

NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 2 2 2018

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Gyrodata Incorporated 10504 WCR 72 Midland, TX 79707

Main: 432-561-8458 Fax: 432-563-7982

I, <u>Kevin Willard</u>, certify that; I am employed by Gyrodata Inc.; that I am authorized and qualified to review the <u>Gyroscopic Multishot</u> survey from a depth of <u>0</u> feet to a depth of <u>feet conducted on the day(s)</u> of <u>08/14/2017</u>; that this survey was conducted at the request <u>OXY USA</u> for the <u>PALLADIUM MDP1</u> Well <u>5H</u> No. <u>30-015-44294</u> in <u>Eddy County</u>, <u>NM</u>; that the data is true, correct, complete, and within the limitations of the tool as set forth by Gyrodata Inc.; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Gyrodata Inc.

Kevin Willard

Operations Coordinator

ARTESIA DISTRICT FEB 2 2 2018

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A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

OXY USA

Lease: Palladium MDP1 7-6 Fcd Com Well: 5H, 17 1/2" Location: Transcend Rig 1, Eddy County, New Mexico

Job Number: MD0817GDM593

Azimuth Correction:
Gyro: -0.28000 deg to Grid North

Depth Reference: Rotary Table

Run Date: 13 Aug 2017 Report Generated: 02 Oct 2017 08:21

Surveyor: Craig Donald

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Company Man Survey Latitude: 32.225275 deg. N Longitude: 103.809820 deg. W

Well Head Location -

From Local Horizontal Reference: N

0.00 ft. E 0.00 ft.

Closure Calculated from Well Head Location

Vertical Section Calculated from Well Head Location

Ground Elevation (Ground to MSL / MSL to Mudline): 3525.40

Air Gap (RKB to Ground / RKB to MSL): 6.00

Horizontal Coordinates Calculated from Local Horizontal Reference

A Gyrodata Directional Survey

OXY USA
Lease: Palladium MDP1 7-6 Fed Com Well: 5H, 17 1/2"
Location: Transcend Rig 1, Eddy County, New Mexico
Job Number: MD0817GDM593

0 to 636.71ft rate gyroscopic survey, inside of 5" drillpipe	0.00	feet	MEASURED DEPTH
	0.00	deg.	INCL
	0,00	deg.	INCL AZIMUTH
	0.00	deg./ 100 ft.	DOGLEG VERTICAL SEVERITY DEPTH
	0.00	feet	VERTICAL DEPTH
	0.0 0.0	feet deg.	CLOSURE DIST. AZIMUTH
	0.00 N 0.1	feet	HORIZONTAL COORDINATES
	0.00 E		ω,

All measured depths and coordinates in reference to Transcend Rig 1, R.K.B height of 6.00 ft

636.71	571.71	510.71	447.71	384.71	321.71	257.71	195.67	134.65	75.37	17.78
0.71	0.95	0.60	0.58	0.51	0.56	0.44	0.58	0.52	0.35	0.28
249.80	248.99	257.28	265.36	274.50	287.29	315.24	335.20	349.95	340.94	34.64
0.37	0.60	0.14	0.18	0.20	0.42	0.36	0.25	0.31	0.51	1.57
636,68	571.69	510.69	447.69	384.70	321.70	257.70	195.66	134.65	75.37	17.78
4.7	4.0	3.5	3.1	2.7	2.3	8.1	1.3	0.8	0.3	0.0
288.0	296,4	305.9	314.5	323.6	333.6	343.1	349.7	355.5	8.5	34.6
1.46 N	1.79 N	2.04 N	2.14 N	2.14 N	2.03 N	1.76 N	1.31 N	0.75 N	0.32 N	0.04 N
4.48 W	3.60 W	2.82 W	2.18 W	1.58 W	1.01 W	0.54 W	0.24 W	0.06W	0.05 E	0.02 E

Final Station Closure: Distance: 4.71 ft Az: 287.99 deg.