

15-42688



March 3, 2015

Devon Energy Production Co., L. P.
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 27 2015

RECEIVED

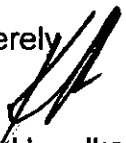
Attn: David Cook

Re: **Snapping 2 State 14H**

Please find enclosed a copy of the survey from 0' to 872' ran on the above referenced well.

If I can be of any further service please do not hesitate to call me at 800-606-4976.

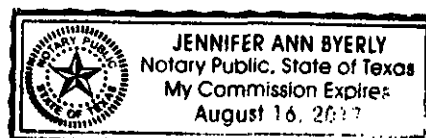
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

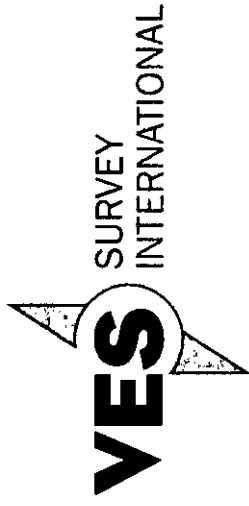
This instrument was acknowledged before me on the 3 day of March, A.D., 2015, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: Devon Energy
Lease/Well: Snapping 2 State/14H



Rig Name: Precision 601
State/County: New Mexico/Eddy
Latitude: 32.07, Longitude: -103.74
GRID North is 0.31 Degrees East of True North
VS-Azi: 0.00 Degrees

Depth Reference : RKB= 25 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 3/3/2015 / 09:13

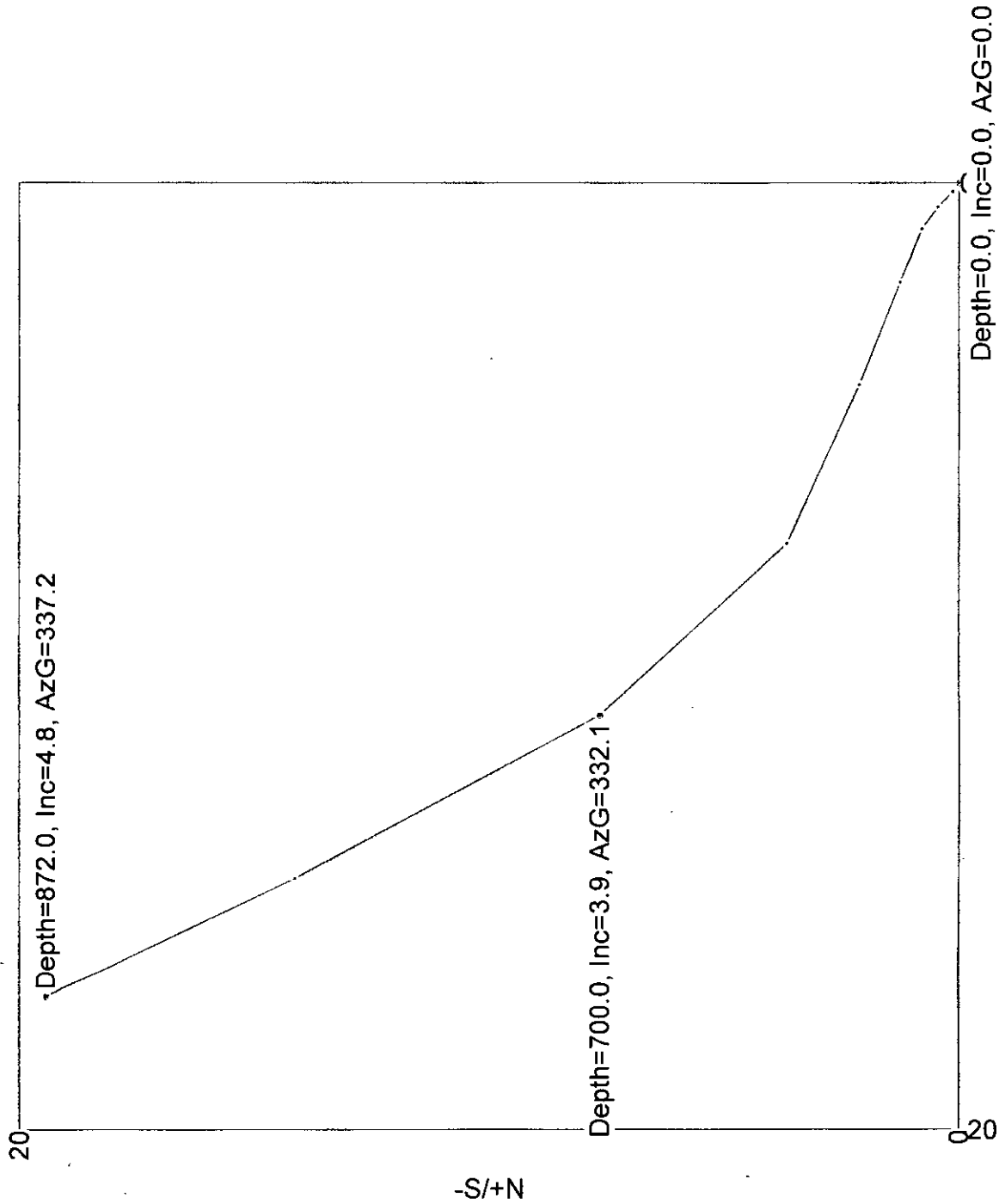
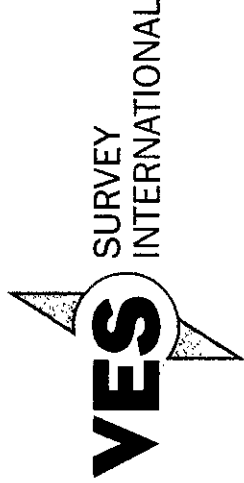
VES Survey International
West Texas
(432) 563-5444

Surveyor: Bryan Massey
Snapping 2 State 14H / API 30-015-42688

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.26	305.60	100.00	0.13	-0.18	0.13	0.23	305.60	0.26
200.00	0.27	323.33	200.00	0.45	-0.51	0.45	0.68	311.61	0.08
300.00	0.41	295.36	300.00	0.79	-0.97	0.79	1.25	309.25	0.21
400.00	0.99	290.63	399.99	1.25	-2.10	1.25	2.44	300.73	0.59
500.00	1.67	292.70	499.96	2.11	-4.25	2.11	4.75	296.44	0.68
600.00	2.57	296.15	599.89	3.66	-7.60	3.66	8.44	295.72	0.91
700.00	3.91	332.05	699.74	7.66	-11.21	7.66	13.58	304.35	2.37
800.00	4.50	331.95	799.47	14.13	-14.65	14.13	20.36	313.97	0.59
872.00	4.84	337.18	871.23	19.43	-17.16	19.43	25.92	318.55	0.76



VES Survey International
West Texas
(432) 563-5444
Surveyor: Bryan Massey
Snapping 2 State 14H / API 30-015-42688



-W/+E

VES Survey Date: 2/15/2015



Directional Survey

Well Name: SNAPPING 2 STATE 14H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name JENNINGS (NM)		County EDDY		State/Province NM					
Surface Legal Location SEC2 T26S R31E		API/UWI 3001542688		Latitude (") 32° 3' 56.066" N		Longitude (") 103° 44' 28.85" W		Orig KB Elevation (ft) 3,307.00		Ground Elev MSL (ft) 3,282.00		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH				Parent Wellbore OH				SAP Well ID 38004				Vertical Section Direction (") 355.80	
Kick Offs & Key Depths													
Date				Type				Top Depth (ftKB)					
Actual Deviation Survey				Definitive?		Proposed?		Proposed Deviation Survey					
Deviation Survey													
Date				Description									
MD Tie In (ftKB)		TVD Tie In (ftKB)		Inclination Tie In (")		Azimuth Tie In (")		NSTie In (ft)		EWTie In (ft)			
Survey Data													
Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company			
Wellbore Name ST01				Parent Wellbore OH				SAP Well ID				Vertical Section Direction (") 357.00	
Kick Offs & Key Depths													
Date 5/14/2015				Type Kick Off				Top Depth (ftKB) 10,912.0					
Actual Deviation Survey GYRO/FLODRIFT/EXTREME/MWD, Proposed? No				Definitive? Yes		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 2/16/2015				Description GYRO/FLODRIFT/EXTREME/MWD									
MD Tie In (ftKB) 0.00		TVD Tie In (ftKB) 0.00		Inclination Tie In (") 0.00		Azimuth Tie In (") 0.00		NSTie in (ft) 0.00		EWTie in (ft) 0.00			
Survey Data													
Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company			
2/16/2015	100.00	0.26	305.60	100.00	0.14	0.13	-0.18	0.26	GYRO	VAUHG N ENERGY SERVICES			
2/16/2015	200.00	0.27	323.33	200.00	0.48	0.45	-0.51	0.08	GYRO	VAUHG N ENERGY SERVICES			
2/16/2015	300.00	0.41	295.36	300.00	0.85	0.80	-0.97	0.21	GYRO	VAUHG N ENERGY SERVICES			
2/16/2015	400.00	0.99	290.63	399.99	1.36	1.25	-2.11	0.58	GYRO	VAUHG N ENERGY SERVICES			
2/16/2015	500.00	1.67	292.70	499.96	2.34	2.12	-4.26	0.68	GYRO	VAUHG N ENERGY SERVICES			
2/16/2015	600.00	2.57	296.15	599.89	4.06	3.67	-7.62	0.91	GYRO	VAUHG N ENERGY SERVICES			
2/16/2015	700.00	3.91	332.05	699.74	8.25	7.67	-11.23	2.37	GYRO	VAUHG N ENERGY SERVICES			
2/16/2015	800.00	4.50	331.95	799.47	14.89	14.14	-14.67	0.59	GYRO	VAUHG N ENERGY SERVICES			
2/16/2015	872.00	4.84	337.18	871.23	20.31	19.44	-17.18	0.76	GYRO	VAUHG N ENERGY SERVICES			
2/19/2015	1,043.00	3.57	321.83	1,041.77	31.45	30.27	-23.26	0.99	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,107.00	3.55	318.28	1,105.65	34.62	33.32	-25.81	0.35	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,171.00	3.55	318.27	1,169.53	37.72	36.28	-28.45	0.00	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,235.00	3.47	318.35	1,233.41	40.77	39.20	-31.06	0.13	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,298.00	3.36	317.57	1,296.29	43.69	41.99	-33.57	0.19	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,361.00	3.29	317.23	1,359.19	46.50	44.68	-36.04	0.12	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,425.00	3.20	315.10	1,423.09	49.25	47.29	-38.55	0.24	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,488.00	3.14	312.47	1,485.99	51.78	49.70	-41.07	0.25	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,552.00	3.00	310.55	1,549.90	54.19	51.98	-43.63	0.27	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,616.00	2.65	309.02	1,613.82	56.33	54.00	-46.05	0.56	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,679.00	2.36	306.85	1,676.76	58.14	55.69	-48.22	0.48	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,769.00	2.21	305.52	1,766.69	60.41	57.81	-51.12	0.18	MS	NATIONAL OILWELL VARCO			
2/19/2015	1,927.00	2.17	307.33	1,924.57	64.24	61.39	-55.98	0.05	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,023.00	1.84	302.33	2,020.51	66.31	63.32	-58.72	0.39	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,083.00	1.67	298.63	2,080.49	67.32	64.25	-60.30	0.34	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,173.00	1.52	291.19	2,170.45	68.50	65.31	-62.57	0.28	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,267.00	1.55	275.40	2,264.42	69.20	65.88	-65.00	0.45	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,357.00	1.55	261.22	2,354.38	69.25	65.81	-67.41	0.43	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,446.00	1.42	254.54	2,443.36	68.89	65.34	-69.66	0.24	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,533.00	1.19	252.18	2,530.33	68.43	64.77	-71.56	0.27	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,622.00	0.87	253.41	2,619.32	68.03	64.30	-73.09	0.36	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,713.00	0.38	260.11	2,710.31	67.83	64.05	-74.05	0.54	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,799.00	0.04	84.48	2,796.31	67.80	64.00	-74.30	0.49	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,889.00	0.17	104.41	2,886.31	67.76	63.97	-74.14	0.15	MS	NATIONAL OILWELL VARCO			
2/19/2015	2,980.00	0.18	100.51	2,977.31	67.69	63.91	-73.87	0.02	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,072.00	0.20	147.11	3,069.31	67.52	63.75	-73.64	0.16	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,162.00	0.25	135.34	3,159.31	67.23	63.48	-73.42	0.08	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,250.00	0.29	139.95	3,247.31	66.91	63.17	-73.14	0.05	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,340.00	0.24	154.48	3,337.31	66.56	62.83	-72.91	0.09	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,429.00	0.25	174.30	3,426.31	66.19	62.46	-72.81	0.10	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,518.00	0.43	143.05	3,515.31	65.72	62.00	-72.59	0.28	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,604.00	1.03	134.81	3,601.30	64.88	61.20	-71.85	0.71	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,694.00	1.46	135.58	3,691.28	63.42	59.81	-70.47	0.48	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,784.00	1.95	136.85	3,781.24	61.39	57.88	-68.62	0.55	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,873.00	2.59	134.28	3,870.17	58.75	55.37	-66.15	0.73	MS	NATIONAL OILWELL VARCO			
2/19/2015	3,965.00	3.38	133.72	3,962.04	55.25	52.04	-62.70	0.86	MS	NATIONAL OILWELL VARCO			
2/19/2015	4,022.00	3.66	134.43	4,018.93	52.69	49.61	-60.18	0.50	MS	NATIONAL OILWELL VARCO			
3/19/2015	4,144.00	3.69	138.20	4,140.68	46.76	43.96	-54.79	0.20	MS	EXTREME ENGINEERING			
3/19/2015	4,237.00	3.21	134.82	4,233.51	42.50	39.89	-50.95	0.56	MS	EXTREME ENGINEERING			
3/19/2015	4,326.00	3.38	138.42	4,322.37	38.60	36.17	-47.44	0.30	MS	EXTREME ENGINEERING			
3/19/2015	4,415.00	3.12	137.50	4,411.22	34.68	32.42	-44.06	0.30	MS	EXTREME ENGINEERING			
3/19/2015	4,505.00	2.99	140.22	4,501.10	30.91	28.81	-40.90	0.22	MS	EXTREME ENGINEERING			
3/19/2015	4,594.00	3.12	137.01	4,589.97	27.20	25.26	-37.77	0.24	MS	EXTREME ENGINEERING			
3/19/2015	4,684.00	2.99	142.42	4,679.84	23.39	21.60	-34.66	0.35	MS	EXTREME ENGINEERING			



Directional Survey

Well Name: SNAPPING 2 STATE 14H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name JENNINGS (NM)			County EDDY		State/Province NM		
Surface Legal Location SEC2 T26S R31E		API/UWI 3001542688		Latitude (°) 32° 3' 56.066" N		Longitude (°) 103° 44' 28.85" W		Orig KB Elevation (ft) 3,307.00		Ground Elev MSL (ft) 3,282.00	KB - GL (ft) 25.00
Survey Data											
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company	
3/19/2015	4,773.00	2.81	142.02	4,768.73	19.69	18.05	-31.91	0.20	MS	EXTREME ENGINEERING	
3/19/2015	4,862.00	2.90	144.13	4,857.62	16.01	14.50	-29.24	0.16	MS	EXTREME ENGINEERING	
3/19/2015	4,950.00	2.81	144.79	4,945.51	12.32	10.94	-26.70	0.11	MS	EXTREME ENGINEERING	
3/19/2015	5,040.00	2.81	145.80	5,035.40	8.56	7.31	-24.18	0.06	MS	EXTREME ENGINEERING	
3/19/2015	5,131.00	2.68	139.82	5,126.30	4.96	3.84	-21.56	0.35	MS	EXTREME ENGINEERING	
3/19/2015	5,220.00	2.68	140.79	5,215.20	1.62	0.64	-18.90	0.05	MS	EXTREME ENGINEERING	
3/19/2015	5,309.00	2.59	151.91	5,304.10	-1.88	-2.75	-16.64	0.58	MS	EXTREME ENGINEERING	
3/19/2015	5,399.00	2.59	145.89	5,394.01	-5.46	-6.23	-14.54	0.30	MS	EXTREME ENGINEERING	
3/19/2015	5,488.00	2.90	147.03	5,482.91	-9.13	-9.78	-12.19	0.35	MS	EXTREME ENGINEERING	
3/19/2015	5,578.00	2.90	149.10	5,572.80	-13.11	-13.65	-9.78	0.12	MS	EXTREME ENGINEERING	
3/19/2015	5,667.00	2.68	157.01	5,661.69	-17.06	-17.49	-7.81	0.50	MS	EXTREME ENGINEERING	
3/19/2015	5,757.00	2.42	150.90	5,751.60	-20.74	-21.09	-6.06	0.42	MS	EXTREME ENGINEERING	
3/19/2015	5,846.00	2.29	157.80	5,840.53	-24.11	-24.38	-4.48	0.35	MS	EXTREME ENGINEERING	
3/19/2015	5,936.00	2.29	151.12	5,930.45	-27.43	-27.62	-2.93	0.30	MS	EXTREME ENGINEERING	
3/19/2015	6,025.00	2.29	165.23	6,019.38	-30.77	-30.89	-1.62	0.63	MS	EXTREME ENGINEERING	
3/19/2015	6,115.00	2.42	162.11	6,109.31	-34.36	-34.44	-0.58	0.20	MS	EXTREME ENGINEERING	
3/19/2015	6,204.00	2.11	170.19	6,198.24	-37.81	-37.84	0.28	0.50	MS	EXTREME ENGINEERING	
3/19/2015	6,294.00	2.02	168.92	6,288.18	-41.02	-41.03	0.87	0.11	MS	EXTREME ENGINEERING	
3/19/2015	6,383.00	1.89	168.92	6,377.13	-44.03	-44.01	1.45	0.15	MS	EXTREME ENGINEERING	
3/19/2015	6,472.00	1.89	168.92	6,466.08	-46.93	-46.89	2.01	0.00	MS	EXTREME ENGINEERING	
3/19/2015	6,562.00	2.20	165.49	6,556.02	-50.10	-50.02	2.73	0.37	MS	EXTREME ENGINEERING	
3/19/2015	6,651.00	2.02	167.60	6,644.96	-53.32	-53.21	3.50	0.22	MS	EXTREME ENGINEERING	
3/19/2015	6,740.00	2.20	184.30	6,733.90	-56.56	-56.44	3.71	0.72	MS	EXTREME ENGINEERING	
3/19/2015	6,830.00	2.02	185.00	6,823.84	-59.84	-59.75	3.44	0.20	MS	EXTREME ENGINEERING	
3/19/2015	6,919.00	2.11	176.21	6,912.78	-63.03	-62.94	3.41	0.37	MS	EXTREME ENGINEERING	
3/19/2015	7,009.00	1.89	181.22	7,002.73	-66.17	-66.08	3.49	0.31	MS	EXTREME ENGINEERING	
3/19/2015	7,098.00	2.02	188.21	7,091.68	-69.17	-69.10	3.23	0.30	MS	EXTREME ENGINEERING	
3/19/2015	7,188.00	2.50	181.22	7,181.61	-72.69	-72.63	2.96	0.61	MS	EXTREME ENGINEERING	
3/19/2015	7,277.00	2.11	181.09	7,270.54	-76.26	-76.21	2.89	0.44	MS	EXTREME ENGINEERING	
3/19/2015	7,367.00	2.59	184.91	7,360.46	-79.92	-79.89	2.69	0.56	MS	EXTREME ENGINEERING	
3/19/2015	7,456.00	2.68	190.41	7,449.37	-83.94	-83.94	2.14	0.30	MS	EXTREME ENGINEERING	
3/19/2015	7,545.00	2.42	191.59	7,538.28	-87.78	-87.83	1.38	0.30	MS	EXTREME ENGINEERING	
3/19/2015	7,635.00	2.68	182.89	7,628.19	-91.71	-91.79	0.90	0.52	MS	EXTREME ENGINEERING	
3/19/2015	7,724.00	2.99	187.20	7,717.08	-96.07	-96.17	0.50	0.42	MS	EXTREME ENGINEERING	
3/19/2015	7,814.00	3.12	193.79	7,806.95	-100.72	-100.88	-0.38	0.42	MS	EXTREME ENGINEERING	
3/19/2015	7,905.00	2.68	187.42	7,897.84	-105.19	-105.40	-1.24	0.60	MS	EXTREME ENGINEERING	
3/19/2015	7,994.00	2.81	200.21	7,986.73	-109.24	-109.51	-2.26	0.70	MS	EXTREME ENGINEERING	
3/19/2015	8,084.00	2.81	198.40	8,076.63	-113.32	-113.67	-3.72	0.10	MS	EXTREME ENGINEERING	
3/19/2015	8,173.00	2.90	187.73	8,165.52	-117.56	-117.97	-4.71	0.60	MS	EXTREME ENGINEERING	
3/19/2015	8,262.00	2.81	192.21	8,254.41	-121.88	-122.33	-5.48	0.27	MS	EXTREME ENGINEERING	
3/19/2015	8,352.00	2.50	197.61	8,344.31	-125.85	-126.36	-6.54	0.44	MS	EXTREME ENGINEERING	
3/19/2015	8,441.00	2.50	195.50	8,433.22	-129.50	-130.08	-7.65	0.10	MS	EXTREME ENGINEERING	
3/19/2015	8,530.00	2.20	191.59	8,522.15	-133.00	-133.63	-8.51	0.38	MS	EXTREME ENGINEERING	
3/19/2015	8,620.00	2.20	210.40	8,612.08	-136.11	-136.81	-9.73	0.80	MS	EXTREME ENGINEERING	
3/19/2015	8,709.00	2.11	197.13	8,701.02	-139.08	-139.85	-11.08	0.57	MS	EXTREME ENGINEERING	
3/19/2015	8,799.00	1.58	218.62	8,790.98	-141.56	-142.40	-12.34	0.96	MS	EXTREME ENGINEERING	
3/19/2015	8,892.00	2.29	219.41	8,883.92	-143.89	-144.84	-14.32	0.76	MS	EXTREME ENGINEERING	
3/19/2015	8,981.00	2.42	218.31	8,972.85	-146.61	-147.69	-16.61	0.15	MS	EXTREME ENGINEERING	
3/19/2015	9,071.00	2.99	235.49	9,062.75	-149.27	-150.51	-19.72	1.09	MS	EXTREME ENGINEERING	
3/19/2015	9,160.00	2.90	224.90	9,151.63	-151.99	-153.42	-23.23	0.62	MS	EXTREME ENGINEERING	
3/19/2015	9,249.00	2.99	218.93	9,240.51	-155.23	-156.82	-26.27	0.36	MS	EXTREME ENGINEERING	
3/19/2015	9,339.00	2.90	231.32	9,330.40	-158.30	-160.07	-29.53	0.71	MS	EXTREME ENGINEERING	
3/19/2015	9,428.00	3.21	224.20	9,419.27	-161.31	-163.26	-33.02	0.55	MS	EXTREME ENGINEERING	
3/19/2015	9,517.00	2.90	235.63	9,508.14	-164.17	-166.32	-36.62	0.77	MS	EXTREME ENGINEERING	
3/19/2015	9,607.00	3.38	239.62	9,598.01	-166.58	-168.94	-40.78	0.59	MS	EXTREME ENGINEERING	
3/19/2015	9,696.00	3.30	229.43	9,686.86	-169.35	-171.94	-44.99	0.67	MS	EXTREME ENGINEERING	
3/19/2015	9,785.00	3.60	233.43	9,775.70	-172.45	-175.27	-49.18	0.43	MS	EXTREME ENGINEERING	
3/19/2015	9,875.00	3.30	235.49	9,865.53	-175.37	-178.42	-53.59	0.36	MS	EXTREME ENGINEERING	
3/19/2015	9,964.00	3.38	232.59	9,954.38	-178.19	-181.46	-57.78	0.21	MS	EXTREME ENGINEERING	
3/19/2015	10,054.00	3.52	220.99	10,044.22	-181.68	-185.16	-61.70	0.79	MS	EXTREME ENGINEERING	
3/19/2015	10,139.00	2.90	217.83	10,129.09	-185.18	-188.83	-64.73	0.76	MS	EXTREME ENGINEERING	
3/19/2015	10,220.00	2.99	206.80	10,209.98	-188.57	-192.33	-66.94	0.71	MS	EXTREME ENGINEERING	
3/19/2015	10,318.00	2.90	214.62	10,307.85	-192.75	-196.65	-69.50	0.42	MS	EXTREME ENGINEERING	
3/19/2015	10,407.00	2.90	210.93	10,396.74	-196.40	-200.44	-71.94	0.21	MS	EXTREME ENGINEERING	
3/19/2015	10,497.00	3.21	201.61	10,486.61	-200.58	-204.73	-74.04	0.65	MS	EXTREME ENGINEERING	
3/19/2015	10,553.00	2.81	210.23	10,542.53	-203.15	-207.38	-75.30	1.08	MS	EXTREME ENGINEERING	
3/19/2015	10,657.00	2.90	207.50	10,646.40	-207.55	-211.91	-77.80	0.16	MS	EXTREME ENGINEERING	
3/19/2015	10,748.00	2.68	214.62	10,737.30	-211.22	-215.71	-80.07	0.45	MS	EXTREME ENGINEERING	
3/19/2015	10,838.00	2.50	224.51	10,827.20	-214.21	-218.84	-82.65	0.53	MS	EXTREME ENGINEERING	
3/19/2015	10,854.00	2.68	212.11	10,843.19	-214.75	-219.40	-83.09	3.67	MS	EXTREME ENGINEERING	
5/17/2015	10,966.00	6.42	320.90	10,954.94	-211.83	-216.76	-88.44	6.88	MWD	PATHFINDER	
5/17/2015	10,986.00	8.09	323.32	10,974.78	-209.76	-214.76	-89.98	8.49	MWD	PATHFINDER	
5/17/2015	11,016.00	10.55	325.88	11,004.39	-205.65	-210.79	-92.79	8.31	MWD	PATHFINDER	
5/17/2015	11,046.00	12.75	326.68	11,033.77	-200.44	-205.75	-96.15	7.35	MWD	PATHFINDER	
5/17/2015	11,076.00	15.12	329.79	11,062.88	-194.10	-199.61	-99.93	8.28	MWD	PATHFINDER	
5/17/2015	11,106.00	16.44	334.03	11,091.75	-186.71	-192.41	-103.76	5.84	MWD	PATHFINDER	
5/17/2015	11,136.00	16.88	337.95	11,120.49	-178.69	-184.55	-107.26	4.02	MWD	PATHFINDER	
Page 2/4 Report Printed: 10/22/2015											



Directional Survey

Well Name: SNAPPING 2 STATE 14H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name JENNINGS (NM)			County EDDY		State/Province NM				
Surface Legal Location SEC2 T26S R31E		API/UVI 3001542688		Latitude (") 32° 3' 56.066" N		Longitude (") 103° 44' 28.85" W		Ong KB Elevation (ft) 3,307.00		Ground Elev MSL (ft) 3,282.00		KB - GL (ft) 25.00	
Survey Data													
Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company			
5/17/2015	11,166.00	18.03	342.64	11,149.11	-170.07	-176.08	-110.28	6.05	MWD	PATHFINDER			
5/17/2015	11,196.00	19.43	347.09	11,177.52	-160.66	-166.79	-112.78	6.67	MWD	PATHFINDER			
5/17/2015	11,226.00	20.40	350.45	11,205.73	-150.55	-156.77	-114.76	5.00	MWD	PATHFINDER			
5/17/2015	11,256.00	20.93	353.16	11,233.80	-140.01	-146.29	-116.26	3.64	MWD	PATHFINDER			
5/17/2015	11,286.00	21.46	355.66	11,261.77	-129.17	-135.50	-117.32	3.49	MWD	PATHFINDER			
5/17/2015	11,316.00	21.81	355.04	11,289.66	-118.12	-124.47	-118.22	1.39	MWD	PATHFINDER			
5/17/2015	11,346.00	21.54	354.87	11,317.54	-107.04	-113.44	-119.19	0.92	MWD	PATHFINDER			
5/17/2015	11,376.00	21.72	355.95	11,345.43	-95.99	-102.41	-120.07	1.46	MWD	PATHFINDER			
5/17/2015	11,406.00	22.07	357.38	11,373.26	-84.80	-91.25	-120.72	2.13	MWD	PATHFINDER			
5/17/2015	11,436.00	21.98	358.91	11,401.07	-73.56	-80.00	-121.09	1.94	MWD	PATHFINDER			
5/17/2015	11,466.00	22.07	358.03	11,428.88	-62.31	-68.76	-121.39	1.14	MWD	PATHFINDER			
5/17/2015	11,496.00	22.07	357.67	11,456.68	-51.04	-57.49	-121.81	0.45	MWD	PATHFINDER			
5/17/2015	11,521.00	21.90	357.57	11,479.87	-41.68	-48.14	-122.20	0.70	MWD	PATHFINDER			
5/17/2015	11,551.00	22.16	357.24	11,507.68	-30.43	-36.90	-122.71	0.96	MWD	PATHFINDER			
5/17/2015	11,581.00	22.07	356.92	11,535.47	-19.13	-25.62	-123.29	0.50	MWD	PATHFINDER			
5/17/2015	11,607.00	21.81	355.70	11,559.59	-9.42	-15.93	-123.91	2.02	MWD	PATHFINDER			
5/17/2015	11,637.00	22.60	354.72	11,587.36	1.91	-4.63	-124.86	2.91	MWD	PATHFINDER			
5/17/2015	11,667.00	25.59	355.81	11,614.74	14.15	7.57	-125.86	10.08	MWD	PATHFINDER			
5/17/2015	11,697.00	28.67	357.21	11,641.44	27.83	21.23	-126.69	10.48	MWD	PATHFINDER			
5/17/2015	11,727.00	29.90	359.12	11,667.61	42.50	35.89	-127.15	5.15	MWD	PATHFINDER			
5/17/2015	11,757.00	31.66	358.64	11,693.38	57.84	51.24	-127.45	5.92	MWD	PATHFINDER			
5/17/2015	11,786.00	34.65	357.71	11,717.66	73.70	67.09	-127.96	10.46	MWD	PATHFINDER			
5/17/2015	11,816.00	37.11	357.83	11,741.96	91.28	84.66	-128.65	8.20	MWD	PATHFINDER			
5/17/2015	11,850.00	41.50	356.70	11,768.26	112.81	106.16	-129.68	13.08	MWD	PATHFINDER			
5/17/2015	11,876.00	45.02	356.70	11,787.20	130.62	123.95	-130.71	13.54	MWD	PATHFINDER			
5/17/2015	11,906.00	47.57	357.43	11,807.92	152.31	145.61	-131.82	8.68	MWD	PATHFINDER			
5/17/2015	11,936.00	48.98	357.80	11,827.89	174.69	167.98	-132.75	4.79	MWD	PATHFINDER			
5/17/2015	11,966.00	51.88	358.06	11,847.00	197.81	191.09	-133.58	9.69	MWD	PATHFINDER			
5/17/2015	11,996.00	55.40	358.22	11,864.78	221.97	215.23	-134.37	11.74	MWD	PATHFINDER			
5/17/2015	12,026.00	58.74	359.08	11,881.09	247.13	240.40	-134.96	11.39	MWD	PATHFINDER			
5/17/2015	12,056.00	61.47	358.48	11,896.04	273.12	266.40	-135.51	9.26	MWD	PATHFINDER			
5/17/2015	12,086.00	63.75	357.60	11,909.84	299.75	293.02	-136.42	8.03	MWD	PATHFINDER			
5/17/2015	12,116.00	65.77	356.95	11,922.63	326.89	320.12	-137.71	7.01	MWD	PATHFINDER			
5/17/2015	12,146.00	69.20	355.59	11,934.12	354.59	347.77	-139.52	12.18	MWD	PATHFINDER			
5/17/2015	12,176.00	71.93	354.99	11,944.10	382.87	375.96	-141.85	9.29	MWD	PATHFINDER			
5/17/2015	12,201.00	74.04	354.39	11,951.41	406.75	399.76	-144.06	8.75	MWD	PATHFINDER			
5/17/2015	12,236.00	75.10	354.14	11,960.72	440.45	433.33	-147.43	3.11	MWD	PATHFINDER			
5/17/2015	12,266.00	77.65	354.90	11,967.79	469.58	462.35	-150.21	8.85	MWD	PATHFINDER			
5/17/2015	12,293.00	79.40	354.96	11,973.16	496.02	488.71	-152.55	6.49	MWD	PATHFINDER			
5/17/2015	12,323.00	80.72	355.26	11,978.34	525.55	518.15	-155.07	4.51	MWD	PATHFINDER			
5/29/2015	12,424.00	88.20	357.75	11,988.09	626.00	618.41	-161.18	7.80	MWD	PATHFINDER			
5/29/2015	12,498.00	90.66	358.61	11,988.82	699.97	692.36	-163.53	3.52	MWD	PATHFINDER			
5/30/2015	12,588.00	88.02	358.75	11,989.86	789.92	782.33	-165.60	2.94	MWD	PATHFINDER			
5/30/2015	12,677.00	91.71	359.71	11,990.07	878.84	871.30	-166.80	4.28	MWD	PATHFINDER			
5/30/2015	12,766.00	91.10	359.29	11,987.89	967.73	960.27	-167.57	0.83	MWD	PATHFINDER			
5/30/2015	12,766.00	91.10	359.29	11,987.89	967.73	960.27	-167.57	0.83	MWD	PATHFINDER			
5/30/2015	12,856.00	86.97	355.46	11,989.40	1,057.67	1,050.13	-171.69	6.26	MWD	PATHFINDER			
6/1/2015	12,943.00	86.61	354.62	11,994.27	1,144.49	1,136.67	-179.20	1.05	MWD	PATHFINDER			
6/1/2015	13,032.00	86.97	353.91	11,999.26	1,233.24	1,225.08	-188.08	0.89	MWD	PATHFINDER			
6/2/2015	13,121.00	89.16	355.11	12,002.26	1,322.10	1,313.61	-196.59	2.81	MWD	PATHFINDER			
6/2/2015	13,211.00	91.10	355.72	12,002.06	1,412.06	1,403.32	-203.78	2.26	MWD	PATHFINDER			
6/2/2015	13,300.00	91.19	354.35	12,000.28	1,500.99	1,491.97	-211.49	1.54	MWD	PATHFINDER			
6/2/2015	13,389.00	91.10	355.57	11,998.50	1,589.92	1,580.60	-219.30	1.37	MWD	PATHFINDER			
6/2/2015	13,479.00	91.10	357.23	11,996.77	1,679.89	1,670.41	-224.95	1.84	MWD	PATHFINDER			
6/2/2015	13,568.00	88.99	0.26	11,996.70	1,768.83	1,759.37	-226.90	4.15	MWD	PATHFINDER			
6/2/2015	13,657.00	88.64	1.11	11,998.54	1,857.63	1,848.34	-225.84	1.03	MWD	PATHFINDER			
6/2/2015	13,747.00	87.58	0.69	12,001.51	1,947.37	1,938.28	-224.43	1.27	MWD	PATHFINDER			
6/2/2015	13,836.00	88.99	359.94	12,004.18	2,036.18	2,027.24	-223.94	1.79	MWD	PATHFINDER			
6/3/2015	13,925.00	88.37	358.31	12,006.23	2,125.09	2,116.20	-225.29	1.96	MWD	PATHFINDER			
6/3/2015	14,015.00	86.97	357.07	12,009.89	2,215.01	2,206.05	-228.92	2.08	MWD	PATHFINDER			
6/3/2015	14,104.00	88.88	357.57	12,013.11	2,303.94	2,294.89	-233.08	2.22	MWD	PATHFINDER			
6/3/2015	14,194.00	90.05	358.48	12,013.95	2,393.92	2,384.83	-236.18	1.65	MWD	PATHFINDER			
6/3/2015	14,283.00	90.78	358.56	12,013.30	2,482.89	2,473.80	-238.48	0.83	MWD	PATHFINDER			
6/3/2015	14,373.00	88.29	358.69	12,014.03	2,572.84	2,563.76	-240.64	2.77	MWD	PATHFINDER			
6/4/2015	14,462.00	88.02	358.76	12,016.90	2,661.75	2,652.69	-242.62	0.31	MWD	PATHFINDER			
6/4/2015	14,552.00	88.72	358.47	12,019.46	2,751.68	2,742.63	-244.79	0.84	MWD	PATHFINDER			
6/4/2015	14,641.00	88.99	359.84	12,021.24	2,840.60	2,831.60	-246.10	1.57	MWD	PATHFINDER			
6/4/2015	14,730.00	88.99	1.05	12,022.81	2,929.42	2,920.58	-245.41	1.36	MWD	PATHFINDER			
6/6/2015	14,766.00	88.37	0.82	12,023.64	2,965.33	2,956.57	-244.82	1.84	MWD	PATHFINDER			
6/6/2015	14,856.00	87.41	358.55	12,026.95	3,055.16	3,046.50	-245.32	2.74	MWD	PATHFINDER			
6/6/2015	14,946.00	88.29	356.73	12,030.33	3,145.09	3,136.35	-249.02	2.24	MWD	PATHFINDER			
6/6/2015	15,035.00	88.37	356.41	12,032.92	3,234.05	3,225.16	-254.34	0.37	MWD	PATHFINDER			
6/6/2015	15,124.00	88.90	356.56	12,035.04	3,323.02	3,313.96	-259.80	0.62	MWD	PATHFINDER			
6/6/2015	15,214.00	88.20	355.77	12,037.32	3,412.98	3,403.73	-265.82	1.17	MWD	PATHFINDER			
6/7/2015	15,303.00	87.67	355.73	12,040.53	3,501.90	3,492.43	-272.41	0.60	MWD	PATHFINDER			
6/7/2015	15,393.00	85.56	354.56	12,045.84	3,591.69	3,581.94	-280.01	2.68	MWD	PATHFINDER			
6/7/2015	15,482.00	86.88	355.49	12,051.71	3,680.44	3,670.41	-287.71	1.81	MWD	PATHFINDER			
Page 3/4 Report Printed: 10/22/2015													



Well Name: SNAPPING 2 STATE 14H

Page 4/4