

HOBBS OCD

DEC 01 2014

RECEIVED

OPERATOR (873) Apache Corp.
WELL/LEASE 30-025-41871 West Blinbry Drinkard Unit #201
COUNTY ULG 9-215-37E Lea Co., NM
2380' FNL + 2540' FEL

STATE OF NEW MEXICO
DEVIATION REPORT

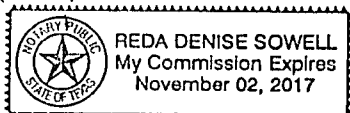
471	0.30
591	0.20
744	0.40
986	0.20
1298	0.10
1581	1.50
1627	2.10
1720	4.00
1811	5.70
2460	7.50
2834	6.80
3019	7.00
3208	5.70
3488	7.30
3674	6.50
3768	8.00
3955	7.50
4417	6.70
4602	7.10
4788	6.80
4976	6.50
5164	8.00
5259	7.80
5539	6.80
5727	5.70
5913	8.90
6006	9.50
6099	8.50
6195	8.20
6286	7.50
6473	6.90
6755	6.60
6957	6.00

SIGNED BY: *Ron Scandolari*
RON SCANDOLARI, VP-CONTRACT DRILLING

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS 29 DAY OF August, 2014, BEFORE ME, R SOWELL, A NOTARY
PUBLIC, PERSONALLY APPEARED RON SCANDOLARI, WHO ACKNOWLEDGED AND EXECUTED
THIS DOCUMENT. WITNESS MY HAND AND OFFICIAL SEAL.

(SEAL)



Reda Denise Sowell
NOTARY PUBLIC

DEC 19 2014

HOBBS OCD

DEC 01 2014

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APACHE CORP

Eunice

Lea County, NM (Grid North)

West Blinebry Drinkard Unit #201D

VH - Job #320814-K-1039

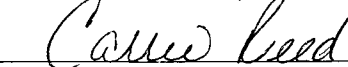
Survey: drop Gyro

SDI Survey Report

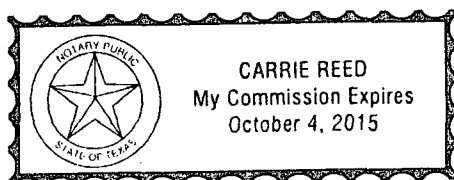
This survey is correct to the best of my knowledge and is supported by actual field data.



Notarized this date 11/6 of September, 2014.



Notary Signature
County of Midland
State of Texas



SDI
SDI Survey Report

Company:	APACHE CORP	Local Co-ordinate Reference:	Well West Blinebry Drinkard Unit #201D
Project:	Eunice	TVD Reference:	Mean Sea Level (System)
Site:	Lea County, NM (Grid North)	MD Reference:	Mean Sea Level (System)
Well:	West Blinebry Drinkard Unit #201D	North Reference:	Grid
Wellbore:	VH - Job #320814-K-1039	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320814-K-1039	Database:	EDM-Regulatory

Project	Eunice		
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	Lea County, NM (Grid North)				
Site Position:		Northing:	550,762.04 usft	Latitude:	32° 30' 31.140 N
From:	Lat/Long	Easting:	862,794.70 usft	Longitude:	103° 9' 23.400 W
Position Uncertainty:	0.0 usft	Slot Radius:	0"	Grid Convergence:	0.63 °

Well	West Blinebry Drinkard Unit #201D, Directional					
Well Position	+N/-S	0.0 usft	Northing:	545,393.03 usft	Latitude:	32° 29' 38.382 N
	+E/-W	0.0 usft	Easting:	859,461.41 usft	Longitude:	103° 10' 3.004 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	0.0 usft	

Wellbore	VH - Job #320814-K-1039				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/16/2014	7.02	60.42	48,529

Design	VH - Job #320814-K-1039				
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	106.41	

Survey Program		Date	8/27/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
116.0	1,362.0	drop Gyro (VH - Job #320814-K-1039)	Keeper	Keeper Gyro	

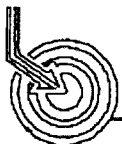
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0		
116.0	0.17	60.60	116.0	0.1	0.1	60.60	0.2		
177.0	0.29	94.76	177.0	0.1	0.4	73.12	0.4		
238.0	0.33	51.75	238.0	0.2	0.7	72.55	0.7		
301.0	0.36	35.25	301.0	0.5	0.9	62.44	1.1		
358.0	0.32	44.29	358.0	0.7	1.1	56.92	1.4		
418.0	0.42	58.35	418.0	1.0	1.4	55.90	1.8		
483.0	0.44	80.82	483.0	1.1	1.9	58.88	2.2		
542.0	0.37	98.32	542.0	1.2	2.3	63.45	2.6		
616.0	0.39	66.88	616.0	1.2	2.8	66.31	3.0		
681.0	0.36	78.12	681.0	1.3	3.2	67.04	3.5		
746.0	0.37	76.50	746.0	1.4	3.6	68.14	3.9		

SDI

SDI Survey Report

Company: APACHE CORP Project: Eunice Site: Lea County, NM (Grid North) Well: West Blinebry Drinkard Unit #201D Wellbore: VH - Job #320814-K-1039 Design: VH - Job #320814-K-1039	Local Co-ordinate Reference: Well West Blinebry Drinkard Unit #201D TVD Reference: Mean Sea Level (System) MD Reference: Mean Sea Level (System) North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM-Regulatory	
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Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)	
811.0	0.32	68.40	811.0	1.6	4.0	68.56	4.3	
876.0	0.21	42.91	876.0	1.7	4.2	67.90	4.5	
1,006.0	0.16	354.88	1,006.0	2.1	4.4	64.64	4.8	
1,071.0	0.09	26.71	1,071.0	2.2	4.4	63.27	4.9	
1,136.0	0.07	29.78	1,136.0	2.3	4.4	62.67	5.0	
1,201.0	0.05	103.44	1,201.0	2.3	4.5	62.64	5.0	
1,266.0	0.06	152.78	1,266.0	2.3	4.5	63.23	5.0	
1,331.0	0.15	251.33	1,331.0	2.2	4.4	63.49	5.0	
1,362.0	0.21	225.65	1,362.0	2.2	4.4	63.63	4.9	



Scientific Drilling

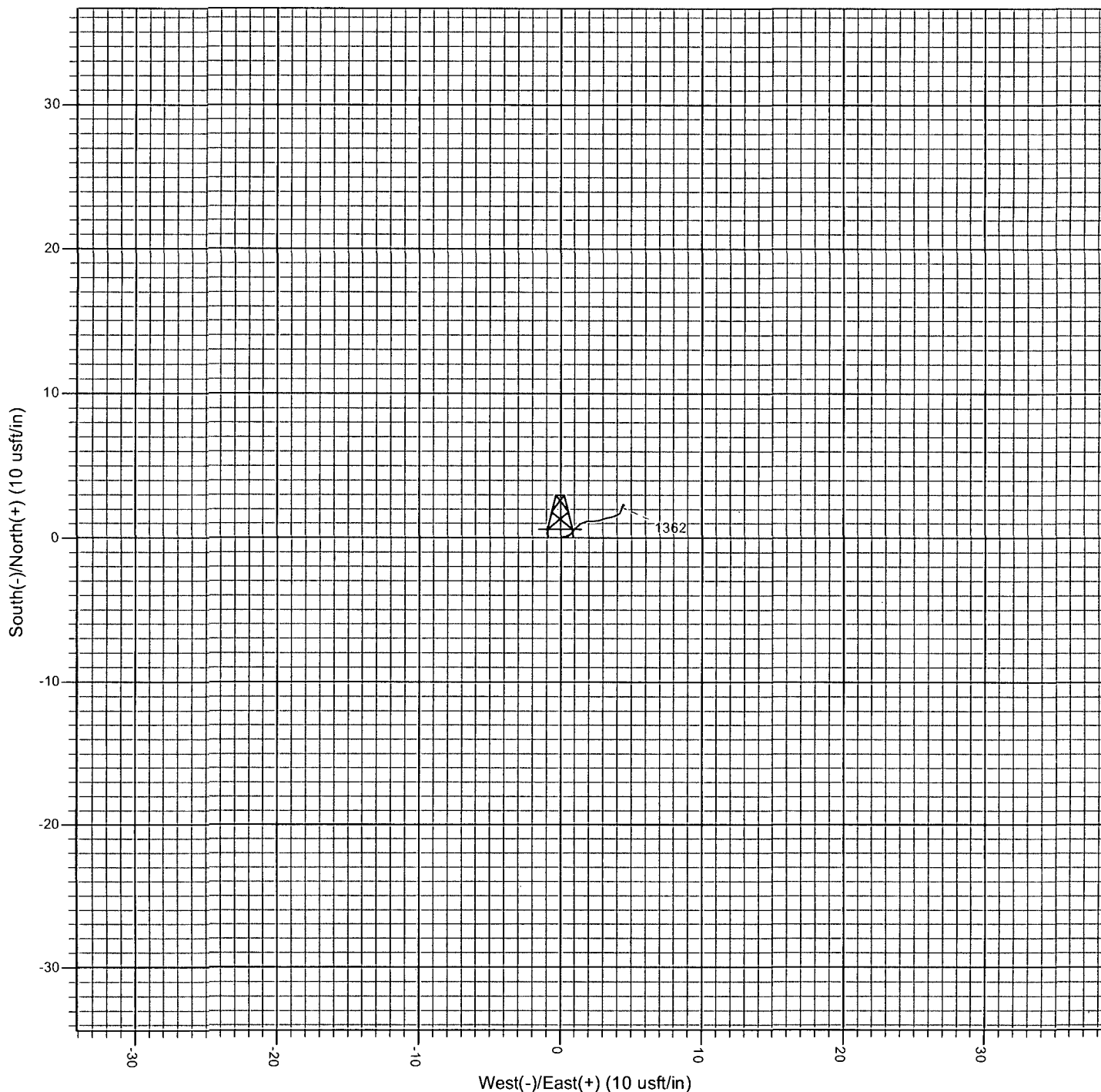
Project: Eunice
Lea County, NM (Grid North)
Well: West Blinebry Drinkard Unit #201D
Wellbore: VH - Job #320814-K-1039
Design: VH - Job #320814-K-1039

WELL DETAILS: West Blinebry Drinkard Unit #201D

Mean Sea Level (System)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	545393.03	859461.41	32° 29' 38.382 N	103° 10' 3.004 W	



PROJECT DETAILS: Eunice	SITE DETAILS: Lea County, NM (Grid North)
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 30' 31.140 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 103° 9' 23.400 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.0
Zone: New Mexico East 3001	Convergence: 0.63
System Datum: Mean Sea Level	Local North: Grid