

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996**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 ☐ OtherJUL 25 2008
OCD-ARTESIA2. Name of Operator
Cimarex Energy Co. of Colorado3a. Address
PO Box 140907; Irving, TX 75014-09073b. Phone No. (include area code)
972-401-31114. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1340' FNL & 990' FWL
23-25S-26E

5. Lease Serial No.

NM-94839

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Pending

8. Well Name and No.

Pintail 23 Federal Com No. 1

9. API Well No.

30-015-33431

10. Field and Pool, or Exploratory Area

Cottonwood Draw; Morrow

11. County or Parish, State

Eddy 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 Propose to☒ Change Plans☐ Plug and Abandon☐ Temporarily Abandon

complete horizontally in

☐ Convert to Injection☐ Plug Back☐ Water Disposal

Cisco-Canyon

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.)

Surface (@ 216') and intermediate (@ 3431') casing set in 05/05. In 06-05, reached TD (12350') and plugged back to surface with 6 cement plugs. Submitted re-entry permit for Morrow completion in 11/06 - permit apporved 12/15/06. Submitted permit extension request 11/09/07, granted on 01/21/08 - permit to expire 12/15/09.

Cimarex requests permission to change from a proposed vertical Morrow completion to a proposed horizontal Cisco-Canyon completion as outlined below:

Clean out cement plugs at the surface, 165'-265', 3350'-3475', 5300'-5450', 8410'-8650' to TD top of cement plug @ 11230'. Pull up and set kick off plug to kick off at 10270'. Drill curve at 25 deg/100' and land curve in the Cisco Canyon. Drill well to TD (MD 14052' and TVD 10537') and cement 4½" 11.6# N-80 LTC csg in place.

Cement with Lead 620 sx Interfill H + 0.3% HR-601 + 5 lb/sx Gilsonite + 0.125 lb/sx Poly-E-Flake + mixed at 11.9 ppg. Yield 2.47 cf/sx. Tail 480 sx Super H + 0.5% Halad ® 344 + 0.25% D-Air 3000 + 0.4% CFR-3 + 1 lb/sx Salt + 5 lb/sx Gilsonite + 0.125 lb/sx Poly-E-Flake + 0.35% HR-7 mixed at 13.2 ppg. Yield 1.61 cf/sx. Estimated TOC at 4,000 ft.

Frac in 5 stages.

Please see attached revised plat and preliminary directional survey.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Natalie Krueger

Signature

Title

Regulatory Analyst

Date

June 3, 2008

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

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)

Accepted for record - NMOCD

DISTRICT I

1625 N. FRENCH DR., HOHDS, NM 86240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 86210

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 Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-33431	Pool Code 97354	Pool Name Cottonwood Draw; Upper Penn (Gas)
Property Code	Property Name PINTAIL 23 FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3330'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	23	25-S	26-E		1340	NORTH	990	WEST	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
A	23	25-S	26-E		1110	NORTH	660	EAST	EDDY
Dedicated Acres 320	Joint or Infill	Consolidation Code P	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 hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Zeno Farris</u> 06-03-08 Signature Date Printed Name
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 Surveyed: MARCH 04, 2004 Signature & Seal of Professional Surveyor: <u>Ronald Eidson</u> Certificate No. GARY EIDSON 12641 RONALD EIDSON 3239

Cimarex Energy Company

HALLIBURTON

Sperry Drilling Services

Project: Eddy County, NM
Site: Pintail 23 Federal Com
Well: #1
Wellbore: Wellbore #1
Plan: Plan #1 (#1/Wellbore #1)
Rig: TBD

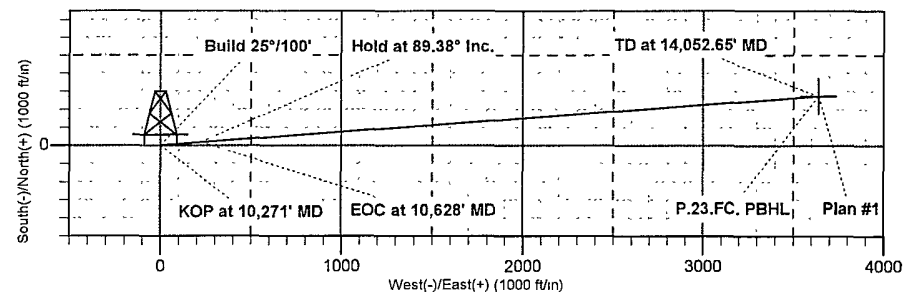


Surface Location:

US State Plane 1927 (Exact solution)
 New Mexico East 3001
 Elevation GL 3,330' + KB 18' @ 3348.00ft (TBD)
 Northing 406937.20 Easting 520132.30 Latitude 32° 7' 7.572" N Longitude 104° 16' 5.899" W

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSoc	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10271.00	0.00	0.00	10271.00	0.00	0.00	0.00	0.00	0.00	KOP at 10,271' MD
10628.53	89.38	85.69	10500.17	17.05	226.08	25.00	85.69	226.72	EOC at 10,628' MD
14052.65	89.38	85.69	10537.00	274.50	3640.30	0.00	0.00	3650.63	TD at 14,052.65' MD

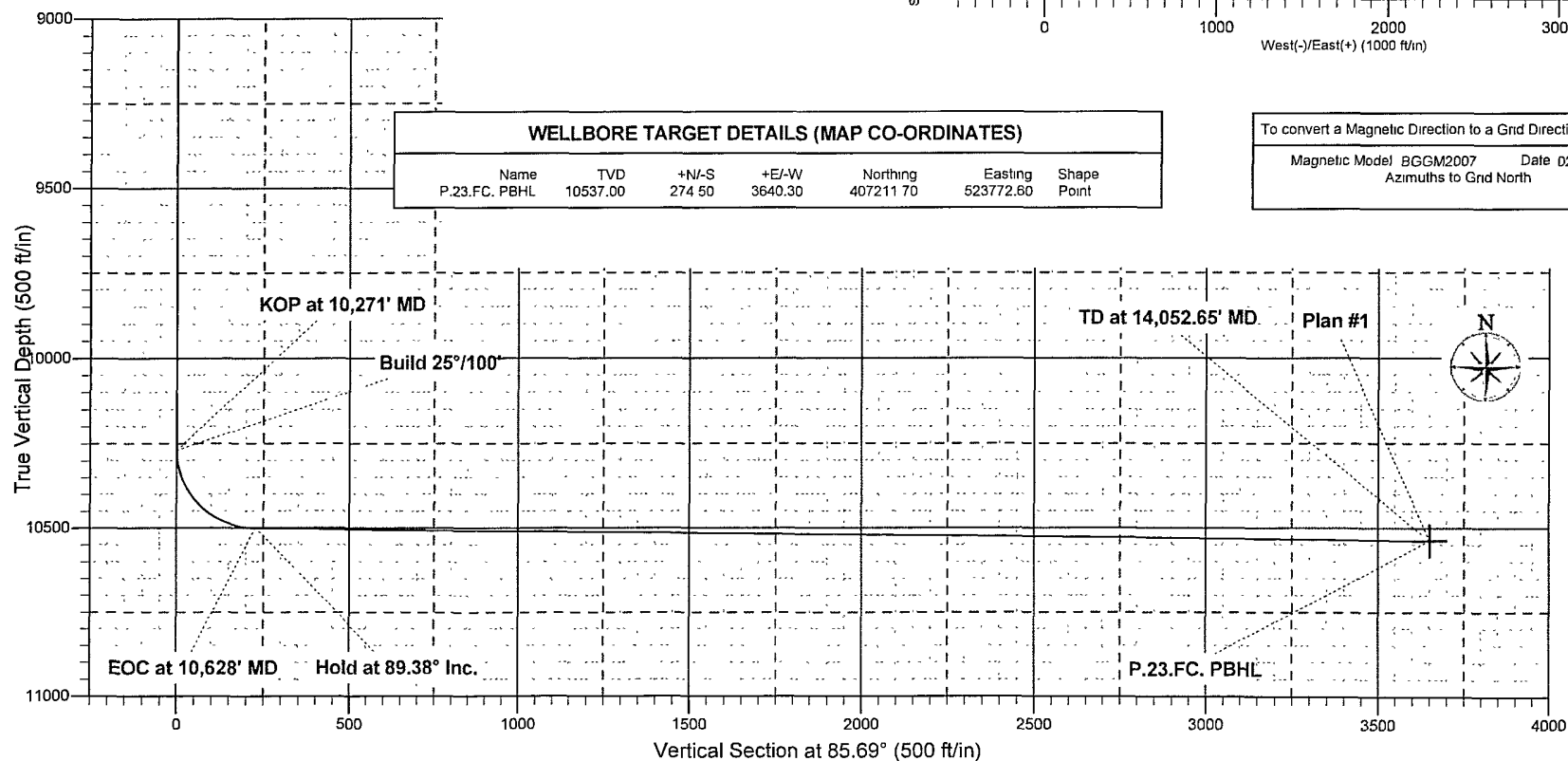


WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape Point
P.23.FC. PBHL	10537.00	274.50	3640.30	407211.70	523772.60	

To convert a Magnetic Direction to a Grid Direction, Add 8.27°

Magnetic Model BGGM2007 Date 02-May-08
 Azimuths to Grid North



Cimarex Energy Company

**Eddy County, NM
Pintail 23 Federal Com
#1**

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

02 June, 2008

Well Coordinates: 406,937.20 N, 520,132.30 E (32° 07' 07.57" N, 104° 16' 05.90" W)
Ground Level: 3,330.00 ft

Local Coordinate Origin:	Centered on Well #1
Viewing Datum:	GL 3,330' + KB 18' @ 3348.00ft (TBD)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - U.S. Survey Feet

Version: 2003.16 Build: 42B

HALLIBURTON

HALLIBURTON

Plan Report for #1 - Plan #1

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)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.00	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	0.00	0.00	180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.00	0.00	0.00	210.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.00	0.00	0.00	240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.00	0.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.00	0.00	0.00	330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.00	0.00	0.00	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
390.00	0.00	0.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
420.00	0.00	0.00	420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
480.00	0.00	0.00	480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
510.00	0.00	0.00	510.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
540.00	0.00	0.00	540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
570.00	0.00	0.00	570.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
630.00	0.00	0.00	630.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
660.00	0.00	0.00	660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
690.00	0.00	0.00	690.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
720.00	0.00	0.00	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
810.00	0.00	0.00	810.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
840.00	0.00	0.00	840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
870.00	0.00	0.00	870.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
930.00	0.00	0.00	930.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
960.00	0.00	0.00	960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
990.00	0.00	0.00	990.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,020.00	0.00	0.00	1,020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,080.00	0.00	0.00	1,080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,110.00	0.00	0.00	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,140.00	0.00	0.00	1,140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,170.00	0.00	0.00	1,170.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,230.00	0.00	0.00	1,230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,260.00	0.00	0.00	1,260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,290.00	0.00	0.00	1,290.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,320.00	0.00	0.00	1,320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,380.00	0.00	0.00	1,380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,410.00	0.00	0.00	1,410.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,440.00	0.00	0.00	1,440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,470.00	0.00	0.00	1,470.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,530.00	0.00	0.00	1,530.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,560.00	0.00	0.00	1,560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,590.00	0.00	0.00	1,590.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,620.00	0.00	0.00	1,620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,650.00	0.00	0.00	1,650.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,680.00	0.00	0.00	1,680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,710.00	0.00	0.00	1,710.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,740.00	0.00	0.00	1,740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #1 - Plan #1**

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)	Toolface Azimuth (°)
1,770.00	0.00	0.00	1,770.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,830.00	0.00	0.00	1,830.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,860.00	0.00	0.00	1,860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,890.00	0.00	0.00	1,890.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,920.00	0.00	0.00	1,920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,950.00	0.00	0.00	1,950.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,980.00	0.00	0.00	1,980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,010.00	0.00	0.00	2,010.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,040.00	0.00	0.00	2,040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,070.00	0.00	0.00	2,070.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,130.00	0.00	0.00	2,130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,160.00	0.00	0.00	2,160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,190.00	0.00	0.00	2,190.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,220.00	0.00	0.00	2,220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,250.00	0.00	0.00	2,250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,280.00	0.00	0.00	2,280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,310.00	0.00	0.00	2,310.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,340.00	0.00	0.00	2,340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,370.00	0.00	0.00	2,370.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,430.00	0.00	0.00	2,430.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,460.00	0.00	0.00	2,460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,490.00	0.00	0.00	2,490.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,520.00	0.00	0.00	2,520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,550.00	0.00	0.00	2,550.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,580.00	0.00	0.00	2,580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,610.00	0.00	0.00	2,610.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,640.00	0.00	0.00	2,640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,670.00	0.00	0.00	2,670.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,730.00	0.00	0.00	2,730.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,760.00	0.00	0.00	2,760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,790.00	0.00	0.00	2,790.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,820.00	0.00	0.00	2,820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,850.00	0.00	0.00	2,850.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,880.00	0.00	0.00	2,880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,910.00	0.00	0.00	2,910.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,940.00	0.00	0.00	2,940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,970.00	0.00	0.00	2,970.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,030.00	0.00	0.00	3,030.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,060.00	0.00	0.00	3,060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,090.00	0.00	0.00	3,090.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,120.00	0.00	0.00	3,120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,150.00	0.00	0.00	3,150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,180.00	0.00	0.00	3,180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,210.00	0.00	0.00	3,210.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,240.00	0.00	0.00	3,240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,270.00	0.00	0.00	3,270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,330.00	0.00	0.00	3,330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,360.00	0.00	0.00	3,360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,390.00	0.00	0.00	3,390.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,420.00	0.00	0.00	3,420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,450.00	0.00	0.00	3,450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,480.00	0.00	0.00	3,480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,510.00	0.00	0.00	3,510.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,540.00	0.00	0.00	3,540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #1 - Plan #1**

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)	Toolface Azimuth (°)
3,570.00	0.00	0.00	3,570.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,630.00	0.00	0.00	3,630.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,660.00	0.00	0.00	3,660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,690.00	0.00	0.00	3,690.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,720.00	0.00	0.00	3,720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,750.00	0.00	0.00	3,750.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,780.00	0.00	0.00	3,780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,810.00	0.00	0.00	3,810.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,840.00	0.00	0.00	3,840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,870.00	0.00	0.00	3,870.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,930.00	0.00	0.00	3,930.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,960.00	0.00	0.00	3,960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,990.00	0.00	0.00	3,990.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,020.00	0.00	0.00	4,020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,050.00	0.00	0.00	4,050.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,080.00	0.00	0.00	4,080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,110.00	0.00	0.00	4,110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,140.00	0.00	0.00	4,140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,170.00	0.00	0.00	4,170.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,230.00	0.00	0.00	4,230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,260.00	0.00	0.00	4,260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,290.00	0.00	0.00	4,290.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,320.00	0.00	0.00	4,320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,350.00	0.00	0.00	4,350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,380.00	0.00	0.00	4,380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,410.00	0.00	0.00	4,410.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,440.00	0.00	0.00	4,440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,470.00	0.00	0.00	4,470.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,530.00	0.00	0.00	4,530.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,560.00	0.00	0.00	4,560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,590.00	0.00	0.00	4,590.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,620.00	0.00	0.00	4,620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,650.00	0.00	0.00	4,650.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,680.00	0.00	0.00	4,680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,710.00	0.00	0.00	4,710.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,740.00	0.00	0.00	4,740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,770.00	0.00	0.00	4,770.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,830.00	0.00	0.00	4,830.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,860.00	0.00	0.00	4,860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,890.00	0.00	0.00	4,890.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,920.00	0.00	0.00	4,920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,950.00	0.00	0.00	4,950.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,980.00	0.00	0.00	4,980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,010.00	0.00	0.00	5,010.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,040.00	0.00	0.00	5,040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,070.00	0.00	0.00	5,070.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,130.00	0.00	0.00	5,130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,160.00	0.00	0.00	5,160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,190.00	0.00	0.00	5,190.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,220.00	0.00	0.00	5,220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,250.00	0.00	0.00	5,250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,280.00	0.00	0.00	5,280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,310.00	0.00	0.00	5,310.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,340.00	0.00	0.00	5,340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #1 - Plan #1**

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)	Toolface Azimuth (°)
5,370.00	0.00	0.00	5,370.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,430.00	0.00	0.00	5,430.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,460.00	0.00	0.00	5,460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,490.00	0.00	0.00	5,490.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,520.00	0.00	0.00	5,520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,550.00	0.00	0.00	5,550.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,580.00	0.00	0.00	5,580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,610.00	0.00	0.00	5,610.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,640.00	0.00	0.00	5,640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,670.00	0.00	0.00	5,670.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,730.00	0.00	0.00	5,730.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,760.00	0.00	0.00	5,760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,790.00	0.00	0.00	5,790.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,820.00	0.00	0.00	5,820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,850.00	0.00	0.00	5,850.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,880.00	0.00	0.00	5,880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,910.00	0.00	0.00	5,910.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,940.00	0.00	0.00	5,940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,970.00	0.00	0.00	5,970.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,030.00	0.00	0.00	6,030.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,060.00	0.00	0.00	6,060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,090.00	0.00	0.00	6,090.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,120.00	0.00	0.00	6,120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,150.00	0.00	0.00	6,150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,180.00	0.00	0.00	6,180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,210.00	0.00	0.00	6,210.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,240.00	0.00	0.00	6,240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,270.00	0.00	0.00	6,270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,330.00	0.00	0.00	6,330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,360.00	0.00	0.00	6,360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,390.00	0.00	0.00	6,390.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,420.00	0.00	0.00	6,420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,450.00	0.00	0.00	6,450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,480.00	0.00	0.00	6,480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,510.00	0.00	0.00	6,510.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,540.00	0.00	0.00	6,540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,570.00	0.00	0.00	6,570.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,630.00	0.00	0.00	6,630.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,660.00	0.00	0.00	6,660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,690.00	0.00	0.00	6,690.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,720.00	0.00	0.00	6,720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,750.00	0.00	0.00	6,750.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,780.00	0.00	0.00	6,780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,810.00	0.00	0.00	6,810.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,840.00	0.00	0.00	6,840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,870.00	0.00	0.00	6,870.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,930.00	0.00	0.00	6,930.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,960.00	0.00	0.00	6,960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,990.00	0.00	0.00	6,990.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,020.00	0.00	0.00	7,020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,050.00	0.00	0.00	7,050.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,080.00	0.00	0.00	7,080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,110.00	0.00	0.00	7,110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,140.00	0.00	0.00	7,140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #1 - Plan #1**

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)	Toolface Azimuth (°)
7,170.00	0.00	0.00	7,170.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,230.00	0.00	0.00	7,230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,260.00	0.00	0.00	7,260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,290.00	0.00	0.00	7,290.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,320.00	0.00	0.00	7,320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,350.00	0.00	0.00	7,350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,380.00	0.00	0.00	7,380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,410.00	0.00	0.00	7,410.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,440.00	0.00	0.00	7,440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,470.00	0.00	0.00	7,470.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,530.00	0.00	0.00	7,530.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,560.00	0.00	0.00	7,560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,590.00	0.00	0.00	7,590.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,620.00	0.00	0.00	7,620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,650.00	0.00	0.00	7,650.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,680.00	0.00	0.00	7,680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,710.00	0.00	0.00	7,710.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,740.00	0.00	0.00	7,740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,770.00	0.00	0.00	7,770.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,830.00	0.00	0.00	7,830.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,860.00	0.00	0.00	7,860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,890.00	0.00	0.00	7,890.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,920.00	0.00	0.00	7,920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,950.00	0.00	0.00	7,950.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,980.00	0.00	0.00	7,980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,010.00	0.00	0.00	8,010.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,040.00	0.00	0.00	8,040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,070.00	0.00	0.00	8,070.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,130.00	0.00	0.00	8,130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,160.00	0.00	0.00	8,160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,190.00	0.00	0.00	8,190.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,220.00	0.00	0.00	8,220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,250.00	0.00	0.00	8,250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,280.00	0.00	0.00	8,280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,310.00	0.00	0.00	8,310.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,340.00	0.00	0.00	8,340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,370.00	0.00	0.00	8,370.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,430.00	0.00	0.00	8,430.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,460.00	0.00	0.00	8,460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,490.00	0.00	0.00	8,490.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,520.00	0.00	0.00	8,520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,550.00	0.00	0.00	8,550.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,580.00	0.00	0.00	8,580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,610.00	0.00	0.00	8,610.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,640.00	0.00	0.00	8,640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,670.00	0.00	0.00	8,670.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,730.00	0.00	0.00	8,730.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,760.00	0.00	0.00	8,760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,790.00	0.00	0.00	8,790.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,820.00	0.00	0.00	8,820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,850.00	0.00	0.00	8,850.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,880.00	0.00	0.00	8,880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,910.00	0.00	0.00	8,910.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,940.00	0.00	0.00	8,940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #1 - Plan #1**

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)	Toolface Azimuth (°)
8,970.00	0.00	0.00	8,970.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,030.00	0.00	0.00	9,030.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,060.00	0.00	0.00	9,060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,090.00	0.00	0.00	9,090.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,120.00	0.00	0.00	9,120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,150.00	0.00	0.00	9,150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,180.00	0.00	0.00	9,180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,210.00	0.00	0.00	9,210.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,240.00	0.00	0.00	9,240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,270.00	0.00	0.00	9,270.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,330.00	0.00	0.00	9,330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,360.00	0.00	0.00	9,360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,390.00	0.00	0.00	9,390.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,420.00	0.00	0.00	9,420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,450.00	0.00	0.00	9,450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,480.00	0.00	0.00	9,480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,510.00	0.00	0.00	9,510.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,540.00	0.00	0.00	9,540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,570.00	0.00	0.00	9,570.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,630.00	0.00	0.00	9,630.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,660.00	0.00	0.00	9,660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,690.00	0.00	0.00	9,690.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,720.00	0.00	0.00	9,720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,750.00	0.00	0.00	9,750.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,780.00	0.00	0.00	9,780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,810.00	0.00	0.00	9,810.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,840.00	0.00	0.00	9,840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,870.00	0.00	0.00	9,870.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,930.00	0.00	0.00	9,930.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,960.00	0.00	0.00	9,960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,990.00	0.00	0.00	9,990.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,020.00	0.00	0.00	10,020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,050.00	0.00	0.00	10,050.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,080.00	0.00	0.00	10,080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,110.00	0.00	0.00	10,110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,140.00	0.00	0.00	10,140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,170.00	0.00	0.00	10,170.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,230.00	0.00	0.00	10,230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,260.00	0.00	0.00	10,260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,271.00	0.00	0.00	10,271.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP at 10,271' MD - Build 25°/100'										
10,290.00	4.75	85.69	10,289.98	0.06	0.78	0.79	25.00	25.00	0.00	85.69
10,320.00	12.25	85.69	10,319.63	0.39	5.20	5.22	25.00	25.00	0.00	0.00
10,350.00	19.75	85.69	10,348.44	1.01	13.44	13.48	25.00	25.00	0.00	0.00
10,380.00	27.25	85.69	10,375.94	1.91	25.36	25.44	25.00	25.00	0.00	0.00
10,410.00	34.75	85.69	10,401.63	3.07	40.76	40.88	25.00	25.00	0.00	0.00
10,440.00	42.25	85.69	10,425.10	4.48	59.37	59.54	25.00	25.00	0.00	0.00
10,470.00	49.75	85.69	10,445.92	6.10	80.87	81.10	25.00	25.00	0.00	0.00
10,500.00	57.25	85.69	10,463.75	7.91	104.90	105.20	25.00	25.00	0.00	0.00
10,530.00	64.75	85.69	10,478.29	9.88	131.05	131.42	25.00	25.00	0.00	0.00
10,560.00	72.25	85.69	10,489.27	11.98	158.86	159.31	25.00	25.00	0.00	0.00
10,590.00	79.75	85.69	10,496.53	14.17	187.87	188.40	25.00	25.00	0.00	0.00
10,620.00	87.25	85.69	10,499.92	16.41	217.57	218.19	25.00	25.00	0.00	0.00
10,628.53	89.38	85.69	10,500.17	17.05	226.07	226.71	25.00	25.00	0.00	0.00

Plan Report for #1 - Plan #1

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)	Toolface Azimuth (°)
EOC at 10,628' MD - Hold at 89.38° Inc.										
10,650.00	89.38	85.69	10,500.40	18.66	247.48	248.18	0.01	0.01	0.00	0.00
10,680.00	89.38	85.69	10,500.72	20.92	277.39	278.18	0.00	0.00	0.00	0.00
10,710.00	89.38	85.69	10,501.05	23.17	307.31	308.18	0.00	0.00	0.00	0.00
10,740.00	89.38	85.69	10,501.37	25.43	337.22	338.18	0.00	0.00	0.00	0.00
10,770.00	89.38	85.69	10,501.69	27.68	367.13	368.17	0.00	0.00	0.00	0.00
10,800.00	89.38	85.69	10,502.01	29.94	397.05	398.17	0.00	0.00	0.00	0.00
10,830.00	89.38	85.69	10,502.34	32.20	426.96	428.17	0.00	0.00	0.00	0.00
10,860.00	89.38	85.69	10,502.66	34.45	456.87	458.17	0.00	0.00	0.00	0.00
10,890.00	89.38	85.69	10,502.98	36.71	486.79	488.17	0.00	0.00	0.00	0.00
10,920.00	89.38	85.69	10,503.30	38.96	516.70	518.17	0.00	0.00	0.00	0.00
10,950.00	89.38	85.69	10,503.63	41.22	546.61	548.16	0.00	0.00	0.00	0.00
10,980.00	89.38	85.69	10,503.95	43.47	576.53	578.16	0.00	0.00	0.00	0.00
11,010.00	89.38	85.69	10,504.27	45.73	606.44	608.16	0.00	0.00	0.00	0.00
11,040.00	89.38	85.69	10,504.60	47.98	636.35	638.16	0.00	0.00	0.00	0.00
11,070.00	89.38	85.69	10,504.92	50.24	666.27	668.16	0.00	0.00	0.00	0.00
11,100.00	89.38	85.69	10,505.24	52.50	696.18	698.16	0.00	0.00	0.00	0.00
11,130.00	89.38	85.69	10,505.56	54.75	726.09	728.15	0.00	0.00	0.00	0.00
11,160.00	89.38	85.69	10,505.89	57.01	756.01	758.15	0.00	0.00	0.00	0.00
11,190.00	89.38	85.69	10,506.21	59.26	785.92	788.15	0.00	0.00	0.00	0.00
11,220.00	89.38	85.69	10,506.53	61.52	815.83	818.15	0.00	0.00	0.00	0.00
11,250.00	89.38	85.69	10,506.85	63.77	845.75	848.15	0.00	0.00	0.00	0.00
11,280.00	89.38	85.69	10,507.18	66.03	875.66	878.15	0.00	0.00	0.00	0.00
11,310.00	89.38	85.69	10,507.50	68.29	905.57	908.14	0.00	0.00	0.00	0.00
11,340.00	89.38	85.69	10,507.82	70.54	935.49	938.14	0.00	0.00	0.00	0.00
11,370.00	89.38	85.69	10,508.15	72.80	965.40	968.14	0.00	0.00	0.00	0.00
11,400.00	89.38	85.69	10,508.47	75.05	995.31	998.14	0.00	0.00	0.00	0.00
11,430.00	89.38	85.69	10,508.79	77.31	1,025.23	1,028.14	0.00	0.00	0.00	0.00
11,460.00	89.38	85.69	10,509.11	79.56	1,055.14	1,058.14	0.00	0.00	0.00	0.00
11,490.00	89.38	85.69	10,509.44	81.82	1,085.05	1,088.13	0.00	0.00	0.00	0.00
11,520.00	89.38	85.69	10,509.76	84.08	1,114.97	1,118.13	0.00	0.00	0.00	0.00
11,550.00	89.38	85.69	10,510.08	86.33	1,144.88	1,148.13	0.00	0.00	0.00	0.00
11,580.00	89.38	85.69	10,510.40	88.59	1,174.79	1,178.13	0.00	0.00	0.00	0.00
11,610.00	89.38	85.69	10,510.73	90.84	1,204.71	1,208.13	0.00	0.00	0.00	0.00
11,640.00	89.38	85.69	10,511.05	93.10	1,234.62	1,238.12	0.00	0.00	0.00	0.00
11,670.00	89.38	85.69	10,511.37	95.35	1,264.53	1,268.12	0.00	0.00	0.00	0.00
11,700.00	89.38	85.69	10,511.69	97.61	1,294.45	1,298.12	0.00	0.00	0.00	0.00
11,730.00	89.38	85.69	10,512.02	99.86	1,324.36	1,328.12	0.00	0.00	0.00	0.00
11,760.00	89.38	85.69	10,512.34	102.12	1,354.27	1,358.12	0.00	0.00	0.00	0.00
11,790.00	89.38	85.69	10,512.66	104.38	1,384.19	1,388.12	0.00	0.00	0.00	0.00
11,820.00	89.38	85.69	10,512.99	106.63	1,414.10	1,418.11	0.00	0.00	0.00	0.00
11,850.00	89.38	85.69	10,513.31	108.89	1,444.01	1,448.11	0.00	0.00	0.00	0.00
11,880.00	89.38	85.69	10,513.63	111.14	1,473.93	1,478.11	0.00	0.00	0.00	0.00
11,910.00	89.38	85.69	10,513.95	113.40	1,503.84	1,508.11	0.00	0.00	0.00	0.00
11,940.00	89.38	85.69	10,514.28	115.65	1,533.75	1,538.11	0.00	0.00	0.00	0.00
11,970.00	89.38	85.69	10,514.60	117.91	1,563.67	1,568.11	0.00	0.00	0.00	0.00
12,000.00	89.38	85.69	10,514.92	120.17	1,593.58	1,598.10	0.00	0.00	0.00	0.00
12,030.00	89.38	85.69	10,515.24	122.42	1,623.49	1,628.10	0.00	0.00	0.00	0.00
12,060.00	89.38	85.69	10,515.57	124.68	1,653.41	1,658.10	0.00	0.00	0.00	0.00
12,090.00	89.38	85.69	10,515.89	126.93	1,683.32	1,688.10	0.00	0.00	0.00	0.00
12,120.00	89.38	85.69	10,516.21	129.19	1,713.23	1,718.10	0.00	0.00	0.00	0.00
12,150.00	89.38	85.69	10,516.53	131.44	1,743.15	1,748.10	0.00	0.00	0.00	0.00
12,180.00	89.38	85.69	10,516.86	133.70	1,773.06	1,778.09	0.00	0.00	0.00	0.00
12,210.00	89.38	85.69	10,517.18	135.95	1,802.97	1,808.09	0.00	0.00	0.00	0.00
12,240.00	89.38	85.69	10,517.50	138.21	1,832.89	1,838.09	0.00	0.00	0.00	0.00
12,270.00	89.38	85.69	10,517.83	140.47	1,862.80	1,868.09	0.00	0.00	0.00	0.00
12,300.00	89.38	85.69	10,518.15	142.72	1,892.71	1,898.09	0.00	0.00	0.00	0.00
12,330.00	89.38	85.69	10,518.47	144.98	1,922.63	1,928.08	0.00	0.00	0.00	0.00
12,360.00	89.38	85.69	10,518.79	147.23	1,952.54	1,958.08	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #1 - Plan #1**

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)	Toolface Azimuth (°)
12,390.00	89.38	85.69	10,519.12	149.49	1,982.45	1,988.08	0.00	0.00	0.00	0.00
12,420.00	89.38	85.69	10,519.44	151.74	2,012.37	2,018.08	0.00	0.00	0.00	0.00
12,450.00	89.38	85.69	10,519.76	154.00	2,042.28	2,048.08	0.00	0.00	0.00	0.00
12,480.00	89.38	85.69	10,520.08	156.26	2,072.19	2,078.08	0.00	0.00	0.00	0.00
12,510.00	89.38	85.69	10,520.41	158.51	2,102.11	2,108.07	0.00	0.00	0.00	0.00
12,540.00	89.38	85.69	10,520.73	160.77	2,132.02	2,138.07	0.00	0.00	0.00	0.00
12,570.00	89.38	85.69	10,521.05	163.02	2,161.93	2,168.07	0.00	0.00	0.00	0.00
12,600.00	89.38	85.69	10,521.38	165.28	2,191.85	2,198.07	0.00	0.00	0.00	0.00
12,630.00	89.38	85.69	10,521.70	167.53	2,221.76	2,228.07	0.00	0.00	0.00	0.00
12,660.00	89.38	85.69	10,522.02	169.79	2,251.67	2,258.07	0.00	0.00	0.00	0.00
12,690.00	89.38	85.69	10,522.34	172.05	2,281.59	2,288.06	0.00	0.00	0.00	0.00
12,720.00	89.38	85.69	10,522.67	174.30	2,311.50	2,318.06	0.00	0.00	0.00	0.00
12,750.00	89.38	85.69	10,522.99	176.56	2,341.41	2,348.06	0.00	0.00	0.00	0.00
12,780.00	89.38	85.69	10,523.31	178.81	2,371.33	2,378.06	0.00	0.00	0.00	0.00
12,810.00	89.38	85.69	10,523.63	181.07	2,401.24	2,408.06	0.00	0.00	0.00	0.00
12,840.00	89.38	85.69	10,523.96	183.32	2,431.15	2,438.06	0.00	0.00	0.00	0.00
12,870.00	89.38	85.69	10,524.28	185.58	2,461.07	2,468.05	0.00	0.00	0.00	0.00
12,900.00	89.38	85.69	10,524.60	187.83	2,490.98	2,498.05	0.00	0.00	0.00	0.00
12,930.00	89.38	85.69	10,524.92	190.09	2,520.89	2,528.05	0.00	0.00	0.00	0.00
12,960.00	89.38	85.69	10,525.25	192.35	2,550.81	2,558.05	0.00	0.00	0.00	0.00
12,990.00	89.38	85.69	10,525.57	194.60	2,580.72	2,588.05	0.00	0.00	0.00	0.00
13,020.00	89.38	85.69	10,525.89	196.86	2,610.63	2,618.04	0.00	0.00	0.00	0.00
13,050.00	89.38	85.69	10,526.22	199.11	2,640.55	2,648.04	0.00	0.00	0.00	0.00
13,080.00	89.38	85.69	10,526.54	201.37	2,670.46	2,678.04	0.00	0.00	0.00	0.00
13,110.00	89.38	85.69	10,526.86	203.62	2,700.37	2,708.04	0.00	0.00	0.00	0.00
13,140.00	89.38	85.69	10,527.18	205.88	2,730.29	2,738.04	0.00	0.00	0.00	0.00
13,170.00	89.38	85.69	10,527.51	208.14	2,760.20	2,768.04	0.00	0.00	0.00	0.00
13,200.00	89.38	85.69	10,527.83	210.39	2,790.11	2,798.03	0.00	0.00	0.00	0.00
13,230.00	89.38	85.69	10,528.15	212.65	2,820.03	2,828.03	0.00	0.00	0.00	0.00
13,260.00	89.38	85.69	10,528.47	214.90	2,849.94	2,858.03	0.00	0.00	0.00	0.00
13,290.00	89.38	85.69	10,528.80	217.16	2,879.85	2,888.03	0.00	0.00	0.00	0.00
13,320.00	89.38	85.69	10,529.12	219.41	2,909.77	2,918.03	0.00	0.00	0.00	0.00
13,350.00	89.38	85.69	10,529.44	221.67	2,939.68	2,948.03	0.00	0.00	0.00	0.00
13,380.00	89.38	85.69	10,529.76	223.92	2,969.59	2,978.02	0.00	0.00	0.00	0.00
13,410.00	89.38	85.69	10,530.09	226.18	2,999.51	3,008.02	0.00	0.00	0.00	0.00
13,440.00	89.38	85.69	10,530.41	228.44	3,029.42	3,038.02	0.00	0.00	0.00	0.00
13,470.00	89.38	85.69	10,530.73	230.69	3,059.33	3,068.02	0.00	0.00	0.00	0.00
13,500.00	89.38	85.69	10,531.06	232.95	3,089.25	3,098.02	0.00	0.00	0.00	0.00
13,530.00	89.38	85.69	10,531.38	235.20	3,119.16	3,128.02	0.00	0.00	0.00	0.00
13,560.00	89.38	85.69	10,531.70	237.46	3,149.07	3,158.01	0.00	0.00	0.00	0.00
13,590.00	89.38	85.69	10,532.02	239.71	3,178.99	3,188.01	0.00	0.00	0.00	0.00
13,620.00	89.38	85.69	10,532.35	241.97	3,208.90	3,218.01	0.00	0.00	0.00	0.00
13,650.00	89.38	85.69	10,532.67	244.23	3,238.81	3,248.01	0.00	0.00	0.00	0.00
13,680.00	89.38	85.69	10,532.99	246.48	3,268.73	3,278.01	0.00	0.00	0.00	0.00
13,710.00	89.38	85.69	10,533.31	248.74	3,298.64	3,308.00	0.00	0.00	0.00	0.00
13,740.00	89.38	85.69	10,533.64	250.99	3,328.55	3,338.00	0.00	0.00	0.00	0.00
13,770.00	89.38	85.69	10,533.96	253.25	3,358.47	3,368.00	0.00	0.00	0.00	0.00
13,800.00	89.38	85.69	10,534.28	255.50	3,388.38	3,398.00	0.00	0.00	0.00	0.00
13,830.00	89.38	85.69	10,534.61	257.76	3,418.29	3,428.00	0.00	0.00	0.00	0.00
13,860.00	89.38	85.69	10,534.93	260.02	3,448.21	3,458.00	0.00	0.00	0.00	0.00
13,890.00	89.38	85.69	10,535.25	262.27	3,478.12	3,487.99	0.00	0.00	0.00	0.00
13,920.00	89.38	85.69	10,535.57	264.53	3,508.03	3,517.99	0.00	0.00	0.00	0.00
13,950.00	89.38	85.69	10,535.90	266.78	3,537.95	3,547.99	0.00	0.00	0.00	0.00
13,980.00	89.38	85.69	10,536.22	269.04	3,567.86	3,577.99	0.00	0.00	0.00	0.00
14,010.00	89.38	85.69	10,536.54	271.29	3,597.77	3,607.99	0.00	0.00	0.00	0.00
14,040.00	89.38	85.69	10,536.86	273.55	3,627.69	3,637.99	0.00	0.00	0.00	0.00
14,052.65	89.38	85.69	10,537.00	274.50	3,640.30	3,650.63	0.00	0.00	0.00	0.00

Plan Report for #1 - Plan #1

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
10,271.00	10,271.00	0.00	0.00	KOP at 10,271' MD
10,271.00	10,271.00	0.00	0.00	Build 25°/100'
10,628.53	10,500.17	17.05	226.07	EOC at 10,628' MD
10,628.53	10,500.17	17.05	226.07	Hold at 89.38° Inc.
14,052.65	10,537.00	274.50	3,640.30	TD at 14,052.65' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	P.23.FC. PBHL	85.69	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	14,052.65	Plan #1	MWD

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
P.23.FC. PBHL	10,537.00	274.50	3,640.30	Point

HALLIBURTON

North Reference Sheet for Pintail 23 Federal Com - #1 - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 3,330' + KB 18' @ 3348.00ft (TBD). Northing and Easting are relative to #1

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°

False Easting: 500,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99990956

Grid Coordinates of Well: 406,937.20 ft N, 520,132.30 ft E

Geographical Coordinates of Well: 32° 07' 07.57" N, 104° 16' 05.90" W

Grid Convergence at Surface is: 0.03°

Based upon Minimum Curvature type calculations, at a Measured Depth of 14,052.65ft
the Bottom Hole Displacement is 3,650.63ft in the Direction of 85.69° (Grid).

Magnetic Convergence at surface is: -8.27° (2 May 2008, , BGGM2007)

