

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Devon Energy Production Company, L.P. 333 West Sheridan, Oklahoma City, OK 73102		² OGRID Number 6137
		³ Reason for Filing Code/ Effective Date NW / 12/16/15
⁴ API Number 30-015-42710	⁵ Pool Name Avalon; Bone Spring, East	⁶ Pool Code 3713
⁷ Property Code 313782	⁸ Property Name Cerf 10 State	⁹ Well Number 9H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
M	11	21S	27E		1195	South	150	West	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	21S	27E		2265	South	290	West	Eddy
¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date 12/16/15	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
278421	Holly-Frontier 10 Desta Drive, Ste 350W Midland, TX 79710	Oil
051618	Enterprise Field Services, LLC P.O. Box 4324 Houston, TX 77222	Gas
	NM OIL CONSERVATION ARTESIA DISTRICT	
	FEB 22 2016	
	RECEIVED	

IV. Well Completion Data

²¹ Spud Date 6/2/15	²² Ready Date 12/16/15	²³ TD 12,610'	²⁴ PBD 12,564.3'	²⁵ Perforations 7950' - 12,544'	²⁶ DHC, MC
²⁷ Hole Size 30"	²⁸ Casing & Tubing Size 20"	²⁹ Depth Set 146.5'	³⁰ Sacks Cement 600 sx CIC; Circ 62 bbls		
17-1/2"	13-3/8"	780'	1000 sx CIC; Circ 100 bbls		
12-1/4"	9-5/8"	2881'	1020 sx cmt; Circ 85 bbls		
8-3/4"	5-1/2"	12,610'	2260 sx cmt; Circ 0		

V. Well Test Data

Tubing: 2-7/8" & 3-1/2" 6972.9'

³¹ Date New Oil 12/19/15	³² Gas Delivery Date 12/19/15	³³ Test Date 12/19/15	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 451 psi	³⁶ Csg. Pressure 212 psi
³⁷ Choke Size	³⁸ Oil 491 bbl	³⁹ Water 1156 bbl	⁴⁰ Gas 689 mcf		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Rebecca Deal*
Printed name: Rebecca Deal
Title: Regulatory Compliance Analyst
E-mail Address: rebecca.deal@dmv.com
Date: 2/22/2016 Phone:

OIL CONSERVATION DIVISION

Approved by:

Accepted for record

Title:

NMOCDC

Approval Date:

2-22-16

Well Name: CERF 10 STATE 9H

Sub-Direction	Region	Field Name	County	State/Province						
DELAWARE BASIN WEST	SLOPE WEST	BURTON FLAT	EDDY	NM						
Surface Legal Location	APURM	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)						
SEC 10 T21S R27E	3001542710	32° 29' 26.372" N	104° 10' 5.238" W	3,309.10						
Wellbores	Parent Wellbore	SAP Well ID	Round Elev MSL (ft)	Rd - GL (ft)						
OH	OH	38602	3,284.10	25.00						
Kick Offs & Key Depths			Vertical Section (Direction, °)							
Date	Type	Top Depth (RKB)								
8/8/2015	CURVE	6,958.0								
Actual Deviation Survey		Deviative?	Proposed?	Proposed Deviation Survey						
FLO DRIFT, Proposed? No		Yes	No							
Deviation Survey										
Date	Description									
7/30/2015	FLO DRIFT									
MD Tie In (RKB)	TVD Tie In (RKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)						
0.00	0.00	0.00	0.00	0.00						
Survey Data										
Date	MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	VS (ft)	N/S (ft)	EAV (ft)	DLS (1/1000)	Survey Tool	Survey Company
7/30/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	FLO DRIFT
7/30/2015	139.00	0.10	3.00	139.00	-0.01	0.12	0.01	0.07	MWD	FLO DRIFT
7/30/2015	200.00	0.10	92.00	200.00	-0.06	0.17	0.06	0.23	MWD	FLO DRIFT
7/30/2015	262.00	0.40	142.00	262.00	-0.25	0.00	0.25	0.56	MWD	FLO DRIFT
7/30/2015	320.00	0.50	109.00	320.00	-0.61	-0.24	0.61	0.47	MWD	FLO DRIFT
7/30/2015	412.00	0.30	131.00	412.00	-1.17	-0.53	1.17	0.27	MWD	FLO DRIFT
8/13/2015	504.00	0.40	138.00	503.99	-1.57	-0.93	1.57	0.12	MWD	FLODRIFT
7/30/2015	595.00	0.40	102.00	594.99	-2.09	-1.23	2.09	0.27	MWD	FLO DRIFT
7/30/2015	682.00	0.60	134.00	681.99	-2.72	-1.61	2.72	0.39	MWD	FLO DRIFT
7/30/2015	712.00	0.40	112.00	711.99	-2.93	-1.76	2.93	0.91	MWD	FLO DRIFT
8/1/2015	778.00	0.10	309.00	775.99	-3.09	-1.81	3.09	0.78	MWD	FLO DRIFT
8/1/2015	871.00	0.60	131.00	870.99	-3.40	-2.08	3.40	0.74	MWD	FLO DRIFT
8/1/2015	965.00	0.80	105.00	964.98	-4.41	-2.57	4.41	0.39	MWD	FLO DRIFT
8/1/2015	1,059.00	1.00	93.00	1,059.97	-5.86	-2.79	5.86	0.29	MWD	FLO DRIFT
8/1/2015	1,153.00	1.50	107.00	1,152.94	-7.88	-3.19	7.88	0.62	MWD	FLO DRIFT
8/1/2015	1,248.00	1.20	96.00	1,247.92	-10.03	-3.71	10.03	0.37	MWD	FLO DRIFT
8/2/2015	1,341.00	1.30	103.00	1,340.90	-12.02	-4.10	12.02	0.14	MWD	FLO DRIFT
8/2/2015	1,436.00	1.20	105.00	1,435.87	-14.03	-4.60	14.03	0.11	MWD	FLO DRIFT
8/2/2015	1,529.00	1.20	92.00	1,528.85	-15.94	-4.88	15.94	0.29	MWD	FLO DRIFT
8/2/2015	1,623.00	1.40	105.00	1,622.83	-18.04	-5.21	18.04	0.38	MWD	FLO DRIFT
8/2/2015	1,717.00	1.20	107.00	1,716.80	-20.09	-5.80	20.09	0.22	MWD	FLO DRIFT
8/2/2015	1,811.00	1.50	94.00	1,810.78	-22.26	-6.17	22.26	0.45	MWD	FLO DRIFT
8/2/2015	1,908.00	1.20	108.00	1,905.75	-24.44	-6.57	24.44	0.47	MWD	FLO DRIFT
8/2/2015	2,001.00	1.30	107.00	2,000.73	-26.42	-7.19	26.42	0.11	MWD	FLO DRIFT
8/2/2015	2,096.00	1.10	113.00	2,095.71	-28.29	-7.86	28.29	0.25	MWD	FLO DRIFT
8/2/2015	2,189.00	1.20	113.00	2,188.69	-30.01	-8.59	30.01	0.11	MWD	FLO DRIFT
8/2/2015	2,286.00	1.20	119.00	2,285.67	-31.83	-9.48	31.83	0.13	MWD	FLO DRIFT
8/2/2015	2,380.00	1.10	106.00	2,379.65	-33.56	-10.21	33.56	0.30	MWD	FLO DRIFT
8/2/2015	2,474.00	1.10	109.00	2,473.63	-35.28	-10.75	35.28	0.06	MWD	FLO DRIFT
8/2/2015	2,568.00	0.90	111.00	2,567.62	-36.82	-11.31	36.82	0.22	MWD	FLO DRIFT
8/2/2015	2,662.00	1.20	108.00	2,661.60	-38.46	-11.84	38.46	0.33	MWD	FLO DRIFT
8/2/2015	2,753.00	1.30	117.00	2,752.58	-40.29	-12.57	40.29	0.29	MWD	FLO DRIFT
8/2/2015	2,824.00	1.30	108.00	2,823.56	-41.78	-13.16	41.78	0.35	MWD	FLO DRIFT
8/13/2015	2,881.00	1.23	116.73	2,880.55	-42.95	-13.81	42.95	0.43	MWD	WEATHERFORD
8/4/2015	2,993.00	1.21	121.16	2,992.64	-43.36	-13.84	43.36	0.44	MWD	WEATHERFORD
8/4/2015	2,997.00	1.07	33.65	2,996.53	-44.70	-13.82	44.70	1.68	MWD	WEATHERFORD
8/4/2015	3,091.00	2.87	9.19	3,090.47	-45.56	-10.57	45.56	2.07	MWD	WEATHERFORD
8/4/2015	3,185.00	4.61	0.50	3,184.27	-45.97	-4.47	45.97	1.94	MWD	WEATHERFORD
8/4/2015	3,280.00	6.41	357.05	3,278.83	-45.73	4.65	45.73	1.93	MWD	WEATHERFORD
8/4/2015	3,374.00	8.31	354.64	3,372.05	-44.83	16.65	44.83	2.05	MWD	WEATHERFORD
8/4/2015	3,468.00	8.74	353.86	3,466.01	-43.43	30.51	43.43	0.47	MWD	WEATHERFORD
8/5/2015	3,562.00	8.83	354.18	3,557.91	-41.93	44.79	41.93	0.11	MWD	WEATHERFORD
8/5/2015	3,656.00	8.94	353.88	3,650.78	-40.42	59.23	40.42	0.13	MWD	WEATHERFORD
8/5/2015	3,750.00	8.81	353.82	3,743.65	-38.87	73.85	38.87	0.14	MWD	WEATHERFORD
8/5/2015	3,845.00	8.60	351.75	3,837.56	-37.06	87.91	37.06	0.40	MWD	WEATHERFORD
8/5/2015	3,939.00	8.17	350.22	3,930.56	-34.92	101.45	34.92	0.52	MWD	WEATHERFORD
8/5/2015	4,033.00	8.51	355.39	4,023.56	-33.23	114.97	33.23	0.88	MWD	WEATHERFORD
8/5/2015	4,127.00	8.35	356.28	4,116.55	-32.23	128.71	32.23	0.22	MWD	WEATHERFORD
8/5/2015	4,221.00	8.15	355.73	4,209.57	-31.29	142.16	31.29	0.23	MWD	WEATHERFORD
8/5/2015	4,315.00	8.06	356.47	4,302.64	-30.39	155.39	30.39	0.15	MWD	WEATHERFORD
8/5/2015	4,409.00	7.70	355.75	4,395.75	-29.51	168.24	29.51	0.40	MWD	WEATHERFORD
8/5/2015	4,503.00	8.77	354.63	4,488.78	-28.38	181.66	28.38	1.15	MWD	WEATHERFORD
8/5/2015	4,598.00	8.88	354.05	4,582.64	-26.93	196.24	26.93	0.24	MWD	WEATHERFORD
8/5/2015	4,692.00	8.87	354.07	4,675.50	-25.42	210.75	25.42	0.12	MWD	WEATHERFORD
8/5/2015	4,786.00	8.69	354.61	4,768.40	-24.00	225.03	24.00	0.21	MWD	WEATHERFORD
8/5/2015	4,880.00	8.43	353.21	4,861.35	-22.52	238.94	22.52	0.35	MWD	WEATHERFORD
8/5/2015	4,974.00	8.10	353.43	4,954.38	-20.95	252.36	20.95	0.35	MWD	WEATHERFORD
8/5/2015	5,069.00	8.82	353.38	5,048.34	-19.35	266.24	19.35	0.78	MWD	WEATHERFORD
8/5/2015	5,163.00	9.14	353.35	5,141.19	-17.65	280.82	17.65	0.34	MWD	WEATHERFORD
8/5/2015	5,257.00	8.84	352.77	5,234.03	-15.88	295.40	15.88	0.33	MWD	WEATHERFORD
8/5/2015	5,351.00	8.20	352.61	5,327.00	-14.10	309.21	14.10	0.68	MWD	WEATHERFORD
8/5/2015	5,445.00	8.44	354.86	5,420.01	-12.62	322.73	12.62	0.43	MWD	WEATHERFORD
8/5/2015	5,539.00	7.94	355.70	5,513.06	-11.52	336.07	11.52	0.55	MWD	WEATHERFORD
8/5/2015	5,634.00	8.58	355.66	5,607.06	-10.49	349.68	10.49	0.67	MWD	WEATHERFORD
8/5/2015	5,728.00	9.77	356.18	5,699.86	-9.43	364.63	9.43	1.27	MWD	WEATHERFORD
8/5/2015	5,822.00	9.27	356.08	5,792.56	-8.38	380.15	8.38	0.53	MWD	WEATHERFORD

Well Name: CERF 10 STATE 9H

Sub-Division	Region	Field Name	County	State/Province						
DELAWARE BASIN WEST	SLOPE WEST	BURTON FLAT	EDDY	NM						
Surface Legal Location	APRNUM	Latitude (°)	Longitude (°)	Original Elevation (ft)						
SEC 10 T21S R27E	3001542710	32° 29' 28.372" N	104° 10' 5.238" W	3,309.10						
Ground Elev MSL (ft)				3,284.10						
NS - OL (ft)				25.00						
Survey Data										
Date	MD (RKB)	Ind (")	Arm (")	TVD (RKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (ft/100ft)	Survey Tool	Survey Company
8/5/2015	5,916.00	8.30	352.28	5,885.46	-6.95	394.42	6.95	1.20	MWD	WEATHERFORD
8/5/2015	6,010.00	8.67	352.29	5,978.43	-5.09	408.17	5.09	0.39	MWD	WEATHERFORD
8/5/2015	6,104.00	8.78	355.49	6,071.34	-3.57	422.34	3.57	0.53	MWD	WEATHERFORD
8/5/2015	6,198.00	7.84	353.97	6,164.38	-2.34	435.87	2.34	1.03	MWD	WEATHERFORD
8/5/2015	6,292.00	7.52	353.95	6,257.51	-1.02	448.36	1.02	0.34	MWD	WEATHERFORD
8/5/2015	6,387.00	7.51	351.93	6,351.70	-0.51	460.69	-0.51	0.28	MWD	WEATHERFORD
8/5/2015	6,481.00	7.30	357.19	6,444.91	1.87	472.74	-1.67	0.75	MWD	WEATHERFORD
8/5/2015	6,575.00	6.66	357.88	6,538.22	2.16	484.15	-2.16	0.69	MWD	WEATHERFORD
8/5/2015	6,670.00	5.95	356.12	6,632.64	2.70	494.57	-2.70	0.77	MWD	WEATHERFORD
8/5/2015	6,764.00	5.34	5.08	6,726.19	2.64	503.78	-2.84	1.14	MWD	WEATHERFORD
8/5/2015	6,859.00	4.86	6.86	6,820.81	1.77	512.18	-1.77	0.53	MWD	WEATHERFORD
8/5/2015	6,953.00	4.98	356.22	6,914.47	-1.56	520.21	-1.56	0.98	MWD	WEATHERFORD
8/5/2015	6,984.00	7.39	334.94	6,945.29	2.49	523.36	-2.49	10.61	MWD	WEATHERFORD
8/5/2015	7,015.00	10.79	325.65	6,975.90	4.98	527.56	-4.98	11.91	MWD	WEATHERFORD
8/5/2015	7,047.00	13.85	322.35	7,007.16	9.01	533.07	-9.01	8.81	MWD	WEATHERFORD
8/5/2015	7,078.00	17.00	321.58	7,037.04	14.09	539.58	-14.09	10.18	MWD	WEATHERFORD
8/5/2015	7,109.00	20.06	320.58	7,068.42	20.29	547.22	-20.29	9.92	MWD	WEATHERFORD
8/5/2015	7,141.00	22.78	319.19	7,096.21	27.82	556.15	-27.82	8.65	MWD	WEATHERFORD
8/5/2015	7,172.00	25.53	318.95	7,124.49	36.13	565.73	-36.13	8.88	MWD	WEATHERFORD
8/5/2015	7,203.00	28.68	319.31	7,152.09	45.37	576.41	-45.37	10.18	MWD	WEATHERFORD
8/5/2015	7,235.00	31.45	318.98	7,179.78	55.86	588.53	-55.86	8.97	MWD	WEATHERFORD
8/5/2015	7,266.00	34.81	318.32	7,205.74	67.05	601.25	-67.05	10.90	MWD	WEATHERFORD
8/5/2015	7,297.00	37.93	317.53	7,230.69	79.37	614.89	-79.37	10.18	MWD	WEATHERFORD
8/5/2015	7,328.00	40.87	317.40	7,255.42	93.10	628.85	-93.10	9.19	MWD	WEATHERFORD
8/5/2015	7,360.00	43.27	317.09	7,278.43	107.20	645.10	-107.20	7.77	MWD	WEATHERFORD
8/5/2015	7,392.00	45.97	316.65	7,301.20	122.57	661.50	-122.67	8.49	MWD	WEATHERFORD
8/5/2015	7,423.00	48.18	316.14	7,322.32	138.23	677.94	-138.23	7.23	MWD	WEATHERFORD
8/5/2015	7,454.00	49.81	315.64	7,342.65	154.51	694.73	-154.51	5.40	MWD	WEATHERFORD
8/5/2015	7,486.00	52.52	315.11	7,362.72	172.02	712.47	-172.02	8.57	MWD	WEATHERFORD
8/5/2015	7,517.00	55.73	315.43	7,380.88	189.69	730.31	-189.69	10.39	MWD	WEATHERFORD
8/5/2015	7,549.00	58.23	316.40	7,398.32	208.36	749.59	-208.36	8.22	MWD	WEATHERFORD
8/5/2015	7,580.00	60.04	317.56	7,414.22	226.51	769.04	-226.51	6.66	MWD	WEATHERFORD
8/5/2015	7,611.00	63.15	318.45	7,428.97	244.75	789.31	-244.75	10.35	MWD	WEATHERFORD
8/5/2015	7,643.00	66.84	318.15	7,442.49	264.04	810.96	-264.04	11.56	MWD	WEATHERFORD
8/5/2015	7,674.00	68.67	315.58	7,454.23	283.66	831.89	-283.66	9.68	MWD	WEATHERFORD
8/5/2015	7,705.00	69.62	312.55	7,465.27	304.47	852.03	-304.47	9.63	MWD	WEATHERFORD
8/5/2015	7,737.00	71.11	308.99	7,476.02	327.29	871.70	-327.29	11.47	MWD	WEATHERFORD
8/5/2015	7,768.00	72.29	305.52	7,485.78	350.72	889.51	-350.72	11.29	MWD	WEATHERFORD
8/5/2015	7,799.00	74.64	302.69	7,494.58	375.32	906.17	-375.32	11.56	MWD	WEATHERFORD
8/5/2015	7,830.00	77.16	299.83	7,502.14	401.01	921.79	-401.01	11.88	MWD	WEATHERFORD
8/5/2015	7,862.00	79.09	297.67	7,508.72	428.45	936.87	-428.45	9.17	MWD	WEATHERFORD
8/5/2015	7,893.00	80.38	295.13	7,514.25	455.77	950.43	-455.77	9.04	MWD	WEATHERFORD
8/5/2015	7,924.00	81.50	291.93	7,519.14	483.63	962.65	-483.83	10.84	MWD	WEATHERFORD
8/5/2015	7,956.00	82.28	289.30	7,523.65	513.48	973.80	-513.48	8.49	MWD	WEATHERFORD
8/5/2015	7,987.00	82.99	286.34	7,527.63	542.74	983.21	-542.74	9.74	MWD	WEATHERFORD
8/5/2015	8,019.00	84.11	283.56	7,531.22	573.46	991.41	-573.46	9.31	MWD	WEATHERFORD
8/5/2015	8,050.00	84.48	280.66	7,534.31	603.62	997.88	-603.62	9.38	MWD	WEATHERFORD
8/5/2015	8,082.00	85.59	277.62	7,537.09	635.09	1,002.94	-635.09	10.10	MWD	WEATHERFORD
8/5/2015	8,113.00	87.20	275.64	7,539.04	665.82	1,006.51	-666.82	8.22	MWD	WEATHERFORD
8/5/2015	8,144.00	89.09	274.44	7,540.04	696.88	1,009.24	-696.68	7.22	MWD	WEATHERFORD
8/5/2015	8,176.00	90.56	271.37	7,540.14	728.63	1,010.86	-728.63	10.64	MWD	WEATHERFORD
8/5/2015	8,207.00	91.89	268.52	7,539.48	759.62	1,010.83	-756.62	10.14	MWD	WEATHERFORD
8/5/2015	8,239.00	93.08	267.43	7,538.09	791.57	1,009.76	-791.57	6.04	MWD	WEATHERFORD
8/5/2015	8,292.00	94.69	266.97	7,534.50	824.38	1,007.12	-844.38	3.16	MWD	WEATHERFORD
8/5/2015	8,386.00	94.06	267.22	7,527.33	857.89	1,002.37	-937.69	0.72	MWD	WEATHERFORD
8/5/2015	8,480.00	92.73	267.76	7,521.76	1,031.73	998.28	-1,031.73	1.53	MWD	WEATHERFORD
8/5/2015	8,574.00	91.68	268.43	7,518.14	1,125.61	995.13	-1,125.61	1.32	MWD	WEATHERFORD
8/5/2015	8,669.00	91.54	268.16	7,515.47	1,220.53	992.31	-1,220.53	0.32	MWD	WEATHERFORD
8/5/2015	8,763.00	91.62	268.87	7,512.72	1,314.45	989.71	-1,314.45	0.62	MWD	WEATHERFORD
8/5/2015	8,857.00	91.40	270.30	7,510.08	1,408.41	988.87	-1,408.41	1.79	MWD	WEATHERFORD
8/5/2015	8,951.00	92.31	270.88	7,507.03	1,502.35	989.83	-1,502.35	1.15	MWD	WEATHERFORD
8/5/2015	9,045.00	91.19	271.09	7,504.16	1,596.29	991.45	-1,596.29	1.21	MWD	WEATHERFORD
8/5/2015	9,140.00	90.77	270.69	7,502.54	1,691.27	992.92	-1,691.27	0.61	MWD	WEATHERFORD
8/5/2015	9,234.00	90.84	270.48	7,501.22	1,785.25	993.88	-1,785.25	0.24	MWD	WEATHERFORD
8/5/2015	9,328.00	90.70	270.66	7,499.66	1,879.24	994.33	-1,879.24	0.47	MWD	WEATHERFORD
8/5/2015	9,422.00	90.49	270.86	7,498.98	1,973.23	995.11	-1,973.23	0.91	MWD	WEATHERFORD
8/5/2015	9,516.00	90.63	270.95	7,498.08	2,067.22	996.61	-2,067.22	0.16	MWD	WEATHERFORD
8/5/2015	9,610.00	90.66	271.00	7,497.08	2,161.20	998.21	-2,161.20	0.09	MWD	WEATHERFORD
8/5/2015	9,705.00	91.96	271.11	7,495.00	2,256.18	999.86	-2,256.18	1.48	MWD	WEATHERFORD
8/5/2015	9,799.00	92.24	270.80	7,491.55	2,350.08	1,001.63	-2,350.08	0.44	MWD	WEATHERFORD
8/5/2015	9,893.00	92.45	270.47	7,487.70	2,444.00	1,002.57	-2,444.00	0.42	MWD	WEATHERFORD
8/12/2015	9,987.00	93.01	270.45	7,483.23	2,537.89	1,003.32	-2,537.89	0.60	MWD	WEATHERFORD
8/12/2015	10,081.00	91.82	270.70	7,478.27	2,631.80	1,004.27	-2,631.80	1.29	MWD	WEATHERFORD
8/12/2015	10,175.00	91.61	270.15	7,476.45	2,725.75	1,004.96	-2,725.75	0.63	MWD	WEATHERFORD
8/12/2015	10,269.00	91.33	270.17	7,474.04	2,819.72	1,005.22	-2,819.72	0.30	MWD	WEATHERFORD
8/12/2015	10,363.00	92.38	269.86	7,471.00	2,913.67	1,005.25	-2,913.67	1.16	MWD	WEATHERFORD
8/12/2015	10,458.00	92.03	269.71	7,467.34	3,008.60	1,004.89	-3,008.60	0.40	MWD	WEATHERFORD



Directional Survey

DELAWARE BASIN WEST UNRESTRICTED

Well Name: CERF 10 STATE 9H

Sub-Division	Region	Field Name	County	State/Province
DELAWARE BASIN WEST	SLOPE WEST	BURTON FLAT	EDDY	NM
Surface Legal Location	APN/LAW	Latitude (°)	Longitude (°)	Original Elevation (ft)
SEC 10 T21S R27E	3001542710	32° 28' 28.372" N	104° 10' 5.238" W	3,309.10
				3,284.10
				25.00

Survey Data

Date	MO (ft)	Incl (°)	Azim (°)	TVI (ft)	VS (ft)	NS (ft)	EAW (ft)	DLG (ft/100ft)	Survey Tool	Survey Company
8/12/2015	10,552.00	82.17	269.96	7,463.90	3,102.53	1,004.62	-3,102.53	0.30	MWD	WEATHERFORD
8/12/2015	10,846.00	81.26	270.20	7,461.09	3,196.49	1,004.75	-3,196.49	1.00	MWD	WEATHERFORD
8/12/2015	10,741.00	80.28	270.48	7,459.81	3,291.48	1,005.32	-3,291.48	1.07	MWD	WEATHERFORD
8/12/2015	10,835.00	89.51	271.13	7,459.98	3,385.47	1,006.64	-3,385.47	1.07	MWD	WEATHERFORD
8/12/2015	10,930.00	89.16	270.67	7,461.08	3,480.45	1,008.13	-3,480.45	0.81	MWD	WEATHERFORD
8/12/2015	11,024.00	89.16	270.34	7,462.46	3,574.44	1,008.98	-3,574.44	0.35	MWD	WEATHERFORD
8/12/2015	11,118.00	88.81	270.55	7,464.13	3,668.42	1,009.69	-3,668.42	0.43	MWD	WEATHERFORD
8/12/2015	11,212.00	88.95	271.31	7,465.97	3,762.39	1,011.21	-3,762.39	0.82	MWD	WEATHERFORD
8/12/2015	11,306.00	88.39	271.68	7,468.15	3,856.33	1,013.67	-3,856.33	0.72	MWD	WEATHERFORD
8/12/2015	11,400.00	88.58	271.94	7,469.81	3,950.27	1,016.65	-3,950.27	1.29	MWD	WEATHERFORD
8/12/2015	11,494.00	89.79	270.13	7,470.33	4,044.24	1,018.35	-4,044.24	1.94	MWD	WEATHERFORD
8/13/2015	11,588.00	89.72	269.65	7,470.73	4,138.24	1,018.17	-4,138.24	0.52	MWD	WEATHERFORD
8/13/2015	11,682.00	89.30	269.59	7,471.53	4,232.24	1,017.54	-4,232.24	0.45	MWD	WEATHERFORD
8/13/2015	11,776.00	89.72	269.48	7,472.34	4,326.23	1,016.78	-4,326.23	0.48	MWD	WEATHERFORD
8/13/2015	11,871.00	89.65	268.68	7,472.66	4,421.22	1,015.28	-4,421.22	0.95	MWD	WEATHERFORD
8/13/2015	11,965.00	89.23	269.12	7,473.78	4,515.19	1,013.45	-4,515.19	0.85	MWD	WEATHERFORD
8/13/2015	12,059.00	89.23	269.31	7,475.04	4,609.18	1,012.18	-4,609.18	0.20	MWD	WEATHERFORD
8/13/2015	12,153.00	89.08	269.22	7,476.42	4,703.16	1,010.96	-4,703.16	0.18	MWD	WEATHERFORD
8/13/2015	12,247.00	88.23	269.13	7,477.80	4,797.14	1,009.81	-4,797.14	0.18	MWD	WEATHERFORD
8/13/2015	12,342.00	90.00	268.45	7,478.44	4,892.11	1,007.60	-4,892.11	1.08	MWD	WEATHERFORD
8/13/2015	12,436.00	90.07	268.42	7,478.38	4,986.08	1,005.03	-4,986.08	0.08	MWD	WEATHERFORD
8/13/2015	12,528.00	90.21	268.49	7,478.16	5,078.05	1,002.81	-5,078.05	0.17	MWD	WEATHERFORD
8/13/2015	12,580.60	90.21	268.49	7,477.98	5,130.63	1,001.17	-5,130.63	0.00	MWD	WEATHERFORD
8/13/2015	12,610.00	90.21	268.46	7,477.85	5,160.02	1,000.39	-5,160.02	0.00	MWD	WEATHERFORD
8/13/2015	12,610.00	90.21	268.49	7,477.85	5,160.02	1,000.39	-5,160.02	0.00	BIT	WEATHERFORD