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HOBBSUCD

CHEVRON

Drinkard

Lea County, NM

Central Drinkard Unit #441

DH - Job #32D0910651(Sidetrack)

Survey: Actual

SDI Standard Survey Report

09 October, 2010

This survey is correct to the best of my knowledge and is supported by actual field data.

Luhanon

Notorized this date 13th of October, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



MAR 31 2011

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	CHEVRON	Local Co-ordinate Reference:	Well Central Drinkard Unit #441
Project:	Drinkard	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Central Drinkard Unit #441	North Reference:	Grid
Wellbore:	DH - Job #32D0910651(Sidetrack)	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #32D0910651	Database:	EDM-Regulatory

Project	Drinkard		
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		

Well	Central Drinkard Unit #441, Sidetrack				
Well Position	+N/-S	0.0 usft	Northing:	525,702.30 usft	Latitude: 32° 26' 24.343 N
	+E/-W	0.0 usft	Easting:	852,161.22 usft	Longitude: 103° 11' 30.683 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 0.0 usft

Wellbore	DH - Job #32D0910651(Sidetrack)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/4/2010	7.57	60.48	48,939

Design	DH - Job #32D0910651				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	47.31	

Survey Program	Date	10/9/2010			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
3,600.0	4,472.0	Actual (DH - Job #32D0910651(Sidetrack))	MWD	MWD	

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.0	
3,600.0	0.70	0.00	3,600.0	0.6	0.0	0.00	0.6	
3,798.0	2.82	60.13	3,797.9	4.2	4.2	44.85	6.0	
3,890.0	5.16	44.99	3,889.7	8.3	9.1	47.67	12.3	
3,979.0	5.18	44.84	3,978.3	14.0	14.8	46.58	20.3	
4,069.0	5.44	39.33	4,067.9	20.2	20.3	45.26	28.6	
4,159.0	4.52	52.39	4,157.6	25.6	25.9	45.26	36.4	
4,249.0	4.37	51.55	4,247.3	29.9	31.4	46.34	43.3	
4,339.0	4.10	49.35	4,337.1	34.1	36.5	46.89	50.0	
4,427.0	2.13	51.75	4,424.9	37.2	40.1	47.17	54.7	
4,472.0	2.13	51.75	4,469.9	38.2	41.5	47.31	56.4	



Project: Drinkard
Lea County, NM
Well: Central Drinkard Unit #441
Wellbore: DH - Job #32D0910651(Sidetrack)
Design: DH - Job #32D0910651

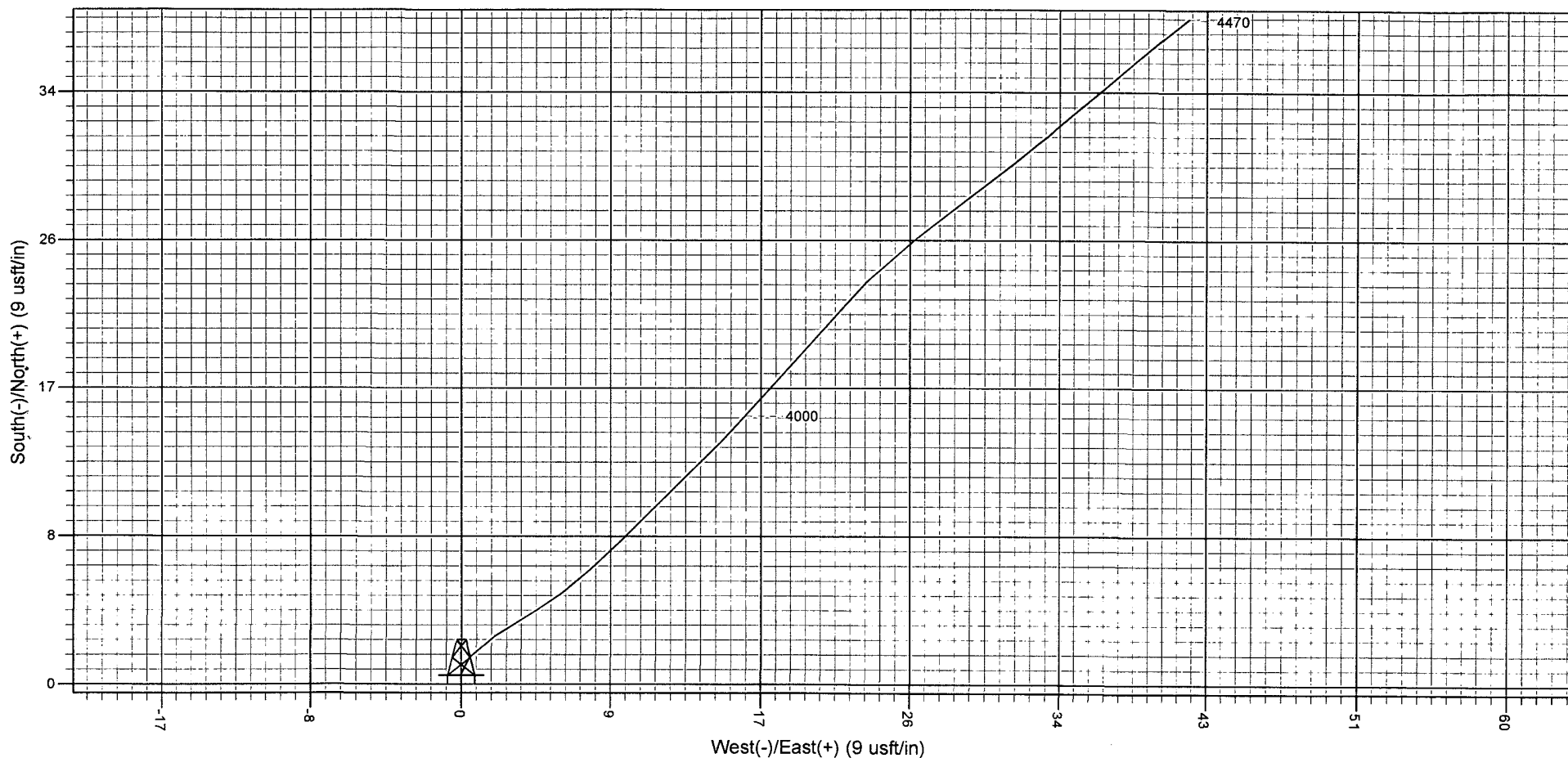


Azimuths to Grid North
True North: -0.61°
Magnetic North: 6.95°

Magnetic Field
Strength: 48939.3nT
Dip Angle: 60.48°
Date: 9/4/2010
Model: BGGM2010

WELL DETAILS: Central Drinkard Unit #441
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	525702.30	852161.22	32° 26' 24.343 N	103° 11' 30.683 W	



PROJECT DETAILS: Drinkard
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Lea County, NM
Site Centre Latitude: 32° 26' 24.343 N
Longitude: 103° 11' 30.683 W
Positional Uncertainty: 0.0
Convergence: 0.61
Local North: Grid