



PHOENIX
TECHNOLOGY SERVICES

June 8, 2018

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

Dear District 2 - Artesia

Re: Devon Energy
Harroun Trust 30-1
Eddy Co., NM
API #30-015-26172
Job No. 62910

RECEIVED

JUN 18 2018

DISTRICT II-ARTESIA O.C.D.

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 606018). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Noe Garza	1	0	11,300	5/31/18	5/31/18	Gyro

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



PHOENIX
TECHNOLOGY SERVICES

Company: Devon

Job #: 62910

Well Name: Harroun Trust 30-1

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-26172

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-05-31	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-05-31	11300	1.57	307.69

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.17

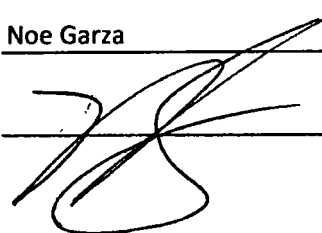
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 05-31-18

Print Name: Noe Garza

Signature: 

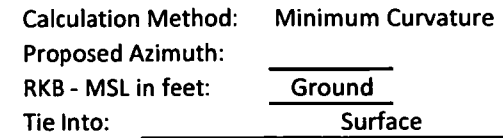


Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Date: 05-31-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10					FIELD COPY, NON-DEFINITIVE								
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.53	161.47	100	100.00	-0.44	0.44 S	0.15 E	0.46	161.47	0.53	0.53	161.47
	125.00	0.77	155.09	25	125.00	-0.70	0.70 S	0.25 E	0.75	160.03	1.00	0.96	-25.52
	150.00	0.39	128.62	25	150.00	-0.91	0.91 S	0.39 E	0.99	156.62	1.82	-1.52	-105.88
	175.00	0.85	140.58	25	174.99	-1.10	1.10 S	0.58 E	1.24	152.41	1.90	1.84	47.84
	200.00	0.62	172.39	25	199.99	-1.38	1.38 S	0.71 E	1.55	152.72	1.84	-0.92	127.24
	225.00	0.53	129.89	25	224.99	-1.59	1.59 S	0.82 E	1.79	152.74	1.70	-0.36	-170.00
	250.00	0.94	144.59	25	249.99	-1.83	1.83 S	1.03 E	2.10	150.72	1.79	1.64	58.80
	275.00	0.67	169.98	25	274.99	-2.14	2.14 S	1.17 E	2.44	151.34	1.76	-1.08	101.56
	300.00	0.52	133.00	25	299.99	-2.36	2.36 S	1.28 E	2.69	151.57	1.61	-0.60	-147.92
	325.00	1.00	144.65	25	324.98	-2.62	2.62 S	1.49 E	3.01	150.38	2.01	1.92	46.60
	350.00	0.87	161.53	25	349.98	-2.97	2.97 S	1.67 E	3.41	150.63	1.21	-0.52	67.52
	375.00	0.50	160.79	25	374.98	-3.26	3.26 S	1.77 E	3.71	151.48	1.48	-1.48	-2.96
	400.00	0.73	114.35	25	399.98	-3.43	3.43 S	1.95 E	3.94	150.34	2.12	0.92	-185.76
	425.00	0.94	132.71	25	424.97	-3.63	3.63 S	2.25 E	4.27	148.25	1.35	0.84	73.44
	450.00	0.91	150.75	25	449.97	-3.94	3.94 S	2.49 E	4.67	147.69	1.17	-0.12	72.16
	475.00	0.54	150.13	25	474.97	-4.22	4.22 S	2.65 E	4.98	147.87	1.48	-1.48	-2.48
	500.00	0.53	114.10	25	499.97	-4.37	4.37 S	2.81 E	5.20	147.21	1.32	-0.04	-144.12
	525.00	0.86	119.44	25	524.97	-4.51	4.51 S	3.08 E	5.46	145.63	1.34	1.32	21.36
	550.00	0.94	135.07	25	549.96	-4.75	4.75 S	3.39 E	5.83	144.45	1.03	0.32	62.52
	575.00	0.85	154.17	25	574.96	-5.06	5.06 S	3.62 E	6.22	144.43	1.24	-0.36	76.40
	600.00	0.92	143.00	25	599.96	-5.38	5.38 S	3.82 E	6.60	144.66	0.74	0.28	-44.68
	625.00	1.03	128.83	25	624.95	-5.69	5.69 S	4.11 E	7.02	144.11	1.06	0.44	-56.68
	650.00	0.71	107.05	25	649.95	-5.87	5.87 S	4.44 E	7.36	142.92	1.82	-1.28	-87.12
	675.00	0.67	105.71	25	674.95	-5.96	5.96 S	4.73 E	7.60	141.57	0.17	-0.16	-5.36
	700.00	0.59	137.65	25	699.95	-6.09	6.09 S	4.95 E	7.85	140.88	1.42	-0.32	127.76
	725.00	0.54	104.93	25	724.95	-6.22	6.22 S	5.15 E	8.08	140.34	1.29	-0.20	-130.88
	750.00	0.82	93.44	25	749.94	-6.26	6.26 S	5.45 E	8.30	138.97	1.24	1.12	-45.96



Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	775.00	0.99	102.00	25	774.94	-6.31	6.31 S	5.84 E	8.60	137.25	0.87	0.68	34.24
	800.00	0.92	110.84	25	799.94	-6.43	6.43 S	6.24 E	8.96	135.88	0.65	-0.28	35.36
	825.00	0.57	111.81	25	824.94	-6.55	6.55 S	6.54 E	9.25	135.04	1.40	-1.40	3.88
	850.00	0.73	80.26	25	849.93	-6.57	6.57 S	6.81 E	9.46	133.96	1.54	0.64	-126.20
	875.00	1.10	84.19	25	874.93	-6.52	6.52 S	7.21 E	9.72	132.12	1.50	1.48	15.72
	900.00	1.03	93.27	25	899.93	-6.50	6.50 S	7.67 E	10.06	130.30	0.73	-0.28	36.32
	925.00	1.02	54.49	25	924.92	-6.39	6.39 S	8.08 E	10.30	128.35	2.72	-0.04	-155.12
	950.00	1.66	51.90	25	949.92	-6.04	6.04 S	8.54 E	10.46	125.24	2.57	2.56	-10.36
	975.00	1.47	58.17	25	974.91	-5.64	5.64 S	9.10 E	10.71	121.81	1.02	-0.76	25.08
	1000.00	1.50	40.02	25	999.90	-5.22	5.22 S	9.58 E	10.91	118.59	1.88	0.12	-72.60
	1025.00	1.88	50.03	25	1024.89	-4.71	4.71 S	10.11 E	11.15	114.98	1.92	1.52	40.04
	1050.00	1.56	43.05	25	1049.88	-4.20	4.20 S	10.65 E	11.45	111.50	1.53	-1.28	-27.92
	1075.00	1.97	41.62	25	1074.86	-3.63	3.63 S	11.17 E	11.74	107.99	1.65	1.64	-5.72
	1100.00	1.53	51.69	25	1099.85	-3.10	3.10 S	11.72 E	12.12	104.81	2.14	-1.76	40.28
	1125.00	1.91	35.07	25	1124.84	-2.55	2.55 S	12.22 E	12.48	101.79	2.49	1.52	-66.48
	1150.00	1.69	52.26	25	1149.83	-1.98	1.98 S	12.75 E	12.90	98.85	2.32	-0.88	68.76
	1175.00	1.80	37.48	25	1174.82	-1.45	1.45 S	13.28 E	13.36	96.22	1.85	0.44	-59.12
	1200.00	1.66	51.70	25	1199.81	-0.91	0.91 S	13.80 E	13.83	93.78	1.80	-0.56	56.88
	1225.00	1.91	37.78	25	1224.79	-0.36	0.36 S	14.34 E	14.35	91.43	1.99	1.00	-55.68
	1250.00	1.44	46.97	25	1249.78	0.19	0.19 N	14.83 E	14.83	89.28	2.16	-1.88	36.76
	1275.00	1.60	54.00	25	1274.77	0.61	0.61 N	15.34 E	15.35	87.74	0.98	0.64	28.12
	1300.00	1.47	37.11	25	1299.77	1.07	1.07 N	15.82 E	15.85	86.14	1.88	-0.52	-67.56
	1325.00	1.16	49.18	25	1324.76	1.49	1.49 N	16.20 E	16.27	84.75	1.66	-1.24	48.28
	1350.00	1.47	45.72	25	1349.75	1.88	1.88 N	16.62 E	16.73	83.56	1.28	1.24	-13.84
	1375.00	1.15	29.75	25	1374.75	2.32	2.32 N	16.98 E	17.13	82.22	1.93	-1.28	-63.88
	1400.00	1.01	51.14	25	1399.74	2.67	2.67 N	17.27 E	17.48	81.20	1.70	-0.56	85.56
	1425.00	1.35	44.40	25	1424.74	3.02	3.02 N	17.65 E	17.91	80.28	1.47	1.36	-26.96
	1450.00	1.07	28.47	25	1449.73	3.44	3.44 N	17.97 E	18.29	79.16	1.74	-1.12	-63.72
	1475.00	0.90	50.46	25	1474.73	3.77	3.77 N	18.23 E	18.62	78.32	1.64	-0.68	87.96
	1500.00	1.21	45.89	25	1499.72	4.08	4.08 N	18.57 E	19.01	77.61	1.28	1.24	-18.28



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	1525.00	0.98	29.80	25	1524.72	4.45	4.45 N	18.87 E	19.38	76.74	1.53	-0.92	-64.36
	1550.00	0.78	47.01	25	1549.72	4.75	4.75 N	19.10 E	19.68	76.04	1.32	-0.80	68.84
	1575.00	0.99	53.01	25	1574.71	4.99	4.99 N	19.39 E	20.03	75.56	0.92	0.84	24.00
	1600.00	0.99	31.21	25	1599.71	5.31	5.31 N	19.68 E	20.38	74.90	1.50	0.00	-87.20
	1625.00	0.67	27.48	25	1624.71	5.62	5.62 N	19.86 E	20.64	74.19	1.30	-1.28	-14.92
	1650.00	0.71	52.40	25	1649.70	5.85	5.85 N	20.05 E	20.88	73.74	1.20	0.16	99.68
	1675.00	0.91	40.71	25	1674.70	6.09	6.09 N	20.30 E	21.19	73.29	1.03	0.80	-46.76
	1700.00	0.60	16.77	25	1699.70	6.37	6.37 N	20.47 E	21.44	72.71	1.74	-1.24	-95.76
	1725.00	0.29	31.03	25	1724.70	6.55	6.55 N	20.54 E	21.56	72.31	1.31	-1.24	57.04
	1750.00	0.57	62.21	25	1749.70	6.66	6.66 N	20.68 E	21.73	72.15	1.42	1.12	124.72
	1775.00	0.65	31.33	25	1774.70	6.84	6.84 N	20.86 E	21.96	71.85	1.34	0.32	-123.52
	1800.00	0.48	15.58	25	1799.70	7.06	7.06 N	20.97 E	22.12	71.39	0.92	-0.68	-63.00
	1825.00	0.25	41.63	25	1824.70	7.20	7.20 N	21.03 E	22.23	71.09	1.11	-0.92	104.20
	1850.00	0.42	81.87	25	1849.69	7.26	7.26 N	21.16 E	22.37	71.07	1.12	0.68	160.96
	1875.00	0.68	60.65	25	1874.69	7.34	7.34 N	21.38 E	22.60	71.04	1.30	1.04	-84.88
	1900.00	0.67	58.40	25	1899.69	7.49	7.49 N	21.63 E	22.89	70.90	0.11	-0.04	-9.00
	1925.00	1.05	94.13	25	1924.69	7.55	7.55 N	21.98 E	23.24	71.04	2.56	1.52	142.92
	1950.00	1.72	102.19	25	1949.68	7.46	7.46 N	22.58 E	23.78	71.72	2.78	2.68	32.24
	1975.00	2.01	93.12	25	1974.67	7.35	7.35 N	23.38 E	24.51	72.54	1.65	1.16	-36.28
	2000.00	1.98	92.87	25	1999.65	7.31	7.31 N	24.25 E	25.33	73.23	0.12	-0.12	-1.00
	2025.00	2.15	103.21	25	2024.64	7.18	7.18 N	25.14 E	26.15	74.06	1.64	0.68	41.36
	2050.00	2.50	108.64	25	2049.62	6.90	6.90 N	26.11 E	27.01	75.20	1.65	1.40	21.72
	2075.00	2.70	102.71	25	2074.59	6.59	6.59 N	27.20 E	27.99	76.38	1.34	0.80	-23.72
	2100.00	2.52	99.27	25	2099.57	6.38	6.38 N	28.32 E	29.03	77.31	0.95	-0.72	-13.76
	2125.00	2.30	102.01	25	2124.54	6.18	6.18 N	29.35 E	30.00	78.11	0.99	-0.88	10.96
	2150.00	2.46	111.77	25	2149.52	5.88	5.88 N	30.34 E	30.91	79.03	1.74	0.64	39.04
	2175.00	2.78	110.24	25	2174.50	5.47	5.47 N	31.41 E	31.88	80.12	1.31	1.28	-6.12
	2200.00	2.95	105.93	25	2199.46	5.08	5.08 N	32.60 E	32.99	81.13	1.10	0.68	-17.24
	2225.00	2.75	104.39	25	2224.43	4.76	4.76 N	33.80 E	34.13	81.99	0.86	-0.80	-6.16
	2250.00	2.62	109.80	25	2249.41	4.42	4.42 N	34.92 E	35.19	82.79	1.14	-0.52	21.64



Company: Devon
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Location: Eddy Co., New Mexico
Rig: Renegade Mast

Job Number:	<u>62910</u>
Grid Corr.:	<u>-0.17</u>
Lat:	<u>32.27</u>
Long:	<u>-104.02</u>

Calculation Method:	Minimum Curvature
Proposed Azimuth:	
RKB - MSL in feet:	<u>Ground</u>
Tie Into:	<u>Surface</u>

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2275.00	3.04	115.26	25	2274.38	3.94	3.94 N	36.05 E	36.27	83.76	1.99	1.68	21.84
	2300.00	3.24	112.39	25	2299.34	3.39	3.39 N	37.31 E	37.46	84.81	1.02	0.80	-11.48
	2325.00	3.34	113.45	25	2324.30	2.83	2.83 N	38.63 E	38.73	85.81	0.47	0.40	4.24
	2350.00	3.14	109.33	25	2349.26	2.31	2.31 N	39.94 E	40.01	86.69	1.23	-0.80	-16.48
	2375.00	3.19	109.39	25	2374.22	1.85	1.85 N	41.24 E	41.29	87.42	0.20	0.20	0.24
	2400.00	2.93	115.48	25	2399.18	1.35	1.35 N	42.48 E	42.50	88.18	1.66	-1.04	24.36
	2425.00	3.26	118.16	25	2424.15	0.74	0.74 N	43.68 E	43.69	89.03	1.44	1.32	10.72
	2450.00	3.45	115.50	25	2449.10	0.08	0.08 N	44.99 E	44.99	89.90	0.98	0.76	-10.64
	2475.00	3.24	110.79	25	2474.06	-0.50	0.50 S	46.33 E	46.33	90.61	1.38	-0.84	-18.84
	2500.00	3.20	111.76	25	2499.02	-1.00	1.00 S	47.63 E	47.64	91.21	0.27	-0.16	3.88
	2525.00	3.08	117.30	25	2523.98	-1.57	1.57 S	48.88 E	48.90	91.84	1.30	-0.48	22.16
	2550.00	3.14	118.70	25	2548.95	-2.21	2.21 S	50.08 E	50.12	92.52	0.39	0.24	5.60
	2575.00	2.99	114.70	25	2573.91	-2.81	2.81 S	51.27 E	51.35	93.14	1.04	-0.60	-16.00
	2600.00	2.46	108.47	25	2598.88	-3.25	3.25 S	52.37 E	52.47	93.55	2.43	-2.12	-24.92
	2625.00	2.08	107.81	25	2623.86	-3.56	3.56 S	53.31 E	53.43	93.82	1.52	-1.52	-2.64
	2650.00	1.75	112.79	25	2648.85	-3.85	3.85 S	54.10 E	54.23	94.07	1.48	-1.32	19.92
	2675.00	1.88	118.01	25	2673.84	-4.19	4.19 S	54.81 E	54.97	94.37	0.84	0.52	20.88
	2700.00	2.03	114.17	25	2698.82	-4.56	4.56 S	55.58 E	55.76	94.69	0.80	0.60	-15.36
	2725.00	1.84	106.85	25	2723.81	-4.86	4.86 S	56.36 E	56.57	94.93	1.25	-0.76	-29.28
	2750.00	1.53	109.28	25	2748.80	-5.09	5.09 S	57.06 E	57.29	95.09	1.27	-1.24	9.72
	2775.00	1.34	117.11	25	2773.79	-5.33	5.33 S	57.64 E	57.88	95.28	1.09	-0.76	31.32
	2800.00	1.48	123.84	25	2798.78	-5.64	5.64 S	58.17 E	58.44	95.54	0.87	0.56	26.92
	2825.00	1.48	123.18	25	2823.77	-6.00	6.00 S	58.70 E	59.01	95.83	0.07	0.00	-2.64
	2850.00	1.44	113.08	25	2848.77	-6.30	6.30 S	59.26 E	59.60	96.07	1.04	-0.16	-40.40
	2875.00	1.26	114.19	25	2873.76	-6.53	6.53 S	59.80 E	60.16	96.24	0.73	-0.72	4.44
	2900.00	1.14	123.03	25	2898.75	-6.78	6.78 S	60.26 E	60.64	96.42	0.88	-0.48	35.36
	2925.00	1.09	135.10	25	2923.75	-7.09	7.09 S	60.64 E	61.05	96.67	0.96	-0.20	48.28
	2950.00	1.45	126.35	25	2948.74	-7.44	7.44 S	61.06 E	61.51	96.95	1.63	1.44	-35.00
	2975.00	1.52	117.21	25	2973.73	-7.78	7.78 S	61.61 E	62.10	97.20	0.99	0.28	-36.56
	3000.00	1.37	112.47	25	2998.73	-8.05	8.05 S	62.18 E	62.70	97.37	0.77	-0.60	-18.96



Company:	Devon
Well:	Harroun Trust 30-1
Location:	Eddy Co., New Mexico
Rig:	Renegade Mast

Job Number:	<u>62910</u>
Grid Corr.:	<u>-0.17</u>
Lat:	<u>32.27</u>
Long:	<u>-104.02</u>

Calculation Method:	Minimum Curvature
Proposed Azimuth:	
RKB - MSL in feet:	<u>Ground</u>
Tie Into:	Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	3025.00	1.17	119.45	25	3023.72	-8.29	8.29 S	62.68 E	63.23	97.53	1.01	-0.80	27.92
	3050.00	1.22	129.84	25	3048.71	-8.58	8.58 S	63.11 E	63.69	97.75	0.89	0.20	41.56
	3075.00	1.57	131.50	25	3073.71	-8.98	8.98 S	63.57 E	64.20	98.04	1.41	1.40	6.64
	3100.00	1.52	121.88	25	3098.70	-9.38	9.38 S	64.11 E	64.79	98.33	1.06	-0.20	-38.48
	3125.00	1.36	116.44	25	3123.69	-9.69	9.69 S	64.65 E	65.38	98.52	0.84	-0.64	-21.76
	3150.00	1.15	117.27	25	3148.68	-9.94	9.94 S	65.14 E	65.90	98.67	0.84	-0.84	3.32
	3175.00	1.12	124.00	25	3173.68	-10.19	10.19 S	65.57 E	66.35	98.83	0.55	-0.12	26.92
	3200.00	1.26	134.30	25	3198.67	-10.52	10.52 S	65.97 E	66.80	99.06	1.02	0.56	41.20
	3225.00	1.52	128.39	25	3223.67	-10.91	10.91 S	66.42 E	67.31	99.33	1.19	1.04	-23.64
	3250.00	1.51	121.89	25	3248.66	-11.29	11.29 S	66.96 E	67.91	99.57	0.69	-0.04	-26.00
	3275.00	1.43	116.70	25	3273.65	-11.61	11.61 S	67.52 E	68.51	99.76	0.62	-0.32	-20.76
	3300.00	1.10	123.08	25	3298.64	-11.88	11.88 S	68.00 E	69.03	99.91	1.43	-1.32	25.52
	3325.00	1.10	133.40	25	3323.64	-12.18	12.18 S	68.38 E	69.45	100.10	0.79	0.00	41.28
	3350.00	1.24	132.96	25	3348.63	-12.53	12.53 S	68.75 E	69.88	100.33	0.56	0.56	-1.76
	3375.00	1.37	129.30	25	3373.63	-12.90	12.90 S	69.18 E	70.37	100.56	0.62	0.52	-14.64
	3400.00	1.16	113.54	25	3398.62	-13.19	13.19 S	69.64 E	70.88	100.72	1.62	-0.84	-63.04
	3425.00	1.00	113.44	25	3423.62	-13.38	13.38 S	70.07 E	71.34	100.81	0.64	-0.64	-0.40
	3450.00	0.87	121.15	25	3448.61	-13.56	13.56 S	70.44 E	71.73	100.90	0.72	-0.52	30.84
	3475.00	1.12	131.62	25	3473.61	-13.82	13.82 S	70.78 E	72.12	101.05	1.23	1.00	41.88
	3500.00	1.22	132.35	25	3498.60	-14.16	14.16 S	71.16 E	72.56	101.26	0.40	0.40	2.92
	3525.00	1.34	121.60	25	3523.60	-14.50	14.50 S	71.61 E	73.06	101.44	1.07	0.48	-43.00
	3550.00	1.19	113.41	25	3548.59	-14.75	14.75 S	72.09 E	73.59	101.56	0.94	-0.60	-32.76
	3575.00	0.79	115.42	25	3573.59	-14.93	14.93 S	72.49 E	74.01	101.64	1.61	-1.60	8.04
	3600.00	0.89	128.11	25	3598.58	-15.12	15.12 S	72.80 E	74.35	101.74	0.84	0.40	50.76
	3625.00	1.07	132.22	25	3623.58	-15.40	15.40 S	73.12 E	74.73	101.89	0.77	0.72	16.44
	3650.00	1.22	129.28	25	3648.58	-15.73	15.73 S	73.50 E	75.16	102.08	0.64	0.60	-11.76
	3675.00	1.17	119.82	25	3673.57	-16.02	16.02 S	73.93 E	75.64	102.23	0.81	-0.20	-37.84
	3700.00	0.99	113.16	25	3698.57	-16.23	16.23 S	74.35 E	76.10	102.32	0.88	-0.72	-26.64
	3725.00	0.88	114.44	25	3723.56	-16.40	16.40 S	74.72 E	76.50	102.38	0.45	-0.44	5.12
	3750.00	0.82	123.58	25	3748.56	-16.58	16.58 S	75.04 E	76.85	102.46	0.59	-0.24	36.56



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	3775.00	0.96	134.69	25	3773.56	-16.82	16.82 S	75.34 E	77.20	102.59	0.89	0.56	44.44
	3800.00	1.10	132.09	25	3798.55	-17.13	17.13 S	75.67 E	77.58	102.76	0.59	0.56	-10.40
	3825.00	1.16	123.84	25	3823.55	-17.43	17.43 S	76.06 E	78.03	102.91	0.69	0.24	-33.00
	3850.00	0.99	114.56	25	3848.54	-17.66	17.66 S	76.46 E	78.48	103.01	0.97	-0.68	-37.12
	3875.00	0.73	115.96	25	3873.54	-17.82	17.82 S	76.80 E	78.84	103.06	1.04	-1.04	5.60
	3900.00	0.60	126.81	25	3898.54	-17.97	17.97 S	77.05 E	79.12	103.13	0.72	-0.52	43.40
	3925.00	0.65	130.04	25	3923.54	-18.14	18.14 S	77.27 E	79.37	103.21	0.24	0.20	12.92
	3950.00	0.71	136.31	25	3948.54	-18.34	18.34 S	77.48 E	79.62	103.32	0.38	0.24	25.08
	3975.00	0.68	136.89	25	3973.53	-18.56	18.56 S	77.69 E	79.88	103.44	0.12	-0.12	2.32
	4000.00	0.90	113.92	25	3998.53	-18.75	18.75 S	77.97 E	80.19	103.52	1.53	0.88	-91.88
	4025.00	0.86	114.48	25	4023.53	-18.91	18.91 S	78.32 E	80.57	103.57	0.16	-0.16	2.24
	4050.00	0.64	119.50	25	4048.53	-19.06	19.06 S	78.61 E	80.89	103.63	0.92	-0.88	20.08
	4075.00	0.65	136.89	25	4073.53	-19.23	19.23 S	78.83 E	81.14	103.71	0.78	0.04	69.56
	4100.00	0.83	143.75	25	4098.52	-19.48	19.48 S	79.04 E	81.40	103.84	0.80	0.72	27.44
	4125.00	0.91	138.35	25	4123.52	-19.77	19.77 S	79.27 E	81.70	104.00	0.46	0.32	-21.60
	4150.00	0.78	128.33	25	4148.52	-20.03	20.03 S	79.54 E	82.02	104.13	0.79	-0.52	-40.08
	4175.00	0.46	124.64	25	4173.52	-20.19	20.19 S	79.76 E	82.27	104.20	1.29	-1.28	-14.76
	4200.00	0.28	154.99	25	4198.52	-20.30	20.30 S	79.86 E	82.40	104.26	1.04	-0.72	121.40
	4225.00	0.32	165.40	25	4223.52	-20.42	20.42 S	79.91 E	82.48	104.34	0.27	0.16	41.64
	4250.00	0.50	179.13	25	4248.51	-20.60	20.60 S	79.93 E	82.54	104.45	0.82	0.72	54.92
	4275.00	0.55	161.91	25	4273.51	-20.82	20.82 S	79.97 E	82.63	104.60	0.66	0.20	-68.88
	4300.00	0.57	146.88	25	4298.51	-21.04	21.04 S	80.07 E	82.79	104.72	0.59	0.08	-60.12
	4325.00	0.39	136.96	25	4323.51	-21.21	21.21 S	80.20 E	82.95	104.81	0.79	-0.72	-39.68
	4350.00	0.18	177.42	25	4348.51	-21.31	21.31 S	80.26 E	83.04	104.87	1.11	-0.84	161.84
	4375.00	0.24	239.63	25	4373.51	-21.37	21.37 S	80.21 E	83.01	104.92	0.89	0.24	248.84
	4400.00	0.38	320.73	25	4398.51	-21.34	21.34 S	80.12 E	82.91	104.91	1.67	0.56	324.40
	4425.00	0.55	305.28	25	4423.51	-21.20	21.20 S	79.97 E	82.73	104.85	0.84	0.68	-61.80
	4450.00	0.60	293.92	25	4448.51	-21.08	21.08 S	79.75 E	82.49	104.81	0.50	0.20	-45.44
	4475.00	0.39	278.36	25	4473.51	-21.02	21.02 S	79.54 E	82.27	104.80	0.99	-0.84	-62.24
	4500.00	0.26	293.27	25	4498.51	-20.98	20.98 S	79.41 E	82.13	104.80	0.62	-0.52	59.64



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	4525.00	0.21	285.67	25	4523.51	-20.95	20.95	S 79.31 E	82.03	104.79	0.24	-0.20	-30.40
	4550.00	0.32	283.41	25	4548.51	-20.92	20.92	S 79.20 E	81.92	104.79	0.44	0.44	-9.04
	4575.00	0.48	274.61	25	4573.51	-20.89	20.89	S 79.03 E	81.74	104.81	0.68	0.64	-35.20
	4600.00	0.60	267.50	25	4598.50	-20.89	20.89	S 78.79 E	81.51	104.85	0.55	0.48	-28.44
	4625.00	0.62	253.98	25	4623.50	-20.93	20.93	S 78.53 E	81.27	104.93	0.58	0.08	-54.08
	4650.00	0.51	228.48	25	4648.50	-21.04	21.04	S 78.32 E	81.10	105.04	1.09	-0.44	-102.00
	4675.00	0.34	238.32	25	4673.50	-21.16	21.16	S 78.17 E	80.98	105.14	0.74	-0.68	39.36
	4700.00	0.29	227.57	25	4698.50	-21.24	21.24	S 78.06 E	80.90	105.22	0.31	-0.20	-43.00
	4725.00	0.36	242.79	25	4723.50	-21.32	21.32	S 77.95 E	80.81	105.30	0.44	0.28	60.88
	4750.00	0.48	250.27	25	4748.50	-21.39	21.39	S 77.78 E	80.66	105.38	0.53	0.48	29.92
	4775.00	0.63	241.62	25	4773.50	-21.49	21.49	S 77.56 E	80.48	105.49	0.69	0.60	-34.60
	4800.00	0.66	231.11	25	4798.50	-21.64	21.64	S 77.32 E	80.30	105.64	0.49	0.12	-42.04
	4825.00	0.67	220.92	25	4823.50	-21.85	21.85	S 77.12 E	80.15	105.82	0.47	0.04	-40.76
	4850.00	0.69	204.77	25	4848.49	-22.09	22.09	S 76.96 E	80.07	106.02	0.77	0.08	-64.60
	4875.00	0.57	199.62	25	4873.49	-22.35	22.35	S 76.85 E	80.04	106.21	0.53	-0.48	-20.60
	4900.00	0.45	205.67	25	4898.49	-22.55	22.55	S 76.77 E	80.01	106.37	0.53	-0.48	24.20
	4925.00	0.48	227.42	25	4923.49	-22.71	22.71	S 76.65 E	79.94	106.50	0.71	0.12	87.00
	4950.00	0.59	231.79	25	4948.49	-22.86	22.86	S 76.47 E	79.81	106.64	0.47	0.44	17.48
	4975.00	0.72	224.76	25	4973.49	-23.05	23.05	S 76.26 E	79.67	106.82	0.61	0.52	-28.12
	5000.00	0.76	220.02	25	4998.49	-23.29	23.29	S 76.04 E	79.53	107.03	0.29	0.16	-18.96
	5025.00	0.88	205.66	25	5023.48	-23.59	23.59	S 75.85 E	79.44	107.28	0.95	0.48	-57.44
	5050.00	0.76	198.90	25	5048.48	-23.92	23.92	S 75.71 E	79.40	107.53	0.62	-0.48	-27.04
	5075.00	0.63	193.76	25	5073.48	-24.21	24.21	S 75.63 E	79.41	107.75	0.58	-0.52	-20.56
	5100.00	0.52	203.06	25	5098.48	-24.45	24.45	S 75.55 E	79.41	107.93	0.58	-0.44	37.20
	5125.00	0.39	221.01	25	5123.48	-24.62	24.62	S 75.45 E	79.37	108.07	0.77	-0.52	71.80
	5150.00	0.33	245.28	25	5148.48	-24.71	24.71	S 75.33 E	79.28	108.16	0.65	-0.24	97.08
	5175.00	0.41	240.44	25	5173.48	-24.79	24.79	S 75.19 E	79.17	108.25	0.34	0.32	-19.36
	5200.00	0.58	237.39	25	5198.47	-24.90	24.90	S 75.00 E	79.03	108.37	0.69	0.68	-12.20
	5225.00	0.58	236.58	25	5223.47	-25.04	25.04	S 74.79 E	78.87	108.51	0.03	0.00	-3.24
	5250.00	0.67	231.44	25	5248.47	-25.20	25.20	S 74.57 E	78.71	108.67	0.42	0.36	-20.56



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
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Calculation Method: Minimum Curvature
 Proposed Azimuth: Ground
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	5275.00	0.69	226.67	25	5273.47	-25.39	25.39 S	74.35 E	78.56	108.86	0.24	0.08	-19.08
	5300.00	0.64	217.53	25	5298.47	-25.61	25.61 S	74.15 E	78.45	109.05	0.47	-0.20	-36.56
	5325.00	0.63	207.01	25	5323.47	-25.84	25.84 S	74.00 E	78.39	109.25	0.47	-0.04	-42.08
	5350.00	0.63	208.85	25	5348.47	-26.08	26.08 S	73.88 E	78.34	109.45	0.08	0.00	7.36
	5375.00	0.47	205.60	25	5373.46	-26.30	26.30 S	73.77 E	78.31	109.62	0.65	-0.64	-13.00
	5400.00	0.39	181.24	25	5398.46	-26.47	26.47 S	73.72 E	78.33	109.75	0.79	-0.32	-97.44
	5425.00	0.33	155.25	25	5423.46	-26.62	26.62 S	73.75 E	78.41	109.85	0.69	-0.24	-103.96
	5450.00	0.28	144.62	25	5448.46	-26.74	26.74 S	73.81 E	78.51	109.91	0.30	-0.20	-42.52
	5475.00	0.26	175.82	25	5473.46	-26.84	26.84 S	73.85 E	78.58	109.98	0.59	-0.08	124.80
	5500.00	0.37	166.91	25	5498.46	-26.98	26.98 S	73.87 E	78.65	110.06	0.48	0.44	-35.64
	5525.00	0.33	184.36	25	5523.46	-27.13	27.13 S	73.89 E	78.71	110.16	0.45	-0.16	69.80
	5550.00	0.45	177.30	25	5548.46	-27.30	27.30 S	73.89 E	78.77	110.28	0.52	0.48	-28.24
	5575.00	0.56	175.67	25	5573.46	-27.52	27.52 S	73.90 E	78.86	110.43	0.44	0.44	-6.52
	5600.00	0.55	182.38	25	5598.46	-27.76	27.76 S	73.90 E	78.95	110.59	0.26	-0.04	26.84
	5625.00	0.63	178.58	25	5623.46	-28.02	28.02 S	73.90 E	79.04	110.76	0.36	0.32	-15.20
	5650.00	0.69	169.75	25	5648.46	-28.30	28.30 S	73.93 E	79.17	110.95	0.47	0.24	-35.32
	5675.00	0.69	165.68	25	5673.45	-28.60	28.60 S	74.00 E	79.33	111.13	0.20	0.00	-16.28
	5700.00	0.73	159.08	25	5698.45	-28.89	28.89 S	74.09 E	79.53	111.30	0.36	0.16	-26.40
	5725.00	0.69	154.43	25	5723.45	-29.18	29.18 S	74.21 E	79.74	111.46	0.28	-0.16	-18.60
	5750.00	0.69	146.22	25	5748.45	-29.44	29.44 S	74.36 E	79.98	111.60	0.40	0.00	-32.84
	5775.00	0.61	142.79	25	5773.45	-29.67	29.67 S	74.53 E	80.21	111.71	0.36	-0.32	-13.72
	5800.00	0.66	140.94	25	5798.45	-29.89	29.89 S	74.70 E	80.45	111.81	0.22	0.20	-7.40
	5825.00	0.60	149.45	25	5823.44	-30.11	30.11 S	74.85 E	80.68	111.91	0.44	-0.24	34.04
	5850.00	0.53	147.68	25	5848.44	-30.32	30.32 S	74.98 E	80.88	112.02	0.29	-0.28	-7.08
	5875.00	0.61	140.50	25	5873.44	-30.52	30.52 S	75.13 E	81.09	112.11	0.43	0.32	-28.72
	5900.00	0.54	154.67	25	5898.44	-30.73	30.73 S	75.26 E	81.30	112.21	0.63	-0.28	56.68
	5925.00	0.55	165.92	25	5923.44	-30.96	30.96 S	75.34 E	81.46	112.34	0.43	0.04	45.00
	5950.00	0.52	156.30	25	5948.44	-31.18	31.18 S	75.42 E	81.61	112.46	0.38	-0.12	-38.48
	5975.00	0.59	158.88	25	5973.44	-31.40	31.40 S	75.51 E	81.78	112.58	0.30	0.28	10.32
	6000.00	0.66	167.31	25	5998.43	-31.66	31.66 S	75.59 E	81.95	112.73	0.46	0.28	33.72



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	6025.00	0.66	168.41	25	6023.43	-31.94	31.94 S	75.65 E	82.12	112.89	0.05	0.00	4.40
	6050.00	0.82	177.74	25	6048.43	-32.26	32.26 S	75.69 E	82.27	113.09	0.80	0.64	37.32
	6075.00	0.92	180.10	25	6073.43	-32.64	32.64 S	75.69 E	82.43	113.33	0.42	0.40	9.44
	6100.00	0.91	180.10	25	6098.43	-33.04	33.04 S	75.69 E	82.59	113.58	0.04	-0.04	0.00
	6125.00	0.90	182.84	25	6123.42	-33.43	33.43 S	75.68 E	82.74	113.83	0.18	-0.04	10.96
	6150.00	1.01	175.88	25	6148.42	-33.85	33.85 S	75.69 E	82.91	114.10	0.64	0.44	-27.84
	6175.00	1.00	175.27	25	6173.41	-34.29	34.29 S	75.72 E	83.12	114.36	0.06	-0.04	-2.44
	6200.00	1.03	173.90	25	6198.41	-34.73	34.73 S	75.76 E	83.34	114.63	0.15	0.12	-5.48
	6225.00	1.05	170.76	25	6223.41	-35.18	35.18 S	75.82 E	83.59	114.89	0.24	0.08	-12.56
	6250.00	1.10	167.48	25	6248.40	-35.64	35.64 S	75.91 E	83.86	115.15	0.32	0.20	-13.12
	6275.00	1.09	165.95	25	6273.40	-36.10	36.10 S	76.02 E	84.16	115.40	0.12	-0.04	-6.12
	6300.00	1.12	163.31	25	6298.39	-36.57	36.57 S	76.15 E	84.48	115.65	0.24	0.12	-10.56
	6325.00	1.05	164.57	25	6323.39	-37.02	37.02 S	76.28 E	84.79	115.89	0.30	-0.28	5.04
	6350.00	1.07	165.64	25	6348.38	-37.47	37.47 S	76.40 E	85.09	116.13	0.11	0.08	4.28
	6375.00	1.03	162.09	25	6373.38	-37.91	37.91 S	76.53 E	85.40	116.35	0.31	-0.16	-14.20
	6400.00	1.01	159.98	25	6398.38	-38.33	38.33 S	76.67 E	85.72	116.56	0.17	-0.08	-8.44
	6425.00	0.96	156.94	25	6423.37	-38.73	38.73 S	76.83 E	86.04	116.75	0.29	-0.20	-12.16
	6450.00	1.00	164.13	25	6448.37	-39.13	39.13 S	76.97 E	86.35	116.95	0.52	0.16	28.76
	6475.00	1.06	160.57	25	6473.36	-39.56	39.56 S	77.11 E	86.66	117.16	0.35	0.24	-14.24
	6500.00	1.20	158.07	25	6498.36	-40.02	40.02 S	77.28 E	87.03	117.38	0.59	0.56	-10.00
	6525.00	1.21	157.84	25	6523.35	-40.51	40.51 S	77.48 E	87.43	117.60	0.04	0.04	-0.92
	6550.00	1.20	162.24	25	6548.35	-41.00	41.00 S	77.66 E	87.82	117.83	0.37	-0.04	17.60
	6575.00	1.33	157.23	25	6573.34	-41.52	41.52 S	77.85 E	88.23	118.07	0.68	0.52	-20.04
	6600.00	1.49	155.40	25	6598.33	-42.08	42.08 S	78.10 E	88.71	118.32	0.66	0.64	-7.32
	6625.00	1.40	155.44	25	6623.33	-42.66	42.66 S	78.36 E	89.22	118.56	0.36	-0.36	0.16
	6650.00	1.44	155.14	25	6648.32	-43.22	43.22 S	78.62 E	89.72	118.80	0.16	0.16	-1.20
	6675.00	1.54	158.02	25	6673.31	-43.81	43.81 S	78.88 E	90.23	119.05	0.50	0.40	11.52
	6700.00	1.41	155.95	25	6698.30	-44.41	44.41 S	79.13 E	90.74	119.30	0.56	-0.52	-8.28
	6725.00	1.41	153.52	25	6723.29	-44.96	44.96 S	79.39 E	91.24	119.53	0.24	0.00	-9.72
	6750.00	1.43	155.09	25	6748.29	-45.52	45.52 S	79.66 E	91.75	119.75	0.17	0.08	6.28



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Calculation Method: Minimum Curvature
 Proposed Azimuth: Ground
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	6775.00	1.53	150.49	25	6773.28	-46.10	46.10 S	79.96 E	92.29	119.96	0.62	0.40	-18.40
	6800.00	1.44	153.39	25	6798.27	-46.67	46.67 S	80.26 E	92.84	120.18	0.47	-0.36	11.60
	6825.00	1.52	152.58	25	6823.26	-47.24	47.24 S	80.55 E	93.38	120.39	0.33	0.32	-3.24
	6850.00	1.47	150.77	25	6848.25	-47.82	47.82 S	80.86 E	93.94	120.60	0.28	-0.20	-7.24
	6875.00	1.52	150.87	25	6873.25	-48.39	48.39 S	81.18 E	94.51	120.80	0.20	0.20	0.40
	6900.00	1.43	154.16	25	6898.24	-48.96	48.96 S	81.48 E	95.05	121.00	0.49	-0.36	13.16
	6925.00	1.56	154.51	25	6923.23	-49.54	49.54 S	81.76 E	95.60	121.21	0.52	0.52	1.40
	6950.00	1.29	167.64	25	6948.22	-50.13	50.13 S	81.97 E	96.08	121.45	1.69	-1.08	52.52
	6975.00	1.12	176.76	25	6973.22	-50.64	50.64 S	82.04 E	96.41	121.69	1.02	-0.68	36.48
	7000.00	1.19	177.64	25	6998.21	-51.15	51.15 S	82.07 E	96.70	121.93	0.29	0.28	3.52
	7025.00	1.10	177.66	25	7023.21	-51.65	51.65 S	82.09 E	96.98	122.18	0.36	-0.36	0.08
	7050.00	1.02	182.88	25	7048.20	-52.11	52.11 S	82.09 E	97.23	122.41	0.50	-0.32	20.88
	7075.00	1.00	179.57	25	7073.20	-52.55	52.55 S	82.08 E	97.46	122.63	0.25	-0.08	-13.24
	7100.00	1.01	180.58	25	7098.19	-52.99	52.99 S	82.08 E	97.69	122.85	0.08	0.04	4.04
	7125.00	1.02	181.89	25	7123.19	-53.43	53.43 S	82.07 E	97.93	123.07	0.10	0.04	5.24
	7150.00	0.96	178.73	25	7148.19	-53.86	53.86 S	82.06 E	98.16	123.28	0.32	-0.24	-12.64
	7175.00	0.96	180.38	25	7173.18	-54.28	54.28 S	82.07 E	98.39	123.48	0.11	0.00	6.60
	7200.00	0.99	174.16	25	7198.18	-54.71	54.71 S	82.09 E	98.65	123.68	0.44	0.12	-24.88
	7225.00	1.01	175.85	25	7223.17	-55.14	55.14 S	82.12 E	98.92	123.88	0.14	0.08	6.76
	7250.00	0.94	172.98	25	7248.17	-55.56	55.56 S	82.17 E	99.19	124.07	0.34	-0.28	-11.48
	7275.00	0.79	171.91	25	7273.17	-55.94	55.94 S	82.22 E	99.44	124.23	0.60	-0.60	-4.28
	7300.00	0.69	179.25	25	7298.17	-56.26	56.26 S	82.24 E	99.64	124.37	0.55	-0.40	29.36
	7325.00	0.72	165.90	25	7323.16	-56.56	56.56 S	82.28 E	99.85	124.51	0.67	0.12	-53.40
	7350.00	0.74	162.12	25	7348.16	-56.87	56.87 S	82.37 E	100.09	124.62	0.21	0.08	-15.12
	7375.00	0.65	151.22	25	7373.16	-57.15	57.15 S	82.49 E	100.35	124.71	0.64	-0.36	-43.60
	7400.00	0.63	150.98	25	7398.16	-57.39	57.39 S	82.62 E	100.60	124.78	0.08	-0.08	-0.96
	7425.00	0.67	146.70	25	7423.16	-57.63	57.63 S	82.77 E	100.86	124.85	0.25	0.16	-17.12
	7450.00	0.68	140.26	25	7448.16	-57.87	57.87 S	82.94 E	101.14	124.90	0.31	0.04	-25.76
	7475.00	0.71	132.55	25	7473.15	-58.09	58.09 S	83.15 E	101.43	124.94	0.39	0.12	-30.84
	7500.00	0.88	129.36	25	7498.15	-58.31	58.31 S	83.42 E	101.78	124.96	0.70	0.68	-12.76



Company: Devon
Well: Harroun Trust 30-1
Location: Eddy Co., New Mexico
Rig: Renegade Mast

Job Number: 62910
Grid Corr.: -0.17
Lat: 32.27
Long: -104.02

Calculation Method: Minimum Curvature
Proposed Azimuth: _____
RKB - MSL in feet: Ground
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	7525.00	0.86	127.55	25	7523.15	-58.55	58.55 S	83.71 E	102.16	124.97	0.14	-0.08	-7.24
	7550.00	0.88	127.75	25	7548.15	-58.78	58.78 S	84.01 E	102.54	124.98	0.08	0.08	0.80
	7575.00	0.95	127.63	25	7573.14	-59.03	59.03 S	84.33 E	102.93	124.99	0.28	0.28	-0.48
	7600.00	0.91	125.06	25	7598.14	-59.27	59.27 S	84.66 E	103.34	125.00	0.23	-0.16	-10.28
	7625.00	1.03	119.24	25	7623.14	-59.49	59.49 S	85.01 E	103.76	124.98	0.62	0.48	-23.28
	7650.00	1.07	119.68	25	7648.13	-59.72	59.72 S	85.41 E	104.22	124.96	0.16	0.16	1.76
	7675.00	1.00	111.26	25	7673.13	-59.91	59.91 S	85.82 E	104.66	124.92	0.67	-0.28	-33.68
	7700.00	0.96	105.55	25	7698.12	-60.05	60.05 S	86.22 E	105.07	124.85	0.42	-0.16	-22.84
	7725.00	0.95	98.82	25	7723.12	-60.13	60.13 S	86.63 E	105.46	124.77	0.45	-0.04	-26.92
	7750.00	0.82	93.45	25	7748.12	-60.18	60.18 S	87.01 E	105.80	124.67	0.62	-0.52	-21.48
	7775.00	0.82	91.52	25	7773.11	-60.19	60.19 S	87.37 E	106.10	124.56	0.11	0.00	-7.72
	7800.00	0.77	83.53	25	7798.11	-60.18	60.18 S	87.72 E	106.38	124.45	0.49	-0.20	-31.96
	7825.00	0.75	86.62	25	7823.11	-60.15	60.15 S	88.05 E	106.63	124.34	0.18	-0.08	12.36
	7850.00	0.77	88.07	25	7848.11	-60.13	60.13 S	88.38 E	106.90	124.23	0.11	0.08	5.80
	7875.00	0.78	87.74	25	7873.11	-60.12	60.12 S	88.72 E	107.17	124.12	0.04	0.04	-1.32
	7900.00	0.55	89.90	25	7898.10	-60.11	60.11 S	89.01 E	107.41	124.03	0.93	-0.92	8.64
	7925.00	0.24	109.22	25	7923.10	-60.13	60.13 S	89.18 E	107.56	123.99	1.33	-1.24	77.28
	7950.00	0.05	310.61	25	7948.10	-60.14	60.14 S	89.22 E	107.60	123.98	1.15	-0.76	805.56
	7975.00	0.24	306.09	25	7973.10	-60.10	60.10 S	89.17 E	107.53	123.98	0.76	0.76	-18.08
	8000.00	0.54	309.03	25	7998.10	-60.00	60.00 S	89.03 E	107.36	123.98	1.20	1.20	11.76
	8025.00	0.81	300.50	25	8023.10	-59.83	59.83 S	88.79 E	107.07	123.98	1.15	1.08	-34.12
	8050.00	1.11	298.59	25	8048.10	-59.63	59.63 S	88.42 E	106.65	123.99	1.21	1.20	-7.64
	8075.00	1.40	290.16	25	8073.09	-59.41	59.41 S	87.93 E	106.11	124.05	1.37	1.16	-33.72
	8100.00	1.58	283.19	25	8098.08	-59.22	59.22 S	87.30 E	105.50	124.15	1.02	0.72	-27.88
	8125.00	1.80	285.52	25	8123.07	-59.04	59.04 S	86.59 E	104.80	124.29	0.92	0.88	9.32
	8150.00	2.03	286.20	25	8148.06	-58.81	58.81 S	85.79 E	104.01	124.43	0.92	0.92	2.72
	8175.00	2.34	285.50	25	8173.04	-58.55	58.55 S	84.87 E	103.11	124.60	1.24	1.24	-2.80
	8200.00	2.49	283.45	25	8198.02	-58.29	58.29 S	83.85 E	102.12	124.81	0.69	0.60	-8.20
	8225.00	2.56	279.86	25	8222.99	-58.07	58.07 S	82.77 E	101.11	125.05	0.69	0.28	-14.36
	8250.00	2.83	273.93	25	8247.96	-57.93	57.93 S	81.60 E	100.08	125.37	1.55	1.08	-23.72



Company: Devon
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Grid Corr.: -0.17
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Calculation Method: Minimum Curvature
Proposed Azimuth: Ground
RKB - MSL in feet: Ground
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	8275.00	3.03	267.35	25	8272.93	-57.92	57.92 S	80.33 E	99.03	125.79	1.56	0.80	-26.32
	8300.00	3.06	265.34	25	8297.90	-58.00	58.00 S	79.00 E	98.01	126.28	0.44	0.12	-8.04
	8325.00	3.09	263.30	25	8322.86	-58.13	58.13 S	77.67 E	97.02	126.81	0.45	0.12	-8.16
	8350.00	3.11	260.32	25	8347.82	-58.33	58.33 S	76.33 E	96.07	127.38	0.65	0.08	-11.92
	8375.00	3.05	259.56	25	8372.79	-58.56	58.56 S	75.01 E	95.16	127.98	0.29	-0.24	-3.04
	8400.00	2.84	258.28	25	8397.76	-58.81	58.81 S	73.75 E	94.33	128.57	0.88	-0.84	-5.12
	8425.00	3.13	254.57	25	8422.72	-59.12	59.12 S	72.48 E	93.53	129.20	1.39	1.16	-14.84
	8450.00	3.01	252.31	25	8447.69	-59.50	59.50 S	71.20 E	92.79	129.88	0.68	-0.48	-9.04
	8475.00	2.76	246.17	25	8472.65	-59.94	59.94 S	70.03 E	92.18	130.56	1.59	-1.00	-24.56
	8500.00	2.64	241.34	25	8497.63	-60.46	60.46 S	68.97 E	91.72	131.24	1.03	-0.48	-19.32
	8525.00	2.72	239.42	25	8522.60	-61.04	61.04 S	67.95 E	91.34	131.93	0.48	0.32	-7.68
	8550.00	2.55	239.78	25	8547.57	-61.62	61.62 S	66.96 E	91.00	132.62	0.68	-0.68	1.44
	8575.00	2.56	238.56	25	8572.55	-62.19	62.19 S	66.01 E	90.69	133.30	0.22	0.04	-4.88
	8600.00	2.49	239.19	25	8597.52	-62.76	62.76 S	65.06 E	90.40	133.97	0.30	-0.28	2.52
	8625.00	2.20	241.07	25	8622.50	-63.27	63.27 S	64.18 E	90.12	134.59	1.20	-1.16	7.52
	8650.00	1.91	242.55	25	8647.49	-63.69	63.69 S	63.39 E	89.86	135.14	1.18	-1.16	5.92
	8675.00	1.93	241.49	25	8672.47	-64.09	64.09 S	62.65 E	89.62	135.65	0.16	0.08	-4.24
	8700.00	1.73	246.76	25	8697.46	-64.44	64.44 S	61.93 E	89.37	136.14	1.04	-0.80	21.08
	8725.00	1.87	245.16	25	8722.45	-64.76	64.76 S	61.21 E	89.11	136.61	0.59	0.56	-6.40
	8750.00	1.80	245.36	25	8747.43	-65.09	65.09 S	60.49 E	88.86	137.10	0.28	-0.28	0.80
	8775.00	1.98	243.67	25	8772.42	-65.45	65.45 S	59.74 E	88.61	137.61	0.75	0.72	-6.76
	8800.00	1.83	244.98	25	8797.41	-65.81	65.81 S	58.99 E	88.38	138.13	0.62	-0.60	5.24
	8825.00	1.61	246.12	25	8822.40	-66.12	66.12 S	58.31 E	88.16	138.59	0.89	-0.88	4.56
	8850.00	1.35	238.53	25	8847.39	-66.41	66.41 S	57.74 E	88.00	139.00	1.30	-1.04	-30.36
	8875.00	1.33	236.93	25	8872.38	-66.73	66.73 S	57.24 E	87.92	139.37	0.17	-0.08	-6.40
	8900.00	1.27	226.97	25	8897.37	-67.07	67.07 S	56.80 E	87.89	139.74	0.93	-0.24	-39.84
	8925.00	1.24	223.85	25	8922.37	-67.46	67.46 S	56.41 E	87.93	140.10	0.30	-0.12	-12.48
	8950.00	1.32	220.12	25	8947.36	-67.87	67.87 S	56.04 E	88.02	140.46	0.46	0.32	-14.92
	8975.00	1.27	214.19	25	8972.36	-68.32	68.32 S	55.69 E	88.15	140.81	0.57	-0.20	-23.72
	9000.00	1.33	212.13	25	8997.35	-68.80	68.80 S	55.38 E	88.32	141.16	0.30	0.24	-8.24



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 Location: Eddy Co., New Mexico
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Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: Ground
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Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	9025.00	1.40	207.77	25	9022.34	-69.31	69.31 S	55.09 E	88.54	141.52	0.50	0.28	-17.44
	9050.00	1.42	197.80	25	9047.33	-69.88	69.88 S	54.85 E	88.83	141.87	0.98	0.08	-39.88
	9075.00	1.43	192.69	25	9072.33	-70.48	70.48 S	54.69 E	89.21	142.19	0.51	0.04	-20.44
	9100.00	1.51	188.64	25	9097.32	-71.11	71.11 S	54.57 E	89.63	142.50	0.52	0.32	-16.20
	9125.00	1.41	189.82	25	9122.31	-71.74	71.74 S	54.47 E	90.07	142.79	0.42	-0.40	4.72
	9150.00	1.46	188.72	25	9147.30	-72.35	72.35 S	54.37 E	90.50	143.08	0.23	0.20	-4.40
	9175.00	1.40	187.21	25	9172.29	-72.97	72.97 S	54.28 E	90.95	143.36	0.28	-0.24	-6.04
	9200.00	1.46	186.60	25	9197.29	-73.59	73.59 S	54.21 E	91.40	143.63	0.25	0.24	-2.44
	9225.00	1.46	187.08	25	9222.28	-74.22	74.22 S	54.13 E	91.86	143.90	0.05	0.00	1.92
	9250.00	1.50	186.42	25	9247.27	-74.86	74.86 S	54.05 E	92.34	144.17	0.17	0.16	-2.64
	9275.00	1.60	186.91	25	9272.26	-75.54	75.54 S	53.97 E	92.84	144.45	0.40	0.40	1.96
	9300.00	1.68	184.93	25	9297.25	-76.25	76.25 S	53.90 E	93.38	144.74	0.39	0.32	-7.92
	9325.00	1.64	183.44	25	9322.24	-76.97	76.97 S	53.85 E	93.94	145.02	0.24	-0.16	-5.96
	9350.00	1.64	180.24	25	9347.23	-77.69	77.69 S	53.83 E	94.51	145.28	0.37	0.00	-12.80
	9375.00	1.70	180.97	25	9372.22	-78.41	78.41 S	53.82 E	95.11	145.54	0.25	0.24	2.92
	9400.00	1.66	181.15	25	9397.21	-79.15	79.15 S	53.80 E	95.70	145.79	0.16	-0.16	0.72
	9425.00	1.71	183.13	25	9422.20	-79.88	79.88 S	53.78 E	96.30	146.05	0.31	0.20	7.92
	9450.00	1.78	180.72	25	9447.19	-80.64	80.64 S	53.75 E	96.91	146.31	0.41	0.28	-9.64
	9475.00	1.77	181.13	25	9472.17	-81.42	81.42 S	53.74 E	97.55	146.57	0.06	-0.04	1.64
	9500.00	1.73	183.53	25	9497.16	-82.18	82.18 S	53.71 E	98.17	146.83	0.33	-0.16	9.60
	9525.00	1.85	182.75	25	9522.15	-82.96	82.96 S	53.67 E	98.80	147.10	0.49	0.48	-3.12
	9550.00	1.82	180.03	25	9547.14	-83.76	83.76 S	53.65 E	99.47	147.36	0.37	-0.12	-10.88
	9575.00	1.82	182.09	25	9572.12	-84.55	84.55 S	53.63 E	100.13	147.61	0.26	0.00	8.24
	9600.00	1.83	184.46	25	9597.11	-85.35	85.35 S	53.59 E	100.77	147.88	0.30	0.04	9.48
	9625.00	1.82	186.47	25	9622.10	-86.14	86.14 S	53.51 E	101.41	148.15	0.26	-0.04	8.04
	9650.00	1.89	186.67	25	9647.09	-86.94	86.94 S	53.42 E	102.04	148.43	0.28	0.28	0.80
	9675.00	1.85	186.60	25	9672.07	-87.75	87.75 S	53.32 E	102.68	148.72	0.16	-0.16	-0.28
	9700.00	1.76	189.33	25	9697.06	-88.53	88.53 S	53.21 E	103.30	148.99	0.50	-0.36	10.92
	9725.00	1.84	192.79	25	9722.05	-89.30	89.30 S	53.06 E	103.88	149.28	0.54	0.32	13.84
	9750.00	1.77	192.35	25	9747.04	-90.07	90.07 S	52.89 E	104.45	149.58	0.29	-0.28	-1.76



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Calculation Method: Minimum Curvature
 Proposed Azimuth: Ground
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	9775.00	1.82	191.58	25	9772.02	-90.84	90.84 S	52.73 E	105.03	149.87	0.22	0.20	-3.08
	9800.00	1.80	196.34	25	9797.01	-91.60	91.60 S	52.54 E	105.60	150.16	0.61	-0.08	19.04
	9825.00	1.80	192.62	25	9822.00	-92.36	92.36 S	52.34 E	106.16	150.46	0.47	0.00	-14.88
	9850.00	1.69	191.84	25	9846.99	-93.11	93.11 S	52.18 E	106.73	150.73	0.45	-0.44	-3.12
	9875.00	1.72	192.61	25	9871.98	-93.83	93.83 S	52.02 E	107.29	151.00	0.15	0.12	3.08
	9900.00	1.58	190.75	25	9896.97	-94.54	94.54 S	51.88 E	107.84	151.24	0.60	-0.56	-7.44
	9925.00	1.55	190.44	25	9921.96	-95.21	95.21 S	51.75 E	108.37	151.47	0.12	-0.12	-1.24
	9950.00	1.30	184.13	25	9946.95	-95.83	95.83 S	51.67 E	108.87	151.67	1.18	-1.00	-25.24
	9975.00	1.02	178.51	25	9971.94	-96.33	96.33 S	51.66 E	109.31	151.80	1.21	-1.12	-22.48
	10000.00	0.90	175.74	25	9996.94	-96.75	96.75 S	51.68 E	109.69	151.89	0.51	-0.48	-11.08
	10025.00	0.76	175.28	25	10021.94	-97.11	97.11 S	51.70 E	110.02	151.97	0.56	-0.56	-1.84
	10050.00	0.75	179.21	25	10046.94	-97.44	97.44 S	51.72 E	110.32	152.04	0.21	-0.04	15.72
	10075.00	0.75	179.46	25	10071.93	-97.77	97.77 S	51.72 E	110.61	152.12	0.01	0.00	1.00
	10100.00	0.78	184.90	25	10096.93	-98.10	98.10 S	51.71 E	110.89	152.20	0.31	0.12	21.76
	10125.00	0.87	192.20	25	10121.93	-98.45	98.45 S	51.66 E	111.18	152.32	0.55	0.36	29.20
	10150.00	0.97	196.69	25	10146.92	-98.84	98.84 S	51.56 E	111.48	152.45	0.49	0.40	17.96
	10175.00	1.11	195.36	25	10171.92	-99.28	99.28 S	51.43 E	111.81	152.61	0.57	0.56	-5.32
	10200.00	1.21	194.30	25	10196.92	-99.77	99.77 S	51.30 E	112.19	152.79	0.41	0.40	-4.24
	10225.00	1.21	198.66	25	10221.91	-100.27	100.27 S	51.15 E	112.57	152.97	0.37	0.00	17.44
	10250.00	1.16	191.55	25	10246.90	-100.77	100.77 S	51.02 E	112.95	153.15	0.62	-0.20	-28.44
	10275.00	1.14	192.63	25	10271.90	-101.26	101.26 S	50.91 E	113.34	153.31	0.12	-0.08	4.32
	10300.00	1.03	189.40	25	10296.90	-101.73	101.73 S	50.82 E	113.72	153.45	0.50	-0.44	-12.92
	10325.00	0.92	193.70	25	10321.89	-102.14	102.14 S	50.74 E	114.05	153.59	0.53	-0.44	17.20
	10350.00	0.92	199.87	25	10346.89	-102.53	102.53 S	50.62 E	114.34	153.72	0.40	0.00	24.68
	10375.00	0.95	207.45	25	10371.89	-102.90	102.90 S	50.46 E	114.61	153.88	0.51	0.12	30.32
	10400.00	1.03	200.17	25	10396.88	-103.30	103.30 S	50.28 E	114.88	154.04	0.60	0.32	-29.12
	10425.00	0.97	195.27	25	10421.88	-103.71	103.71 S	50.15 E	115.20	154.19	0.42	-0.24	-19.60
	10450.00	0.86	188.05	25	10446.87	-104.10	104.10 S	50.07 E	115.51	154.31	0.64	-0.44	-28.88
	10475.00	0.83	186.38	25	10471.87	-104.47	104.47 S	50.02 E	115.82	154.41	0.16	-0.12	-6.68
	10500.00	0.82	190.50	25	10496.87	-104.82	104.82 S	49.97 E	116.12	154.51	0.24	-0.04	16.48



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Calculation Method: Minimum Curvature
 Proposed Azimuth: Ground
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	10525.00	0.92	185.22	25	10521.87	-105.20	105.20 S	49.92 E	116.44	154.61	0.51	0.40	-21.12
	10550.00	0.93	192.15	25	10546.86	-105.60	105.60 S	49.86 E	116.77	154.73	0.45	0.04	27.72
	10575.00	1.04	197.25	25	10571.86	-106.01	106.01 S	49.75 E	117.10	154.86	0.56	0.44	20.40
	10600.00	0.86	192.16	25	10596.86	-106.41	106.41 S	49.64 E	117.42	154.99	0.79	-0.72	-20.36
	10625.00	0.88	204.33	25	10621.85	-106.77	106.77 S	49.52 E	117.69	155.12	0.74	0.08	48.68
	10650.00	0.54	207.81	25	10646.85	-107.05	107.05 S	49.39 E	117.89	155.23	1.37	-1.36	13.92
	10675.00	0.45	190.28	25	10671.85	-107.25	107.25 S	49.32 E	118.04	155.31	0.70	-0.36	-70.12
	10700.00	0.45	193.49	25	10696.85	-107.44	107.44 S	49.28 E	118.20	155.36	0.10	0.00	12.84
	10725.00	0.71	209.27	25	10721.85	-107.67	107.67 S	49.18 E	118.37	155.45	1.21	1.04	63.12
	10750.00	0.56	202.40	25	10746.85	-107.92	107.92 S	49.05 E	118.55	155.56	0.67	-0.60	-27.48
	10775.00	0.54	201.16	25	10771.85	-108.14	108.14 S	48.97 E	118.71	155.64	0.09	-0.08	-4.96
	10800.00	0.46	201.22	25	10796.84	-108.35	108.35 S	48.89 E	118.86	155.71	0.32	-0.32	0.24
	10825.00	0.40	197.11	25	10821.84	-108.52	108.52 S	48.82 E	119.00	155.78	0.27	-0.24	-16.44
	10850.00	0.20	127.08	25	10846.84	-108.63	108.63 S	48.83 E	119.10	155.79	1.53	-0.80	-280.12
	10875.00	0.50	84.82	25	10871.84	-108.65	108.65 S	48.98 E	119.18	155.74	1.51	1.20	-169.04
	10900.00	0.66	61.15	25	10896.84	-108.57	108.57 S	49.21 E	119.20	155.62	1.14	0.64	-94.68
	10925.00	0.50	53.85	25	10921.84	-108.44	108.44 S	49.43 E	119.17	155.50	0.70	-0.64	-29.20
	10950.00	0.53	38.23	25	10946.84	-108.28	108.28 S	49.59 E	119.09	155.40	0.57	0.12	-62.48
	10975.00	0.45	12.53	25	10971.84	-108.09	108.09 S	49.68 E	118.96	155.32	0.93	-0.32	-102.80
	11000.00	0.55	25.04	25	10996.84	-107.89	107.89 S	49.75 E	118.81	155.24	0.59	0.40	50.04
	11025.00	0.64	340.60	25	11021.84	-107.65	107.65 S	49.75 E	118.59	155.19	1.83	0.36	1262.24
	11050.00	0.65	322.11	25	11046.83	-107.41	107.41 S	49.62 E	118.31	155.20	0.83	0.04	-73.96
	11075.00	0.66	356.17	25	11071.83	-107.15	107.15 S	49.52 E	118.04	155.19	1.54	0.04	136.24
	11100.00	1.00	336.16	25	11096.83	-106.81	106.81 S	49.43 E	117.69	155.17	1.77	1.36	-80.04
	11125.00	1.02	319.24	25	11121.83	-106.44	106.44 S	49.19 E	117.26	155.19	1.19	0.08	-67.68
	11150.00	1.18	324.14	25	11146.82	-106.06	106.06 S	48.90 E	116.79	155.25	0.74	0.64	19.60
	11175.00	1.40	328.03	25	11171.82	-105.59	105.59 S	48.58 E	116.23	155.29	0.95	0.88	15.56
	11200.00	1.38	305.42	25	11196.81	-105.16	105.16 S	48.18 E	115.67	155.39	2.18	-0.08	-90.44
	11225.00	1.39	310.29	25	11221.80	-104.79	104.79 S	47.70 E	115.14	155.52	0.47	0.04	19.48
	11250.00	1.55	323.02	25	11246.79	-104.32	104.32 S	47.27 E	114.53	155.63	1.45	0.64	50.92



Company: Devon
 Well: Harroun Trust 30-1
 Location: Eddy Co., New Mexico
 Rig: Renegade Mast

Job Number: 62910
 Grid Corr.: -0.17
 Lat: 32.27
 Long: -104.02

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: Ground
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	11275.00	1.41	312.16	25	11271.78	-103.85	103.85 S	46.84 E	113.92	155.72	1.25	-0.56	-43.44
	11300.00	1.57	307.69	25	11296.78	-103.43	103.43 S	46.34 E	113.34	155.87	0.79	0.64	-17.88

Submit to Appropriate
District Office
State Leases - 4 copies
Fee Leases - 3 copies

State of Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Benito Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Santa Fe Energy Operating Partners, L P			Lease Harroun Trust		Well No. 1
Unit Letter 0	Section 30	Township 23 South	Range 29 East	County NMNM Eddy	
Actual Footage Location of Well: 660 feet from the South line and 2310 feet from the East line					
Ground level Elev. 2959.8	Producing Formation Morrow		Pool Und. Cedar Canyon Morrow		Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☒ Yes ☐ No If answer is "yes" type of consolidation Lease Pooling Provisions

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Michael R. Burton

Printed Name

Michael R. Burton

Position District Drilling Engineer

Company Santa Fe Energy Operating Partners, L.P.

Date

August 25, 1989

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 correct to the best of my knowledge and belief.

Date Surveyed

August 14, 1989

Signature & Seal of Professional Surveyor

Certificate No.

676

3239

RONALD J. ELLISON

JOHN W. WEST

NEW MEXICO

REGISTERED PROFESSIONAL SURVEYOR

1288320

