

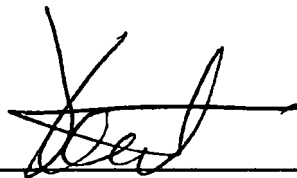
HALLIBURTON

3950 Interwood S. Pkwy • Houston, TX 77032
PHONE 281.986.4400 • FAX 281.986.4499

HOBBS OCD
AUG 07 2019
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State of New Mexico, Lea County

I, Jim Short certify that I am employed by Halliburton Energy Services, Inc. (aka Sperry Drilling) and that on the dates of November 19, 2018 through January 02, 2019, I did conduct or supervise the taking of MWD directional surveys for the Chiles 28-21 State Com 3H well from a depth of 172' MD to a depth of 22056' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling). I am authorized and qualified to make this report and these surveys were conducted at the request of Devon Energy, for the Chiles 28-21 State Com 3H well in Lea County. I have reviewed this report and find that it confirms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling.)



Jim Short
Field Engineer

HALLIBURTON

3950 Interwood South Parkway Houston, TX 77032
Phone 281-986-4400 Fax 281-986-4499

June 27, 2019

Devon Energy Corporation
via E-mail at: DBBUREgulatory@dvn.com

Final Survey for:

Customer: Devon Energy Corporation
Well Name: Chiles 28-21 State Fed Com 3H
Parish: Lea County, NM
Rig Name: Nabors X20
Sperry Job #: 905293737
API #: 30-025-45352

Enclosed you will find the following survey information on the above referenced well:

- 1 *Survey Report(s)*
- 1 *Certified Letters for Out of State MMS*

We appreciate the opportunity to serve you and welcome any comments or suggestions that you may have regarding our service. You may contact your local sales representative, Taber Wood at (881) 162-2202.

Should you have any questions or require additional information regarding the enclosed information, please do not hesitate to contact me.

Once again, we thank you for your business.

Sincerely,



Diane Velasquez
Sperry Drilling Services
(281) 986-4437

Devon Energy Corporation

WELL DETAILS: Chiles 28-21 State Com 3H

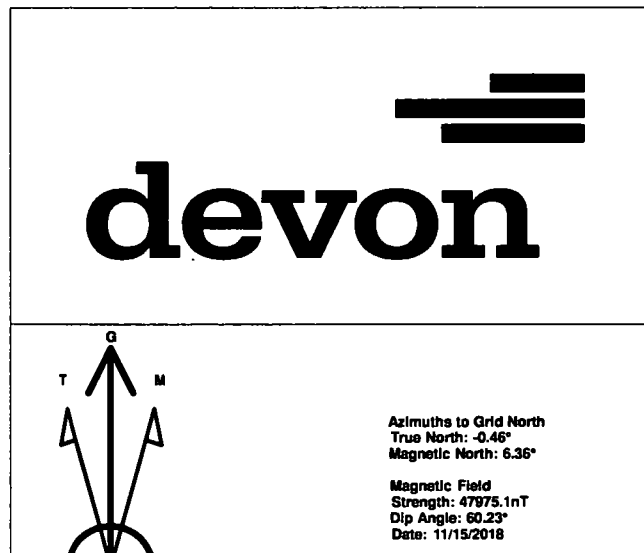
RKB (Nabors X20) 32' + GL @ 3744.0usft
3712.0

Northing 526108.10 Easting 806438.30 Latitude 32° 26' 36.256 N Longitude 103° 28' 26.360 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
172.0	0.28	303.63	172.0	0.2	-0.3	0.2	0.4	First MWD Survey
9857.0	8.29	257.37	9769.7	-292.3	-931.4	-292.3	1017.4	Cross Section Line 9857' MD(0.0117' FSL, 1976.7321' FWL Sec 28)
11341.0	3.38	350.45	11248.6	-268.3	-984.2	-268.3	1111.4	KOP 11341' MD (24.1451' FSL, 1924.0458' FWL of Section 28)
11587.0	32.95	346.85	11478.4	-192.9	-1009.3	-192.9	1191.3	FTP 100' FSL 11587' MD/11478' TVD(100.37' FSL, 1899.71' FWL of Section 28)
16871.0	89.06	359.54	11821.7	4985.2	-1074.7	4985.2	6372.5	Cross Section Line 16871' MD (0.2741' FSL, 1878.9557' FWL of Section 21)
22055.0	96.26	357.61	11677.4	10162.4	-1127.5	10162.4	11551.4	LTP 100' FNL 22055' MD/11677' TVD(100.77' FNL, 1871.21' FWL of Section 21)
22056.0	96.27	357.61	11677.3	10163.4	-1127.5	10163.4	11552.4	Last MWD Survey
22111.0	96.27	357.61	11671.3	10218.0	-1129.8	10218.0	11607.1	Projection to TD 22111' MD/11671 (46.12' FNL, 1869.39' FWL of Section 21)

1200
1600
2000
2400
2800
3200
3600
4000
4400
1 (400 usft/in)

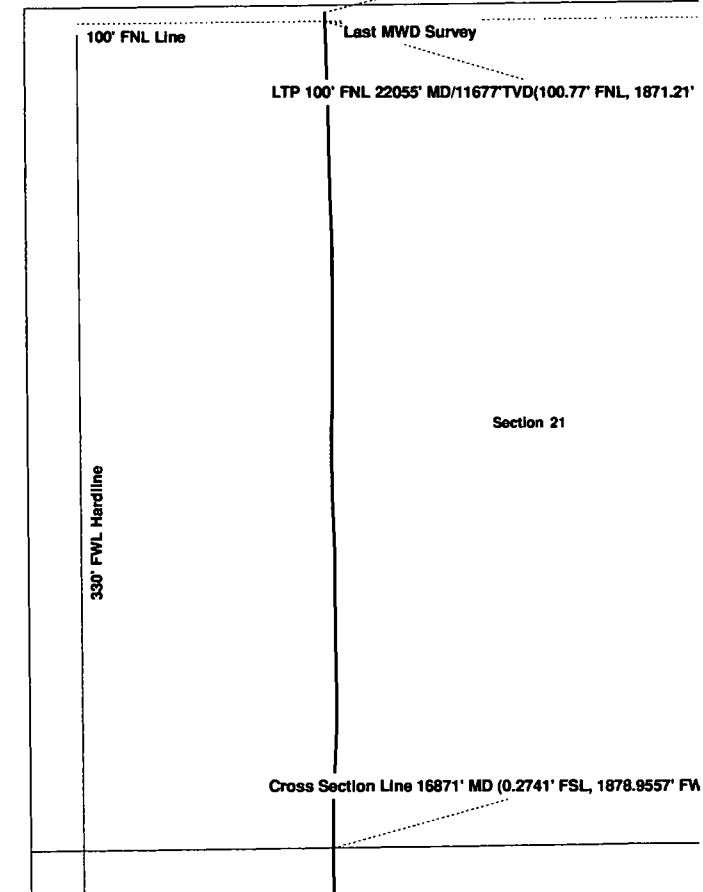


Azimuths to Grid North
True North: -0.46°
Magnetic North: 6.36°

Magnetic Field
Strength: 47975.1nT
Dip Angle: 60.23°
Date: 11/15/2018

West(-)/East(+) (400 usft/in)
-3200 -2800 -2400 -2000 -1600 -1200 -800 -400 0 400 800 1200

Projection to TD 22111' MD/11671 (46.12' FNL, 1869.39' FWL of Se



Devon Energy Corporation

Lea County, NM (NAD 83)

Sec 28 - 21S - 34E

Chiles 28-21 State Com 3H

Actual Drilled

Design: Actual Drilled

Survey Report - Geographic

27 June, 2019

Halliburton

Survey Report - Geographic

Company:	Devon Energy Corporation	Local Co-ordinate Reference:	Well Chiles 28-21 State Com 3H
Project:	Lea County, NM (NAD 83)	TVD Reference:	RKB (Nabors X20) 32' + GL @ 3744.0usft
Site:	Sec 28 - 21S - 34E	MD Reference:	RKB (Nabors X20) 32' + GL @ 3744.0usft
Well:	Chiles 28-21 State Com 3H	North Reference:	Grid
Wellbore:	Actual Drilled	Survey Calculation Method:	Minimum Curvature
Design:	Actual Drilled	Database:	SOUTH US

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 28 - 21S - 34E				
Site Position:		Northing:	526,108.60 usft	Latitude:	32° 26' 36.256 N
From:	Map	Easting:	806,497.80 usft	Longitude:	103° 28' 25.666 W
Position Uncertainty:	5.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	Chiles 28-21 State Com 3H				
Well Position	+N/-S	0.0 usft	Northing:	526,108.10 usft	Latitude: 32° 26' 36.256 N
	+E/-W	0.0 usft	Easting:	806,438.30 usft	Longitude: 103° 28' 26.360 W
Position Uncertainty		0.5 usft	Wellhead Elevation:	usft	Ground Level: 3,712.0 usft

Wellbore	Actual Drilled				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2018	11/15/2018	6.82	60.23	47,975.10432233

Design	Actual Drilled				
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		0.00

Survey Program	Date	6/27/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
172.0	22,058.0	MWD (Actual Drilled)	2_MWD	A001Mb/ISC4: BGGM declination correction only	
22,111.0	22,111.0	Projection to TD (Actual Drilled)	2_Blind	A026Ua: Blind drilling - no survey data	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	526,108.10	806,438.30	32° 26' 36.256 N	103° 28' 26.360 W	
172.0	0.28	303.63	172.0	0.2	-0.3	526,108.33	806,437.95	32° 26' 36.258 N	103° 28' 26.364 W	
First MWD Survey										
315.0	0.28	331.31	315.0	0.7	-0.8	526,108.83	806,437.49	32° 26' 36.263 N	103° 28' 26.370 W	
413.0	0.22	354.00	413.0	1.1	-0.9	526,109.23	806,437.35	32° 26' 36.267 N	103° 28' 26.371 W	
503.0	0.18	347.09	503.0	1.4	-1.0	526,109.54	806,437.31	32° 26' 36.270 N	103° 28' 26.372 W	
593.0	0.15	30.66	593.0	1.7	-1.0	526,109.78	806,437.33	32° 26' 36.272 N	103° 28' 26.371 W	
684.0	0.26	296.15	684.0	1.9	-1.1	526,109.97	806,437.21	32° 26' 36.274 N	103° 28' 26.373 W	
778.0	0.26	344.37	778.0	2.2	-1.3	526,110.27	806,436.96	32° 26' 36.277 N	103° 28' 26.376 W	
872.0	0.46	357.26	872.0	2.8	-1.4	526,110.86	806,436.88	32° 26' 36.283 N	103° 28' 26.377 W	
959.0	0.51	8.14	959.0	3.5	-1.4	526,111.59	806,436.92	32° 26' 36.290 N	103° 28' 26.376 W	

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Survey Report - Geographic

Company:	Devon Energy Corporation	Local Co-ordinate Reference:	Well Chiles 28-21 State Com 3H
Project:	Lea County, NM (NAD 83)	TVD Reference:	RKB (Nabors X20) 32' + GL @ 3744.0usft
Site:	Sec 28 - 21S - 34E	MD Reference:	RKB (Nabors X20) 32' + GL @ 3744.0usft
Well:	Chiles 28-21 State Com 3H	North Reference:	Grid
Wellbore:	Actual Drilled	Survey Calculation Method:	Minimum Curvature
Design:	Actual Drilled	Database:	SOUTH US

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,049.0	0.45	5.40	1,049.0	4.2	-1.3	526,112.34	806,437.01	32° 26' 36.298 N	103° 28' 26.375 W
1,135.0	0.47	12.57	1,135.0	4.9	-1.2	526,113.02	806,437.12	32° 26' 36.304 N	103° 28' 26.374 W
1,225.0	0.38	30.35	1,225.0	5.5	-0.9	526,113.63	806,437.35	32° 26' 36.310 N	103° 28' 26.371 W
1,316.0	0.34	29.36	1,316.0	6.0	-0.7	526,114.13	806,437.64	32° 26' 36.315 N	103° 28' 26.367 W
1,408.0	0.38	41.51	1,408.0	6.5	-0.3	526,114.60	806,437.97	32° 26' 36.320 N	103° 28' 26.364 W
1,499.0	0.43	36.66	1,499.0	7.0	0.1	526,115.10	806,438.38	32° 26' 36.325 N	103° 28' 26.359 W
1,593.0	0.22	55.08	1,593.0	7.4	0.4	526,115.48	806,438.74	32° 26' 36.329 N	103° 28' 26.355 W
1,685.0	0.19	42.03	1,685.0	7.6	0.7	526,115.70	806,438.98	32° 26' 36.331 N	103° 28' 26.352 W
1,779.0	0.25	63.37	1,779.0	7.8	1.0	526,115.90	806,439.27	32° 26' 36.333 N	103° 28' 26.348 W
1,875.0	0.20	78.13	1,875.0	7.9	1.3	526,116.03	806,439.62	32° 26' 36.334 N	103° 28' 26.344 W
1,906.0	0.55	49.56	1,906.0	8.0	1.5	526,116.14	806,439.79	32° 26' 36.335 N	103° 28' 26.342 W
1,999.0	0.59	64.66	1,999.0	8.5	2.3	526,116.64	806,440.56	32° 26' 36.340 N	103° 28' 26.333 W
2,094.0	0.68	83.75	2,094.0	8.8	3.3	526,116.91	806,441.56	32° 26' 36.343 N	103° 28' 26.321 W
2,187.0	0.46	93.37	2,187.0	8.8	4.2	526,116.94	806,442.48	32° 26' 36.343 N	103° 28' 26.311 W
2,281.0	0.46	75.02	2,281.0	8.9	4.9	526,117.02	806,443.23	32° 26' 36.344 N	103° 28' 26.302 W
2,376.0	0.11	70.80	2,376.0	9.0	5.4	526,117.15	806,443.68	32° 26' 36.345 N	103° 28' 26.297 W
2,470.0	0.31	8.38	2,470.0	9.3	5.5	526,117.43	806,443.80	32° 26' 36.348 N	103° 28' 26.295 W
2,564.0	0.13	111.17	2,564.0	9.5	5.6	526,117.64	806,443.94	32° 26' 36.350 N	103° 28' 26.294 W
2,659.0	0.13	65.96	2,659.0	9.5	5.8	526,117.65	806,444.14	32° 26' 36.350 N	103° 28' 26.291 W
2,753.0	0.11	77.26	2,753.0	9.6	6.0	526,117.71	806,444.32	32° 26' 36.350 N	103° 28' 26.289 W
2,848.0	0.37	62.85	2,847.9	9.8	6.4	526,117.87	806,444.68	32° 26' 36.352 N	103° 28' 26.285 W
2,942.0	0.28	85.11	2,941.9	9.9	6.9	526,118.03	806,445.18	32° 26' 36.353 N	103° 28' 26.279 W
3,036.0	0.59	234.67	3,035.9	9.7	6.7	526,117.77	806,445.02	32° 26' 36.351 N	103° 28' 26.281 W
3,130.0	1.90	236.41	3,129.9	8.5	5.0	526,116.63	806,443.32	32° 26' 36.340 N	103° 28' 26.301 W
3,224.0	3.35	232.59	3,223.8	6.0	1.5	526,114.10	806,439.84	32° 26' 36.315 N	103° 28' 26.342 W
3,318.0	4.16	243.88	3,317.6	2.8	-3.7	526,110.93	806,434.60	32° 26' 36.284 N	103° 28' 26.403 W
3,412.0	5.11	253.56	3,411.3	0.1	-10.8	526,108.24	806,427.53	32° 26' 36.258 N	103° 28' 26.486 W
3,506.0	6.36	258.94	3,504.8	-2.0	-19.9	526,106.06	806,418.40	32° 26' 36.237 N	103° 28' 26.593 W
3,600.0	7.11	253.56	3,598.2	-4.7	-30.6	526,103.41	806,407.71	32° 26' 36.212 N	103° 28' 26.718 W
3,694.0	6.93	253.87	3,691.5	-7.9	-41.6	526,100.19	806,396.68	32° 26' 36.181 N	103° 28' 26.847 W
3,788.0	6.99	251.85	3,784.8	-11.3	-52.5	526,096.83	806,385.80	32° 26' 36.148 N	103° 28' 26.974 W
3,883.0	7.77	248.13	3,879.0	-15.5	-64.0	526,092.64	806,374.35	32° 26' 36.108 N	103° 28' 27.108 W
3,977.0	7.71	249.41	3,972.2	-20.0	-75.8	526,088.05	806,362.55	32° 26' 36.063 N	103° 28' 27.246 W
4,071.0	7.24	251.04	4,065.4	-24.2	-87.3	526,083.91	806,351.04	32° 26' 36.023 N	103° 28' 27.381 W
4,165.0	6.74	252.04	4,158.7	-27.8	-98.1	526,080.29	806,340.19	32° 26' 35.988 N	103° 28' 27.508 W
4,258.0	6.25	254.51	4,251.1	-30.8	-108.2	526,077.25	806,330.12	32° 26' 35.959 N	103° 28' 27.625 W
4,352.0	5.99	257.76	4,344.5	-33.3	-117.9	526,074.85	806,320.40	32° 26' 35.936 N	103° 28' 27.739 W
4,447.0	5.43	258.46	4,439.0	-35.2	-127.1	526,072.90	806,311.15	32° 26' 35.917 N	103° 28' 27.847 W
4,541.0	5.11	265.14	4,532.7	-36.5	-135.7	526,071.65	806,302.62	32° 26' 35.906 N	103° 28' 27.947 W
4,635.0	5.33	270.55	4,626.3	-36.8	-144.2	526,071.34	806,294.09	32° 26' 35.903 N	103° 28' 28.047 W
4,730.0	5.11	270.36	4,720.9	-36.7	-152.9	526,071.41	806,285.44	32° 26' 35.905 N	103° 28' 28.147 W
4,824.0	5.15	272.03	4,814.5	-36.5	-161.3	526,071.58	806,277.04	32° 26' 35.907 N	103° 28' 28.245 W
4,918.0	5.13	271.61	4,908.1	-36.3	-169.7	526,071.85	806,268.62	32° 26' 35.910 N	103° 28' 28.344 W
5,013.0	4.84	271.68	5,002.8	-36.0	-177.9	526,072.09	806,260.37	32° 26' 35.913 N	103° 28' 28.440 W
5,107.0	4.53	271.81	5,096.4	-35.8	-185.6	526,072.32	806,252.70	32° 26' 35.916 N	103° 28' 28.529 W
5,201.0	4.34	272.79	5,190.2	-35.5	-192.9	526,072.61	806,245.43	32° 26' 35.920 N	103° 28' 28.614 W
5,295.0	3.92	273.72	5,283.9	-35.1	-199.6	526,072.99	806,238.68	32° 26' 35.924 N	103° 28' 28.693 W
5,390.0	3.79	276.52	5,378.7	-34.5	-206.0	526,073.56	806,232.32	32° 26' 35.930 N	103° 28' 28.767 W
5,484.0	3.35	272.08	5,472.5	-34.1	-211.8	526,074.01	806,226.48	32° 26' 35.935 N	103° 28' 28.835 W
5,578.0	3.02	272.36	5,566.4	-33.9	-217.0	526,074.21	806,221.27	32° 26' 35.938 N	103° 28' 28.896 W
5,671.0	3.08	271.08	5,659.2	-33.7	-222.0	526,074.36	806,216.32	32° 26' 35.939 N	103° 28' 28.954 W
5,755.0	3.04	265.93	5,743.1	-33.9	-226.5	526,074.25	806,211.84	32° 26' 35.939 N	103° 28' 29.006 W
5,833.0	2.79	269.65	5,821.0	-34.0	-230.4	526,074.09	806,207.88	32° 26' 35.937 N	103° 28' 29.052 W
5,927.0	3.32	264.01	5,914.9	-34.3	-235.4	526,073.79	806,202.89	32° 26' 35.935 N	103° 28' 29.110 W
6,021.0	4.58	256.39	6,008.7	-35.5	-241.8	526,072.62	806,196.53	32° 26' 35.924 N	103° 28' 29.185 W

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Survey Report - Geographic

Company: Devon Energy Corporation	Local Co-ordinate Reference: Well Chiles 28-21 State Com 3H
Project: Lea County, NM (NAD 83)	TVD Reference: RKB (Nabors X20) 32' + GL @ 3744.0usft
Site: Sec 28 - 21S - 34E	MD Reference: RKB (Nabors X20) 32' + GL @ 3744.0usft
Well: Chiles 28-21 State Com 3H	North Reference: Grid
Wellbore: Actual Drilled	Survey Calculation Method: Minimum Curvature
Design: Actual Drilled	Database: SOUTH US

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,116.0	6.23	256.08	6,103.2	-37.6	-250.5	526,070.49	806,187.84	32° 26' 35.903 N	103° 28' 29.286 W
6,210.0	7.61	257.36	6,196.6	-40.2	-261.5	526,067.90	806,176.82	32° 26' 35.879 N	103° 28' 29.415 W
6,305.0	8.76	258.59	6,290.6	-43.3	-274.7	526,064.85	806,163.64	32° 26' 35.850 N	103° 28' 29.569 W
6,399.0	9.69	251.57	6,383.4	-47.4	-289.1	526,060.69	806,149.17	32° 26' 35.810 N	103° 28' 29.738 W
6,493.0	10.81	249.95	6,475.9	-52.9	-304.9	526,055.16	806,133.39	32° 26' 35.756 N	103° 28' 29.923 W
6,587.0	11.99	248.94	6,568.0	-59.5	-322.3	526,048.63	806,115.99	32° 26' 35.693 N	103° 28' 30.127 W
6,682.0	12.69	247.57	6,660.8	-67.0	-341.2	526,041.10	806,097.14	32° 26' 35.620 N	103° 28' 30.347 W
6,776.0	12.60	246.85	6,752.5	-75.0	-360.1	526,033.13	806,078.17	32° 26' 35.543 N	103° 28' 30.570 W
6,870.0	12.32	246.44	6,844.3	-83.0	-378.7	526,025.10	806,059.55	32° 26' 35.464 N	103° 28' 30.788 W
6,964.0	11.78	246.20	6,936.2	-90.9	-396.7	526,017.21	806,041.58	32° 26' 35.388 N	103° 28' 30.998 W
7,058.0	11.25	244.68	7,028.4	-98.7	-413.8	526,009.42	806,024.51	32° 26' 35.312 N	103° 28' 31.198 W
7,152.0	10.24	242.98	7,120.7	-106.4	-429.5	526,001.70	806,008.78	32° 26' 35.237 N	103° 28' 31.382 W
7,247.0	11.85	243.35	7,213.9	-114.6	-445.8	525,993.49	805,992.54	32° 26' 35.157 N	103° 28' 31.573 W
7,340.0	12.81	249.80	7,304.8	-122.5	-464.0	525,985.65	805,974.32	32° 26' 35.081 N	103° 28' 31.786 W
7,434.0	12.42	248.38	7,396.5	-129.8	-483.2	525,978.33	805,955.15	32° 26' 35.010 N	103° 28' 32.010 W
7,528.0	12.86	247.98	7,488.3	-137.4	-502.2	525,970.68	805,936.05	32° 26' 34.936 N	103° 28' 32.234 W
7,623.0	11.86	245.28	7,581.1	-145.5	-520.9	525,962.63	805,917.38	32° 26' 34.858 N	103° 28' 32.452 W
7,717.0	11.63	246.46	7,673.1	-153.3	-538.4	525,954.81	805,899.92	32° 26' 34.782 N	103° 28' 32.657 W
7,811.0	11.73	251.72	7,765.1	-160.1	-556.1	525,948.03	805,882.16	32° 26' 34.716 N	103° 28' 32.865 W
7,905.0	12.46	255.99	7,857.1	-165.5	-575.0	525,942.57	805,863.25	32° 26' 34.664 N	103° 28' 33.086 W
7,999.0	13.79	256.19	7,948.6	-170.7	-595.8	525,937.45	805,842.53	32° 26' 34.614 N	103° 28' 33.328 W
8,094.0	12.45	253.54	8,041.1	-176.3	-616.6	525,931.84	805,821.71	32° 26' 34.561 N	103° 28' 33.572 W
8,188.0	13.42	256.96	8,132.7	-181.6	-636.9	525,926.51	805,801.37	32° 26' 34.510 N	103° 28' 33.809 W
8,282.0	13.70	261.88	8,224.1	-185.6	-658.6	525,922.47	805,779.72	32° 26' 34.471 N	103° 28' 34.062 W
8,376.0	12.38	259.82	8,315.7	-189.0	-679.5	525,919.12	805,758.78	32° 26' 34.440 N	103° 28' 34.307 W
8,470.0	12.78	264.14	8,407.4	-191.8	-699.8	525,916.28	805,738.52	32° 26' 34.413 N	103° 28' 34.544 W
8,565.0	11.41	255.37	8,500.3	-195.3	-719.3	525,912.83	805,718.97	32° 26' 34.381 N	103° 28' 34.772 W
8,659.0	13.22	253.60	8,592.2	-200.7	-738.6	525,907.45	805,699.66	32° 26' 34.329 N	103° 28' 34.998 W
8,753.0	12.54	253.37	8,683.8	-206.6	-758.7	525,901.49	805,679.58	32° 26' 34.272 N	103° 28' 35.233 W
8,847.0	12.98	255.47	8,775.5	-212.2	-778.7	525,895.92	805,659.58	32° 26' 34.218 N	103° 28' 35.467 W
8,940.0	13.10	254.46	8,866.1	-217.6	-799.0	525,890.48	805,639.31	32° 26' 34.166 N	103° 28' 35.704 W
9,035.0	12.14	249.79	8,958.8	-224.0	-818.7	525,884.14	805,619.57	32° 26' 34.105 N	103° 28' 35.935 W
9,129.0	10.34	244.35	9,051.0	-231.0	-835.6	525,877.08	805,602.68	32° 26' 34.036 N	103° 28' 36.132 W
9,223.0	9.52	240.08	9,143.6	-238.6	-850.0	525,869.55	805,588.34	32° 26' 33.963 N	103° 28' 36.300 W
9,316.0	8.79	233.81	9,235.4	-246.6	-862.4	525,861.52	805,575.94	32° 26' 33.884 N	103° 28' 36.446 W
9,409.0	8.27	227.84	9,327.4	-255.3	-873.1	525,852.83	805,565.25	32° 26' 33.799 N	103° 28' 36.571 W
9,504.0	9.20	226.29	9,421.3	-265.1	-883.6	525,843.00	805,554.69	32° 26' 33.703 N	103° 28' 36.696 W
9,598.0	8.50	221.01	9,514.1	-275.5	-893.6	525,832.56	805,544.70	32° 26' 33.600 N	103° 28' 36.813 W
9,692.0	10.53	249.23	9,606.9	-283.8	-906.2	525,824.27	805,532.10	32° 26' 33.519 N	103° 28' 36.961 W
9,787.0	9.00	250.58	9,700.5	-289.4	-921.3	525,818.72	805,516.98	32° 26' 33.466 N	103° 28' 37.138 W
9,857.0	8.29	257.37	9,769.7	-292.3	-931.4	525,815.79	805,506.89	32° 26' 33.437 N	103° 28' 37.256 W
Cross Section Line 9857' MD(0.0117' FSL, 1976.7321' FWL Sec 28)									
9,881.0	8.08	259.95	9,793.5	-293.0	-934.8	525,815.12	805,503.54	32° 26' 33.431 N	103° 28' 37.295 W
9,975.0	9.14	282.51	9,886.4	-292.5	-948.6	525,815.59	805,489.74	32° 26' 33.437 N	103° 28' 37.456 W
10,070.0	8.40	306.04	9,980.4	-286.8	-961.5	525,821.31	805,476.76	32° 26' 33.494 N	103° 28' 37.607 W
10,164.0	8.70	318.51	10,073.3	-277.4	-971.8	525,830.67	805,466.50	32° 26' 33.588 N	103° 28' 37.726 W
10,258.0	6.76	318.38	10,166.5	-268.0	-980.2	525,840.13	805,458.11	32° 26' 33.682 N	103° 28' 37.823 W
10,353.0	3.47	322.23	10,261.1	-261.5	-985.7	525,846.59	805,452.64	32° 26' 33.746 N	103° 28' 37.886 W
10,447.0	1.28	333.22	10,355.0	-258.3	-987.9	525,849.77	805,450.42	32° 26' 33.778 N	103° 28' 37.912 W
10,542.0	0.50	2.77	10,450.0	-257.0	-988.3	525,851.13	805,449.96	32° 26' 33.792 N	103° 28' 37.917 W
10,637.0	0.56	73.13	10,545.0	-256.4	-987.9	525,851.68	805,450.43	32° 26' 33.797 N	103° 28' 37.911 W
10,731.0	1.23	116.36	10,639.0	-256.7	-986.5	525,851.37	805,451.77	32° 26' 33.794 N	103° 28' 37.896 W
10,825.0	0.31	85.77	10,733.0	-257.2	-985.4	525,850.94	805,452.93	32° 26' 33.789 N	103° 28' 37.882 W
10,920.0	0.90	276.69	10,827.9	-257.1	-985.9	525,851.05	805,452.44	32° 26' 33.791 N	103° 28' 37.888 W
11,014.0	1.19	241.14	10,921.9	-257.4	-987.4	525,850.66	805,450.86	32° 26' 33.787 N	103° 28' 37.906 W

Halliburton

Survey Report - Geographic

Company:	Devon Energy Corporation	Local Co-ordinate Reference:	Well Chiles 28-21 State Com 3H
Project:	Lea County, NM (NAD 83)	TVD Reference:	RKB (Nabors X20) 32' + GL @ 3744.0usft
Site:	Sec 28 - 21S - 34E	MD Reference:	RKB (Nabors X20) 32' + GL @ 3744.0usft
Well:	Chiles 28-21 State Com 3H	North Reference:	Grid
Wellbore:	Actual Drilled	Survey Calculation Method:	Minimum Curvature
Design:	Actual Drilled	Database:	SOUTH US

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
11,107.0	2.69	175.43	11,014.9	-260.1	-988.1	525,848.02	805,450.18	32° 26' 33.761 N	103° 28' 37.915 W	
11,200.0	3.51	149.16	11,107.8	-264.7	-986.5	525,843.40	805,451.82	32° 26' 33.715 N	103° 28' 37.896 W	
11,294.0	2.17	156.78	11,201.6	-268.8	-984.3	525,839.29	805,453.99	32° 26' 33.674 N	103° 28' 37.871 W	
11,341.0	3.38	350.45	11,248.6	-268.3	-984.2	525,839.84	805,454.12	32° 26' 33.680 N	103° 28' 37.869 W	
KOP 11341' MD (24.1451' FSL, 1924.0458' FWL of Section 28)										
11,388.0	9.22	337.40	11,295.3	-263.4	-985.9	525,844.69	805,452.44	32° 26' 33.728 N	103° 28' 37.889 W	
11,435.0	16.03	337.73	11,341.2	-253.9	-989.8	525,854.18	805,448.53	32° 26' 33.822 N	103° 28' 37.933 W	
11,482.0	22.86	339.49	11,385.4	-239.3	-995.4	525,868.75	805,442.86	32° 26' 33.967 N	103° 28' 37.998 W	
11,530.0	26.78	342.14	11,429.0	-220.3	-1,002.0	525,887.79	805,436.28	32° 26' 34.155 N	103° 28' 38.073 W	
11,577.0	31.93	346.91	11,470.0	-198.1	-1,008.1	525,909.99	805,430.21	32° 26' 34.376 N	103° 28' 38.142 W	
11,587.0	32.95	346.85	11,478.4	-192.9	-1,009.3	525,915.21	805,428.99	32° 26' 34.427 N	103° 28' 38.156 W	
FTP 100' FSL 11587' MD/11478' TVD(100.37' FSL, 1899.71' FWL of Section 28)										
11,624.0	36.74	346.67	11,508.8	-172.3	-1,014.1	525,935.79	805,424.15	32° 26' 34.631 N	103° 28' 38.210 W	
11,671.0	42.44	352.54	11,545.0	-142.9	-1,019.5	525,965.23	805,418.84	32° 26' 34.923 N	103° 28' 38.269 W	
11,718.0	48.15	355.83	11,578.0	-109.7	-1,022.8	525,998.44	805,415.51	32° 26' 35.252 N	103° 28' 38.305 W	
11,765.0	53.18	357.22	11,607.8	-73.4	-1,025.0	526,034.71	805,413.32	32° 26' 35.611 N	103° 28' 38.327 W	
11,812.0	58.00	359.93	11,634.4	-34.6	-1,025.9	526,073.46	805,412.38	32° 26' 35.994 N	103° 28' 38.335 W	
11,860.0	60.78	358.90	11,658.8	6.7	-1,026.3	526,114.76	805,411.96	32° 26' 36.403 N	103° 28' 38.336 W	
11,907.0	62.03	357.35	11,681.3	47.9	-1,027.7	526,156.01	805,410.60	32° 26' 36.811 N	103° 28' 38.348 W	
11,954.0	64.56	356.56	11,702.4	89.8	-1,029.9	526,197.93	805,408.37	32° 26' 37.226 N	103° 28' 38.370 W	
12,001.0	67.43	358.19	11,721.5	132.7	-1,031.9	526,240.81	805,406.41	32° 26' 37.651 N	103° 28' 38.389 W	
12,048.0	68.49	358.22	11,739.2	176.3	-1,033.3	526,284.36	805,405.05	32° 26' 38.082 N	103° 28' 38.400 W	
12,095.0	69.80	357.38	11,755.9	220.1	-1,034.9	526,328.24	805,403.36	32° 26' 38.516 N	103° 28' 38.416 W	
12,143.0	72.27	357.22	11,771.5	265.5	-1,037.1	526,373.58	805,401.22	32° 26' 38.965 N	103° 28' 38.437 W	
12,190.0	73.48	356.87	11,785.3	310.3	-1,039.4	526,418.44	805,398.90	32° 26' 39.409 N	103° 28' 38.460 W	
12,237.0	80.76	357.43	11,795.8	356.1	-1,041.7	526,464.17	805,396.63	32° 26' 39.862 N	103° 28' 38.482 W	
12,305.0	87.26	358.88	11,802.9	423.6	-1,043.8	526,531.73	805,394.46	32° 26' 40.530 N	103° 28' 38.501 W	
12,351.0	87.17	358.41	11,805.1	469.6	-1,044.9	526,577.66	805,393.37	32° 26' 40.985 N	103° 28' 38.509 W	
12,442.0	90.31	359.69	11,807.1	560.5	-1,046.4	526,668.61	805,391.87	32° 26' 41.885 N	103° 28' 38.518 W	
12,534.0	91.04	358.31	11,806.1	652.5	-1,048.0	526,760.59	805,390.26	32° 26' 42.795 N	103° 28' 38.528 W	
12,629.0	89.69	0.16	11,805.5	747.5	-1,049.3	526,855.57	805,388.99	32° 26' 43.735 N	103° 28' 38.534 W	
12,722.0	90.43	0.42	11,805.4	840.5	-1,048.8	526,948.57	805,389.46	32° 26' 44.655 N	103° 28' 38.520 W	
12,817.0	91.39	0.67	11,803.9	935.4	-1,047.9	527,043.55	805,390.37	32° 26' 45.595 N	103° 28' 38.501 W	
12,911.0	86.76	0.38	11,805.4	1,029.4	-1,047.1	527,137.51	805,391.23	32° 26' 46.524 N	103° 28' 38.482 W	
13,005.0	88.64	359.03	11,809.1	1,123.3	-1,047.6	527,231.43	805,390.74	32° 26' 47.454 N	103° 28' 38.479 W	
13,100.0	91.02	357.59	11,809.4	1,218.3	-1,050.4	527,326.38	805,387.94	32° 26' 48.393 N	103° 28' 38.503 W	
13,194.0	91.05	357.39	11,807.7	1,312.2	-1,054.5	527,420.27	805,383.83	32° 26' 49.323 N	103° 28' 38.542 W	
13,288.0	91.75	358.02	11,805.4	1,406.1	-1,058.2	527,514.17	805,380.06	32° 26' 50.252 N	103° 28' 38.577 W	
13,382.0	93.92	358.11	11,800.8	1,499.9	-1,061.4	527,607.99	805,376.89	32° 26' 51.181 N	103° 28' 38.605 W	
13,476.0	94.63	357.93	11,793.8	1,593.6	-1,064.6	527,701.67	805,373.65	32° 26' 52.108 N	103° 28' 38.634 W	
13,571.0	93.67	358.35	11,786.9	1,688.3	-1,067.7	527,796.37	805,370.58	32° 26' 53.045 N	103° 28' 38.661 W	
13,666.0	92.56	358.95	11,781.7	1,783.1	-1,070.0	527,891.20	805,368.34	32° 26' 53.984 N	103° 28' 38.678 W	
13,760.0	92.56	1.07	11,777.5	1,877.0	-1,069.9	527,985.10	805,368.36	32° 26' 54.913 N	103° 28' 38.669 W	
13,854.0	89.60	1.05	11,775.8	1,971.0	-1,068.2	528,079.06	805,370.10	32° 26' 55.842 N	103° 28' 38.640 W	
13,948.0	89.51	0.87	11,776.5	2,064.9	-1,066.6	528,173.05	805,371.67	32° 26' 56.772 N	103° 28' 38.613 W	
14,043.0	89.17	1.22	11,777.6	2,159.9	-1,064.9	528,268.02	805,373.41	32° 26' 57.712 N	103° 28' 38.584 W	
14,137.0	90.00	1.57	11,778.3	2,253.9	-1,062.6	528,361.99	805,375.69	32° 26' 58.641 N	103° 28' 38.549 W	
14,231.0	90.15	1.59	11,778.1	2,347.9	-1,060.0	528,455.96	805,378.29	32° 26' 59.571 N	103° 28' 38.510 W	
14,326.0	90.80	1.83	11,777.4	2,442.8	-1,057.2	528,550.91	805,381.12	32° 27' 0.510 N	103° 28' 38.468 W	
14,419.0	90.40	1.73	11,776.4	2,535.8	-1,054.3	528,643.86	805,384.01	32° 27' 1.430 N	103° 28' 38.425 W	
14,513.0	90.89	1.71	11,775.3	2,629.7	-1,051.5	528,737.81	805,386.83	32° 27' 2.359 N	103° 28' 38.383 W	
14,607.0	91.35	1.38	11,773.5	2,723.7	-1,048.9	528,831.76	805,389.36	32° 27' 3.289 N	103° 28' 38.345 W	
14,711.0	91.54	0.72	11,770.9	2,827.6	-1,047.0	528,935.71	805,391.27	32° 27' 4.317 N	103° 28' 38.313 W	
14,805.0	92.15	0.65	11,767.8	2,921.5	-1,045.9	529,029.65	805,392.39	32° 27' 5.246 N	103° 28' 38.291 W	
14,899.0	92.16	359.96	11,764.3	3,015.5	-1,045.4	529,123.58	805,392.89	32° 27' 6.176 N	103° 28' 38.277 W	

Halliburton

Survey Report - Geographic

Company: Devon Energy Corporation	Local Co-ordinate Reference: Well Chiles 28-21 State Com 3H
Project: Lea County, NM (NAD 83)	TVD Reference: RKB (Nabors X20) 32' + GL @ 3744.0usft
Site: Sec 28 - 21S - 34E	MD Reference: RKB (Nabors X20) 32' + GL @ 3744.0usft
Well: Chiles 28-21 State Com 3H	North Reference: Grid
Wellbore: Actual Drilled	Survey Calculation Method: Minimum Curvature
Design: Actual Drilled	Database: SOUTH US

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,994.0	90.22	0.55	11,762.3	3,110.5	-1,045.0	529,218.56	805,393.32	32° 27' 7.115 N	103° 28' 38.263 W
15,087.0	89.94	0.81	11,762.2	3,203.4	-1,043.9	529,311.55	805,394.42	32° 27' 8.035 N	103° 28' 38.241 W
15,181.0	88.00	0.87	11,763.9	3,297.4	-1,042.5	529,405.52	805,395.80	32° 27' 8.965 N	103° 28' 38.216 W
15,274.0	87.63	0.68	11,767.4	3,390.3	-1,041.2	529,498.44	805,397.05	32° 27' 9.885 N	103° 28' 38.193 W
15,368.0	88.46	0.15	11,770.6	3,484.3	-1,040.6	529,592.39	805,397.73	32° 27' 10.814 N	103° 28' 38.176 W
15,463.0	87.22	359.17	11,774.2	3,579.2	-1,041.1	529,687.31	805,397.17	32° 27' 11.753 N	103° 28' 38.174 W
15,557.0	89.97	359.25	11,776.5	3,673.2	-1,042.4	529,781.27	805,395.88	32° 27' 12.683 N	103° 28' 38.180 W
15,651.0	89.78	0.83	11,776.7	3,767.2	-1,042.4	529,875.26	805,395.94	32° 27' 13.613 N	103° 28' 38.171 W
15,745.0	86.64	2.02	11,779.7	3,861.1	-1,040.0	529,969.18	805,398.28	32° 27' 14.542 N	103° 28' 38.135 W
15,840.0	87.50	0.18	11,784.5	3,955.9	-1,038.2	530,064.03	805,400.10	32° 27' 15.480 N	103° 28' 38.105 W
15,934.0	87.87	357.03	11,788.3	4,049.8	-1,040.5	530,157.91	805,397.81	32° 27' 16.410 N	103° 28' 38.122 W
16,028.0	89.91	355.89	11,790.1	4,143.6	-1,046.3	530,251.71	805,392.01	32° 27' 17.338 N	103° 28' 38.181 W
16,122.0	89.38	356.88	11,790.7	4,237.4	-1,052.2	530,345.52	805,386.08	32° 27' 18.267 N	103° 28' 38.242 W
16,215.0	88.89	358.17	11,792.1	4,330.3	-1,056.2	530,438.42	805,382.07	32° 27' 19.186 N	103° 28' 38.280 W
16,309.0	89.45	356.86	11,793.5	4,424.2	-1,060.3	530,532.32	805,377.99	32° 27' 20.116 N	103° 28' 38.319 W
16,403.0	85.56	358.50	11,797.6	4,518.0	-1,064.1	530,626.13	805,374.19	32° 27' 21.044 N	103° 28' 38.354 W
16,498.0	85.75	358.11	11,804.8	4,612.7	-1,066.9	530,720.82	805,371.39	32° 27' 21.981 N	103° 28' 38.378 W
16,592.0	86.36	357.85	11,811.3	4,706.4	-1,070.2	530,814.53	805,368.08	32° 27' 22.909 N	103° 28' 38.408 W
16,686.0	87.87	358.74	11,816.0	4,800.3	-1,073.0	530,908.37	805,365.29	32° 27' 23.838 N	103° 28' 38.432 W
16,780.0	88.02	359.82	11,819.4	4,894.2	-1,074.2	531,002.30	805,364.11	32° 27' 24.767 N	103° 28' 38.437 W
16,871.0	89.06	359.54	11,821.7	4,985.2	-1,074.7	531,093.27	805,363.60	32° 27' 25.667 N	103° 28' 38.434 W
Cross Section Line 16871' MD (0.2741' FSL, 1878.9557' FWL of Section 21)									
16,875.0	89.11	359.53	11,821.7	4,989.2	-1,074.7	531,097.27	805,363.57	32° 27' 25.707 N	103° 28' 38.434 W
16,969.0	88.09	0.18	11,824.0	5,083.1	-1,075.0	531,191.24	805,363.33	32° 27' 26.637 N	103° 28' 38.428 W
17,063.0	88.98	0.60	11,826.4	5,177.1	-1,074.3	531,285.20	805,363.97	32° 27' 27.566 N	103° 28' 38.412 W
17,158.0	90.28	0.63	11,827.0	5,272.1	-1,073.3	531,380.19	805,364.99	32° 27' 28.506 N	103° 28' 38.391 W
17,252.0	89.14	2.33	11,827.5	5,366.1	-1,070.9	531,474.16	805,367.42	32° 27' 29.436 N	103° 28' 38.354 W
17,346.0	86.70	2.70	11,830.9	5,459.9	-1,066.8	531,568.00	805,371.54	32° 27' 30.364 N	103° 28' 38.297 W
17,440.0	87.50	2.85	11,835.7	5,553.7	-1,062.2	531,661.77	805,376.08	32° 27' 31.291 N	103° 28' 38.235 W
17,534.0	88.34	2.64	11,839.1	5,647.5	-1,057.7	531,755.60	805,380.58	32° 27' 32.219 N	103° 28' 38.174 W
17,629.0	89.66	0.60	11,840.8	5,742.4	-1,055.0	531,850.54	805,383.27	32° 27' 33.159 N	103° 28' 38.134 W
17,723.0	90.93	0.27	11,840.3	5,836.4	-1,054.3	531,944.53	805,383.98	32° 27' 34.089 N	103° 28' 38.117 W
17,818.0	92.43	358.95	11,837.5	5,931.4	-1,055.0	532,039.48	805,383.34	32° 27' 35.028 N	103° 28' 38.115 W
17,912.0	93.30	359.03	11,832.8	6,025.2	-1,056.6	532,133.35	805,381.68	32° 27' 35.957 N	103° 28' 38.126 W
18,007.0	94.32	359.18	11,826.5	6,120.0	-1,058.1	532,228.13	805,380.20	32° 27' 36.885 N	103° 28' 38.134 W
18,101.0	95.53	358.33	11,818.4	6,213.7	-1,060.1	532,321.75	805,378.17	32° 27' 37.822 N	103° 28' 38.149 W
18,195.0	93.39	359.46	11,811.1	6,307.3	-1,061.9	532,415.45	805,376.36	32° 27' 38.749 N	103° 28' 38.162 W
18,289.0	92.01	359.16	11,806.7	6,401.2	-1,063.1	532,509.33	805,375.23	32° 27' 39.678 N	103° 28' 38.166 W
18,383.0	90.86	359.71	11,804.3	6,495.2	-1,064.0	532,603.30	805,374.30	32° 27' 40.608 N	103° 28' 38.168 W
18,477.0	90.80	359.87	11,803.0	6,589.2	-1,064.3	532,697.29	805,373.96	32° 27' 41.538 N	103° 28' 38.163 W
18,571.0	89.44	0.30	11,802.8	6,683.2	-1,064.2	532,791.28	805,374.10	32° 27' 42.468 N	103° 28' 38.153 W
18,666.0	90.19	358.76	11,803.1	6,778.2	-1,065.0	532,886.28	805,373.32	32° 27' 43.408 N	103° 28' 38.153 W
18,760.0	91.94	357.59	11,801.3	6,872.1	-1,068.0	532,980.21	805,370.33	32° 27' 44.337 N	103° 28' 38.179 W
18,855.0	91.48	357.84	11,798.5	6,967.0	-1,071.8	533,075.09	805,366.54	32° 27' 45.276 N	103° 28' 38.214 W
18,949.0	94.76	357.04	11,793.4	7,060.7	-1,075.9	533,168.84	805,362.35	32° 27' 46.204 N	103° 28' 38.255 W
19,043.0	93.51	358.12	11,786.6	7,154.4	-1,079.9	533,262.51	805,358.39	32° 27' 47.131 N	103° 28' 38.292 W
19,137.0	91.79	358.45	11,782.2	7,248.3	-1,082.7	533,356.36	805,355.58	32° 27' 48.060 N	103° 28' 38.316 W
19,232.0	93.08	358.56	11,778.2	7,343.1	-1,085.2	533,451.24	805,353.11	32° 27' 48.999 N	103° 28' 38.336 W
19,326.0	90.96	0.06	11,774.9	7,437.1	-1,086.3	533,545.17	805,351.97	32° 27' 49.929 N	103° 28' 38.340 W
19,421.0	93.06	0.26	11,771.6	7,532.0	-1,086.1	533,640.11	805,352.24	32° 27' 50.868 N	103° 28' 38.328 W
19,516.0	91.79	0.71	11,767.5	7,626.9	-1,085.3	533,735.02	805,353.04	32° 27' 51.807 N	103° 28' 38.310 W
19,610.0	90.46	2.11	11,765.7	7,720.9	-1,082.9	533,828.96	805,355.36	32° 27' 52.737 N	103° 28' 38.274 W
19,704.0	91.05	0.44	11,764.5	7,814.8	-1,080.9	533,922.93	805,357.45	32° 27' 53.666 N	103° 28' 38.241 W
19,797.0	92.32	0.02	11,761.7	7,907.8	-1,080.5	534,015.89	805,357.82	32° 27' 54.586 N	103° 28' 38.228 W
19,891.0	93.24	359.71	11,757.2	8,001.7	-1,080.7	534,109.77	805,357.60	32° 27' 55.515 N	103° 28' 38.222 W

Halliburton

Survey Report - Geographic

Company: Devon Energy Corporation	Local Co-ordinate Reference: Well Chiles 28-21 State Com 3H
Project: Lea County, NM (NAD 83)	TVD Reference: RKB (Nabors X20) 32' + GL @ 3744.0usft
Site: Sec 28 - 21S - 34E	MD Reference: RKB (Nabors X20) 32' + GL @ 3744.0usft
Well: Chiles 28-21 State Com 3H	North Reference: Grid
Wellbore: Actual Drilled	Survey Calculation Method: Minimum Curvature
Design: Actual Drilled	Database: SOUTH US

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19,986.0	92.19	0.21	11,752.7	8,096.6	-1,080.8	534,204.67	805,357.53	32° 27' 56.454 N	103° 28' 38.214 W
20,080.0	90.71	0.21	11,750.3	8,190.5	-1,080.4	534,298.63	805,357.88	32° 27' 57.383 N	103° 28' 38.201 W
20,174.0	90.96	0.09	11,748.9	8,284.5	-1,080.2	534,392.62	805,358.12	32° 27' 58.313 N	103° 28' 38.189 W
20,268.0	93.46	359.94	11,745.3	8,378.4	-1,080.1	534,486.54	805,358.15	32° 27' 59.243 N	103° 28' 38.180 W
20,362.0	93.02	359.69	11,740.0	8,472.3	-1,080.5	534,580.39	805,357.85	32° 28' 0.171 N	103° 28' 38.175 W
20,457.0	91.66	359.21	11,736.1	8,567.2	-1,081.4	534,675.31	805,356.93	32° 28' 1.111 N	103° 28' 38.177 W
20,551.0	90.06	359.24	11,734.7	8,661.2	-1,082.6	534,769.29	805,355.66	32° 28' 2.041 N	103° 28' 38.183 W
20,645.0	91.42	358.90	11,733.5	8,755.2	-1,084.2	534,863.26	805,354.14	32° 28' 2.971 N	103° 28' 38.192 W
20,739.0	91.73	358.16	11,730.9	8,849.1	-1,086.6	534,957.20	805,351.73	32° 28' 3.900 N	103° 28' 38.211 W
20,833.0	90.92	357.82	11,728.7	8,943.0	-1,089.9	535,051.11	805,348.43	32° 28' 4.830 N	103° 28' 38.241 W
20,928.0	92.19	357.68	11,726.1	9,037.9	-1,093.6	535,146.00	805,344.70	32° 28' 5.769 N	103° 28' 38.275 W
21,022.0	91.08	358.08	11,723.5	9,131.8	-1,097.1	535,239.90	805,341.23	32° 28' 6.698 N	103° 28' 38.307 W
21,116.0	88.61	358.83	11,723.7	9,225.8	-1,099.6	535,333.86	805,338.69	32° 28' 7.628 N	103° 28' 38.328 W
21,209.0	88.52	359.08	11,726.0	9,318.7	-1,101.3	535,426.81	805,337.00	32° 28' 8.548 N	103° 28' 38.339 W
21,304.0	91.51	358.58	11,726.0	9,413.7	-1,103.2	535,521.78	805,335.06	32° 28' 9.488 N	103° 28' 38.353 W
21,398.0	92.22	358.39	11,723.0	9,507.6	-1,105.7	535,615.70	805,332.57	32° 28' 10.417 N	103° 28' 38.373 W
21,492.0	92.00	358.26	11,719.5	9,601.5	-1,108.5	535,709.59	805,329.83	32° 28' 11.347 N	103° 28' 38.396 W
21,586.0	92.22	358.14	11,716.0	9,695.4	-1,111.4	535,803.48	805,326.88	32° 28' 12.276 N	103° 28' 38.422 W
21,681.0	93.43	358.36	11,711.4	9,790.2	-1,114.3	535,898.32	805,323.98	32° 28' 13.214 N	103° 28' 38.447 W
21,775.0	95.07	358.01	11,704.4	9,883.9	-1,117.3	535,992.01	805,321.01	32° 28' 14.142 N	103° 28' 38.473 W
21,870.0	95.68	358.49	11,695.5	9,978.4	-1,120.2	536,086.55	805,318.12	32° 28' 15.077 N	103° 28' 38.498 W
21,963.0	95.24	357.41	11,686.6	10,071.0	-1,123.5	536,179.07	805,314.81	32° 28' 15.993 N	103° 28' 38.528 W
22,055.0	96.26	357.61	11,677.4	10,162.4	-1,127.5	536,270.52	805,310.83	32° 28' 16.898 N	103° 28' 38.565 W
LTP 100' FNL 22055' MD/11677'TVD(100.77' FNL, 1871.21' FWL of Section 21)									
22,056.0	96.27	357.61	11,677.3	10,163.4	-1,127.5	536,271.51	805,310.79	32° 28' 16.908 N	103° 28' 38.566 W
Last MWD Survey									
22,111.0	96.27	357.61	11,671.3	10,218.0	-1,129.8	536,326.13	805,308.51	32° 28' 17.449 N	103° 28' 38.587 W
Projection to TD 22111' MD/11671 (46.12' FNL, 1869.39' FWL of Section 21)									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
172.0	172.0	0.2	-0.3	First MWD Survey
9,857.0	9,769.7	-292.3	-931.4	Cross Section Line 9857' MD(0.0117' FSL, 1976.7321' FWL Sec 28)
11,341.0	11,248.6	-268.3	-984.2	KOP 11341' MD (24.1451' FSL, 1924.0458' FWL of Section 28)
11,587.0	11,478.4	-192.9	-1,009.3	FTP 100' FSL 11587' MD/11478'TVD(100.37' FSL, 1899.71' FWL of Section 28)
16,871.0	11,821.7	4,985.2	-1,074.7	Cross Section Line 16871' MD (0.2741' FSL, 1878.9557' FWL of Section 21)
22,055.0	11,677.4	10,162.4	-1,127.5	LTP 100' FNL 22055' MD/11677'TVD(100.77' FNL, 1871.21' FWL of Section 21)
22,056.0	11,677.3	10,163.4	-1,127.5	Last MWD Survey
22,111.0	11,671.3	10,218.0	-1,129.8	Projection to TD 22111' MD/11671 (46.12' FNL, 1869.39' FWL of Section 21)

Checked By: _____ Approved By: _____ Date: _____