

HOBBS OCD

Phoenix Technology Services
SURVEY DATA CERTIFICATION

APR 22 2016

RECEIVED

PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER

1513945

OPERATOR

Chevron

WELL NAME

Salado Draw 18-26-33 Fed 2H

COUNTY & STATE

Lea County, NM

API WELL NUMBER

30-025-42660

PROPOSED DIRECTION

0.1

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
0 ft	.00 ft	.0 ft	.0 ft	.00 ft	.00 ft	Surface

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
15-Jul-15	152 ft	0.85	79.03

SURVEY INSTRUMENT
TYPE

Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
29-Aug-15	14,076 ft	91.01	0.45

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
29-Aug-15	14,135 ft	91.01	0.45

Alex Boguess

PRINT YOUR NAME ABOVE

Alex Boguess

SIGN YOUR NAME ABOVE

8/29/2015

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.67
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Zak Dawson

DIRECTIONAL DRILLER 1

Keith Scheppler

MWD SUPERVISOR 2

Alex Boguess

DIRECTIONAL DRILLER 2

Casey Tubbe

12329 Cutten Road Houston, Texas 77066

(713)337-0609 (Voice), (713)337-0599 (Fax)

APR 26 2016



HOBBS OCD

APR 22 2016

RECEIVED

Matador Resources

Eddy County, NM (NAD27 NME)

Janie Conner 13-24S-28E RB

124H

OH / Job 1514027

Survey: Phoenix MWD Surveys

Standard Survey Report

29 August, 2015





Phoenix Technology Services LP

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 124H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3005.50usft (Patterson 297)
Site:	Janie Conner 13-24S-28E RB	MD Reference:	RKB @ 3005.50usft (Patterson 297)
Well:	124H	North Reference:	Grid
Wellbore:	OH / Job 1514027	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Project	Eddy County, NM (NAD27 NME)		
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	Janie Conner 13-24S-28E RB		
Site Position:		Northing:	440,790.00 usft
From:	Map	Easting:	587,754.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 41.50948 N
		Longitude:	104° 2' 58.55371 W
		Grid Convergence:	0.15 °

Well	124H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 12' 41.50948 N
		Longitude:	104° 2' 58.55371 W
		Ground Level:	2,978.00 usft

Wellbore	OH / Job 1514027		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	8/13/2015	7.43
			Dip Angle
			(°)
			60.07
			Field Strength
			(nT)
			48,307

Design	Surveys (Patterson 297)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			90.33

Survey Program	Date 8/29/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
113.50	8,061.00	VES Gyro Surveys (OH / Job 1514027)	NS-GYRO-MS
8,082.00	13,176.00	Phoenix MWD Surveys (OH / Job 1514027)	PHX+MWD+HDGM
			Description
			North sensing gyrocompassing m/s
			PHX+MWD+HDGM

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
8,061.00	17.56	115.49	8,034.06	-44.72	331.53	331.78	0.00	0.00	0.00
Tie-in to VES Gyros									
8,082.00	20.50	114.80	8,053.91	-47.63	337.73	338.00	14.04	14.00	-3.29
First Phoenix Survey									
8,114.00	23.70	111.70	8,083.56	-52.36	348.79	349.09	10.64	10.00	-9.69
8,145.00	26.10	109.00	8,111.67	-56.89	361.03	361.35	8.56	7.74	-8.71
8,176.00	29.40	104.90	8,139.11	-61.06	374.84	375.18	12.29	10.65	-13.23
8,207.00	32.50	101.50	8,165.69	-64.68	390.36	390.72	11.48	10.00	-10.97
8,238.00	36.00	99.30	8,191.31	-67.82	407.52	407.90	11.97	11.29	-7.10



Phoenix Technology Services LP

Survey Report



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Site:	Janie Conner 13-24S-28E RB	MD Reference:	RKB @ 3005.50usft (Patterson 297)
Well:	124H	North Reference:	Grid
Wellbore:	OH / Job 1514027	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,270.00	37.80	96.80	8,216.90	-70.50	426.54	426.94	7.32	5.63	-7.81
8,301.00	41.40	92.90	8,240.79	-72.14	446.22	446.62	14.11	11.61	-12.58
8,332.00	45.00	89.80	8,263.39	-72.62	467.42	467.83	13.48	11.61	-10.00
8,363.00	49.50	88.70	8,284.42	-72.32	490.18	490.59	14.75	14.52	-3.55
8,394.00	54.00	88.20	8,303.61	-71.65	514.51	514.91	14.57	14.52	-1.61
8,426.00	58.80	88.10	8,321.31	-70.79	541.14	541.54	15.00	15.00	-0.31
8,457.00	63.10	87.90	8,336.36	-69.85	568.22	568.61	13.88	13.87	-0.65
8,477.00	65.61	86.73	8,345.02	-69.00	586.23	586.61	13.64	12.57	-5.87
HL Crossing: 8477' MD									
8,488.00	67.00	86.10	8,349.44	-68.37	596.28	596.66	13.64	12.60	-5.69
8,519.00	72.00	85.20	8,360.29	-66.16	625.22	625.59	16.36	16.13	-2.90
8,551.00	77.10	84.70	8,368.81	-63.45	655.94	656.29	16.01	15.94	-1.56
8,582.00	81.40	86.30	8,374.59	-61.06	686.29	686.63	14.77	13.87	5.16
8,614.00	86.30	85.80	8,378.02	-58.87	718.02	718.35	15.39	15.31	-1.56
8,645.00	87.00	85.90	8,379.83	-56.63	748.89	749.20	2.28	2.26	0.32
8,676.00	87.80	85.90	8,381.24	-54.42	779.77	780.07	2.58	2.58	0.00
8,770.00	88.80	85.40	8,384.03	-47.29	873.46	873.72	1.19	1.06	-0.53
8,863.00	88.00	83.80	8,386.62	-38.54	966.01	966.21	1.92	-0.86	-1.72
8,957.00	88.80	85.50	8,389.25	-29.78	1,059.56	1,059.71	2.00	0.85	1.81
9,051.00	88.30	85.60	8,391.63	-22.49	1,153.24	1,153.35	0.54	-0.53	0.11
9,144.00	88.80	87.30	8,393.98	-16.73	1,246.03	1,246.11	1.90	0.54	1.83
9,238.00	90.70	89.00	8,394.39	-13.70	1,339.97	1,340.03	2.71	2.02	1.81
9,332.00	91.00	88.90	8,393.00	-11.98	1,433.95	1,433.99	0.34	0.32	-0.11
9,425.00	91.30	88.00	8,391.13	-9.46	1,526.89	1,526.92	1.02	0.32	-0.97
9,519.00	91.90	86.90	8,388.51	-5.28	1,620.76	1,620.77	1.33	0.64	-1.17
9,612.00	91.80	86.20	8,385.50	0.31	1,713.55	1,713.52	0.76	-0.11	-0.75
9,706.00	90.80	87.10	8,383.37	5.80	1,807.36	1,807.30	1.43	-1.06	0.96
9,800.00	89.30	87.80	8,383.29	9.98	1,901.26	1,901.17	1.76	-1.60	0.74
9,893.00	89.80	89.10	8,384.02	12.50	1,994.22	1,994.12	1.50	0.54	1.40
9,987.00	89.70	90.60	8,384.43	12.75	2,088.22	2,088.11	1.60	-0.11	1.60
10,080.00	91.20	90.50	8,383.70	11.85	2,181.21	2,181.10	1.62	1.61	-0.11
10,174.00	88.80	91.00	8,383.70	10.62	2,275.19	2,275.10	2.61	-2.55	0.53
10,268.00	87.50	92.30	8,386.73	7.92	2,369.10	2,369.02	1.96	-1.38	1.38
10,361.00	87.10	91.90	8,391.11	4.51	2,461.94	2,461.87	0.61	-0.43	-0.43
10,455.00	87.70	90.30	8,395.38	2.71	2,555.82	2,555.76	1.82	0.64	-1.70
10,548.00	87.70	89.50	8,399.11	2.87	2,648.74	2,648.68	0.86	0.00	-0.86
10,642.00	88.50	90.30	8,402.23	3.04	2,742.69	2,742.63	1.20	0.85	0.85
10,736.00	91.60	89.50	8,402.15	3.20	2,836.68	2,836.61	3.41	3.30	-0.85
10,830.00	89.30	89.60	8,401.41	3.94	2,930.66	2,930.59	2.45	-2.45	0.11
10,923.00	87.80	91.50	8,403.76	3.05	3,023.62	3,023.56	2.60	-1.61	2.04
11,017.00	88.40	90.20	8,406.88	1.65	3,117.56	3,117.50	1.52	0.64	-1.38
11,111.00	87.30	89.20	8,410.40	2.15	3,211.49	3,211.42	1.58	-1.17	-1.06
11,204.00	89.60	90.50	8,412.92	2.39	3,304.45	3,304.38	2.84	2.47	1.40
11,298.00	87.00	89.90	8,415.71	2.06	3,398.40	3,398.33	2.84	-2.77	-0.64



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Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 124H
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Site:	Janie Conner 13-24S-28E RB	MD Reference:	RKB @ 3005.50usft (Patterson 297)
Well:	124H	North Reference:	Grid
Wellbore:	OH / Job 1514027	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,391.00	86.10	90.60	8,421.31	1.66	3,491.23	3,491.16	1.23	-0.97	0.75
11,485.00	87.40	90.30	8,426.63	0.92	3,585.07	3,585.00	1.42	1.38	-0.32
11,578.00	87.60	89.80	8,430.69	1.00	3,677.98	3,677.91	0.78	0.22	-0.75
11,672.00	87.70	88.10	8,434.55	2.89	3,771.88	3,771.80	1.60	0.11	-1.60
11,765.00	88.30	89.00	8,437.79	5.24	3,864.79	3,864.70	1.16	0.65	0.97
11,859.00	88.80	89.30	8,440.17	6.63	3,958.75	3,958.65	0.62	0.53	0.32
11,953.00	89.20	88.70	8,441.81	8.27	4,052.72	4,052.61	0.77	0.43	-0.64
12,046.00	89.50	88.10	8,442.87	10.87	4,145.68	4,145.55	0.72	0.32	-0.65
12,140.00	89.40	89.20	8,443.77	13.08	4,239.65	4,239.50	1.17	-0.11	1.17
12,233.00	89.30	90.40	8,444.82	13.41	4,332.64	4,332.49	1.29	-0.11	1.29
12,327.00	89.40	92.20	8,445.89	11.27	4,426.60	4,426.47	1.92	0.11	1.91
12,420.00	90.60	93.90	8,445.89	6.33	4,519.47	4,519.36	2.24	1.29	1.83
12,514.00	91.40	92.80	8,444.25	0.83	4,613.29	4,613.21	1.45	0.85	-1.17
12,608.00	90.90	92.20	8,442.36	-3.26	4,707.18	4,707.12	0.83	-0.53	-0.64
12,701.00	89.00	91.90	8,442.44	-6.59	4,800.12	4,800.08	2.07	-2.04	-0.32
12,795.00	89.10	90.30	8,444.00	-8.40	4,894.08	4,894.05	1.71	0.11	-1.70
12,889.00	89.90	90.30	8,444.82	-8.89	4,988.08	4,988.05	0.85	0.85	0.00
12,983.00	87.90	88.40	8,446.63	-7.82	5,082.05	5,082.01	2.93	-2.13	-2.02
13,076.00	89.40	87.80	8,448.82	-4.74	5,174.97	5,174.91	1.74	1.61	-0.65
13,094.00	89.55	87.80	8,448.98	-4.05	5,192.95	5,192.89	0.83	0.83	0.00
HL Crossing: 13094' MD									
13,100.00	89.60	87.80	8,449.03	-3.82	5,198.95	5,198.88	0.83	0.83	0.00
Final Phoenix Survey									
13,176.00	89.60	87.80	8,449.56	-0.90	5,274.89	5,274.81	0.00	0.00	0.00
Projection to TD									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,061.00	8,034.06	-44.72	331.53	Tie-in to VES Gyros
8,082.00	8,053.91	-47.63	337.73	First Phoenix Survey
8,477.00	8,345.02	-69.00	586.23	HL Crossing: 8477' MD
13,094.00	8,448.98	-4.05	5,192.95	HL Crossing: 13094' MD
13,100.00	8,449.03	-3.82	5,198.95	Final Phoenix Survey
13,176.00	8,449.56	-0.90	5,274.89	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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