

MAR 12 2008

OCD-ARTESIA Form C-102

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

API Number 30-015-36189	Pool Code 97415	Pool Name Four mile Draw ; Wolfcamp (G)
Property Code 37048	Property Name PEMBINA "B" 33 STATE COM	Well Number 1H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3932'

Surface Location

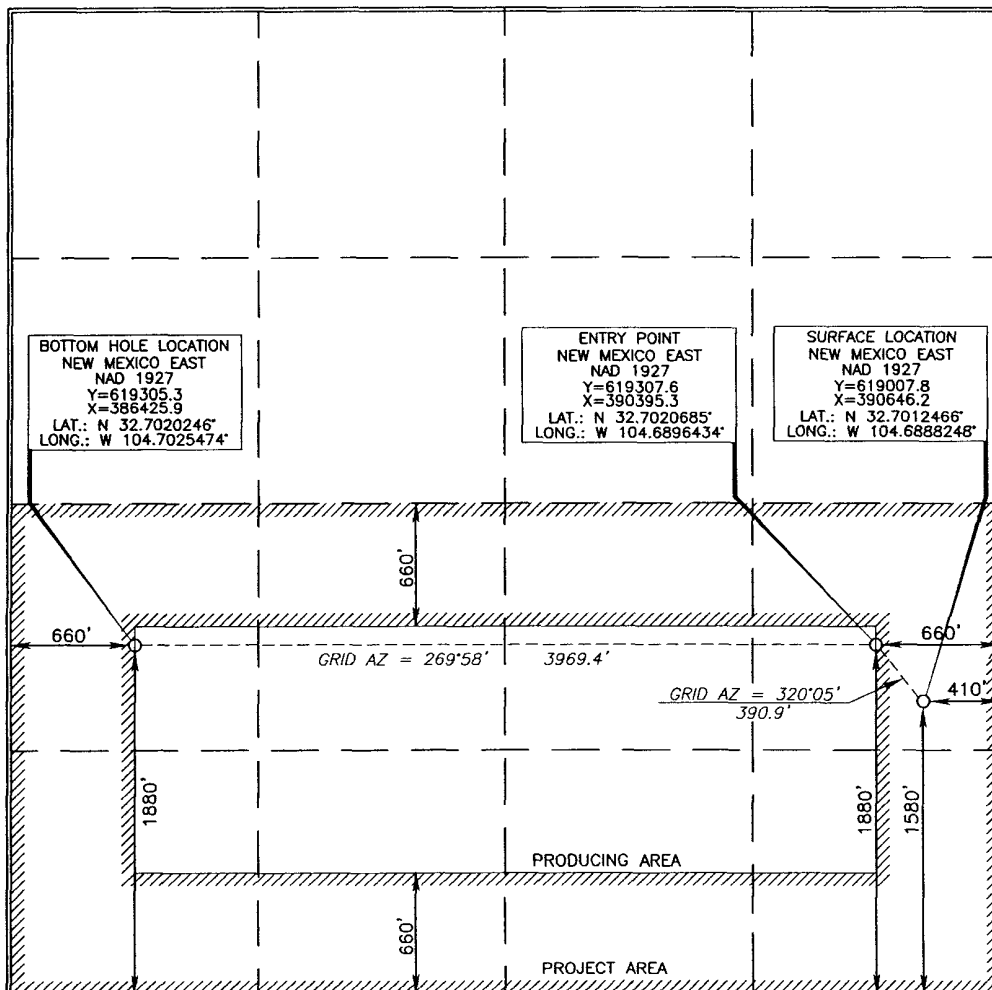
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	33	18 SOUTH	23 EAST, N.M.P.M.		1580'	SOUTH	410'	EAST	EDDY

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	33	18 SOUTH	23 EAST, N.M.P.M.		1880'	SOUTH	660'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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 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.

Donny G. Glanton 3/6/08
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Terry J. Abel 2/4/2008
Date of Survey

Terry J. Abel
Signature and Seal of Professional Surveyor

Terry J. Abel 2/4/2008
Certificate Number 15079

WO# 080115WL-C (KA)

Permit Information:

Well Name: Pembina B 33 State Com #1H

Location:

SL 1580' FSL & 410' FEL, Section 33, T-18-S, R-23-E, Eddy Co., N.M.

BHL 1880' FSL & 660' FWL, Section 33, T-18-S, R-23-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1,200'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,694'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
1,200'	345	Lead: 35:65 Poz C + 6% Bentonite+ 0.005 gps FP-6L + 0.005 pps Static Free + 10 pps LCM-1 + 2% CaCl ₂
	400	Tail: Class C + 0.005 gps FP-6L + 0.005 pps Static Free + 0.125 pps CelloFlake
8,694'	630	Lead: 50:50 Poz:Class C + 0.005 gps FP-6L + 10% Bentonite + 0.005 pps Static Free + 0.125 pps CelloFlake
	745	Tail: 50:50 Poz:Class C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.3% FL-2A + 0.2% CD-32 + 0.05% R-3

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,200'	Fresh - Gel	8.6-8.8	28-34	N/c
1,200' – 4,300'	Cut Brine	8.8-9.2	28-34	N/c
4,300' – 5,000'	Cut Brine	8.8-9.2	28-34	10-15
4,100' – 8,694'	Polymer (Lateral)	9.0-9.4	40-45	10-25



EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

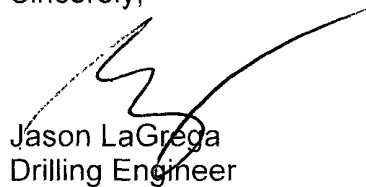
February 29, 2008

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the Pembina B 33 State Com #1H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,



Jason LaGrega
Drilling Engineer

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Pembina B 33 State Com #1H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 3951.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3951.00ft (Original Well Elev)
Site:	Pembina B 33 State Com #1H	North Reference:	Grid
Well:	Pembina B 33 State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pembina B 33 State Com #1H		
Design:	Original Plan		

Project:	Thames		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Pembina B 33 State Com #1H					
Site Position:		Northing:	619,007.80ft	Latitude:	32° 42' 4.488 N
From:	Map	Easting:	390,646.20ft	Longitude:	104° 41' 19.769 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0.19 ?

Well:	Pembina B 33 State Com #1H					
Well Position	+N/-S	0.00 ft	Northing:	619,007.80 ft	Latitude:	32° 42' 4.488 N
	+E/-W	0.00 ft	Easting:	390,646.20 ft	Longitude:	104° 41' 19.769 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,932.00 ft

Wellbore		Pembina B 33 State Com #1H			
Magnetics	Model Name	Sample Date	Declination (?)	Dip Angle (?)	Field Strength (nT)
	IGRF2005	2/29/2008	8 51	60 49	49,053

Design:	Original Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (?)
	4,521.00	0.00	0.00	274.03

Plan Sections										
Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)	TFO (?)	Target
0 00	0 00	0 00	0.00	0 00	0 00	0.00	0 00	0.00	0 00	
4,100.00	0.00	360 00	4,100.00	0 00	0.00	0 00	0.00	0.00	360 00	
4,780.55	80.00	305 00	4,580.00	231.02	-329.93	11 76	11 76	0.00	305 00	
5,114.19	90.00	269 53	4,610.00	327 19	-642.05	10.99	3 00	-10.63	-76 30	
6,114 19	90 00	269.53	4,610.00	318 99	-1,642.02	0 00	0 00	0.00	0.00	
6,180.96	92 00	269 52	4,608 83	318 43	-1,708.77	3 00	3.00	-0.01	-0 22	
8,693 99	92 00	269 52	4,521 00	297 50	-4,220.18	0.00	0.00	0 00	0.00	
8,694 12	92 00	269 52	4,521 00	297 50	-4,220.31	3 00	-2 27	-1 96	-139.15	BHL (Pembina B #

EOG Resources Inc

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Well:	Pembina B 33 State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pembina B 33 State Com #1H		
Design:	Original Plan		

Planned Survey									
Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
100 00	0 00	360 00	100 00	0 00	0 00	0 00	0 00	0 00	0 00
200 00	0 00	360 00	200 00	0 00	0 00	0 00	0 00	0 00	0 00
300 00	0 00	360 00	300 00	0 00	0 00	0 00	0 00	0 00	0 00
400 00	0 00	360 00	400 00	0 00	0 00	0 00	0 00	0 00	0 00
500 00	0 00	360 00	500 00	0 00	0 00	0 00	0 00	0 00	0 00
600 00	0 00	360 00	600 00	0 00	0 00	0 00	0 00	0 00	0 00
700 00	0 00	360 00	700 00	0 00	0 00	0 00	0 00	0 00	0 00
800 00	0 00	360 00	800 00	0 00	0 00	0 00	0 00	0 00	0 00
900 00	0 00	360 00	900 00	0 00	0 00	0 00	0 00	0 00	0 00
1,000 00	0 00	360 00	1,000 00	0 00	0 00	0 00	0 00	0 00	0 00
1,100 00	0 00	360 00	1,100 00	0 00	0 00	0 00	0 00	0 00	0 00
1,200 00	0 00	360 00	1,200 00	0 00	0 00	0 00	0 00	0 00	0 00
1,300 00	0 00	360 00	1,300 00	0 00	0 00	0 00	0 00	0 00	0 00
1,400 00	0 00	360 00	1,400 00	0 00	0 00	0 00	0 00	0 00	0 00
1,500 00	0 00	360 00	1,500 00	0 00	0 00	0 00	0 00	0 00	0 00
1,600 00	0 00	360 00	1,600 00	0 00	0 00	0 00	0 00	0 00	0 00
1,700 00	0 00	360 00	1,700 00	0 00	0 00	0 00	0 00	0 00	0 00
1,800 00	0 00	360 00	1,800 00	0 00	0 00	0 00	0 00	0 00	0 00
1,900 00	0 00	360 00	1,900 00	0 00	0 00	0 00	0 00	0 00	0 00
2,000 00	0 00	360 00	2,000 00	0 00	0 00	0 00	0 00	0 00	0 00
2,100 00	0 00	360 00	2,100 00	0 00	0 00	0 00	0 00	0 00	0 00
2,200 00	0 00	360 00	2,200 00	0 00	0 00	0 00	0 00	0 00	0 00
2,300 00	0 00	360 00	2,300 00	0 00	0 00	0 00	0 00	0 00	0 00
2,400 00	0 00	360 00	2,400 00	0 00	0 00	0 00	0 00	0 00	0 00
2,500 00	0 00	360 00	2,500 00	0 00	0 00	0 00	0 00	0 00	0 00
2,600 00	0 00	360 00	2,600 00	0 00	0 00	0 00	0 00	0 00	0 00
2,700 00	0 00	360 00	2,700 00	0 00	0 00	0 00	0 00	0 00	0 00
2,800 00	0 00	360 00	2,800 00	0 00	0 00	0 00	0 00	0 00	0 00
2,900 00	0 00	360 00	2,900 00	0 00	0 00	0 00	0 00	0 00	0 00
3,000 00	0 00	360 00	3,000 00	0 00	0 00	0 00	0 00	0 00	0 00
3,100 00	0 00	360 00	3,100 00	0 00	0 00	0 00	0 00	0 00	0 00
3,200 00	0 00	360 00	3,200 00	0 00	0 00	0 00	0 00	0 00	0 00
3,300 00	0 00	360 00	3,300 00	0 00	0 00	0 00	0 00	0 00	0 00
3,400 00	0 00	360 00	3,400 00	0 00	0 00	0 00	0 00	0 00	0 00
3,500 00	0 00	360 00	3,500 00	0 00	0 00	0 00	0 00	0 00	0 00
3,600 00	0 00	360 00	3,600 00	0 00	0 00	0 00	0 00	0 00	0 00
3,700 00	0 00	360 00	3,700 00	0 00	0 00	0 00	0 00	0 00	0 00
3,800 00	0 00	360 00	3,800 00	0 00	0 00	0 00	0 00	0 00	0 00
3,900 00	0 00	360 00	3,900 00	0 00	0 00	0 00	0 00	0 00	0 00
4,000 00	0 00	360 00	4,000 00	0 00	0 00	0 00	0 00	0 00	0 00
4,100 00	0 00	360 00	4,100 00	0 00	0 00	0 00	0 00	0 00	0 00
4,200 00	11 76	305 00	4,199 30	5 86	-8 37	8 77	11 76	11 76	0 00
4,300 00	23 51	305 00	4,294 43	23 21	-33 14	34 69	11 76	11 76	0 00
4,400 00	35 27	305 00	4,381 41	51 30	-73 27	76 70	11 76	11 76	0 00
4,500 00	47 02	305 00	4,456 59	88 98	-127 07	133 01	11 76	11 76	0 00
4,600 00	58 78	305 00	4,516 80	134 64	-192 29	201 28	11 76	11 76	0 00
4,700 00	70 53	305 00	4,559 54	186 39	-266 19	278 64	11 76	11 76	0 00
4,756 07	77 12	305 00	4,575 15	217 26	-310 28	324 78	11 76	11 76	0 00
PP (Pembina B #1H)									
4,780 55	80 00	305 00	4,580 00	231 02	-329 93	345 36	11 76	11 76	0 00
4,800 00	80 51	302 89	4,583 29	241 72	-345 83	361 97	10 99	2 64	-10 83
4,900 00	83 33	292 16	4,597 38	287 38	-433 50	452 64	10 99	2 82	-10 73

EOG Resources Inc

Planning Report

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Company:	Midland - New Mexico	TVD Reference:	WELL @ 3951 00ft (Original Well Elev)
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Well:	Pembina B 33 State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pembina B 33 State Com #1H		
Design:	Original Plan		

Planned Survey									
Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
5,000 00	86 38	281 56	4,606 38	316 20	-528 68	549 60	10 99	3 05	-10 61
5,100 00	89 55	271 02	4,609 94	327 12	-627 86	649 31	10 99	3 17	-10 53
5,114 19	90 00	269 53	4,610 00	327 19	-642 05	663 47	10 99	3 20	-10 52
5,200 00	90 00	269 53	4,610 00	326 48	-727 86	749 01	0 00	0 00	0 00
5,300 00	90 00	269 53	4,610 00	325 66	-827 86	848 71	0 00	0 00	0 00
5,400 00	90 00	269 53	4,610 00	324 84	-927 85	948 40	0 00	0 00	0 00
5,500 00	90 00	269 53	4,610 00	324 02	-1,027 85	1,048 09	0 00	0 00	0 00
5,600 00	90 00	269 53	4,610 00	323 20	-1,127 84	1,147 78	0 00	0 00	0 00
5,700 00	90 00	269 53	4,610 00	322 38	-1,227 84	1,247 47	0 00	0 00	0 00
5,800 00	90 00	269 53	4,610 00	321 56	-1,327 84	1,347 16	0 00	0 00	0 00
5,900 00	90 00	269 53	4,610 00	320 74	-1,427 83	1,446 85	0 00	0 00	0 00
6,000 00	90 00	269 53	4,610 00	319 92	-1,527 83	1,546 55	0 00	0 00	0 00
6,100 00	90 00	269 53	4,610 00	319 10	-1,627 83	1,646 24	0 00	0 00	0 00
6,114 19	90 00	269 53	4,610 00	318 99	-1,642 02	1,660 39	0 00	0 00	0 00
6,180 96	92 00	269 52	4,608 83	318 43	-1,708 77	1,726 93	3 00	3 00	-0 01
6,200 00	92 00	269 52	4,608 17	318 27	-1,727 80	1,745 90	0 00	0 00	0 00
6,300 00	92 00	269 52	4,604 67	317 44	-1,827 73	1,845 53	0 00	0 00	0 00
6,400 00	92 00	269 52	4,601 18	316 61	-1,927 67	1,945 16	0 00	0 00	0 00
6,500 00	92 00	269 52	4,597 68	315 78	-2,027 61	2,044 79	0 00	0 00	0 00
6,600 00	92 00	269 52	4,594 19	314 94	-2,127 54	2,144 42	0 00	0 00	0 00
6,700 00	92 00	269 52	4,590 69	314 11	-2,227 48	2,244 05	0 00	0 00	0 00
6,800 00	92 00	269 52	4,587 20	313 28	-2,327 41	2,343 68	0 00	0 00	0 00
6,900 00	92 00	269 52	4,583 70	312 44	-2,427 35	2,443 31	0 00	0 00	0 00
7,000 00	92 00	269 52	4,580 21	311 61	-2,527 28	2,542 94	0 00	0 00	0 00
7,100 00	92 00	269 52	4,576 71	310 78	-2,627 22	2,642 57	0 00	0 00	0 00
7,200 00	92 00	269 52	4,573 22	309 95	-2,727 15	2,742 20	0 00	0 00	0 00
7,300 00	92 00	269 52	4,569 72	309 11	-2,827 09	2,841 83	0 00	0 00	0 00
7,400 00	92 00	269 52	4,566 23	308 28	-2,927 02	2,941 46	0 00	0 00	0 00
7,500 00	92 00	269 52	4,562 73	307 45	-3,026 96	3,041 09	0 00	0 00	0 00
7,600 00	92 00	269 52	4,559 24	306 61	-3,126 90	3,140 72	0 00	0 00	0 00
7,700 00	92 00	269 52	4,555 74	305 78	-3,226 83	3,240 35	0 00	0 00	0 00
7,800 00	92 00	269 52	4,552 25	304 95	-3,326 77	3,339 97	0 00	0 00	0 00
7,900 00	92 00	269 52	4,548 75	304 12	-3,426 70	3,439 60	0 00	0 00	0 00
8,000 00	92 00	269 52	4,545 26	303 28	-3,526 64	3,539 23	0 00	0 00	0 00
8,100 00	92 00	269 52	4,541 76	302 45	-3,626 57	3,638 86	0 00	0 00	0 00
8,200 00	92 00	269 52	4,538 27	301 62	-3,726 51	3,738 49	0 00	0 00	0 00
8,300 00	92 00	269 52	4,534 77	300 78	-3,826 44	3,838 12	0 00	0 00	0 00
8,400 00	92 00	269 52	4,531 28	299 95	-3,926 38	3,937 75	0 00	0 00	0 00
8,500 00	92 00	269 52	4,527 78	299 12	-4,026 31	4,037 38	0 00	0 00	0 00
8,600 00	92 00	269 52	4,524 29	298 28	-4,126 25	4,137 01	0 00	0 00	0 00
8,693 99	92 00	269 52	4,521 00	297 50	-4,220 18	4,230 66	0 00	0 00	0 00
8,694 12	92 00	269 52	4,521 00	297 50	-4,220 31	4,230 78	3 00	-2 27	-1 96
BHL (Pembina B #1H)									

EOG Resources Inc

Planning Report

Database	EDM	Local Co-ordinate Reference:	Well Pembina B 33 State Com #1H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 3951 00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 3951 00ft (Original Well Elev)
Site:	Pembina B 33 State Com #1H	North Reference:	Grid
Well:	Pembina B 33 State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pembina B 33 State Com #1H		
Design:	Original Plan		

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(?)	(?)	(ft)	(ft)	(ft)	(ft)	(ft)	
BHL (Pembina B #1H		0 00	0 00	4,521 00	297 50	-4,220 31	619,305 30	386,425 90	32° 42' 7 289 N 104° 42' 9 170 W
- plan hits target center									
- Point									
PP (Pembina B #1H)		0 00	0 00	4,580 00	299 80	-250 90	619,307 60	390,395 30	32° 42' 7 446 N 104° 41' 22 717 W
- plan misses target center by 101 80ft at 4756 07ft MD (4575 15 TVD, 217 26 N, -310 28 E)									
- Point									

WELL DETAILS Pembina B 33 State Com #1H

+N/-S	+E/-W	Ground Level	3932.00		
0 00	0 00	Northing	Latitude	Longitude	Slot
		619007 80	32° 42' 4 488 N	104° 41' 19 769 W	
		Easting			
		390646 20			

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFac	Target	Sec
1	0 00	0 00	0.00	0 00	0 00	0 00	0.00	0.00	0 00	
2	4100.00	0.00	360 00	4100.00	0.00	0.00	0.00	360 00	0 00	
3	4780.55	80 00	305 00	4580 00	231 02	-329.93	11 76	305 00	345 36	
4	5114.19	90 00	269.53	4610 00	327.19	-642.05	10.99	-76.30	663 47	
5	6114.19	90.00	269 53	4610 00	318 99	-1642.02	0 00	0 00	1660.39	
6	6180.96	92.00	269 52	4608.83	318.43	-1708 77	3 00	-0.22	1726 93	
7	8693 99	92 00	269.52	4521 00	297 50	-4220 18	0.00	0 00	4230.66	
8	8694 12	92 00	269.52	4521.00	297.50	-4220 31	BHB (Pembina B 33 State Com #1H)		4230 78	

