



30-005-63766
S4MD "C" Fed 1H
Survey Report

Survey Certification Sheet

JAN 17 2008
OCD-ARTESIA

Company: Conquest Energy Services LP
Well Name: South Four Mile Draw C Federal #1-H
SURFACE LOCATION
Chavez County, New Mexico
Sec. 22-T6S-R22E
660' From North Line, 890' From West Line
BOTTOM HOLE LOCATION @
4502' Measured Depth
2811' True Vertical Depth
2637' From North Line, 1017' From West Line
Job Number: CDD-WYL0706D008

Surveyed from a depth of 0' - 4502'
Type of survey: MWD (Measurement While Drilling)
Directional Supervisor: John Stringfellow

To whom it may concern,
I attached surveys and in pdf format of the South Four Mile Draw C Federal #1-H

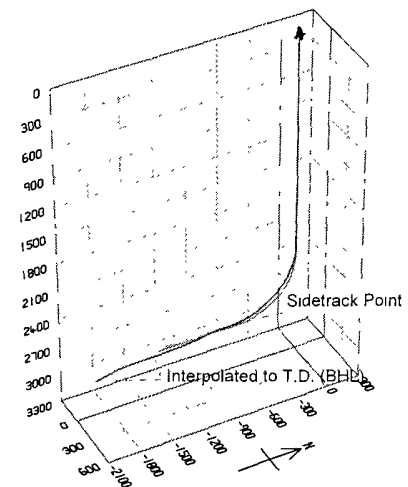
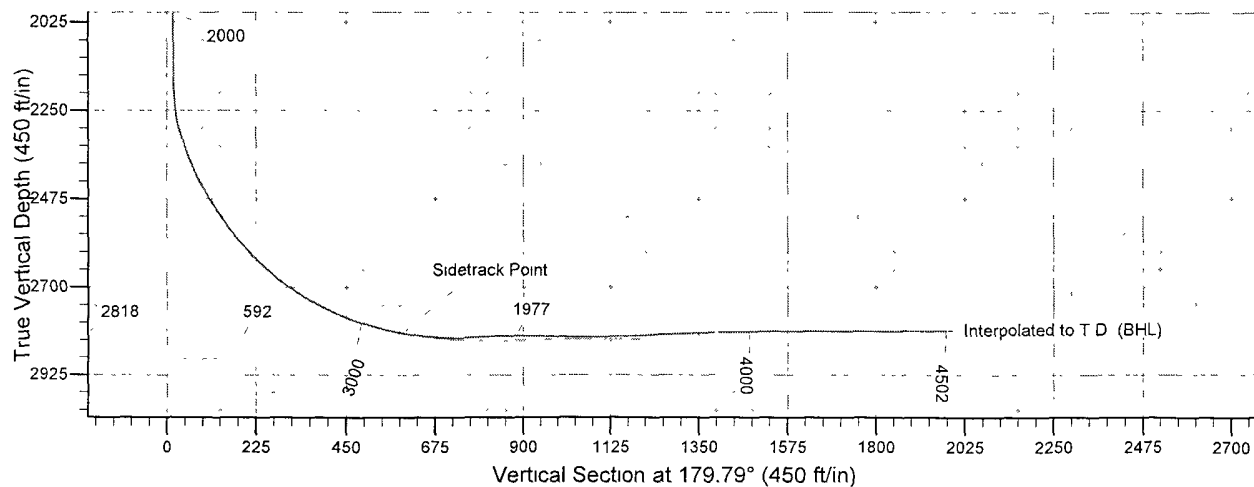
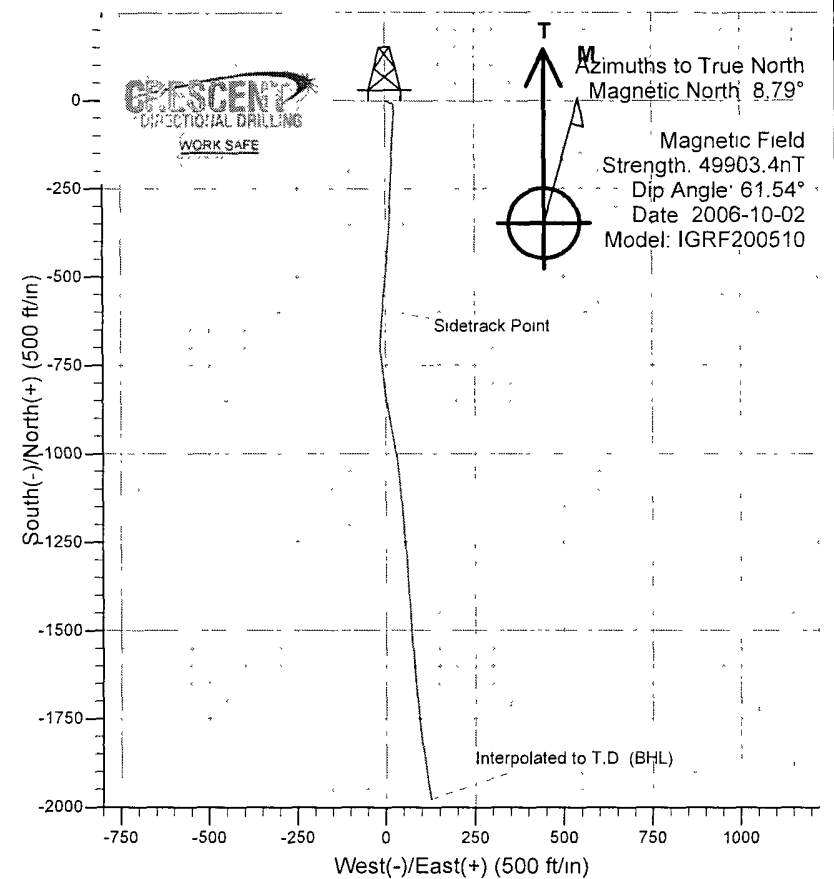
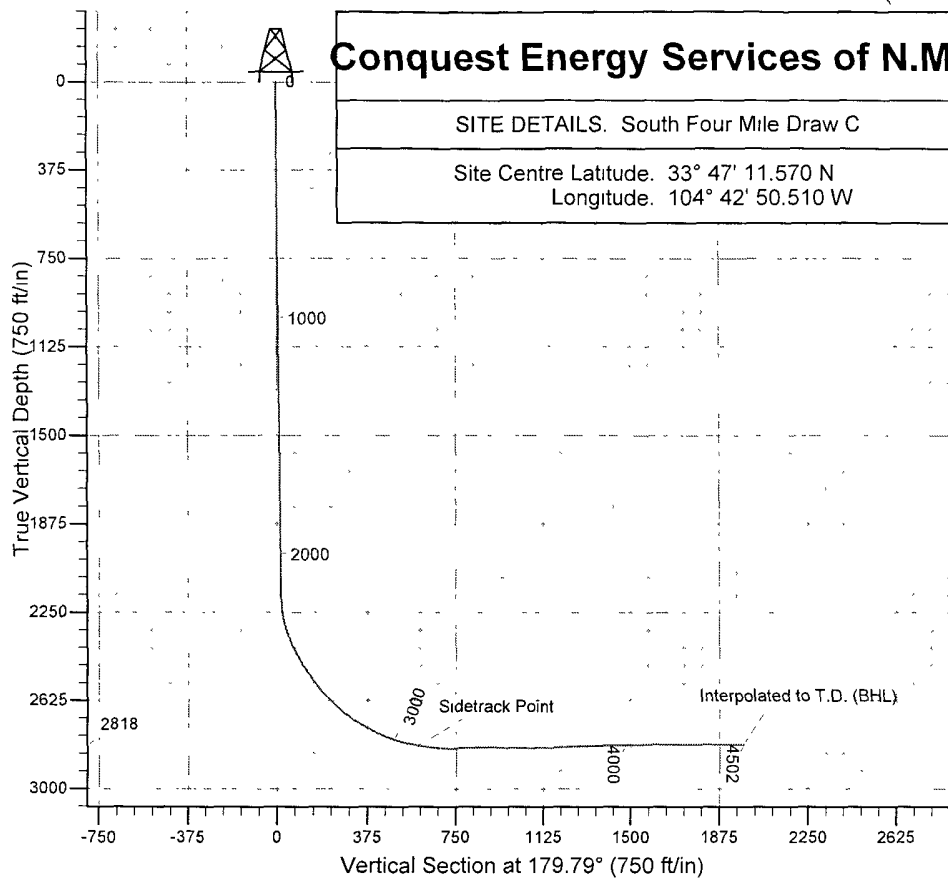
The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Crescent Directional Drilling.
This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

John Stringfellow
Directional Coordinator
Rocky Mtn. Region
Crescent Directional Drilling
Off. (307)266-6500
Cell. (307)259-7827

Conquest Energy Services of N.M.

SITE DETAILS: South Four Mile Draw C

Site Centre Latitude: 33° 47' 11.570 N
Longitude: 104° 42' 50.510 W





Conquest Energy Services of N.M.

Chaves County, New Mexico

South Four Mile Draw C

Federal # 1H

Sidetrack

Design: Sidetrack

Survey Report - Geographic

04 April, 2007



Crescent Directional Drilling

Survey Report - Geographic

Company:	Conquest Energy Services of N.M.	Local Co-ordinate Reference:	Well Federal # 1H
Project:	Chaves County, New Mexico	TVD Reference:	RKB + 12" @ 4338.0ft (Rig Unknown)
Site:	South Four Mile Draw C	MD Reference:	RKB + 12" @ 4338.0ft (Rig Unknown)
Well:	Federal # 1H	North Reference:	True
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	Database:	EDM-2003.14 Single User Db

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

Site	South Four Mile Draw C				
Site Position:		Northing:	1,013,902.30 ft	Latitude:	33° 47' 11.570 N
From:	Lat/Long	Easting:	384,330.80 ft	Longitude:	104° 42' 50.510 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-0.21 °

Well	Federal # 1H					
Well Position	+N/-S	0.0 ft	Northing:	1,013,902.30 ft	Latitude:	33° 47' 11.570 N
	+E/-W	0.0 ft	Easting:	384,330.80 ft	Longitude:	104° 42' 50.510 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,326.0 ft	

Wellbore	Sidetrack				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2006-10-02	8.79	61.54	49,903

Design	Sidetrack				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	3,108.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	179.79	

Survey Program	Date	2007-04-04		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
1,180.0	3,108.0	Original Hole (Wellbore #1)	MWD	MWD - Standard
3,182.0	4,502.0	Sidetrack Surveys (Sidetrack)	MWD	MWD - Standard

Crescent Directional Drilling

Survey Report - Geographic

Company: Conquest Energy Services of N.M.
Project: Chaves County, New Mexico
Site: South Four Mile Draw C
Well: Federal # 1H
Wellbore: Sidetrack
Design: Sidetrack

Local Co-ordinate Reference: Well Federal # 1H
TVD Reference: RKB + 12" @ 4338.0ft (Rig Unknown)
MD Reference: RKB + 12" @ 4338.0ft (Rig Unknown)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
3,669.0	91.40	174.39	2,825.5	-1,148.1	46.6	1,012,754.07	384,373.12	33° 47' 0.211 N	104° 42' 49.958 W
3,701.0	91.80	175.99	2,824.6	-1,179.9	49.2	1,012,722.19	384,375.68	33° 46' 59.896 N	104° 42' 49.927 W
3,732.0	93.40	175.59	2,823.2	-1,210.8	51.5	1,012,691.30	384,377.84	33° 46' 59.590 N	104° 42' 49.900 W
3,763.0	93.80	175.79	2,821.2	-1,241.7	53.8	1,012,660.44	384,380.05	33° 46' 59.285 N	104° 42' 49.872 W
3,793.0	92.90	175.59	2,819.5	-1,271.5	56.1	1,012,630.57	384,382.20	33° 46' 58.990 N	104° 42' 49.845 W
3,841.0	91.10	174.19	2,817.8	-1,319.3	60.4	1,012,582.78	384,386.29	33° 46' 58.517 N	104° 42' 49.795 W
4,502.0	90.00	174.19	2,811.4	-1,976.9	127.3	1,011,924.97	384,450.78	33° 46' 52.011 N	104° 42' 49.002 W
Interpolated to T.D. (BHL)									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,108.0	2,817.5	-592.4	-8.4	Sidetrack Point
4,502.0	2,811.4	-1,976.9	127.3	Interpolated to T.D. (BHL)

Checked By: _____

Approved By: _____

Date: _____