

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

PERCUSSION PETROLEUM OPERATING, LLC

Lease: Morris Arco 26 Well: 227, 2 7/8 INCH DRILLPIPE

Location: Brigade 227,

30-015-29258

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 05 2018

RECEIVED

Job Number: MD0718GSOW743

Run Date: 10 Aug 2018

Report Generated: 11 Aug 2018 02:19

Surveyor: Paul Petersen, Johnathan Jones

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Company Man

Survey Latitude: 32.636249 deg. N

Longitude: 104.452197 deg. W

Azimuth Correction:

Gyro: 0.06000 deg to Grid North

Depth Reference: Rotary Table

Air Gap (RKB to Ground / RKB to MSL): 13.00

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

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Percussion Petroleum Operating, LLC

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MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
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0 TO 8900FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 2 7/8 INCH DRILLPIPE
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO DRILLING RIG WITH R.K.B. HEIGHT OF 13 FT.

100.00	0.85	172.46	0.85	100.00	0.7 172.5	0.74 S 0.10 E
300.00	1.95	178.93	0.55	299.93	5.6 176.4	5.61 S 0.36 E
500.00	2.00	182.10	0.06	499.81	12.5 178.7	12.50 S 0.29 E
700.00	1.43	189.23	0.30	699.72	18.5 180.7	18.45 S 0.24 W
900.00	1.08	197.77	0.20	899.68	22.7 183.1	22.71 S 1.21 W
1100.00	0.78	195.48	0.15	1099.65	25.9 184.8	25.81 S 2.15 W
1300.00	0.76	198.05	0.02	1299.63	28.5 185.9	28.39 S 2.93 W
1500.00	0.88	196.59	0.06	1499.61	31.3 186.9	31.12 S 3.77 W
1700.00	0.72	200.73	0.09	1699.59	34.1 187.9	33.77 S 4.66 W
1900.00	0.83	202.92	0.06	1899.57	36.7 188.9	36.28 S 5.67 W
2100.00	0.74	202.21	0.05	2099.55	39.4 189.8	38.81 S 6.72 W
2300.00	0.88	205.00	0.07	2299.53	42.1 190.7	41.39 S 7.86 W
2500.00	0.92	210.53	0.05	2499.51	45.1 191.9	44.17 S 9.32 W
2700.00	0.73	209.16	0.10	2699.49	47.9 193.0	46.66 S 10.76 W
2900.00	0.78	208.08	0.03	2899.47	50.4 193.8	48.98 S 12.02 W
3100.00	0.78	214.66	0.04	3099.45	53.0 194.7	51.30 S 13.43 W
3300.00	0.68	221.13	0.06	3299.44	55.4 195.7	53.31 S 14.99 W

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3500.00	0.69	221.46	0.01	3499.42	57.5 196.7	55.11 S 16.57W
3700.00	0.46	230.09	0.12	3699.41	59.3 197.6	56.53 S 17.98W
3900.00	0.49	228.99	0.02	3899.41	60.7 198.5	57.60 S 19.24W
4100.00	0.73	253.83	0.18	4099.39	62.2 199.8	58.52 S 21.11W
4300.00	0.89	253.16	0.08	4299.37	63.9 201.9	59.32 S 23.82W
4500.00	1.05	261.83	0.11	4499.35	65.9 204.3	60.03 S 27.12W
4700.00	1.13	266.14	0.06	4699.31	67.9 207.1	60.43 S 30.90W
4900.00	1.00	287.32	0.21	4899.28	69.3 209.9	60.04 S 34.54W
5100.00	1.11	281.14	0.08	5099.24	70.4 212.8	59.15 S 38.10W
5300.00	1.41	279.59	0.15	5299.19	72.2 216.0	58.36 S 42.43W
5500.00	1.58	281.13	0.09	5499.13	74.6 219.6	57.42 S 47.56W
5700.00	1.59	275.18	0.08	5699.05	77.6 223.1	56.64 S 53.03W
5900.00	1.59	282.03	0.09	5898.97	80.9 226.4	55.81 S 58.51W
6100.00	1.68	287.60	0.09	6098.89	84.0 229.7	54.34 S 64.02W
6300.00	1.09	280.98	0.31	6298.83	86.8 232.3	53.10 S 68.68W
6500.00	1.22	292.31	0.13	6498.79	89.2 234.4	51.92 S 72.52W
6700.00	1.66	292.23	0.22	6698.73	92.0 237.0	50.02 S 77.17W
6900.00	1.56	271.28	0.30	6898.65	95.9 239.4	48.86 S 82.57W
7100.00	1.08	268.03	0.24	7098.60	99.9 240.7	48.87 S 87.18W
7300.00	0.96	220.64	0.41	7298.57	103.2 240.9	50.20 S 90.15W
7500.00	0.41	137.94	0.50	7498.56	104.6 240.2	52.01 S 90.76W
7700.00	0.56	58.00	0.32	7698.55	103.5 239.8	52.02 S 89.45W

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7900.00	0.48	75.54	0.09	7898.54	101.7 239.7	51.29 S 87.81 W
8100.00	0.81	70.03	0.17	8098.53	99.5 239.4	50.60 S 85.67 W
8300.00	0.92	105.61	0.27	8298.51	97.0 238.6	50.55 S 82.80 W
8500.00	1.12	130.87	0.24	8498.48	95.4 236.8	52.26 S 79.77 W
8700.00	1.11	130.90	0.01	8698.44	94.4 234.5	54.81 S 76.83 W
8900.00	0.84	157.88	0.26	8898.41	94.3 232.5	57.43 S 74.82 W

Final Station Closure: Distance: 94.32 ft Az: 232.49 deg.



DISTRICT I
1425 N. French Dr., Hobbs, NM 88240
Phone (878) 253-8181 Fax (878) 253-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (878) 746-1223 Fax (878) 746-0720

DISTRICT III
1000 Rio Brazos Rd., Artec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

DISTRICT IV
1226 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3466 Fax (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1226 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-29258	Pool Code	Pool Name SWD; Canyon
Property Code	Property Name MORRIS ARCO 26	Well Number 2
OGRID No. 371755	Operator Name PERCUSSION PETROLEUM OPERATING, LLC	Elevation 3419'

Surface Location

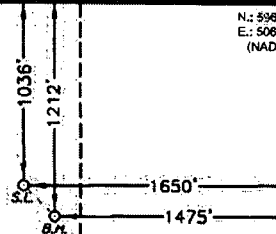
UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	North/South line	FEET from the	East/West line	County
B	26	19 S	25 E		1036	NORTH	1650	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	North/South line	FEET from the	East/West line	County
B	26	19 S	25 E		1212	NORTH	1475	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N: 596245.2 E: 501089.2 (NAD 83)		N: 596258.7 E: 506394.5 (NAD 83)
	SURFACE LOCATION Lat - N 32.636249° Long - W 104.452197° NMSPC - N 595218.7 E 504747.8 (NAD-83)	BOTTOM HOLE LOCATION Lat - N 32.635766° Long - W 104.451625° NMSPC - N 595042.7 E 504923.8 (NAD-83)
		N: 593583.7 E: 506403.5 (NAD 83)
N: 590858.3 E: 501099.9 (NAD 83)		N: 590871.4 E: 506387.6 (NAD 83)

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Ryan Barber 12/5/18
Signature Date
Ryan Barber
Printed Name
ryan@percussionpetroleum.com
Email Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

DATE SURVEYED AUG 11 2018
Signature of Professional Surveyor [Signature]
Certificate No. 7977
Basin Surveyor

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 33974