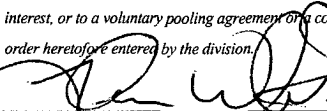
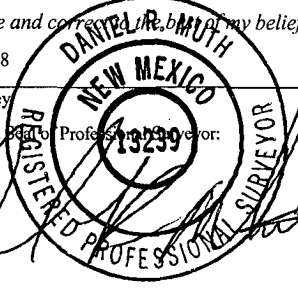
UL or lot no. N	Section 36	Township 1 S	Range 21 W	Lot Idn	Feet from the 660 FT	North/South line SOUTH	Feet from the 1980 FT	East/West line WEST	County CATRON
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	36	1 S	21 W		2101	SOUTH	590 FT	WEST	CARTON

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

36				17 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 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.  Signature Date 4-3-08 Thomas White Printed Name
○ B.H.L				18 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. Date of Survey 12 MAY 2008 Signature and Seal of Professional Surveyor:  Certificate Number NMPS NO. 13239
	S.L. 			



Enhanced Oil Resources

CC #12 (NM 1S-36-21)

CC #12 (NM 1S-36-21)

CC #12 (NM 1S-36-21)

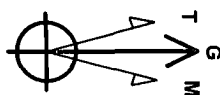
OH

Plan: Plan #1

Pathfinder X & Y Report

08 May, 2008





Azimuths to Grid North
True North: -1.13°
Magnetic North: 9.26°
Magnetic Field
Strength: 49370.99nT
Dip Angle: 61.02°
Date: 5/6/2008
Model: IGRF200510

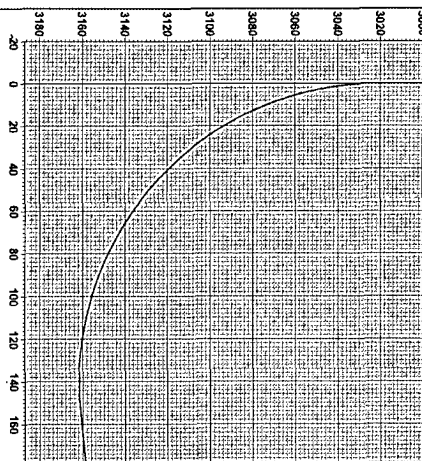
Project: CC #12 (NM 1S-36-21)
Site: CC #12 (NM 1S-36-21)
Well: CC #12 (NM 1S-36-21)
Wellbore: OH
Plan: Plan #1 (CC #12 (NM 1S-36-21)/OH)



WELL DETAILS: CC #12 (NM 1S-36-21)					
Ground Elevation: 7825.62					
RMS Elevation: RMS+14 @ 7639.62m (Key 16)					
Rig Name: Key 16					
+N/S	+E/W	Northing	Easting	Latitude	Longitude
0.00	0.00	12410091.46	2248298.75	34° 10' 4.600 N	106° 59' 23.389 W
				Sheet	

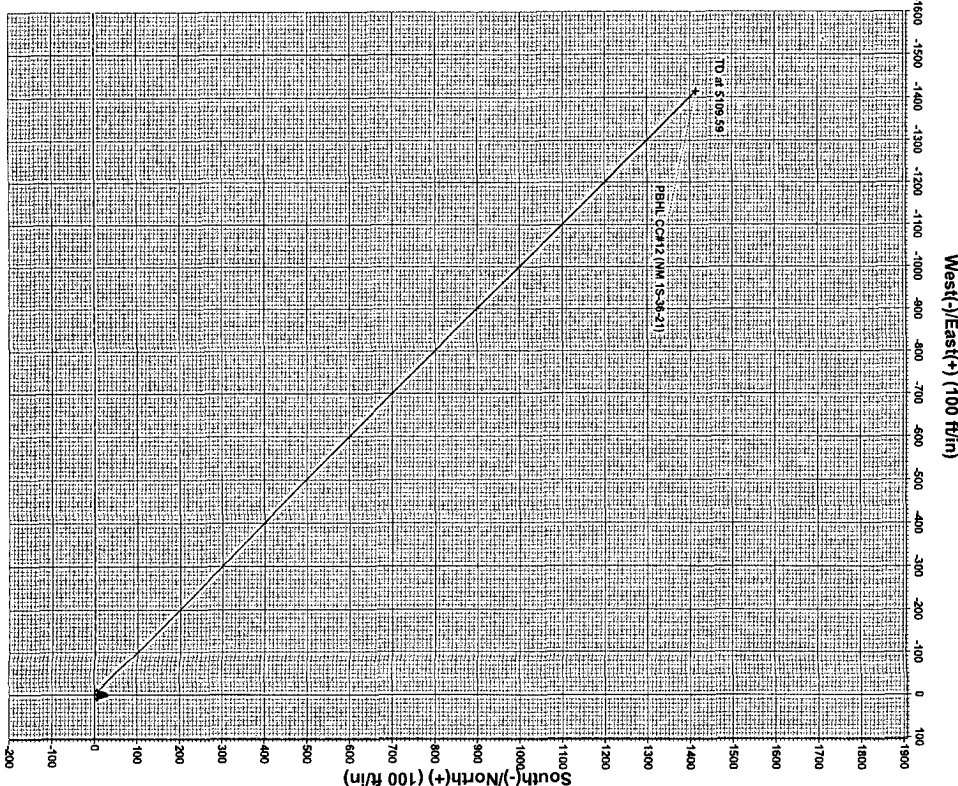
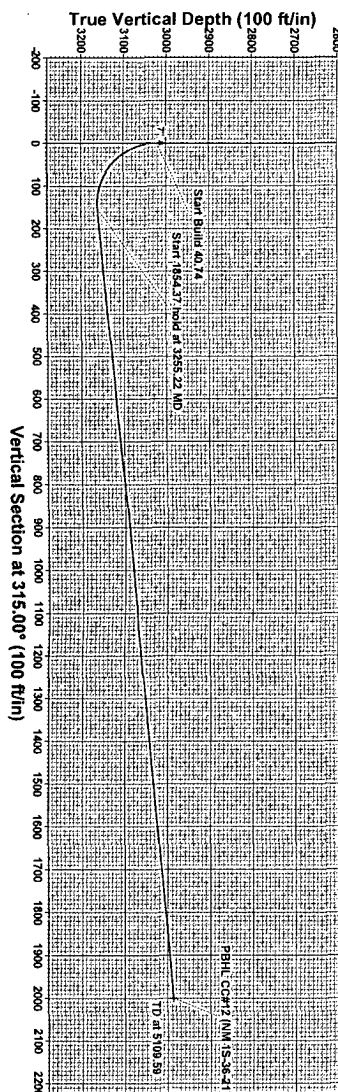
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dip Ang	TFace	VSec Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	3021.00	0.00	0.00	3021.00	0.00	0.00	0.00	0.00	453.92
3	3255.22	95.42	315.00	315.00	108.84	-108.84	40.74	315.00	2000.00
4	5109.59	95.42	315.00	2895.85	1414.21	-1414.21	0.00	0.00	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)									
Name	TVD	+N/S	+E/W	Northing	Easting	Shape			
PBHL CC#12 (NM 1S-36-21)	2895.85	1414.21	-1414.21	12411505.67	2248684.54	Point			



PROJECT DETAILS: CC #12 (NM 1S-36-21)
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD83 New Mexico - HARN
Ellipsoid: GRS 1980
Zone: Zone 12N (114 W to 108 W)
System Datum: Mean Sea Level
Local North: Grid

CASING DETAILS			
TVD	MD	Name	Size
3016.00	3016.00	7	7



Plan: Plan #1 (CC #12 (NM 1S-36-21)/OH)
Created By: Mark Freeman
Checked: _____
Date: 13/31, May 08 2008



Pathfinder
Pathfinder X & Y Report

Company:	Enhanced Oil Resources	Local Co-ordinate Reference:	Well CC #12 (NM 1S-36-21)
Project:	CC #12 (NM 1S-36-21)	TVD Reference:	RKB=14' @ 7639.62ft (Key 18)
Site:	CC #12 (NM 1S-36-21)	MD Reference:	RKB=14' @ 7639.62ft (Key 18)
Well:	CC #12 (NM 1S-36-21)	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User Db

Project	CC #12 (NM 1S-36-21)	System Datum:	Mean Sea Level
Map System:	Universal Transverse Mercator (US Survey Fee		
Geo Datum:	NAD83 New Mexico - HARN		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	CC #12 (NM 1S-36-21)	Northings:	12,410,091.46 ft	Latitude:	34° 10' 4.600 N
Site Position:	Map	Easting:	2,248,298.75 ft	Longitude:	108° 59' 23.389 W
From:		Slot Radius:	"	Grid Convergence:	1.13 °
Position Uncertainty:	0.00 ft				

Well	CC #12 (NM 1S-36-21)	Northings:	12,410,091.46 ft	Latitude:	34° 10' 4.600 N
Well Position	+N-S	Easting:	2,248,298.75 ft	Longitude:	108° 59' 23.389 W
	+E-W	Wellhead Elevation:	ft	Ground Level:	7,625.62 ft
Position Uncertainty	0.00 ft				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/8/2008	10.38	61.02	49.371

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N-S (ft)	+E-W (ft)	Direction (°)	
	0.00	0.00	0.00	315.00	

Survey Tool Program	Date	5/8/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	5,109.48	Plan #1 (OH)			



Pathfinder Pathfinder X & Y Report

Company: Enhanced Oil Resources
Project: CC #12 (NM 1S-36-21)
Site: CC #12 (NM 1S-36-21)
Well: CC #12 (NM 1S-36-21)
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference: Well CC #12 (NM 1S-36-21)
MD Reference: RKB=14' @ 7639.62ft (Key 18)
North Reference: RKB=14' @ 7639.62ft (Key 18)
Survey Calculation Method: Grid
Database: Minimum Curvature
EDM 2003.16 Single User Db

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	Dleg (°/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	-7,639.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
100.00	0.00	0.00	100.00	-7,539.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
200.00	0.00	0.00	200.00	-7,439.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
300.00	0.00	0.00	300.00	-7,339.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
400.00	0.00	0.00	400.00	-7,239.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
500.00	0.00	0.00	500.00	-7,139.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
600.00	0.00	0.00	600.00	-7,039.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
700.00	0.00	0.00	700.00	-6,939.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
800.00	0.00	0.00	800.00	-6,839.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
900.00	0.00	0.00	900.00	-6,739.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,000.00	0.00	0.00	1,000.00	-6,639.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,100.00	0.00	0.00	1,100.00	-6,539.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,200.00	0.00	0.00	1,200.00	-6,439.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,300.00	0.00	0.00	1,300.00	-6,339.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,400.00	0.00	0.00	1,400.00	-6,239.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,500.00	0.00	0.00	1,500.00	-6,139.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,600.00	0.00	0.00	1,600.00	-6,039.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,700.00	0.00	0.00	1,700.00	-5,939.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,800.00	0.00	0.00	1,800.00	-5,839.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
1,900.00	0.00	0.00	1,900.00	-5,739.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,000.00	0.00	0.00	2,000.00	-5,639.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,100.00	0.00	0.00	2,100.00	-5,539.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,200.00	0.00	0.00	2,200.00	-5,439.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,300.00	0.00	0.00	2,300.00	-5,339.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,400.00	0.00	0.00	2,400.00	-5,239.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,500.00	0.00	0.00	2,500.00	-5,139.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,600.00	0.00	0.00	2,600.00	-5,039.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75



Pathfinder Pathfinder X & Y Report

Company: Enhanced Oil Resources
Project: CC #12 (NM 1S-36-21)
Site: CC #12 (NM 1S-36-21)
Well: CC #12 (NM 1S-36-21)
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well CC #12 (NM 1S-36-21)
TVD Reference: RKB=14' @ 7639.62ft (Key 18)
MD Reference: RKB=14' @ 7639.62ft (Key 18)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NS (ft)	EW (ft)	Dlog (°/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	-4,939.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,800.00	0.00	0.00	2,800.00	-4,839.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
2,900.00	0.00	0.00	2,900.00	-4,739.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
3,000.00	0.00	0.00	3,000.00	-4,639.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
3,016.00	0.00	0.00	3,016.00	-4,623.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
7"										
3,021.00	0.00	0.00	3,021.00	-4,618.62	0.00	0.00	0.00	0.00	12,410,091.46	2,248,298.75
3,030.00	3.67	315.00	3,029.99	-4,609.63	0.20	-0.20	40.74	0.29	12,410,091.66	2,248,298.55
3,040.00	7.74	315.00	3,039.94	-4,599.68	0.91	-0.91	40.74	1.28	12,410,092.36	2,248,297.84
3,050.00	11.81	315.00	3,049.79	-4,589.83	2.11	-2.11	40.74	2.98	12,410,093.57	2,248,296.64
3,060.00	15.89	315.00	3,059.50	-4,580.12	3.80	-3.80	40.74	5.37	12,410,095.26	2,248,294.95
3,070.00	19.96	315.00	3,069.01	-4,570.61	5.98	-5.98	40.74	8.45	12,410,097.43	2,248,292.77
3,080.00	24.04	315.00	3,078.28	-4,561.34	8.62	-8.62	40.74	12.20	12,410,100.08	2,248,290.13
3,090.00	28.11	315.00	3,087.26	-4,552.36	11.73	-11.73	40.74	16.59	12,410,103.19	2,248,287.02
3,100.00	32.18	315.00	3,095.91	-4,543.71	15.28	-15.28	40.74	21.61	12,410,106.74	2,248,283.47
3,110.00	36.26	315.00	3,104.18	-4,535.44	19.26	-19.26	40.74	27.23	12,410,110.72	2,248,279.49
3,120.00	40.33	315.00	3,112.02	-4,527.60	23.64	-23.64	40.74	33.43	12,410,115.10	2,248,275.11
3,130.00	44.41	315.00	3,119.41	-4,520.21	28.40	-28.40	40.74	40.17	12,410,119.86	2,248,270.35
3,140.00	48.48	315.00	3,126.30	-4,513.32	33.53	-33.53	40.74	47.41	12,410,124.98	2,248,265.22
3,150.00	52.55	315.00	3,132.66	-4,506.96	38.98	-38.98	40.74	55.13	12,410,130.44	2,248,259.77
3,160.00	56.63	315.00	3,138.45	-4,501.17	44.74	-44.74	40.74	63.28	12,410,136.20	2,248,254.00
3,170.00	60.70	315.00	3,143.65	-4,495.97	50.78	-50.78	40.74	71.82	12,410,142.24	2,248,247.97
3,180.00	64.78	315.00	3,148.23	-4,491.39	57.07	-57.07	40.74	80.71	12,410,148.53	2,248,241.68
3,190.00	68.85	315.00	3,152.16	-4,487.46	63.57	-63.57	40.74	89.90	12,410,155.02	2,248,235.18
3,200.00	72.92	315.00	3,155.44	-4,484.18	70.25	-70.25	40.74	99.34	12,410,161.70	2,248,228.50
3,210.00	77.00	315.00	3,158.03	-4,481.59	77.07	-77.07	40.74	109.00	12,410,168.53	2,248,221.68
3,220.00	81.07	315.00	3,159.93	-4,479.69	84.01	-84.01	40.74	118.81	12,410,175.47	2,248,214.74



Pathfinder Pathfinder X & Y Report

Company: Enhanced Oil Resources
Project: CC #12 (NM 1S-36-21)
Site: CC #12 (NM 1S-36-21)
Well: CC #12 (NM 1S-36-21)
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference: Well CC #12 (NM 1S-36-21)
MD Reference: RKB=14' @ 7639.62ft (Key 18)
North Reference: RKB=14' @ 7639.62ft (Key 18)
Survey Calculation Method: Grid
Database: Minimum Curvature
EDM 2003.16 Single User Db

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	Dleg (°/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
3,230.00	85.15	315.00	3,161.13	-4,478.49	91.03	-91.03	40.74	128.74	12,410,182.49	2,248,207.72
3,240.00	89.22	315.00	3,161.62	-4,478.00	98.09	-98.09	40.74	138.72	12,410,189.55	2,248,200.66
3,250.00	93.29	315.00	3,161.41	-4,478.21	105.16	-105.16	40.74	148.72	12,410,196.62	2,248,193.59
3,255.22	95.42	315.00	3,161.01	-4,478.61	108.84	-108.84	40.74	153.92	12,410,200.30	2,248,189.91
3,300.00	95.42	315.00	3,156.78	-4,482.84	140.36	-140.36	0.00	198.50	12,410,231.82	2,248,156.39
3,400.00	95.42	315.00	3,147.33	-4,492.29	210.76	-210.76	0.00	298.06	12,410,302.22	2,248,087.99
3,500.00	95.42	315.00	3,137.89	-4,501.73	281.15	-281.15	0.00	397.61	12,410,372.61	2,248,017.60
3,600.00	95.42	315.00	3,128.44	-4,511.18	351.55	-351.55	0.00	497.16	12,410,443.01	2,247,947.20
3,700.00	95.42	315.00	3,119.00	-4,520.62	421.94	-421.94	0.00	596.72	12,410,513.40	2,247,876.81
3,800.00	95.42	315.00	3,109.55	-4,530.07	492.34	-492.34	0.00	696.27	12,410,583.80	2,247,806.41
3,900.00	95.42	315.00	3,100.11	-4,539.51	562.73	-562.73	0.00	795.82	12,410,654.19	2,247,736.02
4,000.00	95.42	315.00	3,090.66	-4,548.96	633.13	-633.13	0.00	895.37	12,410,724.58	2,247,665.62
4,100.00	95.42	315.00	3,081.21	-4,558.41	703.52	-703.52	0.00	994.93	12,410,794.98	2,247,595.23
4,200.00	95.42	315.00	3,071.77	-4,567.85	773.91	-773.91	0.00	1,094.48	12,410,865.37	2,247,524.83
4,300.00	95.42	315.00	3,062.32	-4,577.30	844.31	-844.31	0.00	1,194.03	12,410,935.77	2,247,454.44
4,400.00	95.42	315.00	3,052.88	-4,586.74	914.70	-914.70	0.00	1,293.59	12,411,006.16	2,247,384.05
4,500.00	95.42	315.00	3,043.43	-4,596.19	985.10	-985.10	0.00	1,393.14	12,411,076.56	2,247,313.65
4,600.00	95.42	315.00	3,033.99	-4,605.63	1,055.49	-1,055.49	0.00	1,492.69	12,411,146.95	2,247,243.26
4,700.00	95.42	315.00	3,024.54	-4,615.08	1,125.89	-1,125.89	0.00	1,592.25	12,411,217.35	2,247,172.86
4,800.00	95.42	315.00	3,015.10	-4,624.52	1,196.28	-1,196.28	0.00	1,691.80	12,411,287.74	2,247,102.47
4,900.00	95.42	315.00	3,005.65	-4,633.97	1,266.68	-1,266.68	0.00	1,791.35	12,411,358.14	2,247,032.07
5,000.00	95.42	315.00	2,996.20	-4,643.42	1,337.07	-1,337.07	0.00	1,890.90	12,411,428.53	2,246,961.68
5,109.58	95.42	315.00	2,985.85	-4,653.77	1,414.21	-1,414.21	0.00	2,000.00	12,411,505.67	2,246,894.54
PBHL CC#12 (NM 1S-36-21)										
5,109.59	95.42	315.00	2,985.85	-4,653.77	1,414.21	-1,414.21	0.02	2,000.00	12,411,505.67	2,246,894.53

