

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. LC-064900
2. Name of Operator Cimarex Energy Co. of Colorado		6. If Indian, Allottee or Tribe Name
3a. Address PO Box 140907; Irving, TX 75014-0907	3b. Phone No. (include area code) 972-401-3111	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 17-15S-31E SHL 1980' FNL & 330' FWL, BHL 1980' FNL & 330' FEL		8. Well Name and No. Midway 17 Federal No. 1
		9. API Well No. 30-015-005-29034
		10. Field and Pool, or Exploratory Area Abo Wildcat
		11. County or Parish, State Chaves County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☒ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex has changed casing plans as follows:

Surface Casing: No change

Intermediate Casing: No Change

Production Casing (pilot hole): In 8 3/4" hole, run 7" 26# P-110 LTC casing from 0' to 9075.'

Cement with 615 sx Super H + 0.5% Halad-344 + 0.4% CFR-3 + 1 lb/sk Salt + 5 lb/sk Gilsonite + 0.125 lb/sk Poly-e-flake + 0.35% HR-7 (wt 13.0, yld 1.67)
TOC 3700'

Lateral: In 6 1/2" hole, run 4 1/2" 11.6# P-110 BTC/LTC casing from 0' to 13132.'

Peak Systems Iso-Pak Liner will be used for lateral - will not require cementing

Please see attached revised preliminary directional survey.

14. I hereby certify that the foregoing is true and correct	
Name (Printed/Typed) Natalie Krueger	Title Reg Analyst 1
Signature <i>Natalie Krueger</i>	Date January 29, 2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>/s/ Angel Mayes</i>	Date MAR 31 2008
Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office ROSWELL FIELD OFFICE

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)



Planned Wellpath Report

Plan #1
Page 1 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1H_SHL
Area	Chavez County, NM	Well	No. 1H
Field	(Midway)Section 17 T15S R31E	Wellbore	No. 1H PWB
Facility	Midway 17 Fed No.1H	Sidetrack from	No. 1H AWB at 0.00 MD

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	Victor Hernandez
Scale	0.999934	Report Generated	01/29/08 at 15:37:29
Wellbore last revised	01/25/08	Database/Source file	WA_Midland/No._1H_PWB

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	647815.40	734250.40	33 01 03.316N	103 51 03.968W
Facility Reference Pt			647815.40	734250.40	33 01 03.316N	103 51 03.968W
Field Reference Pt			647815.40	734250.40	33 01 03.316N	103 51 03.968W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.1H_SHL (RT) to Facility Vertical Datum	18.00 feet
Horizontal Reference Pt	Facility Center	Rig on No.1H_SHL (RT) to Mean Sea Level	4464.00 feet
Vertical Reference Pt	Rig on No.1H_SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on No.1H_SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.78°



Planned Wellpath Report

Plan #1
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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1H_SHL
Area	Chavez County, NM	Well	No. 1H
Field	(Midway)Section 17 T15S R31E	Wellbore	No. 1H PWB
Facility	Midway 17 Fed No.1H	Sidetrack from	No. 1H AWB at 0.00 MD

WELLPATH DATA (52 stations) † = interpolated/extrapolated station							
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00
8350.00	0.000	0.000	8350.00	0.00	0.00	0.00	0.00
8385.00	0.000	89.781	8385.00	0.00	0.00	0.00	0.00
8450.00†	18.616	89.781	8448.86	10.47	0.04	10.47	28.64
8550.00†	47.256	89.781	8531.92	64.27	0.25	64.27	28.64
8650.00†	75.896	89.781	8579.02	151.31	0.58	151.30	28.64
8697.89	89.613	89.781	8585.05	198.70	0.76	198.70	28.64
8750.00†	89.613	89.781	8585.40	250.81	0.96	250.81	0.00
8850.00†	89.613	89.781	8586.08	350.81	1.34	350.80	0.00
8950.00†	89.613	89.781	8586.75	450.80	1.72	450.80	0.00
9050.00†	89.613	89.781	8587.43	550.80	2.10	550.80	0.00
9150.00†	89.613	89.781	8588.10	650.80	2.49	650.79	0.00
9250.00†	89.613	89.781	8588.78	750.80	2.87	750.79	0.00
9350.00†	89.613	89.781	8589.45	850.79	3.25	850.79	0.00
9450.00†	89.613	89.781	8590.13	950.79	3.63	950.79	0.00
9550.00†	89.613	89.781	8590.81	1050.79	4.01	1050.78	0.00
9650.00†	89.613	89.781	8591.48	1150.79	4.40	1150.78	0.00
9750.00†	89.613	89.781	8592.16	1250.79	4.78	1250.78	0.00
9850.00†	89.613	89.781	8592.83	1350.78	5.16	1350.77	0.00
9950.00†	89.613	89.781	8593.51	1450.78	5.54	1450.77	0.00
10050.00†	89.613	89.781	8594.18	1550.78	5.93	1550.77	0.00
10150.00†	89.613	89.781	8594.86	1650.78	6.31	1650.76	0.00
10250.00†	89.613	89.781	8595.53	1750.77	6.69	1750.76	0.00
10350.00†	89.613	89.781	8596.21	1850.77	7.07	1850.76	0.00
10450.00†	89.613	89.781	8596.88	1950.77	7.45	1950.76	0.00
10550.00†	89.613	89.781	8597.56	2050.77	7.84	2050.75	0.00
10650.00†	89.613	89.781	8598.24	2150.76	8.22	2150.75	0.00
10750.00†	89.613	89.781	8598.91	2250.76	8.60	2250.75	0.00
10850.00†	89.613	89.781	8599.59	2350.76	8.98	2350.74	0.00
10950.00†	89.613	89.781	8600.26	2450.76	9.36	2450.74	0.00
11050.00†	89.613	89.781	8600.94	2550.76	9.75	2550.74	0.00
11150.00†	89.613	89.781	8601.61	2650.75	10.13	2650.73	0.00
11250.00†	89.613	89.781	8602.29	2750.75	10.51	2750.73	0.00
11350.00†	89.613	89.781	8602.96	2850.75	10.89	2850.73	0.00
11450.00†	89.613	89.781	8603.64	2950.75	11.27	2950.72	0.00
11550.00†	89.613	89.781	8604.31	3050.74	11.66	3050.72	0.00
11650.00†	89.613	89.781	8604.99	3150.74	12.04	3150.72	0.00
11750.00†	89.613	89.781	8605.66	3250.74	12.42	3250.72	0.00
11850.00†	89.613	89.781	8606.34	3350.74	12.80	3350.71	0.00
11950.00†	89.613	89.781	8607.02	3450.74	13.18	3450.71	0.00



Planned Wellpath Report

Plan #1
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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1H_SHL
Area	Chavez County, NM	Well	No. 1H
Field	(Midway)Section 17 T15S R31E	Wellbore	No. 1H PWB
Facility	Midway 17 Fed No.1H	Sidetrack from	No. 1H AWB at 0.00 MD

WELLPATH DATA (52 stations) † = interpolated/extrapolated station							
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
12050.00†	89.613	89.781	8607.69	3550.73	13.57	3550.71	0.00
12150.00†	89.613	89.781	8608.37	3650.73	13.95	3650.70	0.00
12250.00†	89.613	89.781	8609.04	3750.73	14.33	3750.70	0.00
12350.00†	89.613	89.781	8609.72	3850.73	14.71	3850.70	0.00
12450.00†	89.613	89.781	8610.39	3950.72	15.09	3950.69	0.00
12550.00†	89.613	89.781	8611.07	4050.72	15.48	4050.69	0.00
12650.00†	89.613	89.781	8611.74	4150.72	15.86	4150.69	0.00
12750.00†	89.613	89.781	8612.42	4250.72	16.24	4250.69	0.00
12850.00†	89.613	89.781	8613.09	4350.71	16.62	4350.68	0.00
12950.00†	89.613	89.781	8613.77	4450.71	17.01	4450.68	0.00
13050.00†	89.613	89.781	8614.45	4550.71	17.39	4550.68	0.00
13132.14	89.613	89.781	8615.00	4632.85	17.70	4632.81	0.00

HOLE & CASING SECTIONS Ref Wellbore: No. 1H PWB Ref Wellpath: Plan #1									
String/Diameter	Start MD [feet]	End MD [feet]	Interval [feet]	Start TVD [feet]	End TVD [feet]	Start N/S [feet]	Start E/W [feet]	End N/S [feet]	End E/W [feet]
17.5in Open Hole	0.00	340.00	340.00	0.00	340.00	0.00	0.00	0.00	0.00
13.375in Casing Surface	0.00	340.00	340.00	0.00	340.00	0.00	0.00	0.00	0.00
12.25in Open Hole	340.00	3950.00	3610.00	340.00	3950.00	0.00	0.00	0.00	0.00
9.625in Casing	0.00	3950.00	3950.00	0.00	3950.00	0.00	0.00	0.00	0.00
8.75in Open Hole	3950.00	8350.00	4400.00	3950.00	8350.00	0.00	0.00	0.00	0.00
7in Liner	0.00	8350.00	8350.00	0.00	8350.00	0.00	0.00	0.00	0.00
6.125in Open Hole	8350.00	13132.14	4782.14	8350.00	8615.00	0.00	0.00	17.70	4632.81

TARGETS									
Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
1) #1H BHL	13132.14	8615.00	17.70	4632.81	652447.90	734268.10	-33.01 03.27N	-103.50 09.56W	point



Cimarex Energy Co.

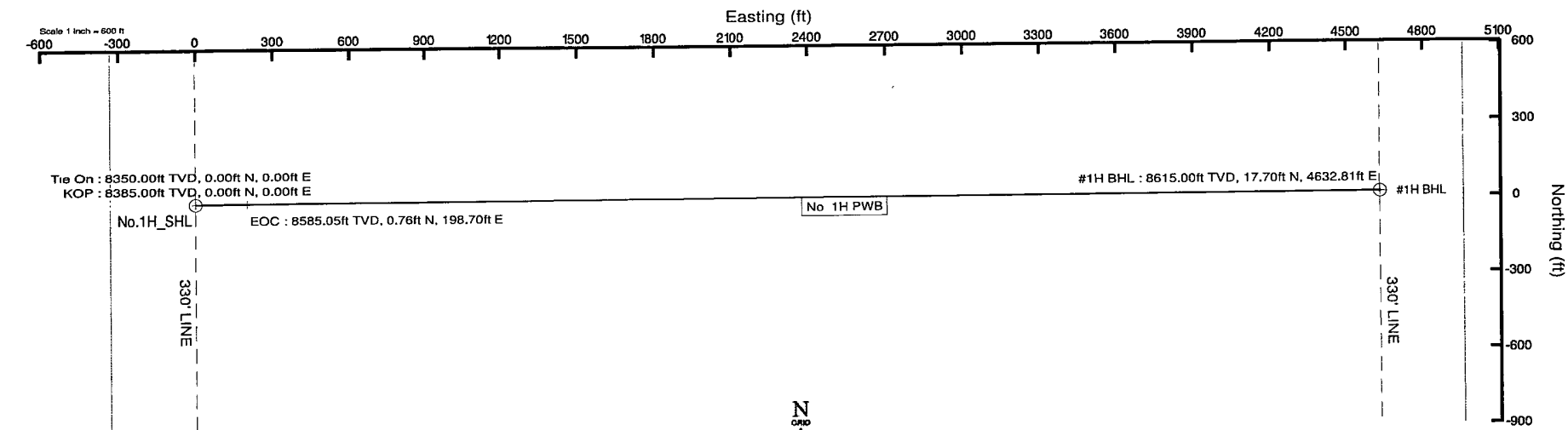
Location: Chavez County, NM
Field: (Midway) Section 17 T15S R31E
Facility: Midway 17 Fed No.1H

Slot: No.1H_SHL
Well: No. 1H
Wellbore: No. 1H_PWB

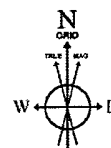


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	8350.00	0.000	0.000	8350.00	0.00	0.00	0.00	0.00
KOP	8385.00	0.000	89.781	8385.00	0.00	0.00	0.00	0.00
EOC	8697.89	89.613	89.781	8585.05	0.76	198.70	28.64	198.70
#1H BHL	13132.14	89.613	89.781	8615.00	17.70	4632.81	0.00	4632.85

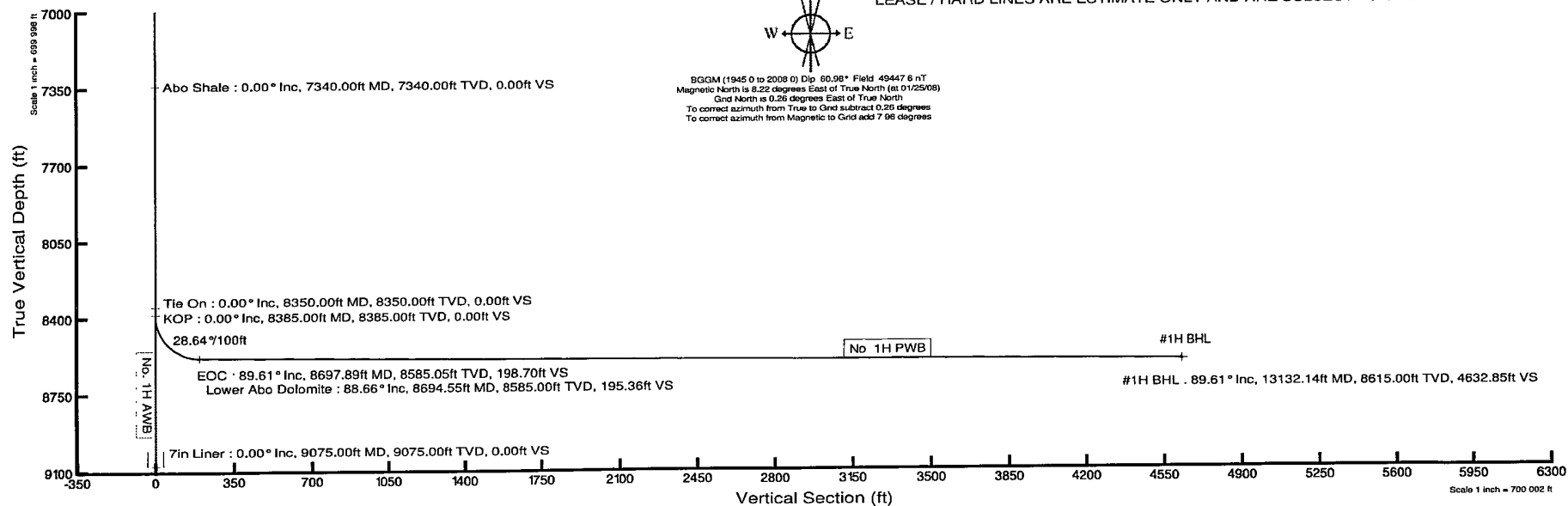
Plus reference wellbore is Plan #1	
True vertical depths are referenced to Rig on No. 1H_SHL (RT)	Grid System: NAD83 / T15S, R31E, S15E, Eastern Zone (2001) US feet
Measures depths are referenced to Rig on No. 1H_SHL (RT)	North Reference: Grid north
Rig on No. 1H_SHL (RT) to Mean Sea Level: 4664 feet	Scale: True distance
Mean Sea Level to Mean Sea Level (Facility - Midway 17 Fed No. 1H) - 4.48 feet	Depths are in feet
Coordinates are in feet referenced to Facility Center	Created by: Victor HERNANDEZ on 1/29/2004



LEASE / HARD LINES ARE ESTIMATE ONLY AND ARE SUBJECT TO CUSTOMER APPROVAL.



BGGM (1945.0 to 2008.0) Dip: 60.98° Field: 49447.8 nT
Magnetic North is 8.22 degrees East of True North (at 01/25/08)
Grid North is 0.26 degrees East of True North
To correct azimuth from True to Grid subtract 0.26 degrees
To correct azimuth from Magnetic to Grid add 7.96 degrees



Azimuth 89.78° with reference 0.00 N, 0.00 E from wellhead

PROPOSED WELLPATH REPORT (CSV version)

Prepared by Baker Hughes INTEQ
Software System: WellArchitect™ 1.2

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.
Area	Chavez County, NM
Field	(Midway)Section 17 T15S R31E
Facility	Midway 17 Fed No 1H
Slot	No.1H_SHL
Well	No. 1H
Wellbore	No 1H PWB
Wellpath	Plan #1
Sidetrack	No. 1H AWB at 0.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
North Reference	Grid
Scale	0.999934
Wellbore Last Revised	1/25/2008
Software System	WellArchitect™
User	Victor Hernandez
Report Generated	01/29/08 at 15:37:28
DataBase/Source file	WA_Midland/ev23.xml

WELLPATH LOCATION

	Local North [ft]	Local East [ft]	Grid East [ft]	Grid North [ft]	Latitude [°]	Longitude [°]
Slot Location	0	0	647815.4	734250.4	33 01 03.316N	103 51 03.968W
Facility Reference Pt			647815.4	734250.4	33 01 03.316N	103 51 03.968W
Field Reference Pt			647815.4	734250.4	33 01 03.316N	103 51 03.968W

WELLPATH DATUM

Calculation method	Minimum curvature
Horizontal Reference Point	Facility Center
Vertical Reference Point	Rig on No.1H_SHL (RT)
MD Reference Point	Rig on No.1H_SHL (RT)
Field Vertical Reference	Mean Sea Level
Rig on No.1H_SHL (RT) to Facility Vertical Datum	18.00 feet
Rig on No.1H_SHL (RT) to Mean Sea Level	4464.00 feet
Facility Vertical Datum to Mud Line (Facility)	0.00 feet
Section Origin X	0.00 feet
Section Origin Y	0.00 feet
Section Azimuth	89.78°

WELLPATH DATA Wellbore: No. 1H PWB Wellpath: Plan #1 † = interpolated/extrapolated station									
	MD feet	Inclination deg	Azimuth deg	TVD feet	Vert Sect feet	North feet	East feet	DLS deg/100ft	Tgt#
	0	0	0	0	0	0	0	0	0
	8350	0	0	8350	0	0	0	0	0
	8385	0	89.781	8385	0	0	0	0	0
†	8450	18.616	89.781	8448.86	10.47	0.04	10.47		28.64
†	8550	47.256	89.781	8531.92	64.27	0.25	64.27		28.64
†	8650	75.896	89.781	8579.02	151.31	0.58	151.3		28.64
	8697.89	89.613	89.781	8585.05	198.7	0.76	198.7		28.64
†	8750	89.613	89.781	8585.4	250.81	0.96	250.81		0
†	8850	89.613	89.781	8586.08	350.81	1.34	350.8		0
†	8950	89.613	89.781	8586.75	450.8	1.72	450.8		0
†	9050	89.613	89.781	8587.43	550.8	2.1	550.8		0
†	9150	89.613	89.781	8588.1	650.8	2.49	650.79		0
†	9250	89.613	89.781	8588.78	750.8	2.87	750.79		0
†	9350	89.613	89.781	8589.45	850.79	3.25	850.79		0
†	9450	89.613	89.781	8590.13	950.79	3.63	950.79		0
†	9550	89.613	89.781	8590.81	1050.79	4.01	1050.78		0
†	9650	89.613	89.781	8591.48	1150.79	4.4	1150.78		0
†	9750	89.613	89.781	8592.16	1250.79	4.78	1250.78		0
†	9850	89.613	89.781	8592.83	1350.78	5.16	1350.77		0
†	9950	89.613	89.781	8593.51	1450.78	5.54	1450.77		0
†	10050	89.613	89.781	8594.18	1550.78	5.93	1550.77		0
†	10150	89.613	89.781	8594.86	1650.78	6.31	1650.76		0
†	10250	89.613	89.781	8595.53	1750.77	6.69	1750.76		0
†	10350	89.613	89.781	8596.21	1850.77	7.07	1850.76		0
†	10450	89.613	89.781	8596.88	1950.77	7.45	1950.76		0
†	10550	89.613	89.781	8597.56	2050.77	7.84	2050.75		0
†	10650	89.613	89.781	8598.24	2150.76	8.22	2150.75		0
†	10750	89.613	89.781	8598.91	2250.76	8.6	2250.75		0
†	10850	89.613	89.781	8599.59	2350.76	8.98	2350.74		0
†	10950	89.613	89.781	8600.26	2450.76	9.36	2450.74		0
†	11050	89.613	89.781	8600.94	2550.76	9.75	2550.74		0
†	11150	89.613	89.781	8601.61	2650.75	10.13	2650.73		0
†	11250	89.613	89.781	8602.29	2750.75	10.51	2750.73		0
†	11350	89.613	89.781	8602.96	2850.75	10.89	2850.73		0
†	11450	89.613	89.781	8603.64	2950.75	11.27	2950.72		0
†	11550	89.613	89.781	8604.31	3050.74	11.66	3050.72		0
†	11650	89.613	89.781	8604.99	3150.74	12.04	3150.72		0
†	11750	89.613	89.781	8605.66	3250.74	12.42	3250.72		0
†	11850	89.613	89.781	8606.34	3350.74	12.8	3350.71		0
†	11950	89.613	89.781	8607.02	3450.74	13.18	3450.71		0
†	12050	89.613	89.781	8607.69	3550.73	13.57	3550.71		0
†	12150	89.613	89.781	8608.37	3650.73	13.95	3650.7		0
†	12250	89.613	89.781	8609.04	3750.73	14.33	3750.7		0
†	12350	89.613	89.781	8609.72	3850.73	14.71	3850.7		0
†	12450	89.613	89.781	8610.39	3950.72	15.09	3950.69		0
†	12550	89.613	89.781	8611.07	4050.72	15.48	4050.69		0
†	12650	89.613	89.781	8611.74	4150.72	15.86	4150.69		0
†	12750	89.613	89.781	8612.42	4250.72	16.24	4250.69		0
†	12850	89.613	89.781	8613.09	4350.71	16.62	4350.68		0
†	12950	89.613	89.781	8613.77	4450.71	17.01	4450.68		0
†	13050	89.613	89.781	8614.45	4550.71	17.39	4550.68		0
†	13132.14	89.613	89.781	8615	4632.85	17.7	4632.81		0

HOLE AND CASING SECTIONS		Ref Wellbore: No. 1H PWB		Ref Wellpath: Plan #1						
String/Diameter	Start MD feet	End MD feet	Interval feet	Start TVD feet	End TVD feet	Start N/S	End N/S	Start E/W	End E/W	
17.5in Open Hole		0	340	340	0	340	0	0	0	0
13.375in Casing Surface		0	340	340	0	340	0	0	0	0
12.25in Open Hole	340	3950	3610	340	3950	0	0	0	0	0
9.625in Casing		0	3950	3950	0	3950	0	0	0	0
8.75in Open Hole	3950	8350	4400	3950	8350	0	0	0	0	0
7in Liner		0	8350	8350	0	8350	0	0	0	0
6.125in Open Hole	8350	13132.14	4782.14	8350	8615	0	0	17.7	4632.81	

TARGETS

Name	MD feet	TVD feet	North feet	East feet	Grid East us survey feet	Grid North us survey feet	Latitude DegMinSec	Longitude DegMinSec	Shape
(1) #1H BHL	13132.14		8615	17.7	4632.81	652447.9	734268.1	33 01 03.277N 103 50 09.562W	point