

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

03/10/2022

Well Name: PICARD FEDERAL	Well Location: T17S / R31E / SEC 6 / SWSW / 32.8582029 / -103.9158216	County or Parish/State: EDDY / NM
Well Number: 1H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0029435B, NMLC029435B	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546452	Well Status: Approved Application for Permit to Drill	Operator: MR NM OPERATING LLC

Notice of Intent**Sundry ID:** 2657367**Type of Submission:** Notice of Intent**Type of Action:** Other**Date Sundry Submitted:** 02/16/2022**Time Sundry Submitted:** 10:26**Date proposed operation will begin:** 02/25/2022

Procedure Description: Request to move the Surface Hole Location from 711' FSL & 296' FWL, Section 6, T-17-S, R-31-E, Lot 7 to 906' FSL & 297' FWL, Section 6, T-17-S, R-31-E, Lot 7. Please see attached directional plan, anticollision report and plat for additional information

Surface Disturbance**Is any additional surface disturbance proposed?:** No**NOI Attachments****Procedure Description**

Picard_1H_SHL_Sundry_Attachment_20220216102338.pdf

Well Name: PICARD FEDERAL**Well Location:** T17S / R31E / SEC 6 /
SWSW / 32.8582029 / -103.9158216**County or Parish/State:** EDDY /
NM**Well Number:** 1H**Type of Well:** OIL WELL**Allottee or Tribe Name:****Lease Number:** NMLC0029435B,
NMLC029435B**Unit or CA Name:****Unit or CA Number:****US Well Number:** 3001546452**Well Status:** Approved Application for
Permit to Drill**Operator:** MR NM OPERATING
LLC**Operator Certification**

I certify that the foregoing is true and correct. 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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

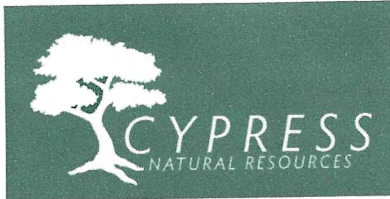
Operator Electronic Signature: BRIAN WOOD**Signed on:** FEB 16, 2022 10:23 AM**Name:** MR NM OPERATING LLC**Title:** President**Street Address:** 37 VERANO LOOP**City:** SANTA FE**State:** NM**Phone:** (505) 466-8120**Email address:** AFMSS@PERMITSWEST.COM**Field Representative****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:****BLM Point of Contact****BLM POC Name:** Cody Layton**BLM POC Phone:** 5752345959**Disposition:** Approved**Signature:** BLM_NM_CFO_GIS**BLM POC Title:** Assistant Field Manager Lands & Minerals**BLM POC Email Address:** clayton@blm.gov**Disposition Date:** 02/28/2022

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

District Office

AMENDED REPORT

Released to Imaging: 3/24/2022 8:13:35 AM S:\SURVEY\CYPRESS_NATURAL_RESOURCES_LL\PICARD_FEDERAL\FINAL_PRODUCTS\LO_PICARD_FEDERAL_1H.DWG 2/7/2022 11:28:32 AM kenneth.stallings



30-015.46452

CYPRESS NATURAL RESOURCES

EDDY CO., NM (NAD-83 / EAST-ZONE)

PICARD PAD

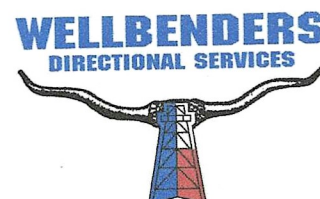
PICARD #1H

Wellbore #1

PLAN #1

Anticollision Report

04 February, 2022





Anticollision Report



Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Reference Site: PICARD PAD
Site Error: 0.00 usft
Reference Well: PICARD #1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WBDS_SQL_2
Offset TVD Reference: Reference Datum

Reference PLAN #1

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method: MD Interval 50.00usft
Depth Range: Unlimited
Results Limited by: Maximum separation factor of 20.00
Warning Levels Evaluated at: 2.00 Sigma

Error Model: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Pedal Curve
Casing Method: Not applied

Survey Tool Program Date 2/4/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	9,959.62	PLAN #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
PICARD OFFSETS						
OFFSET: JACKSON B #53 - Wellbore #1 - Wellbore #1	9,189.67	4,766.73	127.77	58.55	1.846	CC, ES, SF
PICARD PAD						
PICARD #2H - Wellbore #1 - PLAN #1	600.00	601.00	50.00	46.11	12.867	CC, ES
PICARD #2H - Wellbore #1 - PLAN #1	9,960.22	10,022.46	876.05	669.42	4.240	SF

Offset Design PICARD OFFSETS - OFFSET: JACKSON B #53 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 894-MWD+IGRF													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,550.00	4,764.23	4,819.26	4,812.20	47.92	14.76	-111.204	-535.13	-4,700.84	650.25	616.79	33.46	19.433		
8,600.00	4,764.07	4,815.00	4,807.96	48.45	14.74	-109.559	-535.04	-4,701.17	601.48	567.68	33.80	17.796		
8,650.00	4,763.91	4,810.77	4,803.74	48.98	14.73	-107.888	-534.95	-4,701.51	552.88	518.65	34.23	16.152		
8,700.00	4,763.76	4,806.57	4,799.55	49.51	14.71	-106.193	-534.86	-4,701.84	504.53	469.74	34.79	14.502		
8,750.00	4,763.60	4,802.39	4,795.39	50.04	14.69	-104.476	-534.77	-4,702.17	456.50	420.96	35.53	12.847		
8,800.00	4,763.44	4,798.24	4,791.25	50.57	14.68	-102.741	-534.69	-4,702.50	408.89	372.36	36.53	11.194		
8,850.00	4,763.29	4,794.11	4,787.14	51.10	14.66	-100.990	-534.60	-4,702.82	361.89	324.00	37.89	9.551		
8,900.00	4,763.13	4,790.01	4,783.05	51.64	14.65	-99.226	-534.52	-4,703.14	315.75	275.97	39.78	7.937		
8,950.00	4,762.97	4,785.93	4,778.98	52.17	14.63	-97.453	-534.44	-4,703.46	270.93	228.47	42.46	6.381		
9,000.00	4,762.81	4,781.88	4,774.94	52.70	14.62	-95.673	-534.36	-4,703.77	228.19	181.91	46.29	4.930		
9,050.00	4,762.66	4,777.85	4,770.93	53.24	14.60	-93.892	-534.28	-4,704.08	188.97	137.26	51.71	3.655		
9,100.00	4,762.50	4,773.84	4,766.93	53.77	14.59	-92.111	-534.21	-4,704.39	155.93	97.08	58.86	2.649		
9,150.00	4,762.34	4,769.88	4,762.98	54.31	14.57	-90.341	-534.13	-4,704.70	133.75	67.55	66.20	2.020		
9,189.67	4,762.22	4,766.73	4,759.84	54.74	14.56	-88.935	-534.07	-4,704.94	127.77	58.55	69.22	1.846	CC, ES, SF	
9,200.00	4,762.19	4,765.91	4,759.03	54.85	14.56	-88.569	-534.06	-4,705.00	128.18	58.89	69.29	1.850		
9,250.00	4,762.03	4,761.97	4,755.10	55.38	14.54	-86.807	-533.98	-4,705.30	141.21	75.45	65.76	2.147		
9,300.00	4,761.87	4,758.04	4,751.18	55.92	14.53	-85.056	-533.91	-4,705.60	168.58	109.26	59.32	2.842		
9,350.00	4,761.72	4,754.13	4,747.28	56.46	14.51	-83.321	-533.84	-4,705.90	204.62	151.20	53.42	3.831		
9,400.00	4,761.56	4,750.24	4,743.40	57.00	14.50	-81.604	-533.77	-4,706.19	245.53	196.62	48.91	5.020		
9,450.00	4,761.40	4,746.37	4,739.54	57.54	14.48	-79.908	-533.70	-4,706.49	289.26	243.65	45.61	6.342		
9,500.00	4,761.24	4,742.51	4,735.70	58.08	14.47	-78.236	-533.64	-4,706.78	334.71	291.52	43.19	7.750		
9,550.00	4,761.09	4,738.68	4,731.88	58.62	14.45	-76.590	-533.57	-4,707.06	381.25	339.86	41.39	9.211		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Reference Site: PICARD PAD
Site Error: 0.00 usft
Reference Well: PICARD #1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WBDS_SQL_2
Offset TVD Reference: Reference Datum

Offset Design													PICARD OFFSETS - OFFSET: JACKSON B #53 - Wellbore #1 - Wellbore #1		Offset Site Error:	0.00 usft
Survey Program: 894-MWD+IGRF															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis						Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
9,600.00	4,760.93	4,734.86	4,728.07	59.16	14.44	-74.972	-533.50	-4,707.35	428.55	388.52	40.02	10.707				
9,650.00	4,760.77	4,731.06	4,724.28	59.70	14.42	-73.384	-533.44	-4,707.64	476.36	437.39	38.97	12.225				
9,700.00	4,760.62	4,727.27	4,720.51	60.24	14.41	-71.827	-533.38	-4,707.92	524.55	486.42	38.14	13.755				
9,750.00	4,760.46	4,723.51	4,716.75	60.78	14.40	-70.303	-533.31	-4,708.20	573.03	535.56	37.47	15.293				
9,800.00	4,760.30	4,719.76	4,713.01	61.33	14.38	-68.813	-533.25	-4,708.48	621.72	584.79	36.93	16.835				
9,850.00	4,760.14	4,716.03	4,709.29	61.87	14.37	-67.357	-533.19	-4,708.75	670.59	634.10	36.49	18.378				
9,900.00	4,759.99	4,712.31	4,705.59	62.41	14.35	-65.937	-533.13	-4,709.03	719.59	683.47	36.12	19.922				



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Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WBDS_SQL_2
Offset TVD Reference: Reference Datum

Offset Design PICARD PAD - PICARD #2H - Wellbore #1 - PLAN #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
450.00	450.00	451.00	450.00	1.41	1.41	0.000	50.00	0.00	50.00	47.19	2.81	17.791		
500.00	500.00	501.00	500.00	1.58	1.58	0.000	50.00	0.00	50.00	46.83	3.17	15.778		
550.00	550.00	551.00	550.00	1.76	1.76	0.000	50.00	0.00	50.00	46.47	3.53	14.175		
600.00	600.00	601.00	600.00	1.94	1.94	0.000	50.00	0.00	50.00	46.11	3.89	12.867 CC, ES		
650.00	650.00	651.00	650.00	2.11	2.12	-179.995	50.00	0.00	50.44	46.20	4.24	11.907		
700.00	699.98	700.98	699.98	2.28	2.30	-179.995	50.00	0.00	51.75	47.16	4.59	11.283		
750.00	749.93	750.93	749.93	2.45	2.48	-179.996	50.00	0.00	53.93	48.99	4.93	10.934		
800.00	799.84	800.84	799.84	2.62	2.66	-179.996	50.00	0.00	56.98	51.70	5.28	10.796		
850.00	849.68	850.68	849.68	2.79	2.84	-179.996	50.00	0.00	60.90	55.27	5.63	10.824		
900.00	899.45	900.45	899.45	2.96	3.02	-179.996	50.00	0.00	65.69	59.72	5.97	10.995		
950.00	949.16	950.16	949.16	3.13	3.19	-179.997	50.00	0.00	71.08	64.76	6.33	11.237		
1,000.00	998.87	1,000.13	998.87	3.30	3.37	-179.997	50.00	0.00	76.49	69.82	6.67	11.461		
1,050.00	1,048.57	1,049.57	1,048.57	3.47	3.55	-179.997	50.00	0.00	81.90	74.88	7.02	11.663		
1,100.00	1,098.28	1,100.72	1,098.28	3.64	3.73	-179.997	50.00	0.00	87.31	79.94	7.38	11.836		
1,150.00	1,147.99	1,148.99	1,147.99	3.82	3.91	-179.997	50.00	0.00	92.72	85.00	7.72	12.008		
1,200.00	1,197.69	1,201.31	1,197.69	4.00	4.09	-179.998	50.00	0.00	98.13	90.05	8.08	12.142		
1,250.00	1,247.40	1,248.40	1,247.40	4.18	4.26	-179.998	50.00	0.00	103.54	95.12	8.42	12.291		
1,300.00	1,297.11	1,301.89	1,297.11	4.35	4.46	-179.998	50.00	0.00	108.95	100.16	8.79	12.396		
1,350.00	1,346.81	1,347.81	1,346.81	4.53	4.62	-179.998	50.00	0.00	114.36	105.23	9.13	12.528		
1,400.00	1,396.52	1,402.48	1,396.52	4.71	4.82	-179.998	50.00	0.00	119.77	110.27	9.50	12.610		
1,450.00	1,446.23	1,447.23	1,446.23	4.89	4.98	-179.998	50.00	0.00	125.18	115.34	9.83	12.730		
1,500.00	1,495.93	1,503.07	1,495.93	5.07	5.18	-179.998	50.00	0.00	130.59	120.38	10.21	12.792		
1,550.00	1,545.64	1,546.64	1,545.64	5.25	5.33	-179.998	50.00	0.00	136.00	125.46	10.54	12.902		
1,600.00	1,595.35	1,603.65	1,595.35	5.43	5.54	-179.998	50.00	0.00	141.41	130.49	10.92	12.949		
1,650.00	1,645.05	1,646.05	1,645.05	5.61	5.69	-179.998	50.00	0.00	146.82	135.57	11.25	13.052		
1,700.00	1,694.76	1,704.24	1,694.76	5.80	5.90	-179.998	50.00	0.00	152.23	140.59	11.63	13.086		
1,750.00	1,744.46	1,745.46	1,744.46	5.98	6.05	-179.998	50.00	0.00	157.63	145.68	11.96	13.184		
1,800.00	1,794.17	1,804.83	1,794.17	6.16	6.26	-179.999	50.00	0.00	163.04	150.70	12.35	13.206		
1,850.00	1,843.88	1,844.88	1,843.88	6.34	6.40	-179.999	50.00	0.00	168.45	155.79	12.67	13.300		
1,900.00	1,893.58	1,905.42	1,893.58	6.52	6.62	-179.999	50.00	0.00	173.86	160.80	13.06	13.313		
1,950.00	1,943.29	1,944.29	1,943.29	6.71	6.76	-179.999	50.00	0.00	179.27	165.90	13.38	13.403		
2,000.00	1,993.00	2,006.00	1,993.00	6.89	6.98	-179.999	50.00	0.00	184.68	170.91	13.77	13.408		
2,050.00	2,042.70	2,043.70	2,042.70	7.07	7.11	-179.999	50.00	0.00	190.09	176.00	14.09	13.495		
2,100.00	2,092.41	2,106.59	2,092.41	7.25	7.34	-179.999	50.00	0.00	195.50	181.01	14.49	13.493		
2,150.00	2,142.12	2,143.12	2,142.12	7.44	7.47	-179.999	50.00	0.00	200.91	186.11	14.80	13.578		
2,200.00	2,191.82	2,207.18	2,191.82	7.62	7.70	-179.999	50.00	0.00	206.32	191.12	15.20	13.570		
2,250.00	2,241.53	2,242.53	2,241.53	7.80	7.83	-179.999	50.00	0.00	211.73	196.22	15.51	13.653		
2,300.00	2,291.24	2,307.76	2,291.24	7.98	8.06	-179.999	50.00	0.00	217.14	201.22	15.92	13.640		
2,350.00	2,340.94	2,341.94	2,340.94	8.17	8.18	-179.999	50.00	0.00	222.55	206.33	16.22	13.721		
2,400.00	2,390.65	2,408.35	2,390.65	8.35	8.42	-179.999	50.00	0.00	227.96	211.32	16.64	13.703		
2,450.00	2,440.36	2,441.36	2,440.36	8.53	8.54	-179.999	50.00	0.00	233.37	216.44	16.93	13.783		
2,500.00	2,490.06	2,508.94	2,490.06	8.72	8.78	-179.999	50.00	0.00	238.78	221.42	17.35	13.761		
2,550.00	2,539.77	2,540.77	2,539.77	8.90	8.90	-179.999	50.00	0.00	244.19	226.54	17.64	13.840		
2,600.00	2,589.48	2,609.52	2,589.48	9.09	9.14	-179.999	50.00	0.00	249.59	231.53	18.07	13.815		
2,650.00	2,639.18	2,640.18	2,639.18	9.27	9.25	-179.999	50.00	0.00	255.00	236.65	18.36	13.893		
2,700.00	2,688.89	2,689.89	2,688.89	9.45	9.43	-179.999	50.00	0.00	260.41	241.70	18.71	13.917		
2,750.00	2,738.60	2,739.60	2,738.60	9.64	9.61	-179.999	50.00	0.00	265.82	246.76	19.07	13.941		
2,800.00	2,788.30	2,789.30	2,788.30	9.82	9.79	-179.999	50.00	0.00	271.23	251.81	19.42	13.964		
2,850.00	2,838.01	2,839.01	2,838.01	10.00	9.97	-179.999	50.00	0.00	276.64	256.86	19.78	13.986		
2,900.00	2,887.71	2,888.71	2,887.71	10.19	10.14	-179.999	50.00	0.00	282.05	261.92	20.14	14.007		
2,950.00	2,937.42	2,938.42	2,937.42	10.37	10.32	-179.999	50.00	0.00	287.46	266.97	20.49	14.028		
3,000.00	2,987.13	2,988.13	2,987.13	10.56	10.50	-179.999	50.00	0.00	292.87	272.02	20.85	14.047		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Reference Site: PICARD PAD
Site Error: 0.00 usft
Reference Well: PICARD #1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WBDS_SQL_2
Offset TVD Reference: Reference Datum

Offset Design PICARD PAD - PICARD #2H - Wellbore #1 - PLAN #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
3,050.00	3,036.83	3,037.83	3,036.83	10.74	10.68	-179.999	50.00	0.00	298.28	277.07	21.21	14.066		
3,100.00	3,086.54	3,087.54	3,086.54	10.92	10.86	-179.999	50.00	0.00	303.69	282.13	21.56	14.085		
3,150.00	3,136.25	3,137.25	3,136.25	11.11	11.03	-179.999	50.00	0.00	309.10	287.18	21.92	14.102		
3,200.00	3,186.95	3,186.95	3,186.95	11.29	11.21	-179.999	50.00	0.00	314.51	292.23	22.27	14.119		
3,250.00	3,235.66	3,236.66	3,235.66	11.48	11.39	-179.999	50.00	0.00	319.92	297.29	22.63	14.136		
3,300.00	3,285.37	3,286.37	3,285.37	11.66	11.57	-179.999	50.00	0.00	325.33	302.34	22.99	14.152		
3,350.00	3,335.07	3,336.07	3,335.07	11.84	11.75	-179.999	50.00	0.00	330.74	307.39	23.34	14.168		
3,400.00	3,384.78	3,385.78	3,384.78	12.03	11.93	-179.999	50.00	0.00	336.15	312.44	23.70	14.183		
3,450.00	3,434.49	3,435.49	3,434.49	12.21	12.10	-179.999	50.00	0.00	341.56	317.50	24.06	14.197		
3,500.00	3,484.19	3,485.19	3,484.19	12.40	12.28	-179.999	50.00	0.00	346.96	322.55	24.41	14.212		
3,550.00	3,533.90	3,534.90	3,533.90	12.58	12.46	-179.999	50.00	0.00	352.37	327.60	24.77	14.225		
3,600.00	3,583.61	3,584.61	3,583.61	12.77	12.64	-179.999	50.00	0.00	357.78	332.66	25.13	14.239		
3,650.00	3,633.31	3,634.31	3,633.31	12.95	12.82	-179.999	50.00	0.00	363.19	337.71	25.48	14.252		
3,700.00	3,683.02	3,684.02	3,683.02	13.13	12.99	-179.999	50.00	0.00	368.60	342.76	25.84	14.264		
3,750.00	3,732.73	3,722.63	3,721.63	13.32	13.13	179.993	50.34	-0.05	374.51	348.39	26.12	14.338		
3,800.00	3,782.43	3,755.64	3,754.58	13.50	13.25	179.953	52.03	-0.31	382.46	356.14	26.32	14.529		
3,850.00	3,832.14	3,788.12	3,786.92	13.69	13.37	179.883	55.08	-0.78	392.52	366.04	26.48	14.821		
3,900.00	3,881.85	3,819.98	3,818.48	13.87	13.48	179.788	59.41	-1.45	404.64	378.04	26.60	15.211		
3,950.00	3,931.55	3,850.00	3,848.01	14.06	13.59	179.676	64.69	-2.26	418.76	392.10	26.66	15.708		
4,000.00	3,981.26	3,881.48	3,878.73	14.24	13.70	179.537	71.46	-3.31	434.80	408.08	26.72	16.274		
4,050.00	4,030.96	3,910.97	3,907.23	14.43	13.80	179.391	78.95	-4.46	452.69	425.97	26.72	16.942		
4,100.00	4,080.67	3,939.55	3,934.54	14.61	13.91	179.237	87.26	-5.74	472.35	445.66	26.69	17.697		
4,150.00	4,130.35	3,967.24	3,960.69	14.79	14.01	142.615	96.28	-7.13	493.57	466.94	26.63	18.532		
4,200.00	4,179.77	4,000.00	3,991.16	14.98	14.13	118.916	108.16	-8.97	516.08	489.39	26.69	19.339		
5,300.00	4,774.44	5,362.25	4,773.88	18.74	26.90	89.963	472.66	-816.09	875.59	831.11	44.48	19.686		
5,350.00	4,774.28	5,412.25	4,773.83	19.00	27.84	89.970	472.62	-866.09	875.60	829.87	45.73	19.148		
5,400.00	4,774.12	5,462.25	4,773.78	19.26	28.83	89.977	472.58	-916.09	875.60	828.58	47.02	18.622		
5,450.00	4,773.97	5,512.25	4,773.72	19.55	29.83	89.984	472.54	-966.09	875.60	827.25	48.35	18.110		
5,500.00	4,773.81	5,562.25	4,773.67	19.83	30.87	89.991	472.50	-1,016.09	875.61	825.90	49.71	17.613		
5,550.00	4,773.65	5,612.25	4,773.62	20.14	31.92	89.998	472.46	-1,066.09	875.61	824.51	51.11	17.133		
5,600.00	4,773.50	5,662.25	4,773.57	20.45	33.00	90.005	472.42	-1,116.09	875.62	823.09	52.53	16.669		
5,650.00	4,773.34	5,712.25	4,773.51	20.78	34.09	90.011	472.38	-1,166.09	875.62	821.64	53.98	16.221		
5,700.00	4,773.18	5,762.25	4,773.46	21.10	35.20	90.018	472.34	-1,216.09	875.63	820.17	55.45	15.791		
5,750.00	4,773.02	5,812.25	4,773.41	21.45	36.32	90.025	472.30	-1,266.09	875.63	818.68	56.95	15.376		
5,800.00	4,772.87	5,862.25	4,773.36	21.80	37.46	90.032	472.26	-1,316.09	875.63	817.17	58.47	14.977		
5,850.00	4,772.71	5,912.25	4,773.30	22.17	38.61	90.039	472.23	-1,366.09	875.64	815.64	60.00	14.593		
5,900.00	4,772.55	5,962.25	4,773.25	22.53	39.77	90.046	472.19	-1,416.09	875.64	814.09	61.56	14.225		
5,950.00	4,772.40	6,012.25	4,773.20	22.92	40.94	90.053	472.15	-1,466.09	875.65	812.52	63.13	13.871		
6,000.00	4,772.24	6,062.25	4,773.15	23.30	42.12	90.059	472.11	-1,516.09	875.65	810.94	64.71	13.531		
6,050.00	4,772.08	6,112.25	4,773.10	23.69	43.30	90.066	472.07	-1,566.09	875.66	809.34	66.32	13.204		
6,100.00	4,771.93	6,162.25	4,773.04	24.09	44.50	90.073	472.03	-1,616.09	875.66	807.73	67.93	12.891		
6,150.00	4,771.77	6,212.25	4,772.99	24.50	45.70	90.080	471.99	-1,666.09	875.67	806.11	69.56	12.589		
6,200.00	4,771.61	6,262.25	4,772.94	24.91	46.91	90.087	471.95	-1,716.09	875.67	804.48	71.19	12.300		
6,250.00	4,771.45	6,312.25	4,772.89	25.33	48.13	90.094	471.91	-1,766.09	875.68	802.83	72.85	12.021		
6,300.00	4,771.30	6,362.25	4,772.83	25.75	49.35	90.101	471.87	-1,816.09	875.68	801.17	74.51	11.753		
6,350.00	4,771.14	6,412.25	4,772.78	26.18	50.58	90.107	471.83	-1,866.09	875.68	799.51	76.18	11.495		
6,400.00	4,770.98	6,462.25	4,772.73	26.61	51.81	90.114	471.79	-1,916.09	875.69	797.83	77.86	11.248		
6,450.00	4,770.83	6,512.25	4,772.68	27.05	53.04	90.121	471.75	-1,966.09	875.69	796.15	79.55	11.009		
6,500.00	4,770.67	6,562.25	4,772.62	27.50	54.28	90.128	471.72	-2,016.09	875.70	794.46	81.24	10.779		
6,550.00	4,770.51	6,612.25	4,772.57	27.95	55.53	90.135	471.68	-2,066.09	875.70	792.76	82.95	10.558		
6,600.00	4,770.35	6,662.25	4,772.52	28.40	56.77	90.142	471.64	-2,116.09	875.71	791.05	84.66	10.344		
6,650.00	4,770.20	6,712.25	4,772.47	28.85	58.02	90.148	471.60	-2,166.09	875.71	789.34	86.38	10.138		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Reference Site: PICARD PAD
Site Error: 0.00 usft
Reference Well: PICARD #1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WBDS_SQL_2
Offset TVD Reference: Reference Datum

Offset Design PICARD PAD - PICARD #2H - Wellbore #1 - PLAN #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6,700.00	4,770.04	6,762.25	4,772.41	29.31	59.28	90.155	471.56	-2,216.09	875.72	787.62	88.10	9.940		
6,750.00	4,769.88	6,812.25	4,772.36	29.78	60.53	90.162	471.52	-2,266.09	875.72	785.89	89.83	9.749		
6,800.00	4,769.73	6,862.25	4,772.31	30.24	61.80	90.169	471.48	-2,316.09	875.73	784.16	91.57	9.564		
6,850.00	4,769.57	6,912.25	4,772.26	30.71	63.06	90.176	471.44	-2,366.09	875.73	782.42	93.31	9.385		
6,900.00	4,769.41	6,962.25	4,772.21	31.19	64.32	90.183	471.40	-2,416.09	875.74	780.68	95.06	9.213		
6,950.00	4,769.26	7,012.25	4,772.15	31.66	65.59	90.190	471.36	-2,466.09	875.74	778.93	96.81	9.046		
7,000.00	4,769.10	7,062.25	4,772.10	32.14	66.86	90.196	471.32	-2,516.09	875.75	777.18	98.57	8.885		
7,050.00	4,768.94	7,112.25	4,772.05	32.62	68.13	90.203	471.28	-2,566.09	875.75	775.42	100.33	8.729		
7,100.00	4,768.78	7,162.25	4,772.00	33.11	69.40	90.210	471.24	-2,616.09	875.76	773.66	102.09	8.578		
7,150.00	4,768.63	7,212.25	4,771.94	33.59	70.68	90.217	471.21	-2,666.08	875.76	771.90	103.86	8.432		
7,200.00	4,768.47	7,262.25	4,771.89	34.08	71.96	90.224	471.17	-2,716.08	875.76	770.13	105.64	8.290		
7,250.00	4,768.31	7,312.25	4,771.84	34.58	73.24	90.231	471.13	-2,766.08	875.77	768.35	107.41	8.153		
7,300.00	4,768.16	7,362.25	4,771.79	35.07	74.52	90.238	471.09	-2,816.08	875.77	766.58	109.20	8.020		
7,350.00	4,768.00	7,412.25	4,771.73	35.56	75.80	90.244	471.05	-2,866.08	875.78	764.80	110.98	7.891		
7,400.00	4,767.84	7,462.25	4,771.68	36.06	77.08	90.251	471.01	-2,916.08	875.78	763.02	112.77	7.766		
7,450.00	4,767.68	7,512.25	4,771.63	36.56	78.37	90.258	470.97	-2,966.08	875.79	761.23	114.56	7.645		
7,500.00	4,767.53	7,562.25	4,771.58	37.06	79.65	90.265	470.93	-3,016.08	875.79	759.44	116.35	7.527		
7,550.00	4,767.37	7,612.25	4,771.52	37.57	80.94	90.272	470.89	-3,066.08	875.80	757.65	118.15	7.413		
7,600.00	4,767.21	7,662.25	4,771.47	38.07	82.23	90.279	470.85	-3,116.08	875.80	755.86	119.95	7.302		
7,650.00	4,767.06	7,712.25	4,771.42	38.58	83.52	90.285	470.81	-3,166.08	875.81	754.06	121.75	7.194		
7,700.00	4,766.90	7,762.25	4,771.37	39.09	84.81	90.292	470.77	-3,216.08	875.81	752.26	123.55	7.089		
7,750.00	4,766.74	7,812.24	4,771.32	39.60	86.10	90.299	470.73	-3,266.08	875.82	750.46	125.36	6.986		
7,800.00	4,766.58	7,862.24	4,771.26	40.11	87.39	90.306	470.70	-3,316.08	875.82	748.66	127.17	6.887		
7,850.00	4,766.43	7,912.24	4,771.21	40.62	88.69	90.313	470.66	-3,366.08	875.83	746.85	128.98	6.790		
7,900.00	4,766.27	7,962.24	4,771.16	41.13	89.98	90.320	470.62	-3,416.08	875.83	745.04	130.79	6.696		
7,950.00	4,766.11	8,012.24	4,771.11	41.65	91.28	90.327	470.58	-3,466.08	875.84	743.23	132.61	6.605		
8,000.00	4,765.96	8,062.24	4,771.05	42.17	92.57	90.333	470.54	-3,516.08	875.84	741.42	134.42	6.516		
8,050.00	4,765.80	8,112.24	4,771.00	42.68	93.87	90.340	470.50	-3,566.08	875.85	739.61	136.24	6.429		
8,100.00	4,765.64	8,162.24	4,770.95	43.20	95.17	90.347	470.46	-3,616.08	875.85	737.79	138.06	6.344		
8,150.00	4,765.49	8,212.24	4,770.90	43.72	96.46	90.354	470.42	-3,666.08	875.86	735.97	139.89	6.261		
8,200.00	4,765.33	8,262.24	4,770.84	44.24	97.76	90.361	470.38	-3,716.08	875.86	734.15	141.71	6.181		
8,250.00	4,765.17	8,312.24	4,770.79	44.77	99.06	90.368	470.34	-3,766.08	875.87	732.33	143.54	6.102		
8,300.00	4,765.01	8,362.24	4,770.74	45.29	100.36	90.375	470.30	-3,816.08	875.87	730.51	145.36	6.025		
8,350.00	4,764.86	8,412.24	4,770.69	45.81	101.66	90.381	470.26	-3,866.08	875.88	728.69	147.19	5.951		
8,400.00	4,764.70	8,462.24	4,770.63	46.34	102.97	90.388	470.22	-3,916.08	875.88	726.86	149.02	5.878		
8,450.00	4,764.54	8,512.24	4,770.58	46.87	104.27	90.395	470.19	-3,966.08	875.89	725.04	150.85	5.806		
8,500.00	4,764.39	8,562.24	4,770.53	47.39	105.57	90.402	470.15	-4,016.08	875.89	723.21	152.68	5.737		
8,550.00	4,764.23	8,612.24	4,770.48	47.92	106.87	90.409	470.11	-4,066.08	875.90	721.38	154.52	5.669		
8,600.00	4,764.07	8,662.24	4,770.43	48.45	108.18	90.416	470.07	-4,116.08	875.90	719.55	156.35	5.602		
8,650.00	4,763.91	8,712.24	4,770.37	48.98	109.48	90.422	470.03	-4,166.08	875.91	717.72	158.19	5.537		
8,700.00	4,763.76	8,762.24	4,770.32	49.51	110.79	90.429	469.99	-4,216.08	875.91	715.89	160.03	5.474		
8,750.00	4,763.60	8,812.24	4,770.27	50.04	112.09	90.436	469.95	-4,266.08	875.92	714.05	161.87	5.411		
8,800.00	4,763.44	8,862.24	4,770.22	50.57	113.40	90.443	469.91	-4,316.08	875.93	712.22	163.71	5.351		
8,850.00	4,763.29	8,912.24	4,770.16	51.10	114.70	90.450	469.87	-4,366.08	875.93	710.38	165.55	5.291		
8,900.00	4,763.13	8,962.24	4,770.11	51.64	116.01	90.457	469.83	-4,416.08	875.94	708.55	167.39	5.233		
8,950.00	4,762.97	9,012.24	4,770.06	52.17	117.31	90.464	469.79	-4,466.08	875.94	706.71	169.23	5.176		
9,000.00	4,762.81	9,062.24	4,770.01	52.70	118.62	90.470	469.75	-4,516.08	875.95	704.87	171.08	5.120		
9,050.00	4,762.66	9,112.24	4,769.95	53.24	119.93	90.477	469.71	-4,566.08	875.95	703.03	172.92	5.066		
9,100.00	4,762.50	9,162.24	4,769.90	53.77	121.24	90.484	469.68	-4,616.08	875.96	701.19	174.77	5.012		
9,150.00	4,762.34	9,212.24	4,769.85	54.31	122.54	90.491	469.64	-4,666.08	875.96	699.35	176.61	4.960		
9,200.00	4,762.19	9,262.24	4,769.80	54.85	123.85	90.498	469.60	-4,716.08	875.97	697.51	178.46	4.908		
9,250.00	4,762.03	9,312.24	4,769.74	55.38	125.16	90.505	469.56	-4,766.08	875.97	695.66	180.31	4.858		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Reference Site: PICARD PAD
Site Error: 0.00 usft
Reference Well: PICARD #1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WBDS_SQL_2
Offset TVD Reference: Reference Datum

Offset Design PICARD PAD - PICARD #2H - Wellbore #1 - PLAN #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Reference	Offset	Reference	Offset	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,300.00	4,761.87	9,362.24	4,769.69	55.92	126.47	90.511	469.52	-4,816.08	875.98	693.82	182.16	4.809		
9,350.00	4,761.72	9,412.24	4,769.64	56.46	127.78	90.518	469.48	-4,866.08	875.98	691.98	184.01	4.761		
9,400.00	4,761.56	9,462.24	4,769.59	57.00	129.09	90.525	469.44	-4,916.08	875.99	690.13	185.86	4.713		
9,450.00	4,761.40	9,512.24	4,769.54	57.54	130.40	90.532	469.40	-4,966.08	875.99	688.29	187.71	4.667		
9,500.00	4,761.24	9,562.24	4,769.48	58.08	131.71	90.539	469.36	-5,016.08	876.00	686.44	189.56	4.621		
9,550.00	4,761.09	9,612.24	4,769.43	58.62	133.02	90.546	469.32	-5,066.08	876.00	684.59	191.41	4.577		
9,600.00	4,760.93	9,662.24	4,769.38	59.16	134.33	90.553	469.28	-5,116.08	876.01	682.74	193.27	4.533		
9,650.00	4,760.77	9,712.24	4,769.33	59.70	135.64	90.559	469.24	-5,166.08	876.02	680.90	195.12	4.490		
9,700.00	4,760.62	9,762.24	4,769.27	60.24	136.95	90.566	469.20	-5,216.08	876.02	679.05	196.97	4.447		
9,750.00	4,760.46	9,812.24	4,769.22	60.78	138.27	90.573	469.17	-5,266.08	876.03	677.20	198.83	4.406		
9,800.00	4,760.30	9,862.24	4,769.17	61.33	139.58	90.580	469.13	-5,316.08	876.03	675.35	200.68	4.365		
9,850.00	4,760.14	9,912.24	4,769.12	61.87	140.89	90.587	469.09	-5,366.08	876.04	673.50	202.54	4.325		
9,900.00	4,759.99	9,962.24	4,769.06	62.41	142.20	90.594	469.05	-5,416.08	876.04	671.65	204.40	4.286		
9,950.00	4,759.83	10,012.24	4,769.01	62.95	143.51	90.600	469.01	-5,466.08	876.05	669.79	206.25	4.247		
9,960.22	4,759.80	10,022.46	4,769.00	63.07	143.78	90.602	469.00	-5,476.30	876.05	669.42	206.63	4.240 SF		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

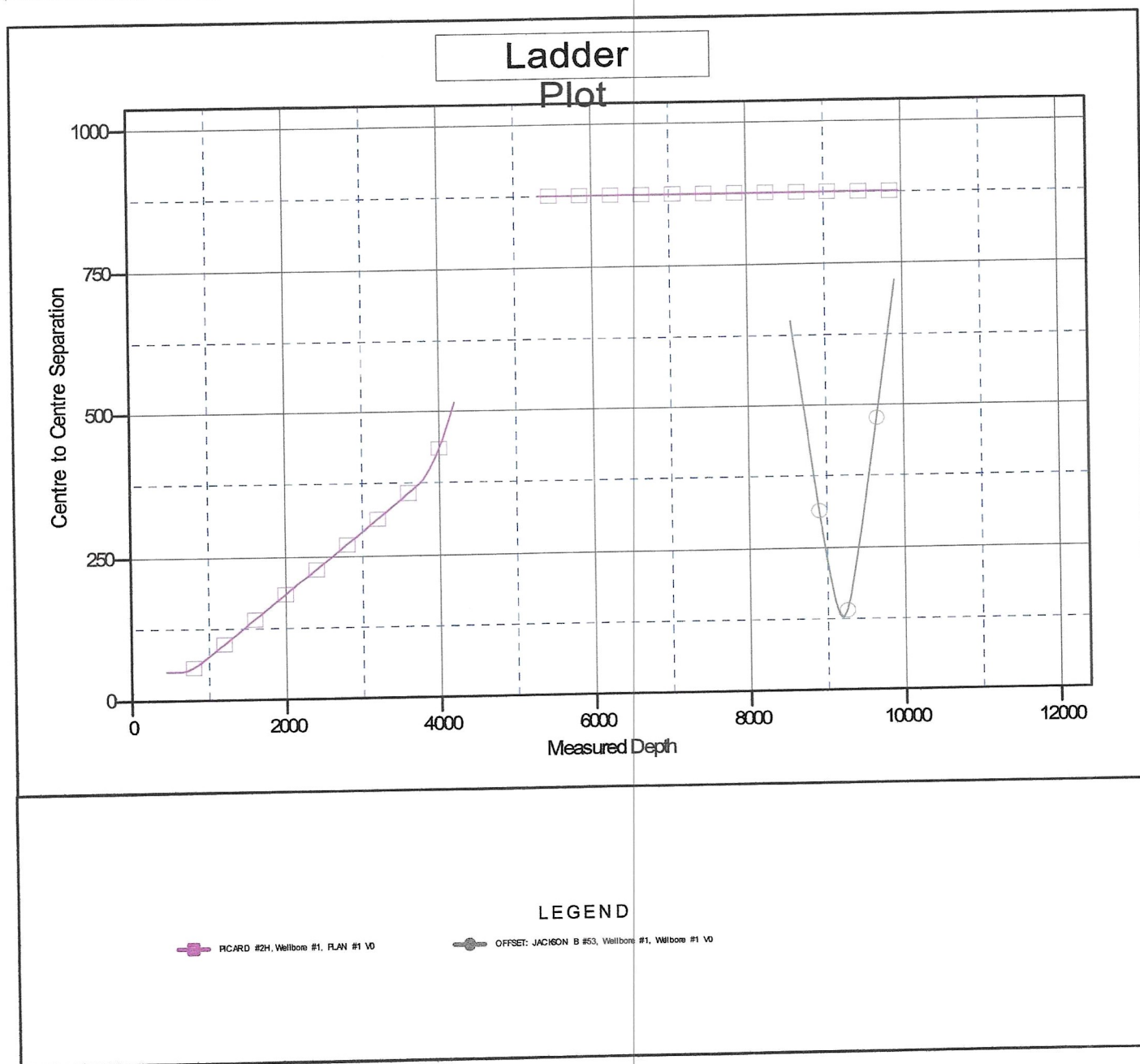


Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Reference Site: PICARD PAD
Site Error: 0.00 usft
Reference Well: PICARD #1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WBDS_SQL_2
Offset TVD Reference: Reference Datum

Reference Depths are relative to RKB = 16' @ 3740.00usft (TBD)
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: PICARD #1H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.227°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



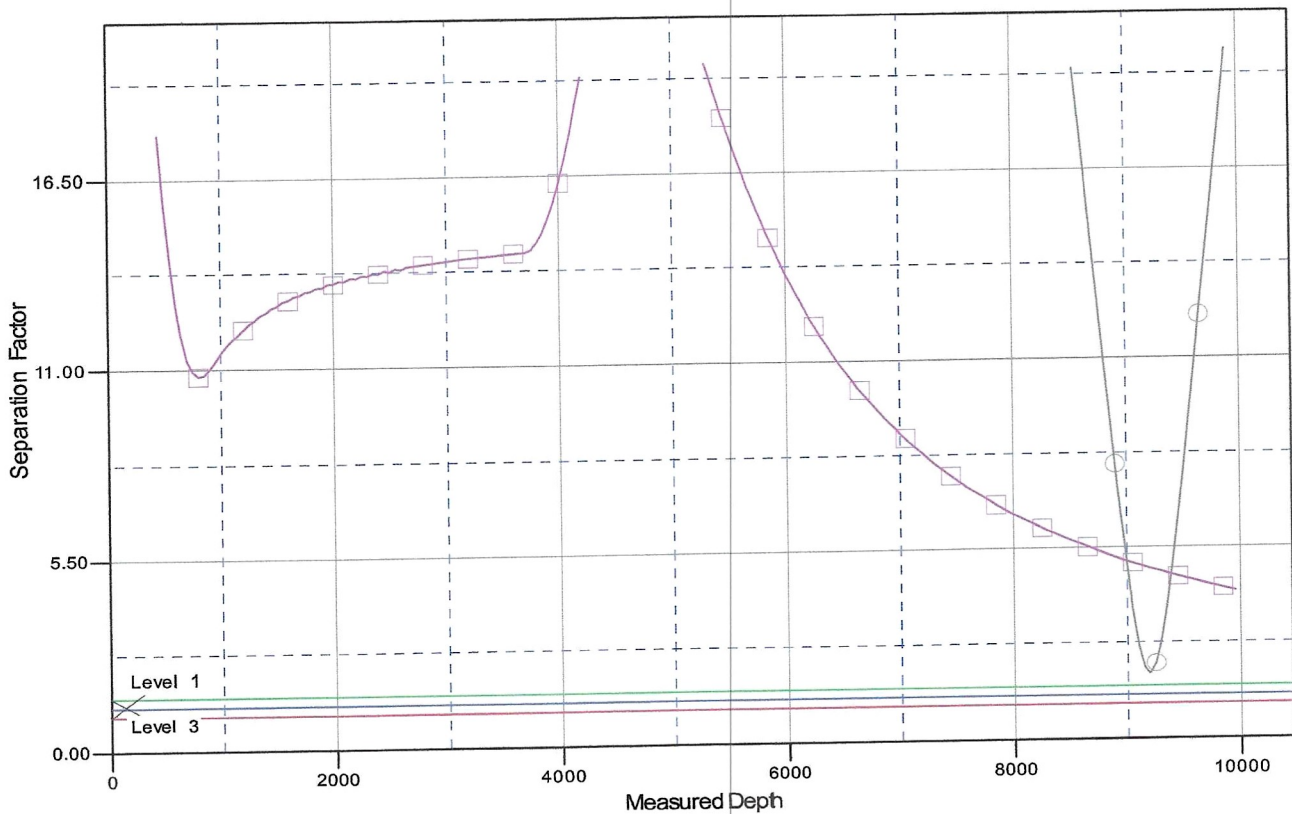
Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Reference Site: PICARD PAD
Site Error: 0.00 usft
Reference Well: PICARD #1H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WBDS_SQL_2
Offset TVD Reference: Reference Datum

Reference Depths are relative to RKB = 16' @ 3740.00usft (TBD)
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333334

Coordinates are relative to: PICARD #1H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.227°

Separation Factor Plot



LEGEND

PICARD #2H, Wellbore #1, PLAN #1 VO

OFFSET: JACKSON B #53, Wellbore #1, Wellbore #1 VO

**MR NM OPERATING, LLC
PICARD FEDERAL #1H
30-015-46452
EDDY COUNTY, NEW MEXICO**

CHANGE OF PLANS

REQUEST TO MOVE THE SURFACE HOLE LOCATION AS FOLLOWS:

FROM: 711' FSL & 296' FWL OF SECTION 6-T17S-R31E (LOT 7)

TO: 906' FSL & 297' FWL OF SECTION 6-T17S-R31E (LOT 7)

VICINITY MAPS, DIRECTIONAL SURVEY, ANTI COLLISION PLAN AND C-102 ARE ATTACHED.

30-015-46452



CYPRESS NATURAL RESOURCES

EDDY CO., NM (NAD-83 / EAST-ZONE)

PICARD PAD

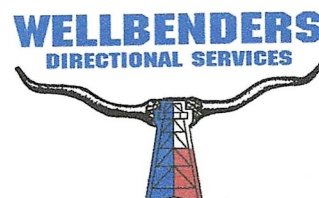
PICARD #1H

Wellbore #1

Plan: PLAN #1

Standard Planning Report

04 February, 2022





Planning Report



Database: WBDS_SQL_2
Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Site: PICARD PAD
Well: PICARD #1H
Wellbore: Wellbore #1
Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project EDDY CO., NM (NAD-83 / EAST-ZONE)

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

Site PICARD PAD

Site Position: Northing: 676,401.00 usft Latitude: 32.858753
From: Map Easting: 669,542.00 usft Longitude: -103.915818
Position Uncertainty: 0.00 usft Slot Radius: 13.200 in Grid Convergence: 0.227 °

Well PICARD #1H

Well Position +N/-S 0.00 usft Northing: 676,401.00 usft Latitude: 32.858753
 +E/-W 0.00 usft Easting: 669,542.00 usft Longitude: -103.915818
Position Uncertainty 0.00 usft Wellhead Elevation: Ground Level: 3,724.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/3/2022	6.660	60.524	47,795.59830123

Design PLAN #1

Audit Notes:
Version: Phase: PLAN Tie On Depth: 0.00
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 (usft) (usft) (usft) (°)
 0.00 0.00 0.00 269.95

Plan Survey Tool Program Date 2/4/2022

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.00	9,959.62	PLAN #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR	
			OWSG MWD + IFR1 + Sag	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.000	
910.54	6.21	180.00	909.94	-16.82	0.00	2.00	2.00	0.00	179.995	
4,103.95	6.21	180.00	4,084.60	-362.31	0.03	0.00	0.00	0.00	0.000	
4,772.72	60.00	269.95	4,635.87	-402.50	-319.49	9.00	8.04	13.45	93.529	
4,922.72	60.00	269.95	4,710.87	-402.61	-449.39	0.00	0.00	0.00	0.000	
5,174.22	90.18	269.95	4,774.83	-402.82	-689.63	12.00	12.00	0.00	0.000	
9,959.62	90.18	269.95	4,759.80	-407.00	-5,475.00	0.00	0.00	0.00	0.000	PICARD 1H: LOWE



Planning Report



Database: WBDS_SQL_2
 Company: CYPRESS NATURAL RESOURCES
 Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
 Site: PICARD PAD
 Well: PICARD #1H
 Wellbore: Wellbore #1
 Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
 TVD Reference: RKB = 16' @ 3740.00usft (TBD)
 MD Reference: RKB = 16' @ 3740.00usft (TBD)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	2.00	180.00	699.98	-1.75	0.00	0.00	2.00	2.00	0.00
800.00	4.00	180.00	799.84	-6.98	0.00	0.01	2.00	2.00	0.00
900.00	6.00	180.00	899.45	-15.69	0.00	0.01	2.00	2.00	0.00
910.54	6.21	180.00	909.94	-16.82	0.00	0.01	2.00	2.00	0.00
1,000.00	6.21	180.00	998.87	-26.49	0.00	0.02	0.00	0.00	0.00
1,100.00	6.21	180.00	1,098.28	-37.31	0.00	0.03	0.00	0.00	0.00
1,200.00	6.21	180.00	1,197.69	-48.13	0.00	0.04	0.00	0.00	0.00
1,300.00	6.21	180.00	1,297.11	-58.95	0.00	0.05	0.00	0.00	0.00
1,400.00	6.21	180.00	1,396.52	-69.77	0.01	0.06	0.00	0.00	0.00
1,500.00	6.21	180.00	1,495.93	-80.59	0.01	0.06	0.00	0.00	0.00
1,600.00	6.21	180.00	1,595.35	-91.41	0.01	0.07	0.00	0.00	0.00
1,700.00	6.21	180.00	1,694.76	-102.23	0.01	0.08	0.00	0.00	0.00
1,800.00	6.21	180.00	1,794.17	-113.04	0.01	0.09	0.00	0.00	0.00
1,900.00	6.21	180.00	1,893.58	-123.86	0.01	0.10	0.00	0.00	0.00
2,000.00	6.21	180.00	1,993.00	-134.68	0.01	0.11	0.00	0.00	0.00
2,100.00	6.21	180.00	2,092.41	-145.50	0.01	0.11	0.00	0.00	0.00
2,200.00	6.21	180.00	2,191.82	-156.32	0.01	0.12	0.00	0.00	0.00
2,300.00	6.21	180.00	2,291.24	-167.14	0.01	0.13	0.00	0.00	0.00
2,400.00	6.21	180.00	2,390.65	-177.96	0.01	0.14	0.00	0.00	0.00
2,500.00	6.21	180.00	2,490.06	-188.78	0.02	0.15	0.00	0.00	0.00
2,600.00	6.21	180.00	2,589.48	-199.59	0.02	0.16	0.00	0.00	0.00
2,700.00	6.21	180.00	2,688.89	-210.41	0.02	0.17	0.00	0.00	0.00
2,800.00	6.21	180.00	2,788.30	-221.23	0.02	0.17	0.00	0.00	0.00
2,900.00	6.21	180.00	2,887.71	-232.05	0.02	0.18	0.00	0.00	0.00
3,000.00	6.21	180.00	2,987.13	-242.87	0.02	0.19	0.00	0.00	0.00
3,100.00	6.21	180.00	3,086.54	-253.69	0.02	0.20	0.00	0.00	0.00
3,200.00	6.21	180.00	3,185.95	-264.51	0.02	0.21	0.00	0.00	0.00
3,300.00	6.21	180.00	3,285.37	-275.33	0.02	0.22	0.00	0.00	0.00
3,400.00	6.21	180.00	3,384.78	-286.15	0.02	0.23	0.00	0.00	0.00
3,500.00	6.21	180.00	3,484.19	-296.96	0.02	0.23	0.00	0.00	0.00
3,600.00	6.21	180.00	3,583.61	-307.78	0.03	0.24	0.00	0.00	0.00
3,700.00	6.21	180.00	3,683.02	-318.60	0.03	0.25	0.00	0.00	0.00
3,800.00	6.21	180.00	3,782.43	-329.42	0.03	0.26	0.00	0.00	0.00
3,900.00	6.21	180.00	3,881.85	-340.24	0.03	0.27	0.00	0.00	0.00
4,000.00	6.21	180.00	3,981.26	-351.06	0.03	0.28	0.00	0.00	0.00
4,103.95	6.21	180.00	4,084.60	-362.31	0.03	0.29	0.00	0.00	0.00
4,150.00	7.25	214.87	4,130.35	-367.18	-1.63	1.95	9.00	2.25	75.74
4,200.00	10.31	236.90	4,179.77	-372.22	-7.19	7.51	9.00	6.14	44.06
4,250.00	14.16	248.05	4,228.63	-376.95	-16.62	16.94	9.00	7.70	22.30
4,300.00	18.31	254.38	4,276.63	-381.35	-29.86	30.19	9.00	8.29	12.66
4,350.00	22.58	258.41	4,323.47	-385.40	-46.84	47.17	9.00	8.55	8.05
4,400.00	26.93	261.20	4,368.87	-389.06	-67.44	67.78	9.00	8.69	5.58
4,450.00	31.32	263.26	4,412.54	-392.32	-91.55	91.89	9.00	8.77	4.12
4,500.00	35.73	264.86	4,454.21	-395.15	-119.01	119.35	9.00	8.83	3.20
4,550.00	40.16	266.15	4,493.63	-397.54	-149.65	150.00	9.00	8.86	2.58
4,600.00	44.60	267.22	4,530.55	-399.48	-183.29	183.64	9.00	8.88	2.14
4,650.00	49.05	268.14	4,564.75	-400.94	-219.72	220.07	9.00	8.90	1.83



Planning Report



Database: WBDS_SQL_2
Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Site: PICARD PAD
Well: PICARD #1H
Wellbore: Wellbore #1
Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,700.00	53.51	268.94	4,596.02	-401.93	-258.71	259.06	9.00	8.91	1.60
4,750.00	57.97	269.65	4,624.16	-402.43	-300.02	300.37	9.00	8.92	1.42
4,772.72	60.00	269.95	4,635.87	-402.50	-319.49	319.84	9.00	8.93	1.32
4,800.00	60.00	269.95	4,649.51	-402.52	-343.11	343.47	0.00	0.00	0.00
4,900.00	60.00	269.95	4,699.51	-402.60	-429.72	430.07	0.00	0.00	0.00
4,922.72	60.00	269.95	4,710.87	-402.61	-449.39	449.74	0.00	0.00	0.00
4,925.00	60.27	269.95	4,712.00	-402.62	-451.37	451.72	12.00	12.00	0.00
4,950.00	63.27	269.95	4,723.83	-402.64	-473.39	473.75	12.00	12.00	0.00
4,975.00	66.27	269.95	4,734.48	-402.66	-496.01	496.36	12.00	12.00	0.00
5,000.00	69.27	269.95	4,743.93	-402.68	-519.15	519.50	12.00	12.00	0.00
5,025.00	72.27	269.95	4,752.17	-402.70	-542.75	543.10	12.00	12.00	0.00
5,050.00	75.27	269.95	4,759.15	-402.72	-566.75	567.10	12.00	12.00	0.00
5,075.00	78.27	269.95	4,764.87	-402.74	-591.09	591.44	12.00	12.00	0.00
5,100.00	81.27	269.95	4,769.31	-402.76	-615.69	616.04	12.00	12.00	0.00
5,125.00	84.27	269.95	4,772.45	-402.78	-640.48	640.84	12.00	12.00	0.00
5,150.00	87.27	269.95	4,774.30	-402.80	-665.41	665.76	12.00	12.00	0.00
5,173.07	90.04	269.95	4,774.84	-402.82	-688.48	688.83	12.00	12.00	0.00
TGT: 4777' KBTVD									
5,174.22	90.18	269.95	4,774.83	-402.82	-689.63	689.98	12.00	12.00	0.00
5,200.00	90.18	269.95	4,774.75	-402.85	-715.40	715.76	0.00	0.00	0.00
5,300.00	90.18	269.95	4,774.44	-402.93	-815.40	815.76	0.00	0.00	0.00
5,400.00	90.18	269.95	4,774.12	-403.02	-915.40	915.75	0.00	0.00	0.00
5,500.00	90.18	269.95	4,773.81	-403.11	-1,015.40	1,015.75	0.00	0.00	0.00
5,600.00	90.18	269.95	4,773.50	-403.20	-1,115.40	1,115.75	0.00	0.00	0.00
5,700.00	90.18	269.95	4,773.18	-403.28	-1,215.40	1,215.75	0.00	0.00	0.00
5,800.00	90.18	269.95	4,772.87	-403.37	-1,315.40	1,315.75	0.00	0.00	0.00
5,900.00	90.18	269.95	4,772.55	-403.46	-1,415.40	1,415.75	0.00	0.00	0.00
6,000.00	90.18	269.95	4,772.24	-403.54	-1,515.40	1,515.75	0.00	0.00	0.00
6,100.00	90.18	269.95	4,771.93	-403.63	-1,615.40	1,615.75	0.00	0.00	0.00
6,200.00	90.18	269.95	4,771.61	-403.72	-1,715.40	1,715.75	0.00	0.00	0.00
6,300.00	90.18	269.95	4,771.30	-403.81	-1,815.40	1,815.75	0.00	0.00	0.00
6,400.00	90.18	269.95	4,770.98	-403.89	-1,915.40	1,915.75	0.00	0.00	0.00
6,500.00	90.18	269.95	4,770.67	-403.98	-2,015.40	2,015.75	0.00	0.00	0.00
6,600.00	90.18	269.95	4,770.35	-404.07	-2,115.40	2,115.75	0.00	0.00	0.00
6,700.00	90.18	269.95	4,770.04	-404.16	-2,215.40	2,215.75	0.00	0.00	0.00
6,800.00	90.18	269.95	4,769.73	-404.24	-2,315.40	2,315.75	0.00	0.00	0.00
6,900.00	90.18	269.95	4,769.41	-404.33	-2,415.40	2,415.75	0.00	0.00	0.00
7,000.00	90.18	269.95	4,769.10	-404.42	-2,515.40	2,515.75	0.00	0.00	0.00
7,100.00	90.18	269.95	4,768.78	-404.50	-2,615.39	2,615.75	0.00	0.00	0.00
7,200.00	90.18	269.95	4,768.47	-404.59	-2,715.39	2,715.75	0.00	0.00	0.00
7,300.00	90.18	269.95	4,768.16	-404.68	-2,815.39	2,815.75	0.00	0.00	0.00
7,400.00	90.18	269.95	4,767.84	-404.77	-2,915.39	2,915.75	0.00	0.00	0.00
7,500.00	90.18	269.95	4,767.53	-404.85	-3,015.39	3,015.74	0.00	0.00	0.00
7,600.00	90.18	269.95	4,767.21	-404.94	-3,115.39	3,115.74	0.00	0.00	0.00
7,700.00	90.18	269.95	4,766.90	-405.03	-3,215.39	3,215.74	0.00	0.00	0.00
7,800.00	90.18	269.95	4,766.58	-405.12	-3,315.39	3,315.74	0.00	0.00	0.00
7,900.00	90.18	269.95	4,766.27	-405.20	-3,415.39	3,415.74	0.00	0.00	0.00
8,000.00	90.18	269.95	4,765.96	-405.29	-3,515.39	3,515.74	0.00	0.00	0.00
8,100.00	90.18	269.95	4,765.64	-405.38	-3,615.39	3,615.74	0.00	0.00	0.00
8,200.00	90.18	269.95	4,765.33	-405.46	-3,715.39	3,715.74	0.00	0.00	0.00
8,300.00	90.18	269.95	4,765.01	-405.55	-3,815.39	3,815.74	0.00	0.00	0.00
8,400.00	90.18	269.95	4,764.70	-405.64	-3,915.39	3,915.74	0.00	0.00	0.00
8,500.00	90.18	269.95	4,764.39	-405.73	-4,015.39	4,015.74	0.00	0.00	0.00



Planning Report



Database: WBDS_SQL_2
Company: CYPRESS NATURAL RESOURCES
Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
Site: PICARD PAD
Well: PICARD #1H
Wellbore: Wellbore #1
Design: PLAN #1

Local Co-ordinate Reference: Well PICARD #1H
TVD Reference: RKB = 16' @ 3740.00usft (TBD)
MD Reference: RKB = 16' @ 3740.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,600.00	90.18	269.95	4,764.07	-405.81	-4,115.39	4,115.74	0.00	0.00	0.00
8,700.00	90.18	269.95	4,763.76	-405.90	-4,215.39	4,215.74	0.00	0.00	0.00
8,800.00	90.18	269.95	4,763.44	-405.99	-4,315.39	4,315.74	0.00	0.00	0.00
8,900.00	90.18	269.95	4,763.13	-406.08	-4,415.39	4,415.74	0.00	0.00	0.00
9,000.00	90.18	269.95	4,762.81	-406.16	-4,515.38	4,515.74	0.00	0.00	0.00
9,100.00	90.18	269.95	4,762.50	-406.25	-4,615.38	4,615.74	0.00	0.00	0.00
9,200.00	90.18	269.95	4,762.19	-406.34	-4,715.38	4,715.74	0.00	0.00	0.00
9,300.00	90.18	269.95	4,761.87	-406.42	-4,815.38	4,815.74	0.00	0.00	0.00
9,400.00	90.18	269.95	4,761.56	-406.51	-4,915.38	4,915.74	0.00	0.00	0.00
9,500.00	90.18	269.95	4,761.24	-406.60	-5,015.38	5,015.73	0.00	0.00	0.00
9,600.00	90.18	269.95	4,760.93	-406.69	-5,115.38	5,115.73	0.00	0.00	0.00
9,700.00	90.18	269.95	4,760.62	-406.77	-5,215.38	5,215.73	0.00	0.00	0.00
9,800.00	90.18	269.95	4,760.30	-406.86	-5,315.38	5,315.73	0.00	0.00	0.00
9,900.00	90.18	269.95	4,759.99	-406.95	-5,415.38	5,415.73	0.00	0.00	0.00
9,959.62	90.18	269.95	4,759.80	-407.00	-5,475.00	5,475.35	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PICARD 1H: SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	676,401.00	669,542.00	32.858753	-103.915818
PICARD 1H: LOWER - plan hits target center - Point	0.00	0.00	4,759.80	-407.00	-5,475.00	675,994.00	664,067.00	32.857692	-103.933653
PICARD 1H: LP (PLA - plan hits target center - Point	0.00	0.00	4,774.83	-402.82	-689.63	675,998.17	668,852.38	32.857653	-103.918069
PICARD 1H: UPPER - plan misses target center by 82.90usft at 4908.93usft MD (4703.97 TVD, -402.60 N, -437.45 E) - Point	0.00	0.00	4,775.76	-403.00	-396.00	675,998.00	669,146.00	32.857649	-103.917113

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,173.07	4,774.84	TGT: 4777' KBTVD		-0.180	269.95



Company: CYCRESS NATURAL RESOURCES
 Project: EDDY CO., NM (NAD-83 / EAST-ZONE)
 Site: PICARD #1H
 Well: PICARD #1H
 Wellbore: Wellbore #1
 Rig: 1BD
 Design: PLAN #1 / 16-37, February 04 2022

WELL DETAILS: PICARD #1H
 RIG = 1" @ 374.00m (119)
 374.00
 N/S +E/W
 0.00 0.00
 67001.00
 68552.00
 32.8573
 32.8573
 103.97518
 103.97518

SECTION DETAILS

Sec	MD	Inc	Adj	TVD	N/S	+E/W	Dirg	Tface	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.01	
3	910.54	6.21	180.00	989.34	-16.82	0.00	2.00	179.985	0.01	
4	4103.95	6.21	180.00	4084.00	-36.23	0.00	0.00	0.00	0.00	
5	4172.72	60.00	180.00	4084.00	-36.23	0.00	0.00	0.00	0.00	
6	4172.72	60.00	180.00	4084.00	-36.23	0.00	0.00	0.00	0.00	
7	5174.22	90.18	269.55	4714.33	-40.22	-89.63	12.00	0.00	448.74	
8	8959.62	90.18	269.55	4714.33	-40.22	-89.63	12.00	0.00	689.28	
									5473.35	

DESIGN TARGET DETAILS

Name	MD	Inc	Adj	TVD	N/S	+E/W	Dirg	Tface	Vsect	Target
PICARD 1H: SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PICARD 1H: LOWER PERF BHL	4714.33	0.00	0.00	4714.33	-40.22	-89.63	12.00	0.00	689.28	
PICARD 1H: UPPER PERF (PLAN)	4714.33	0.00	0.00	4714.33	-40.22	-89.63	12.00	0.00	689.28	



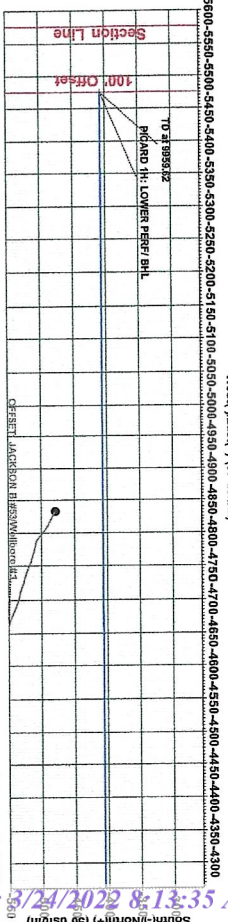
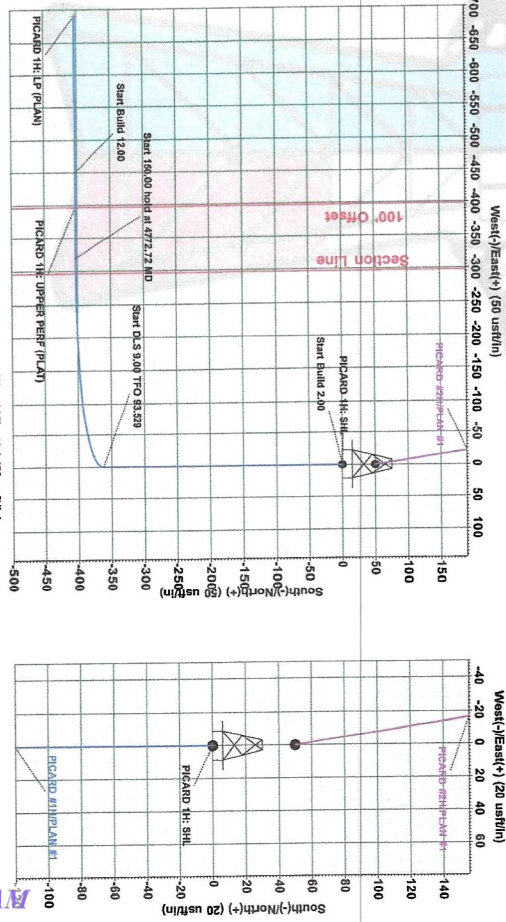
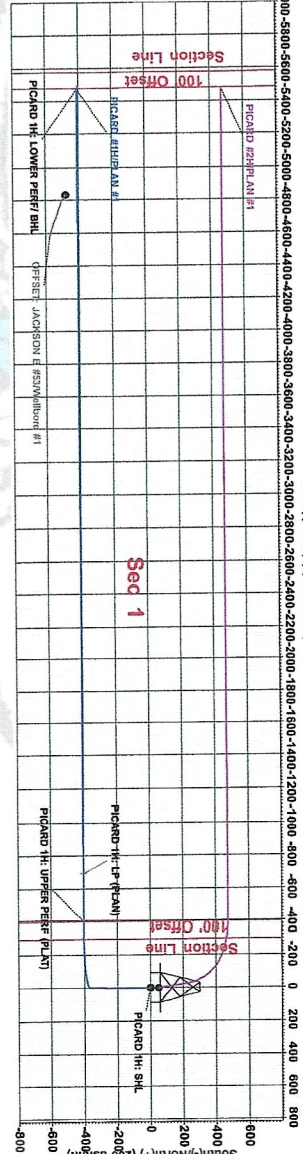
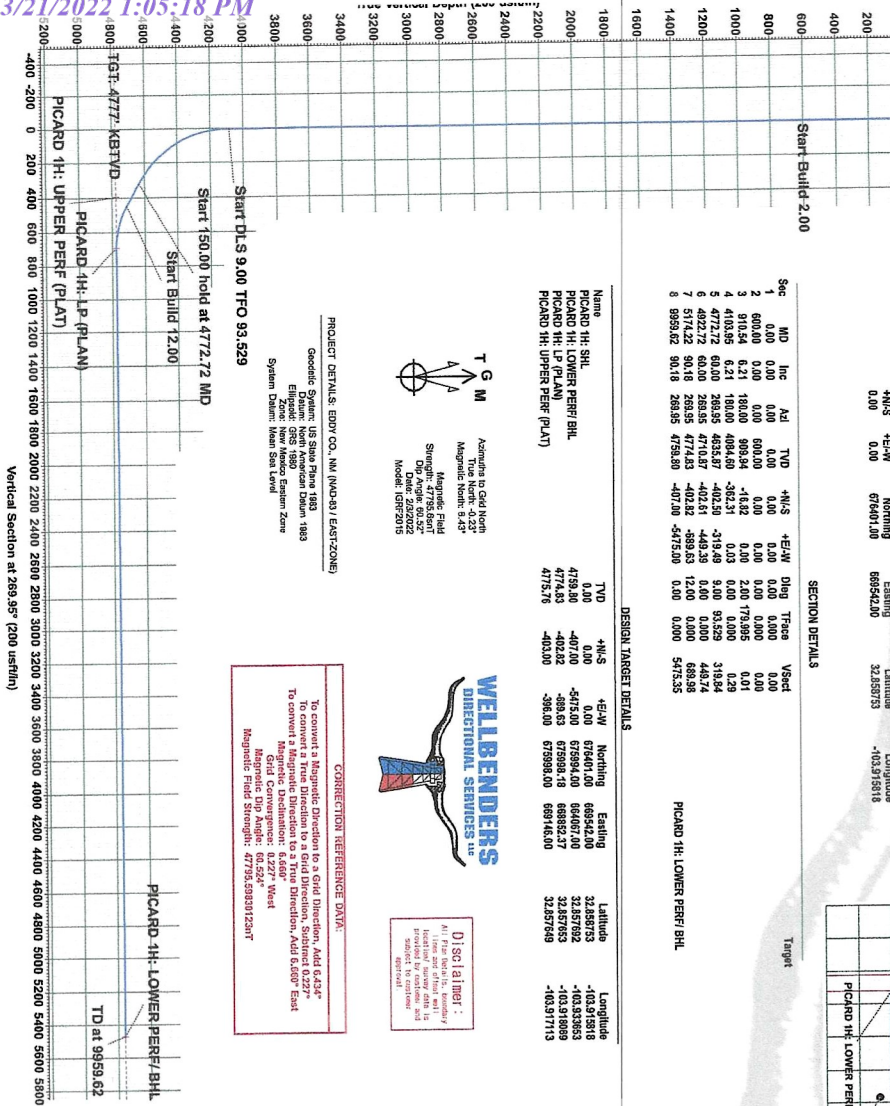
Disclaimer:
 The user of this software is responsible for the accuracy of the data and the results of the calculations. The user is advised to verify the data and the results of the calculations before using them for any purpose.

PROJECT DETAILS: EDDY CO., NM (NAD-83 / EAST-ZONE)

Geographic System: US State Plane 1983
 Zone: 10N
 Datum: NAD 83
 Spheroid: GRS 1980
 System: Cartesian
 Units: Meter
 Datum Shift: 1983

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.527°
 To convert a Magnetic Direction to a True Direction, Subtract 6.527°
 Magnetic Declination: 6.527° West
 Magnetic Dip Angle: 66.527°
 Magnetic Field Strength: 47795.598012207



Plan: PLAN #1 (PICARD #1H/Wellbore #1) 1BD
 Created By: Matthew May Date: 16-37, February 04 22

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 91627

CONDITIONS

Operator: MR NM Operating LLC 5950 Berkshire Lane Dallas, TX 75225	OGRID: 330506
	Action Number: 91627
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	3/24/2022