

OCD-ARTESIA
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No	NMNM 54856
6. If Indian, Allottee or Tribe Name	JUN - 1 2010
NMCD-ARTESIA	

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator Devon Energy Production Co., LP		8. Well Name and No Dickens 29 Federal 1H
3a. Address 20 North Broadway OKC, OK 73102	3b. Phone No (include area code) (405)-552-7802	9. API Well No 30-015-37385
4. Location of Well (Footage, Sec., T, R, M, or Survey Description) SESE SL 170' FSL & 790' FEL "BHL 330' FSL & 330' FWL Sec 29-T16S-R28E		10. Field and Pool or Exploratory Area Dog Canyon; Wolfcamp
		11. Country or Parish, State Eddy County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change Drilling Program - Revise TVD & MD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Devon Energy Production Co., LP respectfully requests approval to change the initial approved TD (TVD & MD):

Original approved TD depths were as follows... TVD: 6570' and 10,475' MD will be changed to 6550' TVD and 10,701' MD.

Bottom hole is the same as the original APD.

See attached revised directional survey.

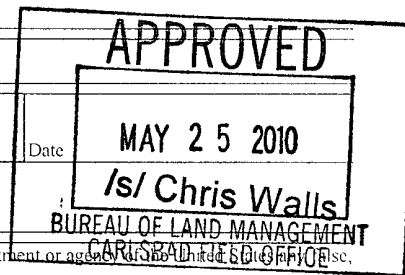
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Stephanie A. Ysasaga	Title Sr. Staff Engineering Technician
Signature 	Date 05/24/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by 	Title Office	Date MAY 25 2010
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)





Devon Energy, Inc.

Eddy County

Dickens "29" Federal

#1H

OH

Plan: Plan #4

Pathfinder X & Y Planning Report

15 May, 2010

The logo for Pathfinder, with the word "PATH" in a bold, sans-serif font, followed by a stylized graphic of a path or river leading into the word "FINDER", which is also in a bold, sans-serif font. A thick, curved line underlines the word "FINDER".



Pathfinder
Pathfinder X & Y Planning Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	WELL @ 3593.00ft (Original Well Elev)
Site:	Dickens "29" Federal	MD Reference:	WELL @ 3593.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Midland Database

Project		Eddy County	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Dickens "29" Federal			
Site Position:		Northing:	686,075.313 ft	Latitude:	32° 53' 9.458 N
From:	Map	Easting:	584,686.567 ft	Longitude:	104° 11' 31.623 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.08 °

Well		#1H				
Well Position	+N/-S	0.00 ft	Northing:	686,075.313 ft	Latitude:	32° 53' 9.458 N
	+E/-W	0.00 ft	Easting:	584,686.567 ft	Longitude:	104° 11' 31.623 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	3,578.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	04/07/2010	8.05	60.74	49,122

Design	Plan #4			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	5,710.58
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	272.35



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Midland Database

Survey Tool Program		Date 05/15/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
51.57	5,710.58	GYRO (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
5,710.58	10,701.13	Plan #4 (OH)	Pathfinder	Pathfinder MWD	

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
0.00	0.00	0.00	0.00	-3,593.00	0.00	0.00	0.00	0.00	686,075.31	584,686.57	
51.57	0.27	139.73	51.57	-3,541.43	-0.09	0.08	-0.08	0.52	686,075.22	584,686.65	
144.85	0.29	136.39	144.85	-3,448.15	-0.43	0.38	-0.40	0.03	686,074.88	584,686.95	
238.13	0.26	89.85	238.13	-3,354.87	-0.60	0.76	-0.78	0.23	686,074.71	584,687.32	
331.41	0.22	64.21	331.41	-3,261.59	-0.52	1.13	-1.15	0.12	686,074.79	584,687.70	
424.69	0.38	73.54	424.69	-3,168.31	-0.36	1.59	-1.60	0.18	686,074.96	584,688.16	
517.97	0.43	59.07	517.96	-3,075.04	-0.09	2.19	-2.19	0.12	686,075.22	584,688.75	
611.25	0.42	66.13	611.24	-2,981.76	0.23	2.80	-2.79	0.06	686,075.54	584,689.37	
704.53	0.45	59.16	704.52	-2,888.48	0.55	3.43	-3.40	0.07	686,075.87	584,689.99	
797.81	0.46	55.92	797.80	-2,795.20	0.95	4.05	-4.01	0.03	686,076.26	584,690.62	
891.09	0.38	48.31	891.07	-2,701.93	1.37	4.59	-4.53	0.10	686,076.68	584,691.16	
984.37	0.40	47.26	984.35	-2,608.65	1.79	5.06	-4.98	0.02	686,077.11	584,691.63	
1,077.65	0.35	44.71	1,077.63	-2,515.37	2.22	5.50	-5.41	0.06	686,077.53	584,692.07	
1,170.93	0.19	53.72	1,170.91	-2,422.09	2.51	5.83	-5.72	0.18	686,077.82	584,692.39	
1,264.21	0.20	48.51	1,264.19	-2,328.81	2.71	6.07	-5.96	0.02	686,078.02	584,692.64	
1,357.49	0.20	52.32	1,357.47	-2,235.53	2.92	6.32	-6.20	0.01	686,078.23	584,692.89	
1,450.77	0.15	70.28	1,450.75	-2,142.25	3.06	6.57	-6.44	0.08	686,078.37	584,693.13	
1,544.05	0.10	99.90	1,544.03	-2,048.97	3.09	6.76	-6.63	0.09	686,078.40	584,693.33	
1,637.33	0.08	96.93	1,637.31	-1,955.69	3.06	6.91	-6.78	0.02	686,078.38	584,693.47	
1,730.61	0.13	42.40	1,730.59	-1,862.41	3.13	7.04	-6.91	0.11	686,078.45	584,693.61	
1,823.89	0.17	35.45	1,823.87	-1,769.13	3.33	7.20	-7.05	0.05	686,078.64	584,693.76	



Pathfinder
Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Dickens "29" Federal
Well: #1H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well #1H
WELL @ 3593.00ft (Original Well Elev)
WELL @ 3593.00ft (Original Well Elev)
Grid
Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
1,917.17	0.10	60.09	1,917.14	-1,675.86	3.48	7.35	-7.20	0.10	686,078.79	584,693.91
2,010.45	0.07	127.37	2,010.42	-1,582.58	3.48	7.46	-7.31	0.10	686,078.80	584,694.03
2,103.73	0.05	151.94	2,103.70	-1,489.30	3.41	7.53	-7.38	0.03	686,078.73	584,694.09
2,197.01	0.04	142.54	2,196.98	-1,396.02	3.35	7.57	-7.42	0.01	686,078.67	584,694.13
2,290.29	0.03	19.30	2,290.26	-1,302.74	3.35	7.59	-7.45	0.07	686,078.66	584,694.16
2,383.57	0.08	11.74	2,383.54	-1,209.46	3.44	7.61	-7.47	0.05	686,078.75	584,694.18
2,476.85	0.08	357.14	2,476.82	-1,116.18	3.57	7.62	-7.47	0.02	686,078.88	584,694.19
2,570.13	0.11	345.13	2,570.10	-1,022.90	3.72	7.60	-7.44	0.04	686,079.03	584,694.17
2,663.41	0.08	313.73	2,663.38	-929.62	3.85	7.53	-7.36	0.06	686,079.16	584,694.10
2,756.69	0.17	129.56	2,756.66	-836.34	3.81	7.59	-7.42	0.27	686,079.12	584,694.15
2,849.97	0.33	125.31	2,849.94	-743.06	3.56	7.91	-7.76	0.17	686,078.88	584,694.48
2,943.25	0.43	128.42	2,943.22	-649.78	3.19	8.41	-8.27	0.11	686,078.50	584,694.97
3,036.53	0.46	127.04	3,036.50	-556.50	2.75	8.98	-8.86	0.03	686,078.06	584,695.55
3,129.81	0.37	132.15	3,129.78	-463.22	2.32	9.50	-9.40	0.10	686,077.63	584,696.07
3,223.09	0.35	149.18	3,223.05	-369.95	1.87	9.87	-9.79	0.12	686,077.18	584,696.44
3,316.37	0.33	161.14	3,316.33	-276.67	1.37	10.10	-10.04	0.08	686,076.69	584,696.67
3,409.65	0.23	159.40	3,409.61	-183.39	0.94	10.26	-10.21	0.11	686,076.26	584,696.82
3,502.93	0.18	159.80	3,502.89	-90.11	0.63	10.37	-10.34	0.05	686,075.94	584,696.94
3,596.21	0.32	157.75	3,596.17	3.17	0.25	10.52	-10.50	0.15	686,075.57	584,697.09
3,689.49	0.22	145.46	3,689.45	96.45	-0.14	10.72	-10.72	0.12	686,075.18	584,697.29
3,782.77	0.12	156.13	3,782.73	189.73	-0.37	10.86	-10.87	0.11	686,074.94	584,697.43
3,876.05	0.11	195.46	3,876.01	283.01	-0.55	10.88	-10.89	0.08	686,074.76	584,697.45
3,969.33	0.11	180.43	3,969.29	376.29	-0.72	10.86	-10.88	0.03	686,074.59	584,697.42
4,062.61	0.11	185.20	4,062.57	469.57	-0.90	10.85	-10.87	0.01	686,074.41	584,697.41
4,155.89	0.12	197.85	4,155.85	562.85	-1.09	10.81	-10.84	0.03	686,074.23	584,697.38
4,249.17	0.16	232.65	4,249.13	656.13	-1.26	10.67	-10.72	0.10	686,074.06	584,697.24
4,342.45	0.20	239.73	4,342.41	749.41	-1.42	10.43	-10.48	0.05	686,073.89	584,697.00



Pathfinder
Pathfinder X & Y Planning Report



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Project:	Eddy County	TVD Reference:	WELL @ 3593.00ft (Original Well Elev)
Site:	Dickens "29" Federal	MD Reference:	WELL @ 3593.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Midland Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
4,435.73	0.19	246.55	4,435.69	842.69	-1.56	10.15	-10.20	0.03	686,073.75	584,696.72
4,529.01	0.19	253.13	4,528.97	935.97	-1.67	9.86	-9.92	0.02	686,073.64	584,696.43
4,622.29	0.22	264.25	4,622.25	1,029.25	-1.73	9.53	-9.60	0.05	686,073.58	584,696.10
4,715.57	0.21	271.56	4,715.52	1,122.52	-1.74	9.18	-9.25	0.03	686,073.57	584,695.75
4,808.85	0.12	247.77	4,808.80	1,215.80	-1.78	8.92	-8.99	0.12	686,073.54	584,695.49
4,902.13	0.11	249.34	4,902.08	1,309.08	-1.85	8.75	-8.82	0.01	686,073.47	584,695.31
4,995.41	0.12	282.87	4,995.36	1,402.36	-1.86	8.57	-8.64	0.07	686,073.46	584,695.14
5,088.69	0.05	162.27	5,088.64	1,495.64	-1.87	8.49	-8.56	0.16	686,073.44	584,695.05
5,181.97	0.19	102.47	5,181.92	1,588.92	-1.94	8.65	-8.72	0.18	686,073.37	584,695.22
5,275.25	0.27	104.65	5,275.20	1,682.20	-2.03	9.01	-9.09	0.09	686,073.28	584,695.58
5,368.53	0.34	110.65	5,368.48	1,775.48	-2.19	9.48	-9.57	0.08	686,073.13	584,696.05
5,461.81	0.58	109.38	5,461.76	1,868.76	-2.44	10.19	-10.28	0.26	686,072.87	584,696.76
5,555.09	0.62	114.03	5,555.03	1,962.03	-2.80	11.10	-11.20	0.07	686,072.51	584,697.66
5,648.37	0.67	115.06	5,648.31	2,055.31	-3.24	12.05	-12.17	0.06	686,072.07	584,698.62
5,710.58	0.68	128.88	5,710.51	2,117.51	-3.63	12.67	-12.81	0.26	686,071.69	584,699.23
Start 290.00 hold at 5710.58 MD										
5,800.00	0.68	128.88	5,799.93	2,206.93	-4.29	13.49	-13.66	0.00	686,071.02	584,700.06
5,900.00	0.68	128.88	5,899.92	2,306.92	-5.04	14.42	-14.61	0.00	686,070.28	584,700.98
6,000.58	0.68	128.88	6,000.49	2,407.49	-5.79	15.35	-15.57	0.00	686,069.53	584,701.91
Start DLS 9.67 TFO 174.62										
6,050.00	4.10	302.61	6,049.88	2,456.88	-5.02	14.08	-14.28	9.67	686,070.30	584,700.65
6,100.00	8.94	303.09	6,099.54	2,506.54	-1.93	9.32	-9.39	9.67	686,073.38	584,695.89
6,150.00	13.77	303.24	6,148.55	2,555.55	3.45	1.09	-0.94	9.67	686,078.77	584,687.65
6,200.00	18.61	303.31	6,196.55	2,603.55	11.10	-10.56	11.01	9.67	686,086.41	584,676.00
6,250.00	23.44	303.35	6,243.21	2,650.21	20.95	-25.55	26.39	9.67	686,096.27	584,661.02
6,300.00	28.27	303.38	6,288.19	2,695.19	32.95	-43.75	45.07	9.67	686,108.26	584,642.81
6,350.00	33.11	303.40	6,331.17	2,738.17	46.99	-65.05	66.93	9.67	686,122.30	584,621.51



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6,400.00	37.94	303.42	6,371.85	2,778.85	62.98	-89.30	91.81	9.67	686,138.29	584,597.27
6,450.00	42.78	303.43	6,409.94	2,816.94	80.81	-116.32	119.54	9.67	686,156.12	584,570.25
6,500.00	47.61	303.44	6,445.16	2,852.16	100.35	-145.91	149.91	9.67	686,175.67	584,540.65
6,550.00	52.45	303.45	6,477.27	2,884.27	121.47	-177.88	182.72	9.67	686,196.78	584,508.69
6,600.00	57.28	303.46	6,506.04	2,913.04	144.00	-211.98	217.72	9.67	686,219.31	584,474.58
6,650.00	62.12	303.47	6,531.26	2,938.26	167.80	-247.99	254.67	9.67	686,243.11	584,438.58
6,693.07	66.28	303.47	6,550.00	2,957.00	189.18	-280.33	287.87	9.67	686,264.49	584,406.24
Formation Top at 6550'TVD										
6,700.00	66.95	303.47	6,552.75	2,959.75	192.68	-285.63	293.31	9.67	686,268.00	584,400.93
6,750.00	71.79	303.48	6,570.36	2,977.36	218.49	-324.65	333.36	9.67	686,293.80	584,361.91
6,800.00	76.62	303.48	6,583.97	2,990.97	245.02	-364.77	374.53	9.67	686,320.33	584,321.80
6,850.00	81.46	303.49	6,593.47	3,000.47	272.10	-405.70	416.53	9.67	686,347.41	584,280.87
6,900.00	86.29	303.50	6,598.81	3,005.81	299.52	-447.15	459.07	9.67	686,374.84	584,239.42
6,945.91	90.73	303.50	6,600.00	3,007.00	324.85	-485.41	498.35	9.67	686,400.16	584,201.16
Start DLS 2.50 TFO -89.66										
7,000.00	90.74	302.15	6,599.31	3,006.31	354.16	-530.86	544.96	2.50	686,429.48	584,155.71
7,100.00	90.75	299.65	6,598.01	3,005.01	405.50	-616.65	632.79	2.50	686,480.82	584,069.92
7,200.00	90.76	297.15	6,596.69	3,003.69	453.05	-704.60	722.62	2.50	686,528.37	583,981.96
7,300.00	90.77	294.65	6,595.34	3,002.34	496.72	-794.55	814.28	2.50	686,572.04	583,892.02
7,400.00	90.78	292.15	6,593.98	3,000.98	536.43	-886.31	907.60	2.50	686,611.74	583,800.26
7,500.00	90.79	289.65	6,592.61	2,999.61	572.09	-979.71	1,002.39	2.50	686,647.40	583,706.85
7,600.00	90.80	287.15	6,591.23	2,998.23	603.64	-1,074.59	1,098.48	2.50	686,678.96	583,611.98
7,700.00	90.80	284.65	6,589.83	2,996.83	631.03	-1,170.75	1,195.68	2.50	686,706.34	583,515.82
7,800.00	90.80	282.15	6,588.43	2,995.43	654.19	-1,268.01	1,293.81	2.50	686,729.51	583,418.56
7,900.00	90.81	279.65	6,587.02	2,994.02	673.09	-1,366.19	1,392.69	2.50	686,748.40	583,320.38
8,000.00	90.81	277.15	6,585.62	2,992.62	687.69	-1,465.10	1,492.11	2.50	686,763.00	583,221.47
8,100.00	90.80	274.65	6,584.21	2,991.21	697.96	-1,564.55	1,591.91	2.50	686,773.27	583,122.02



Pathfinder
Pathfinder X & Y Planning Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	WELL @ 3593.00ft (Original Well Elev)
Site:	Dickens "29" Federal	MD Reference:	WELL @ 3593.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,200.00	90.80	272.15	6,582.81	2,989.81	703.88	-1,664.36	1,691.87	2.50	686,779.19	583,022.21
8,300.00	90.80	269.64	6,581.41	2,988.41	705.44	-1,764.33	1,791.82	2.50	686,780.75	582,922.24
8,400.00	90.79	267.14	6,580.03	2,987.03	702.64	-1,864.27	1,891.57	2.50	686,777.95	582,822.30
8,500.00	90.78	264.64	6,578.65	2,985.65	695.48	-1,964.00	1,990.91	2.50	686,770.80	582,722.57
8,600.00	90.77	262.14	6,577.29	2,984.29	683.98	-2,063.32	2,089.68	2.50	686,759.29	582,623.25
8,700.00	90.76	259.64	6,575.95	2,982.95	668.16	-2,162.04	2,187.67	2.50	686,743.47	582,524.53
8,800.00	90.75	257.14	6,574.63	2,981.63	648.04	-2,259.98	2,284.70	2.50	686,723.36	582,426.59
8,871.46	90.74	255.36	6,573.70	2,980.70	631.06	-2,329.38	2,353.34	2.50	686,706.37	582,357.19
Start 1829.67 hold at 8871.46 MD										
8,900.00	90.74	255.36	6,573.33	2,980.33	623.85	-2,356.99	2,380.63	0.00	686,699.16	582,329.57
9,000.00	90.74	255.36	6,572.03	2,979.03	598.57	-2,453.74	2,476.26	0.00	686,673.88	582,232.83
9,100.00	90.74	255.36	6,570.74	2,977.74	573.29	-2,550.48	2,571.88	0.00	686,648.60	582,136.09
9,200.00	90.74	255.36	6,569.44	2,976.44	548.01	-2,647.22	2,667.50	0.00	686,623.33	582,039.34
9,300.00	90.74	255.36	6,568.15	2,975.15	522.74	-2,743.97	2,763.13	0.00	686,598.05	581,942.60
9,400.00	90.74	255.36	6,566.85	2,973.85	497.46	-2,840.71	2,858.75	0.00	686,572.77	581,845.85
9,500.00	90.74	255.36	6,565.56	2,972.56	472.18	-2,937.46	2,954.38	0.00	686,547.50	581,749.11
9,600.00	90.74	255.36	6,564.26	2,971.26	446.91	-3,034.20	3,050.00	0.00	686,522.22	581,652.37
9,700.00	90.74	255.36	6,562.97	2,969.97	421.63	-3,130.94	3,145.62	0.00	686,496.94	581,555.62
9,800.00	90.74	255.36	6,561.67	2,968.67	396.35	-3,227.69	3,241.25	0.00	686,471.66	581,458.88
9,900.00	90.74	255.36	6,560.38	2,967.38	371.07	-3,324.43	3,336.87	0.00	686,446.39	581,362.13
10,000.00	90.74	255.36	6,559.08	2,966.08	345.80	-3,421.18	3,432.49	0.00	686,421.11	581,265.39
10,100.00	90.74	255.36	6,557.79	2,964.79	320.52	-3,517.92	3,528.12	0.00	686,395.83	581,168.65
10,200.00	90.74	255.36	6,556.49	2,963.49	295.24	-3,614.66	3,623.74	0.00	686,370.56	581,071.90
10,300.00	90.74	255.36	6,555.20	2,962.20	269.97	-3,711.41	3,719.37	0.00	686,345.28	580,975.16
10,400.00	90.74	255.36	6,553.90	2,960.90	244.69	-3,808.15	3,814.99	0.00	686,320.00	580,878.42
10,500.00	90.74	255.36	6,552.61	2,959.61	219.41	-3,904.90	3,910.61	0.00	686,294.72	580,781.67
10,600.00	90.74	255.36	6,551.31	2,958.31	194.13	-4,001.64	4,006.24	0.00	686,269.45	580,684.93



Pathfinder
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Site:	Dickens "29" Federal	MD Reference:	WELL @ 3593.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Midland Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,701.13	90.74	255.36	6,550.00	2,957.00	168.57	-4,099.48	4,102.94	0.00	686,243.88	580,587.09
TD at 10701.13 - PBHL(Dickens29)										

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL(Dickens29)	0.00	0.00	6,550.00	168.57	-4,099.48	686,243.883	580,587.088	32° 53' 11.177 N	104° 12' 19.697 W
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,090.02	1,090.00	Queen		0.00		
1,866.03	1,866.00	San Andres		0.00		
3,300.04	3,300.00	Glorieta		0.00		
6,719.26	6,560.00	Wolfcamp Pay		0.00		
5,345.05	5,345.00	Abo		0.00		
6,325.06	6,310.00	Wolfcamp MKR		0.00		



Pathfinder
Pathfinder X & Y Planning Report



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Site:	Dickens "29" Federal	MD Reference:	WELL @ 3593.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Midland Database

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,710.58	5,710.51	-3.63	12.67	Start 290.00 hold at 5710.58 MD
6,000.58	6,000.49	-5.79	15.35	Start DLS 9.67 TFO 174.62
6,693.07	6,550.00	189.18	-280.33	Formation Top at 6550'TVD
6,945.91	6,600.00	324.85	-485.41	Start DLS 2.50 TFO -89.66
8,871.46	6,573.70	631.06	-2,329.38	Start 1829.67 hold at 8871.46 MD
10,701.13	6,550.00	168.57	-4,099.48	TD at 10701.13

Checked By: _____	Approved By: _____	Date: _____
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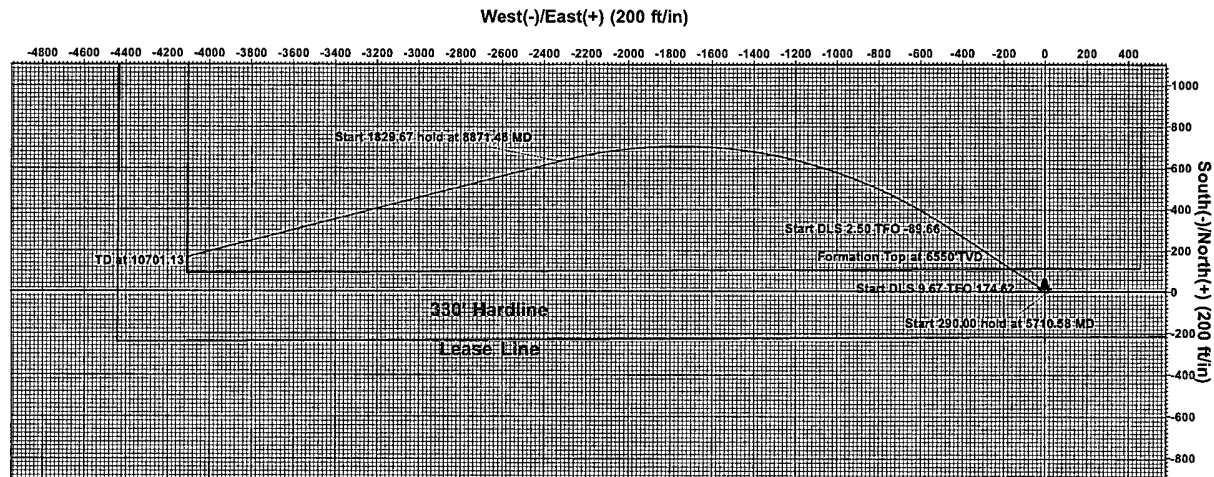
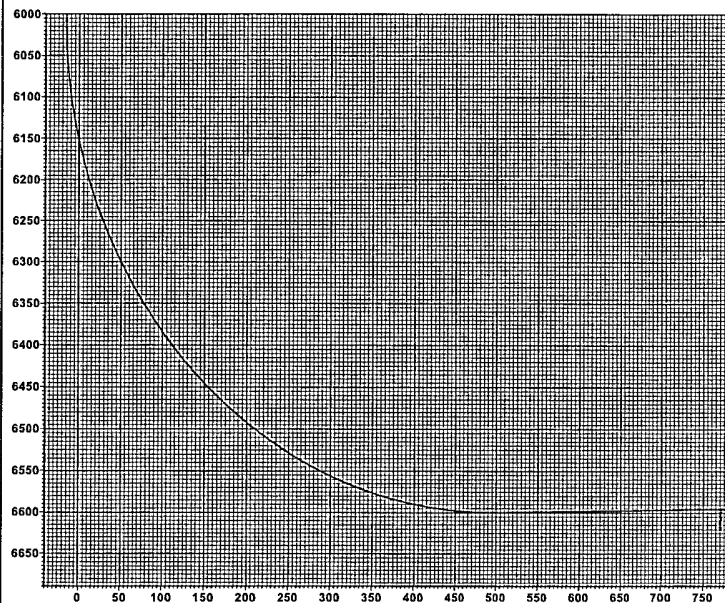


Project: Eddy County
Site: Dickens "29" Federal
Well: #1H
Wellbore: OH
Plan: Plan #4 (#1H/OH)



Azimuths to Grid North
True North: -0.08°
Magnetic North: 7.98°

Magnetic Field
Strength: 49121.8snT
Dip Angle: 60.74°
Date: 04/07/2010
Model: IGRF200510



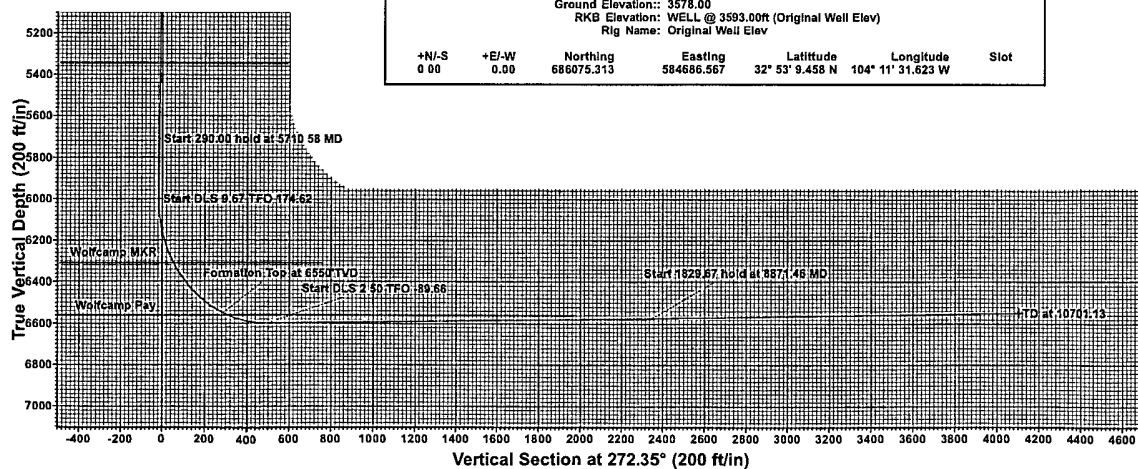
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	5710.58	0.68	128.88	5710.51	-3.63	12.67	0.00	0.00	-12.81	
2	6000.58	0.68	128.88	6000.49	-5.79	15.35	0.00	0.00	-15.57	
3	6945.91	90.73	303.50	6000.00	324.85	-485.41	9.67	174.62	498.35	
4	8871.46	90.74	255.36	6573.70	631.06	-2329.38	2.50	-89.66	2353.34	
5	10701.13	90.74	255.36	6550.00	168.57	-4099.48	0.00	0.00	4102.94	PBHL(Dickens29)

WELL DETAILS: #1H

Ground Elevation:: 3578.00
RKB Elevation: WELL @ 3593.00ft (Original Well Elev)
Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	686075.313	584686.567	32° 53' 9.458 N	104° 11' 31.623 W	

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(Dickens29)	6550.00	168.57	-4099.48	686243.883	580587.088	Point

Plan: Plan #4 (#1H/OH)

Created By: Nate Bingham Date: 16 Apr, May 15 2010

Checked: _____ Date: _____