

**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

15-29864
✓

Well Name and Num: Vega 29 Fed Com 2H
Location: Sec. 29, T19S, R31E
Operator: Devon
Drilling Contractor: McVay Drilling Company

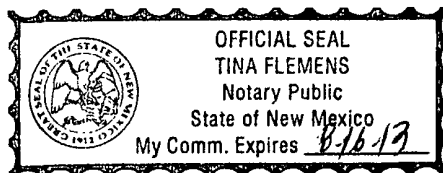
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
2.81	240	1.10	5735	65.20	9090	89.60	13093
2.71	333	0.50	6114	78.20	9217	88.60	13284
2.84	400	0.40	6493	88.20	9313	89.30	13475
2.70	733	1.30	6877	89.90	9745		
2.40	1003	0.60	7066	90.80	10126		
2.10	1662	0.50	7445	89.10	10413		
3.40	1916	0.90	7922	88.70	10782		
2.00	2401	1.00	8496	88.50	10876		
1.30	2685	0.60	8877	87.10	10969		
1.12	3100	1.40	9162	87.30	11062		
1.85	3372	4.50	8137	87.70	11135		
1.46	3657	13.80	8232	90.40	11332		
1.50	3905	15.40	8328	89.50	11779		
0.70	4422	15.20	8423	90.50	11967		
1.20	4786	19.00	8519	89.60	12248		
0.50	5166	22.30	8614	88.40	12623		
0.90	5547	35.40	8805	89.10	12809		

By: Hunter Crum

Subscribed and sworn to before me this 9th day of April, 2012

Tina Flemens
Notary Public, Lea County, New Mexico



State of Texas

County of Tarrant

I, JASON KERNAN, certify that; I am employed by MS Energy Services;
that I did on the day(s) of 3/27/12 through 4/5/12 conduct or supervise
the taking of MWD survey(s) from a depth of 8,137 feet to a depth of 13,541
feet: that the data is true, correct, complete and within the limitations of the tool set forth by MS Energy
Services; that I am authorized and qualified to make this report; that this survey(s) was / were
conducted at the request of DEVON ENERGY PRODUCTION CO. LP,
for the VEGA 29 FEDERAL 2H, API No. 30.015.39864
in EDDY County Parish, NEW MEXICO; and that I have
reviewed this report and find that it conforms to the principles and procedures as set forth by
MS Energy Services.

Signature: Jason Kernan
Title: SR MWD FIELD SPECIALIST

Company:		Devon Energy Production Co. LP												
Well Name:		Vega 29 Federal 2H												
Location:		Eddy County, NM												
Rig:		McVay #10				Magnetic Declination:		7.45		REFERENCED TO GRID NORTH		▼		
Job Number:		DDOK-120210												
API #:		30-015-39864												
Vertical Section Azimuth:				175.66		Proposed Direction:		175.66						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	13,600		89.3		176.4		9037.12		-4815.98		356.58		4829.16	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'			
TIE IN	8,100	0.61	321.34	8095.94	17.36	148.74	-6.05	149.75	83.34					
1	8,137	4.50	253.50	8132.90	17.10	147.22	-5.91	148.21	83.37	11.64	10.51			
2	8,169	9.40	254.90	8164.65	16.06	143.50	-5.16	144.39	83.61	15.32	15.31			
3	8,201	12.10	254.10	8196.09	14.46	137.75	-4.00	138.50	84.01	8.45	8.44			
4	8,232	13.80	245.00	8226.30	12.01	131.27	-2.04	131.82	84.77	8.55	5.48			
5	8,264	14.90	238.70	8257.31	8.26	124.29	1.17	124.57	86.20	5.96	3.44			
6	8,296	15.00	239.20	8288.22	4.00	117.22	4.88	117.29	88.04	0.51	0.31			
7	8,328	15.40	250.30	8319.11	0.45	109.66	7.85	109.66	89.77	9.17	1.25			
8	8,360	15.40	259.10	8349.97	-1.79	101.49	9.46	101.51	91.01	7.30	0.00			
9	8,391	15.30	263.20	8379.86	-3.05	93.39	10.11	93.44	91.87	3.52	-0.32			
10	8,423	15.20	262.70	8410.73	-4.08	85.03	10.51	85.13	92.75	0.52	-0.31			
11	8,455	15.50	255.70	8441.60	-5.67	76.73	11.46	76.94	94.23	5.86	0.94			
12	8,487	17.20	247.00	8472.30	-8.58	68.23	13.72	68.76	97.17	9.30	5.31			
13	8,519	19.00	243.00	8502.72	-12.79	59.23	17.24	60.60	102.19	6.83	5.63			
14	8,551	19.90	238.70	8532.90	-17.99	49.93	21.71	53.07	109.81	5.28	2.81			
15	8,582	21.20	229.50	8561.93	-24.37	41.16	27.41	47.83	120.63	11.22	4.19			
16	8,614	22.30	220.70	8591.66	-32.73	32.80	35.12	46.34	134.94	10.74	3.44			
17	8,646	24.10	212.00	8621.08	-42.88	25.38	44.68	49.83	149.38	12.08	5.63			
18	8,678	26.10	200.20	8650.08	-55.04	19.48	56.35	58.38	160.51	16.81	6.25			
19	8,709	27.40	190.60	8677.77	-68.45	15.81	69.45	70.26	166.99	14.54	4.19			
20	8,741	29.00	181.80	8705.98	-83.45	14.21	84.29	84.65	170.34	13.91	5.00			
21	8,773	31.80	176.20	8733.59	-99.62	14.53	100.44	100.68	171.70	12.44	8.75			
22	8,805	35.40	175.90	8760.24	-117.29	15.75	118.14	118.34	172.35	11.26	11.25			
23	8,836	38.50	176.20	8785.01	-135.88	17.03	136.77	136.94	172.86	10.02	10.00			
24	8,868	39.70	177.20	8809.84	-156.02	18.19	156.95	157.08	173.35	4.24	3.75			
25	8,900	41.70	177.90	8834.10	-176.87	19.08	177.81	177.90	173.84	6.41	6.25			
26	8,932	45.20	178.60	8857.33	-198.86	19.75	199.79	199.84	174.33	11.04	10.94			
27	8,963	49.80	179.20	8878.26	-221.71	20.18	222.60	222.62	174.80	14.91	14.84			
28	8,995	53.50	179.40	8898.12	-246.80	20.49	247.64	247.65	175.25	11.57	11.56			
29	9,027	58.10	179.90	8916.10	-273.26	20.64	274.04	274.04	175.68	14.43	14.38			
30	9,059	62.00	179.00	8932.07	-300.98	20.91	301.70	301.70	176.02	12.43	12.19			
31	9,090	65.20	178.60	8945.85	-328.73	21.50	329.42	329.44	176.26	10.39	10.32			

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	13,600		89.3		176.4		9037.12		-4815.98		356.58		4829.16	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure		DLS/ 100	BUR/ 100'			
								Distance	Azm					
32	9,122	68.20	178.80	8958.51	-358.11	22.16	358.76	358.80	176.46	9.39	9.38			
33	9,154	71.40	179.20	8969.56	-388.14	22.69	388.74	388.80	176.65	10.07	10.00			
34	9,186	74.70	180.20	8978.88	-418.74	22.84	419.27	419.36	176.88	10.74	10.31			
35	9,217	78.20	180.40	8986.15	-448.87	22.69	449.30	449.45	177.11	11.31	11.29			
36	9,249	80.90	180.20	8991.95	-480.34	22.52	480.67	480.87	177.32	8.46	8.44			
37	9,281	85.20	180.20	8995.82	-512.10	22.41	512.32	512.59	177.49	13.44	13.44			
38	9,313	88.20	180.00	8997.66	-544.04	22.36	544.17	544.50	177.65	9.40	9.38			
39	9,408	87.70	176.60	9001.06	-638.92	25.17	638.99	639.42	177.74	3.62	-0.53			
40	9,460	86.70	177.00	9003.60	-690.78	28.07	690.92	691.35	177.67	2.07	-1.92			
41	9,555	88.50	176.60	9007.58	-785.54	33.37	785.82	786.25	177.57	1.94	1.89			
42	9,650	89.00	177.00	9009.65	-880.37	38.67	880.77	881.22	177.48	0.67	0.53			
43	9,745	89.90	176.20	9010.57	-975.20	44.30	975.75	976.20	177.40	1.27	0.95			
44	9,841	90.80	174.70	9009.98	-1070.89	51.92	1071.75	1072.15	177.22	1.82	0.94			
45	9,936	91.80	174.70	9007.82	-1165.46	60.69	1166.71	1167.04	177.02	1.05	1.05			
46	10,031	91.80	174.80	9004.84	-1260.01	69.38	1261.65	1261.92	176.85	0.11	0.00			
47	10,126	90.80	174.30	9002.68	-1354.56	78.40	1356.61	1356.83	176.69	1.18	-1.05			
48	10,222	88.80	173.70	9003.02	-1450.03	88.44	1452.56	1452.72	176.51	2.18	-2.08			
49	10,317	88.50	174.60	9005.26	-1544.50	98.12	1547.50	1547.62	176.37	1.00	-0.32			
50	10,412	89.10	175.10	9007.25	-1639.10	106.64	1642.47	1642.56	176.28	0.82	0.63			
51	10,506	89.90	175.90	9008.07	-1732.80	114.02	1736.46	1736.55	176.24	1.20	0.85			
52	10,597	89.20	175.50	9008.78	-1823.54	120.84	1827.46	1827.54	176.21	0.89	-0.77			
53	10,689	89.00	175.70	9010.23	-1915.26	127.90	1919.45	1919.53	176.18	0.31	-0.22			
54	10,782	88.70	176.40	9012.09	-2008.02	134.30	2012.43	2012.51	176.17	0.82	-0.32			
55	10,876	88.50	176.60	9014.39	-2101.82	140.04	2106.39	2106.48	176.19	0.30	-0.21			
56	10,969	87.10	175.60	9017.96	-2194.53	146.36	2199.31	2199.41	176.18	1.85	-1.51			
57	11,062	87.30	176.50	9022.50	-2287.20	152.76	2292.20	2292.29	176.18	0.99	0.22			
58	11,135	87.70	174.80	9025.69	-2359.92	158.29	2365.13	2365.22	176.16	2.39	0.55			
59	11,229	89.20	173.60	9028.23	-2453.40	167.78	2459.06	2459.13	176.09	2.04	1.60			
60	11,322	90.40	173.80	9028.56	-2545.83	177.99	2552.00	2552.05	176.00	1.31	1.29			
61	11,407	91.10	174.30	9027.44	-2630.37	186.80	2636.96	2636.99	175.94	1.01	0.82			
62	11,500	92.50	174.70	9024.52	-2722.89	195.71	2729.89	2729.91	175.89	1.57	1.51			
63	11,592	90.80	174.20	9021.87	-2814.42	204.60	2821.83	2821.84	175.84	1.93	-1.85			
64	11,685	89.80	173.70	9021.39	-2906.90	214.40	2914.79	2914.79	175.78	1.20	-1.08			

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	13,600		89.3		176.4		9037.12		-4815.98		356.58		4829.16	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
65	11,779	89.50	172.90	9021.96	-3000.25	225.37	3008.70	3008.70	175.70	0.91	-0.32			
66	11,873	90.90	173.00	9021.63	-3093.54	236.91	3102.60	3102.60	175.62	1.49	1.49			
67	11,967	90.50	173.30	9020.48	-3186.86	248.12	3196.50	3196.50	175.55	0.53	-0.43			
68	12,061	89.30	174.50	9020.65	-3280.32	258.11	3290.45	3290.46	175.50	1.81	-1.28			
69	12,155	88.60	176.10	9022.37	-3373.99	265.81	3384.43	3384.44	175.50	1.86	-0.74			
70	12,248	89.60	176.60	9023.83	-3466.79	271.73	3477.41	3477.42	175.52	1.20	1.08			
71	12,341	88.70	176.30	9025.21	-3559.60	277.48	3570.39	3570.40	175.54	1.02	-0.97			
72	12,435	89.90	176.60	9026.36	-3653.41	283.30	3664.37	3664.38	175.57	1.32	1.28			
73	12,529	90.40	176.30	9026.11	-3747.23	289.12	3758.36	3758.36	175.59	0.62	0.53			
74	12,623	88.40	176.20	9027.10	-3841.02	295.27	3852.35	3852.35	175.60	2.13	-2.13			
75	12,716	89.60	176.50	9028.72	-3933.81	301.19	3945.32	3945.32	175.62	1.33	1.29			
76	12,809	89.10	176.50	9029.78	-4026.63	306.87	4038.31	4038.31	175.64	0.54	-0.54			
77	12,903	90.40	177.10	9030.19	-4120.48	312.12	4132.29	4132.29	175.67	1.52	1.38			
78	12,998	89.90	176.20	9029.94	-4215.32	317.67	4227.27	4227.27	175.69	1.08	-0.53			
79	13,093	89.60	176.00	9030.35	-4310.10	324.13	4322.27	4322.27	175.70	0.38	-0.32			
80	13,189	88.50	175.70	9031.94	-4405.83	331.07	4418.25	4418.25	175.70	1.19	-1.15			
81	13,284	88.60	176.50	9034.35	-4500.58	337.53	4513.22	4513.22	175.71	0.85	0.11			
82	13,379	90.30	177.00	9035.26	-4595.42	342.92	4608.19	4608.20	175.73	1.87	1.79			
83	13,475	89.30	176.20	9035.59	-4691.25	348.61	4704.18	4704.18	175.75	1.33	-1.04			
84	13,541	89.30	176.40	9036.40	-4757.10	352.87	4770.17	4770.17	175.76	0.30	0.00			